

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, earlyand 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 narrowrow (<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, broadleaved sweet white, narrow-leaf yellow lupins compared to yellow peas.

### USING THIS GUIDE

This publication features the results from MPSG-sponsored trials. Contents of this publication can only be reproduced with the permission of MPSG.

> 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 siteyear 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.

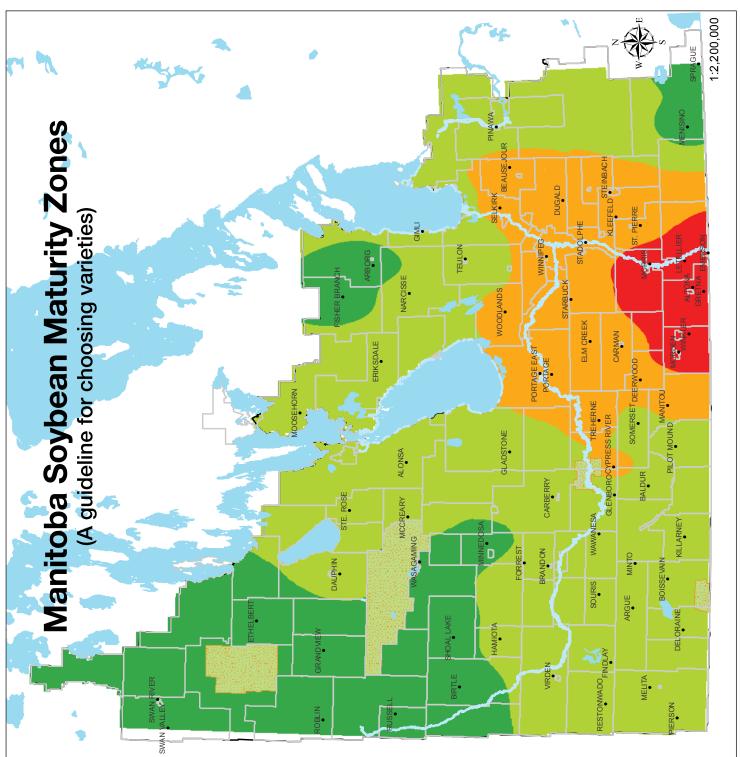
TSW (g/1000 seeds) – The thousand seed weight, referring to the seed weight in grams per 1000 seeds.

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

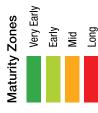
**CV** % – The coefficient of variation (CV) is the statistical measure of random variation in a research trial. A CV of less than 15% generally indicates a more uniform trial and conclusive data.

**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.







Maturity Zone	GH	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
i			

This map is based on 1981–2010 Climate Normal Data for cumulative Corn Heat Units (CHU, May 15 – Sept 20) and average frost-free period (FFP, days Tmin > 0°C).

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

#### Туре

 $\mathsf{E3}=\mathsf{Enlist}\;\mathsf{E3}^{\$}$  soybeans with 2,4-D choline, glyphosate and glufosinate herbicide tolerance.

RR1 = Roundup Ready 1 soybeans with glyphosate herbicide tolerance.

 $\mathsf{R2Y} = \mathsf{Genuity}^{\$} \, \mathsf{Roundup} \, \mathsf{Ready} \, 2 \, \mathsf{Yield}^{\$} \, \mathsf{soybeans} \, \mathsf{with} \, \mathsf{glyphosate}$  herbicide tolerance.

 $\mathsf{R2X}=\mathsf{Roundup}\ \mathsf{Ready}\ \mathsf{2}\ \mathsf{Xtend}^{\circledast}\ \mathsf{soybeans}\ \mathsf{with}\ \mathsf{dicamba}\ \mathsf{and}\ \mathsf{glyphosate}\ \mathsf{herbicide}\ \mathsf{tolerance}.$ 

 $\mathsf{WPX}=\mathsf{Blended}\xspace$  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 ( $\leq$ 1.7) ST = semi-tolerant (1.8 – 2.2) S = susceptible ( $\geq$ 2.3)

Table 1 Field risk of IDC based on carbonate and soluble sal

soil test levels.	soil test levels.									
Soluble Salt		Carbonate (%)								
(mmhos/cm)	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 IDCprone 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

Manitoli         Company         Versite view         Meringe         Numeringe         Site Varial         Hillion           Zone         Group         Versite view         Type         Pri/Check         Gloup         Gloup           Very Early         00.09         PV Sto009/84         Rix         -6         94         7         Mit           Very Early         00.3         S003-Risx         Rix         -5         98         7         Mit           Ou         B01 Hector/XT         Rix         -3         89         12         BI           00.2         P01 Mem E3*         E3         -3         97         7         Y           00.2         TMMem02X         Rix         Rix         2         90         12         BI           00.2         TMMem02X         Rix         Rix         2         92         12         BI           00.3         Hart Rix         Rix         Rix         -2         94         12         BR           00.3         P003200E         B3         -1         97         7         Y           00.3         NOSC Mondrig <rix< td="">         Rix         1         90         13         BL      <tr< th=""><th>Rating (1–5) 1.8 2.1 1.9 1.9 2.1 1.9 2.1 1.9 1.8 1.9 1.8 1.9 1.8 1.7</th><th>Group ST ST ST ST ST ST ST ST ST ST</th><th>SCN yes - - - - -</th><th>PRF - 1c 1k,e</th></tr<></rix<>	Rating (1–5) 1.8 2.1 1.9 1.9 2.1 1.9 2.1 1.9 1.8 1.9 1.8 1.9 1.8 1.7	Group ST ST ST ST ST ST ST ST ST ST	SCN yes - - - - -	PRF - 1c 1k,e
Very Early- Season Zone         000.9         PV 50009X84         R2X         -6         94         12         BL           Season Zone         00.1         S003-R5X         R2X         -5         89         7         IV           00.1         BY Hector XT         R2X         -4         84         12         BL           00.1         BY Hector XT         R2X         -4         84         12         BL           00.2         P002472E         E3         -3         97         7         Y           00.4         NE XPDOMES         E3         -3         97         7         Y           00.4         NE XPDOMES         E3         -3         97         7         Y           00.4         NO XPDOMIX         R2X         -2         90         7         BL           00.1         Alouette R2X         R2X         -2         90         7         BR           00.1         Chouette R2X         R2X         -1         94         12         BR           00.1         Chouette R2X         R2X         -1         95         BR           00.4         Body AP         PO         PO         PO	1.8 2.1 1.9 1.9 2.1 1.9 1.8 1.9 1.8	ST ST ST ST ST ST ST ST ST ST	yes _ _ _ _	– 1c 1k,6
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Mid- Long- Season         00.4         B004EE         E3         -1         99         7         BF           00.3         BY Deno XT         R2X         -1         89         12         BR           00.4         NSC Holland RR2X         R2X         -1         94         22         BR           00.4         NSC Holland RR2X         R2X         -1         95         25         BR           00.0         P006A37X         R2X         0         100         39         BR           00.5         NSC Arden RR2X         R2X         0         103         7         BL           00.5         NSC EXPORCY         R2X         0         103         7         BR           00.5         NSC EXPORCY         R2X         0         101         7         PI           00.5         MSC EXPORCY         R2X         0         94         36         BL           00.3         THB5003XF         R2XF         0         97         7         BR           00.6         BY Robson XT         R2X         1         90         12         BL           00.6         BY Robson XT         R2X         1         99				
Nick         BY Deno XT         R2X         -1         89         12         BL           00.4         NSC Holland RR2X         R2X         -1         97         7         Y           00.2         DK8002-32         R2X         -1         95         25         BR           00.2         DKSC Arden RR2X         R2X         0         100         39         BR           00.2         NSC Arden RR2X         R2X         0         102         7         BR           00.4         MsC Holmewood RR2X         R2X         0         101         7         BR           00.4         Bourke R2X         R2X         0         97         7         BR           00.4         Bourke R2X         R2X         1         90         13         BL           00.4         Bourke R2X         R2X         1         90         22         BL           00.4         PV O5000 R2X         R2X         1         90         22         BL           00.4         PV O4287E         E3         1         90         22         BL           00.4         PV O5000 R2X         R2X         1         92         33         BL	2.1	ST	yes	10
Image: biolog         MSC Holland RR2X         R2X         -1         94         22         BR           00.2         DNB002-32         R2X         -1         97         7         Y           00.2         DNB002-32         R2X         -1         97         7         S           00.4         PN06A37X         R2X         0         100         39         BR           00.5         NSC EXPORACX         R2X         0         101         7         BR           00.6         NSC Homewood R2X         R2X         0         101         7         BR           00.3         Otio SYF         R2XF         0         97         7         BR           00.4         Merino R2X         R2X         1         90         13         BL           00.4         Brobson XT         R2X         1         90         12         BL           00.4         PV 042302R         R2X         1         90         22         BL           00.4         PV 156004R2X         R2X         1         92         33         BL           00.5         TH84005XF         R2X         2         100         7         BL <td>2.0</td> <td>ST</td> <td>yes</td> <td>10</td>	2.0	ST	yes	10
Image: Not start in the star	2.0	ST	yes	10
Mid-         00.2         DKB002-3:2         R2X         -1         95         25         BR           00.2         NSC Arden RR2X         R2X         0         100         39         R           00.2         NSC Arden RR2X         R2X         0         102         7         BR           00.4         NSC EXP004CX         R2X         0         103         7         BL           00.3         Oslo XF         R2XF         0         101         7         IV           00.3         Oslo XF         R2XF         0         97         7         BR           00.4         Bourke R2X         R2X         1         90         13         BL           00.4         Merino R2X         R2X         1         90         12         BL           00.4         PO04287E         E3         1         97         7         R2           00.4         PO04237T         R2X         1         92         33         BL           00.3         S100323TT         R2X         2         97         10         BL           00.6         Badger R2X         R2X         2         102         12         BL	1.9	ST	-	10
P00.6P006A37XR2X09110098BR00.2NSC Arden RR2XR2X09116161600.5NSC EXPOO4R2X010378100.6NSC Homewood RR2XR2X0101778100.3Cslo XFR2XF0977818100.4Bourke R2XR2X094368100.4Bourke R2XR2X190438100.4P004287EE319778100.4P004287EE319778100.4P004287EE3190228100.4P004287EE3210078100.4P004287ER2X199128100.5S10023XTR2X19778100.6Badger R2XR2X210078100.6S100623XTR2X2102128100.6CN00524E3E3-19678100.6EXP00524XR2X110571100.7P109294EE331044700.8P109294EE331044700.9P109294EE3310498121600.9P109294EE3310447<	2.2	ST	-	10
00.2NSC Arden RR2XR2X09116BL0.05NSC EXPOO4CXR2X01027BR0.06NSC Homewood RR2XR2X0977BR0.03Oslo XFR2XF0977BR0.04Bourke R2XR2X0977BR0.04Merino R2XR2X19013BL0.04Merino R2XR2X19013BL0.04PO4287EE31977Y0.02PV 22s002 R2XR2X19022BL0.04PV 165004 R2XR2X19233BL0.05S100523TTR2X29710BL0.05TH84005XFR2XF2867BL0.06S100623TTR2X210011BL0.05TH84005XFR2XF0967BR0.05S100623TTR2X11057Y0.06EXP006-24RFR2XF0967BR0.05CP00523VPXWPX2904BL0.05CP00523VPXR2X39922BR0.05CP00523VPXR2X39922BR0.05TH8005F2XR2X39922BR0.05TH8005P3TXR2X39922BR0.05 <td< td=""><td>1.8</td><td>ST</td><td>yes</td><td>11</td></td<>	1.8	ST	yes	11
00.5NSC EXPOO4CXR2X01027BR00.6NSC Homewood R2XR2X01037GL00.3Oslo XFR2XF0977BR00.4Bourke R2XR2X09436BL00.4Bourke R2XR2X19013BL00.6BY Robson XTR2X19013BLSeason00.4PO04287EE31977Y00.2PV 22s00 R2XR2X19023BL00.3S100322XTR2X19912BL00.6Badger R2XR2X19912BL00.7B0074EEE321007BR00.6Badger R2XR2X21007BL00.6S100623XTR2X210010BL00.6EXP006-24SFR2X21007BR00.6EXP006-24SFR2X2904SE00.6EXP006-24SFR2X1957BR00.6EXP006-24SFR2X2989BL00.6EXP006-24SFR2X39922BR00.6CP0053WPXWPX2989BL00.6CP0052WPXR2X39922BR00.7TH800SFR2X39922GR00.7	1.8	ST	-	10
00.6NSC Homewood RR2XR2X01037BL0.03Oslo XFR2XF01017Y0.03TH85003XFR2X0977BR0.04Bourke R2XR2X09436BL0.04Merino R2XR2X19013BL0.05BY Robson XTR2X19013BL0.06BY Robson XTR2X19022BL0.02PV 22002 R2XR2X19022BL0.03S100323TTR2X19012BL0.04PV 16s004 R2XR2X19012BL0.05S100323TTR2X21007BR0.05TH84005XFR2XF21007BL0.06S100623XTR2X210212BL0.05TH84005XFR2XF0967BL0.06EXP006-24XFR2XF0967BL0.05CP00523WPXWPX2989BL0.05CP00523WPXWPX2904HE0.05CP00523WPXR2X39922BR0.05TH82005 R2XR2X39922BR0.05TH82005 R2XR2X39922BR0.05TH82005 R2XR2X39922BR0.07	1.8	ST	-	10
00.3Oslo XFR2XF01017IY00.3TH85003XFR2XF0977BR00.4Bourke R2XR2X09436BL00.4Merino R2XR2X19013BL00.6BY Robson XTR2X19026BL00.4P004287EE31977Y2002D0.2PV 22500 R2XR2X19233BL00.3S100323XTR2X19233BL00.6Badger R2XR2X29710BL00.6Badger R2XR2X29710BL00.5TH84005XFR2X210011BL00.6S100623XTR2X210011BL00.6EXP006-24E3E3-1967BR00.6EXP006-24E3R2X11057IY00.6EXP006-24E3E3-1967BR00.6EXP006-24E3E3-1967BR00.6EXP006-24E3E3-11057IY00.5CP00523WPXWPX2989BL00.7S007-A2XR2X39922GR00.7N500578XR2X39922GR00.7N60050680R2X410310BL00.7	1.8	ST	-	10
Mid- Season         00.3         TH85003XF         R2XF         0         97         7         BR           00.4         Bourke R2X         R2X         0         94         36         BL           00.4         Merino R2X         R2X         1         90         13         BL           00.6         BY Robson NT         R2X         1         90         22         BL           00.2         PV 252002 R2X         R2X         1         90         22         BL           00.3         SI 00323XT         R2X         1         99         12         BL           00.7         B0074EE         E3         2         100         7         BR           00.6         Badger R2X         R2X         2         97         10         BL           00.6         Badger R2X         R2X         2         102         12         BL           00.6         MaRDX         R2X         R2X         1         02         R2         BL           00.6         EXP006-24XF         R2X         2         90         4         BL           00.6         EXP006-24XF         R2X         1         105         7	1.7	Т	-	10
Nide00.4Bourke R2XR2X09436BL00.4Merino R2XR2X19013BL00.6BY Robson XTR2X11026BL00.0PO422802 R2XR2X19022BL00.2PV 25002 R2XR2X19022BL00.3S100323TR2X19233BL00.6Badger R2XR2X19912BL00.6Badger R2XR2X29710BL00.6S100623XTR2X210011BL00.6Mao R2XR2X210011BL00.6EXP006-24E3B.1967BR00.6EXP006-24E3B.11057HY00.6EXP006-24E3R2X11057HY00.6EXP006-24E3B.1967BR00.2PR15019Z-14R2X0964BL00.5CP00523WPXWPX2989BL00.6DR800-80R2X39922GR00.7S007-A2X5R2X39922GR00.7S007-A2X5R2X39922GR00.6DR800-80R2X410310BL00.7NB00-90R2X5934BL00.9<	1.9	ST	-	-
Mid- Season00.4Merino R2XR2X19013BL00.6BY Robson XTR2X11026BL00.4POV4287EE.31977Y2one00.2PV 22:002 R2XR2X19022BL00.4PV 16s004 R2XR2X19912BL00.3S100323XTR2X19912BL00.6Badger R2XR2X29710BL00.5TH84005XFR2XF2867BL00.6S100623XTR2X210212BL00.6S100623XTR2X210212BL00.6KP006-24E3E3-1967BR00.6EXP006-24E3E3-1967BR00.5CP00523WPXWPX2989BL00.5CP00523WPXWPX2989BL00.5CP00523WPXWPX2989BL00.5CP00523WPXWPX2989BL00.5CP00523WPXWPX2989BL00.6DK8006-80R2X39922GR00.7S07-A2XSR2X39922GR00.7NB6007-91KR2X4947BL00.9NK8009-96R2X41026B	2.0	ST	yes	1c,
Mid- Season         00.6         BY Robson XT         R2X         1         102         6         BL           Season         00.4         P004Z87E         E3         1         97         7         Y           00.2         PV 223002 R2X         R2X         1         90         22         BL           00.4         PV 165004 R2X         R2X         1         99         12         BL           00.7         B0074EE         E3         2         100         7         BR           00.6         Badger R2X         R2X         2         97         10         BL           00.6         S100623XT         R2X         2         100         11         BL           00.6         K100624XF         R2X         2         100         11         BL           00.6         EXP006-24E3         E3         -1         96         7         BR           00.6         EXP006-24E3         R2X         1         105         7         IY           00.6         EXP006-24E3         E3         3         104         4         F           00.7         P00523WPX         WPX         2         98         9 </td <td>1.8</td> <td>ST</td> <td>-</td> <td>11</td>	1.8	ST	-	11
Season Zone00.4P004Z87EE31977Y0.0PV 22s002 R2XR2X19022BL0.0.4PV 16s004 R2XR2X19233BL0.0.3SI 00323XTR2X19233BL0.0.7B0074EEE321007BR0.0.6Badger R2XR2X29710BL0.0.6S1 00523TR2X210011BL0.0.6EXP006-24E3E3-1967BR0.0.6EXP006-24F3R2X11057IY0.0.6EXP006-24F3R2X11057IY0.0.6EXP006-24F3R2X11057IY0.0.6EXP006-24F3R2X11057IY0.0.6CP00523WPXWPX2989BL0.0.6CP00523WPXWPX2989BL0.0.7P009294EE331044BF0.0.8P00825EE331044BF0.9P009294EE331074BE0.0.7P007A68EE349812BF0.0.6DKB00-680R2X39922GR0.0.7P07A68EE349812BF0.9Rick R2XR2X51006BL<	1.7	Т	yes	11
Zone00.2PV 22s002 R2XR2X19022BL00.4PV 16s004 R2XR2X19233BL00.3S100323YTR2X19912BL00.7B0074EEB329710BL00.6Badger R2XR2X29710BL00.6S10623YTR2X210212BL00.6Mao R2XR2X210212BL00.6Mao R2XR2X210212BLExperimental lines that are being tested/proposed for registration in CaradaExperimental lines that are being tested/proposed for registration in Carada00.6EXP006-243FR2X11057N00.2PR1500192-14R2X2904BL00.5TH82005 R2XR2X39922GR00.5TH82005 R2XR2X39922GR00.5TH82005 R2XR2X410310BL00.7P007A63ER34849812BF00.8DK8004-04R2X49892GR00.7DK8007-91XFR2XF5934BL00.7DK8007-91XFR2XF5934BL00.9R1co R2XR2X51006BL00.9DK8007-91XFR2XF5934<	2.1	ST	-	10
00.4PV 165004 R2XR2X19233BL00.3SI 00323XTR2X19912BL00.7B0074EEE321007BR00.6Badger R2XR2X29710BL00.6SI 00623XTR2X210212BL00.6Mao R2XR2X210212BL00.6EXP006-24E3E3-1967BR00.6EXP006-24E3R2X11057IY00.6EXP006-24E3R2X11057IY00.5CP00523WPXWPX2989BL00.5CP00523WPXWPX2989BL00.5CP00523WPXR2X31044Y00.9P009294EE331044SF00.5T182005 R2XR2X39922GR00.7P007A68EE349812BF00.6DK8006-80R2X410310BL00.7P007A68EE349812BF00.9RickoryR2X5934BL00.9DK8007-91XFR2XF5924BL00.9DK8007-91XFR2XF5934BL00.9DK8007-91XFR2XF69812BE00.9DK8007-91XF<	2.1	ST	-	10
Image: style intermediate in	2.0	ST	yes	11
Image: biology of the state	1.8	ST	yes	11
00.6Badger R2XR2X29710BL00.5TH84005XFR2XF2867BL00.6S100623XTR2X210212BL00.6Mao R2XR2X210011BLExperimental lines that are being tested/proposed for registration in Canada00.6EXP006-24E3E3-1967BR00.6EXP006-24E3R2X11057IY00.6CP00523WPXWPX2989BL00.2PR1500192-14R2X2904BL00.9P009294EE331074BF00.9P009294EE331074BF00.6DKB006-80R2X39922GR00.7P007A68ER2X39922GR00.6DKB004-04R2X4947BL00.7P007A68ER2X5934BL00.9Rico R2XR2X5934BL00.9DKB009-96R2X51006BL00.7TH81007 R2XNR2X510011BR00.7TH81007 R2XNR2XF69812BL00.7TH81007 R2XNR2XF69812BL00.7TH81007 R2XNR2XF69812BL00.7 <td< td=""><td>2.0</td><td>ST</td><td>-</td><td>10</td></td<>	2.0	ST	-	10
00.5         TH84005XF         R2XF         2         86         7         BL           00.6         SI 00623XT         R2X         2         102         12         BL           00.6         Mao R2X         R2X         2         100         11         BL           Experimental lines that are being tested/proposed for registration in Canada           00.6         EXP006-24E3         E3         -1         96         7         BR           00.6         EXP006-24E3         R2X         1         105         7         IY           00.6         EXP006-24XF         R2XF         0         96         7         BR           00.2         PR23X2350         R2X         1         105         7         IY           00.5         CP00523WPX         WPX         2         98         9         BL           00.2         PR1500192-14         R2X         3         104         4         Y           00.5         TH82005 R2X         R2X         3         99         22         GR           00.7         S007-A2XS         R2X         3         99         22         GR           00.7         P007A68E	1.9	ST	-	10
00.6SI 00623XTR2X210212BL00.6Mao R2XR2X210011BLExperimental lines that are being tested/proposed for registration in Canada00.6EXP006-24E3E3-1967B00.6EXP006-24E3R2X11057IY00.5CP00523WPXWPX2989BL00.2PR1300192-14R2X2904BL00.5CP00523WPXWPX2989BL00.6DR08Z25EE331044Y00.5TH82005 R2XR2X39922GR00.5TH82005 R2XR2X39922GR00.6DKB006-80R2X410310BL00.7P007A68EE349812BF00.9RICOR2XR2X41026B00.7DKB007-91XFR2XF5924BL00.9DKB009-96R2X510011BR00.7TH81007 R2XNR2X510011BR00.7TH81007 R2XNR2XF69812BL00.7TH81007 R2XNR2XF69812BL00.7TH81007 R2XNR2XF69812BL00.7TH81007 R2XNR2XF69812BL <td< td=""><td>1.7</td><td>T</td><td>-</td><td>11</td></td<>	1.7	T	-	11
00.6Mao R2XR2X210011BLExperimental lines: that are being tested/proposed for registration in Canada00.6EXP006-2423E3-1967BR00.6EXP006-243FR2XF0967BR00.0PR23X2350R2X11057IY00.0CP00523WPXWPX2989BL00.2PR1500192-14R2X2904BE00.9P009294EE331074BF00.5TH82005 R2XR2X39922GR00.6DKB006-80R2X39922GR00.7S007-A2XSR2X39922GR00.6DKB006-80R2X410310BL00.7P007A68EE349812BF00.9Rico R2XR2X4947BL00.9Rico R2XR2X51006BL00.9DKB007-91XFR2XF5934BL00.9DKB007-91XFR2XF61024BL00.7PV S007KF55R2XF61024BL00.7PV S007XF55R2XF69812BE00.7TH4007EE371064BL00.7FXP N007E3R2XF69812BL00.7	2.0	ST	yes	10
Experimental lines that are being tested/proposed for registration in Canada00.6EXP006-24E3E3-1967BR00.6EXP006-24XFR2XF0967MR00.2PR23X2350R2X11057IY00.5CP00523WPXWPX2989BL00.2PR150019Z-14R2X2904BL00.3P008Z25EE331044Y00.5TH82005 R2XR2X39922GR00.7S007-A2XSR2X39922GR00.6DK8005-80R2X410310BL00.7P007A68EE349812BF00.6DK8004-04R2X4947BL00.7P007A68EE34934BL00.9Rico R2XR2X5934BL00.9DK8007-91XFR2XF5934BL00.9Triquet R2XR2X51006BL00.7TH81007 R2XNR2XF69812BL00.7TH74007EE371064BL00.7TH74007EE371064BF00.7TH74007EE371064BF00.7TH74007EE371064BF00.7TH74007E<	2.0	ST	-	10
00.6EXP006-24E3E3-1967B00.6EXP006-24XFR2XF0967BR00.2PR23X2350R2X11057IY00.5CP00523WPXWPX2989BL00.2PR150019Z-14R2X2904BL00.3P009Z9EE331044Y00.5TH82005 R2XR2X39922BR00.5TH82005 R2XR2X39922GR00.7S007-A2XSR2X39922BR00.6DKB06-80R2X410310BL00.7P007A68EE349812BF00.4DKB04-04R2X4947BL00.9Rico R2XR2X5934BL00.9DKB007-91XFR2XF5924BL00.9DKB007-91XFR2XF5934BL00.9Triquet R2XR2X51006BL00.7TH81007 R2XNR2XF69812BL00.7S100723XFNR2XF69812BL00.7TH74007EE371064BL00.7EXP N007E3E331084BR00.9PR24XF2450R2XF31084BR	1.7	Т	yes	10
00.6EXP006-24XFR2XF0967BR00.2PR23X2350R2X11057IY00.5CP00523WPXWPX2989BL00.2PR1500192-14R2X2904BL00.3P008225EE331044Y00.9P009294EE331074BF00.5TH82005 R2XR2X39922BR00.7S007-A2XSR2X39922GR00.6DKB06-80R2X410310BL00.7P007A68EE349812BF00.9Rico R2XR2X39922GR00.9Rico R2XR2X410310BL00.9Rico R2XR2X4947BL00.9Rico R2XR2X51006BL00.9Triquet R2XR2X51006BL00.7TH81007 R2XNR2X510011BR00.7SI 00723XFNR2XF69812BL00.7TH74007EE371064BL00.7TH74007EE331084BR00.7FXP N007E3F2XF69812BL00.7TH74007EE331084BR00.7FXP N007E3F3<	1 7	-		11.1
00.2PR23X2350R2X11057IY00.5CP00523WPXWPX2989BL00.2PR150019Z-14R2X2904BL00.8P008Z25EE331044Y00.9P009Z94EE331074BF00.5TH82005 R2XR2X39922BR00.7S007-A2XSR2X39922GR00.6DKB006-80R2X410310BL00.7P007A68EE349812BF00.9Rico R2XR2X41026B00.9Rico R2XR2X5934BL00.9DKB009-96R2X51006BL00.9DKB009-96R2X510011BR00.7TH81007 R2XNR2XF61024BL00.7TH81007 R2XNR2XF69812BL00.7TH7407EE371064BF00.7TH7407EE371064BF00.7TH7407EE331084BR00.7EXP N007E3E331084BR00.7EXP N07E3E331054BR00.9PR24XF2450R2XF31054BR	1.7	T	yes	1k,:
00.5CP00523WPXWPX2989BL00.2PR150019Z-14R2X2904BL00.8P008Z25EE331044Y00.9P009Z94EE331074BF00.5TH82005 R2XR2X39922GR00.6DKB006-80R2X410310BL00.7P007A68EE349812BF00.4DKB004-04R2X4947BL00.9Rico R2XR2X5924BL00.9DKB007-91XFR2XF5924BL00.9DKB009-96R2X51006BL00.7TH81007 R2XNR2XF510011BR00.7PV S007XF55R2XF61024BL00.7TH74007EE371064BE00.7TH74007EE331084BR00.7EXP N007E3E331084BR00.7EXP N007E3E331084BR00.7EXP N007E3E331084BR00.7EXP N007E3E331054BR00.9PR24XF2450R2XF31054BR	1.8	ST	yes	1c,:
00.2PR150019Z-14R2X2904BL00.8P008Z25EE331044Y00.9P009Z94EE331074BF00.5TH82005 R2XR2X39922GR00.7S007-A2XSR2X39922GR00.6DK8006-80R2X410310BL00.7P007A68EE349812BF00.9Rico R2XR2X4947BL00.9Rico R2XR2X5924BL00.9DK8007-91XFR2XF5934BL00.9DK8009-96R2X51006BL00.7TH31007 R2XNR2XF61024BL00.7FV S007XF55R2XF61024BL00.7TH4007EE371064BE00.7TH4007EE371064BE00.7EXP N007E3F331084BR00.7EXP N007E3E331084BR00.7EXP N007E3E331084BR00.9PR24XF2450R2XF31054BR	2.0	ST	-	
00.8         P008Z25E         E3         3         104         4         Y           00.9         P009Z94E         E3         3         107         4         BF           00.5         TH82005 R2X         R2X         3         99         22         BR           00.7         S007-A2XS         R2X         3         99         22         GR           00.6         DK8006-80         R2X         4         103         10         BL           00.7         P007A68E         E3         4         98         12         BF           00.4         DK8004-04         R2X         4         94         7         BL           00.9         Rico R2X         R2X         R2X         4         94         7         BL           00.9         Rico R2X         R2X         5         92         4         BL           00.9         DK8007-91XF         R2XF         5         93         4         BL           00.9         Triquet R2X         R2X         5         100         6         BL           00.7         TH81007 R2XN         R2XF         5         100         11         BR <tr< td=""><td>2.1</td><td>ST</td><td>-</td><td>1k,1</td></tr<>	2.1	ST	-	1k,1
00.9         P009Z94E         E3         3         107         4         BF           00.5         TH82005 R2X         R2X         3         99         22         BR           00.7         S007-A2XS         R2X         3         99         22         GR           00.6         DKB006-80         R2X         4         103         10         BL           00.7         P007A68E         E3         4         98         12         BF           00.4         DKB004-04         R2X         4         94         7         BL           00.9         Rico R2X         R2X         R2X         4         94         7         BL           00.9         Rico R2X         R2X         S         92         4         BL           00.9         DK8007-91XF         R2XF         S         93         4         BL           00.9         DK8009-96         R2X         S         100         6         BL           00.7         TH81007 R2XN         R2XF         5         100         11         BR           00.7         PV S007XF55         R2XF         6         98         12         BL	2.0	ST ST	-	10
00.5         TH82005 R2X         R2X         3         99         22         BR           00.7         S007-A2XS         R2X         3         99         22         GR           00.6         DKB006-80         R2X         4         103         10         BL           00.7         P007A68E         E3         4         98         12         BF           00.4         DKB004-04         R2X         4         94         7         BL           00.9         Rico R2X         R2X         R2         4         02         6         B           00.9         Rico R2X         R2X         R2         4         102         6         BL           00.9         DK8007-91XF         R2XF         5         92         4         BL           00.9         DK8009-96         R2X         5         100         6         BL           00.7         TH81007 R2XN         R2XF         5         100         11         BR           00.7         PV S007XF55         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF	1.9	ST		1k,
00.7         S007-A2XS         R2X         3         99         22         GR           00.6         DKB006-80         R2X         4         103         10         BL           00.7         P007A68E         E3         4         98         12         BF           00.4         DKB004-04         R2X         4         94         7         BL           00.9         Rico R2X         R2X         4         102         6         B           00.9         Rico R2X         R2XF         5         92         4         BL           00.9         DKB007-91XF         R2XF         5         93         4         BL           00.9         DKB007-91XF         R2XF         5         100         6         BL           00.9         Triquet R2X         R2X         5         100         6         BL           00.7         TH81007 R2XN         R2XF         6         102         4         BL           00.7         PV S007XF55         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF	1.9	ST	yes	11
00.6         DKB006-80         R2X         4         103         10         BL           00.7         P007A68E         E3         4         98         12         BF           00.4         DKB004-04         R2X         4         94         7         BL           00.9         Rico R2X         R2X         4         102         6         B           00.9         Rico R2X         R2XF         5         92         4         BL           00.9         DKB007-91XF         R2XF         5         93         4         BL           00.9         DKB009-96         R2X         5         100         6         BL           00.9         Triquet R2X         R2XF         5         100         11         BR           00.7         TH81007 R2XN         R2XF         6         102         4         BL           00.7         PV S007XF55         R2XF         6         98         12         BL           00.7         TH4007E         E3         7         106         4         BF           00.7         TH74007E         E3         7         106         4         BR           00.7	1.9	ST	-	-
00.7         P007A68E         E3         4         98         12         BF           00.4         DKB004-04         R2X         4         94         7         BL           00.9         Rico R2X         R2X         4         102         6         B           00.9         Rico R2X         R2XF         5         92         4         BL           00.9         DKB007-91XF         R2XF         5         93         4         BL           00.9         DKB009-96         R2X         5         93         4         BL           00.9         Triquet R2X         R2XF         5         100         6         BL           00.7         TH81007 R2XN         R2XF         5         100         11         BR           00.7         PV S007XF55         R2XF         6         102         4         BL           00.7         FV S007XF55         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF           00.7         EXP N007E3         E3         3         108         4         BR	1.8	T	_ yes	- 10
00.4         DKB004-04         R2X         4         94         7         BL           00.9         Rico R2X         R2X         4         102         6         B           00.9         Rico R2X         R2XF         5         92         4         BL           00.9         DKB007-91XF         R2XF         5         93         4         BL           00.9         DKB009-96         R2X         5         93         4         BL           00.9         Triquet R2X         R2X         5         100         6         BL           00.7         TH81007 R2XN         R2XF         5         100         11         BR           00.7         PV S007XF55         R2XF         6         102         4         BL           00.7         SI 00723XFN         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF           00.7         EXP N007E3         E3         3         108         4         BR           00.9         PR24XF2450         R2XF         3         105         4         BR	1.9	ST		10
O0.9         Rico R2X         R2X         4         102         6         B           Long- Season         O0.7         DKB007-91XF         R2XF         5         92         4         BL           00.9         DKB007-91XF         R2XF         5         93         4         BL           00.9         DKB009-96         R2X         5         93         4         BL           00.9         Triquet R2X         R2X         5         100         6         BL           00.7         TH81007 R2XN         R2XF         6         102         4         BL           00.7         PV S007XF55         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF           00.7         TH74007E         E3         3         108         4         BR           00.7         EXP N007E3         E3         3         108         4         BR           00.9         PR24XF2450         R2XF         3         105         4         BR	1.9	T	yes	10
Long- Season         00.7         DKB007-91XF         R2XF         5         92         4         BL           0.0.9         DKB009-96         R2X         5         93         4         BL           0.0.9         Triquet R2X         R2X         5         100         6         BL           0.0.7         TH81007 R2XN         R2X         5         100         11         BR           0.0.7         PV S007XF55         R2XF         6         102         4         BL           0.0.7         SI 00723XFN         R2XF         6         98         12         BL           0.0.7         TH74007E         E3         7         106         4         BF           0.0.7         TH74007E         E3         3         108         4         BR           0.0.7         EXP N007E3         E3         3         108         4         BR           0.0.9         PR24XF2450         R2XF         3         105         4         BR	2.3	S	yes	10
Season         00.9         DKB009-96         R2X         5         93         4         BL           Zone         00.9         Triquet R2X         R2X         5         100         6         BL           00.7         TH81007 R2XN         R2X         5         100         11         BR           00.7         PV S007XF55         R2XF         6         102         4         BL           00.7         SI 00723XFN         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF           00.7         EXP N007E3         E3         3         108         4         BR           00.7         EXP N007E3         E3         3         105         4         BR	1.9	ST	- _	10
Zone         00.9         Triquet R2X         R2X         5         100         6         BL           00.7         TH81007 R2XN         R2X         5         100         11         BR           00.7         PV S007XF55         R2XF         6         102         4         BL           00.7         SI 00723XFN         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF           Experimental lines that are being tested/proposed for registration in Canada           00.7         EXP N007E3         E3         3         108         4         BR           00.9         PR24XF2450         R2XF         3         105         4         BR	1.9	ST	yes	10
00.7       TH81007 R2XN       R2X       5       100       11       BR         00.7       PV S007XF55       R2XF       6       102       4       BL         00.7       SI 00723XFN       R2XF       6       98       12       BL         00.7       TH74007E       E3       7       106       4       BF         Experimental lines that are being tested/proposed for registration in Canada         00.7       EXP N007E3       E3       3       108       4       BR         00.9       PR24XF2450       R2XF       3       105       4       BR	1.7	T	yes	11
00.7         PV S007XF55         R2XF         6         102         4         BL           00.7         SI 00723XFN         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF           Experimental lines that are being tested/proposed for registration in Canada           00.7         EXP N007E3         E3         3         108         4         BR           00.9         PR24XF2450         R2XF         3         105         4         BR	1.7	T	yes	10
00.7         SI 00723XFN         R2XF         6         98         12         BL           00.7         TH74007E         E3         7         106         4         BF           Experimental lines that are being tested/proposed for registration in Canada           00.7         EXP N007E3         E3         3         108         4         BR           00.9         PR24XF2450         R2XF         3         105         4         BR	1.8	ST	yes	-
00.7         TH74007E         E3         7         106         4         BF           Experimental lines that are being tested/proposed for registration in Canada           00.7         EXP N007E3         E3         3         108         4         BR           00.9         PR24XF2450         R2XF         3         105         4         BR	1.7	Т	yes	10
Experimental lines that are being tested/proposed for registration in Canada00.7EXP N007E3E331084BR00.9PR24XF2450R2XF31054BR	1.9	ST	yes	3a
00.7         EXP N007E3         E3         3         108         4         BR           00.9         PR24XF2450         R2XF         3         105         4         BR			, 25	50
00.9 PR24XF2450 R2XF 3 105 4 BR	2.1	ST	-	1k,3
	1.8	ST	-	-
	1.9	ST	yes	-
IECK CHARACTERISTICS			,	
00.6 <b>P006A37X</b> 118 52 39				

† 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

Manitoba Maturity Zone /ery Early- Season Zone Early- Season Zone	Variety PV 50009X84 S003-R5X B0024EE BY Hector XT P002A42E BY Meru E3* NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X <b>Experimental lines that</b> CP00123WPX B0044EE BY Deno XT	Average DTM +/- Check <sup>†</sup> -6 -5 -5 -4 -3 -3 -3 -3 -2 -2 -2 -2 are being tested/ -2	Arborg 96 112 92 86 96 88 96 88 96 88 97 97 94 89	Early Sites <sup>‡</sup> Beausejour 104 97 89 79 87 98 98 92 86 99	Stonewall           96           104           98           89           92           96           106	Carman 100 85 95 77 100 100	Core : Morris 92 103 92 84 90	Portage 91 98 93 87	St. Adolph 97 99 90 89
Zone /ery Early- Season Zone Early- Season	PV S0009X84 S003-R5X B0024EE BY Hector XT P002A42E BY Meru E3* NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X <b>Experimental lines that</b> CP00123WPX B0044EE	+/- Check <sup>†</sup> -6 -5 -5 -4 -3 -3 -3 -2 -2 -2 -2 are being tested/	96 112 92 86 96 88 96 88 96 88 97 94	104 97 89 79 87 98 92 86	96 104 98 89 92 96 106	100 85 95 77 100	92 103 92 84 90	91 98 93 87	97 99 90
Season Zone Early- Season	S003-R5X B0024EE BY Hector XT P002A42E BY Meru E3* NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-5 -5 -4 -3 -3 -3 -2 -2 -2 -2 are being tested/	112 92 86 96 88 96 88 97 94	97 89 79 87 98 92 86	104 98 89 92 96 106	85 95 77 100	103 92 84 90	98 93 87	99 90
Season Zone Early- Season	B0024EE BY Hector XT P002A42E BY Meru E3* NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-5 -4 -3 -3 -3 -2 -2 -2 -2 -2 are being tested/	92 86 96 88 96 88 97 97 94	89 79 87 98 92 86	98 89 92 96 106	95 77 100	92 84 90	93 87	90
Zone Early- Season	BY Hector XT P002A42E BY Meru E3* NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-4 -3 -3 -2 -2 -2 -2 are being tested/	86 96 88 96 88 97 97 94	79 87 98 92 86	89 92 96 106	77 100	84 90	87	
Early- Season	P002A42E BY Meru E3* NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X <b>Experimental lines that</b> CP00123WPX B0044EE	-3 -3 -2 -2 -2 -2 are being tested/	96 88 96 88 97 94	87 98 92 86	92 96 106	100	90		89
Season	BY Meru E3* NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-3 -3 -2 -2 -2 -2 are being tested/	88 96 88 97 94	98 92 86	96 106				
Season	NS EXP004ME3 TH84002X Hart R2X Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-3 -2 -2 -2 -2 are being tested/	96 88 97 94	92 86	106	100		105	89
Season	TH84002X Hart R2X Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-2 -2 -2 -2 are being tested/	88 97 94	86			107	101	97
Season	Hart R2X Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-2 -2 -2 are being tested/	97 94			116	100	103	103
	Alouette R2X Young R2X Experimental lines that CP00123WPX B0044EE	-2 -2 are being tested/	94	99	94	99	93	82	92
Zone	Young R2X Experimental lines that CP00123WPX B0044EE	-2 are being tested/			107	99	93	107	105
	Experimental lines that CP00123WPX B0044EE	are being tested/	89	89	93	85	87	97	89
	CP00123WPX B0044EE			104	102	95	101	102	94
	B0044EE	-2	proposed for	registration in Ca	nada				
			90	90	103	101	89	104	104
	BY Deno XT	-1	109	89	101	91	97	103	101
		-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	102	102	100	102	104
	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
Mid-	BY Robson XT	1	-	-	-	96	102	102	103
Season	P004Z87E	1	98	101	97	103	85	97	89
Zone	PV 22s002 R2X	1	90	83	90	83	93	91	96
20110	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/		registration in Ca					
	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
	CP00523WPX	2	105	97	98	88	97	98	101
	PR150019Z-14	2	_	-	-	88	93	85	91
	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
Long-	DKB007-91XF	5	-	-	-	91	99	97	88
Season	DKB009-96	5	-	-	-	76	111	97	97
Zone	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	105
	TH74007E	7	-	_	-	106	103	112	104
	Experimental lines that			registration in Ca		100	105	112	105
	EXP N007E3	-	proposed for	registration in Ca	naua	110	106	106	107
		3	-	-	_	110	106	106	107
	PR24XF2450	3	-	-	-	105	108	108	101
	C4M24517 XT	5	-	-		102	94	99	111
ECK CHARAC	TERISTICS								
	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			7
							11	10	
		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

† Maturity ratings were averaged across the Carman, Morris, Portage and St. Adolphe core sites over multiple years.  $\ddagger$  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	Company		Average	Long-Term	Site-	10	C	Resis	tance			2024 Yie	ld % Check		
Maturity Zone	Maturity	Variaty	DTM +/- Check <sup>†</sup>	Yield %	Years Tested	Rating	Group	SCN	PRR	Daunhir	Hamiota	Holland	Melita	Souris	Swan Riv
Zone	Group	Variety				(1–5)	Group								
	000.7	S0007-S1X	-5 -4	85 93	16	2.4	S	-	1c,3a	91	88	73	83	83	83
Very Early- Season	000.5	BY Nebo XT al lines that are being to			6 oristratio	2.0	ST	-	1c	92	99	96	91	90	92
Zone	000.7	PR181000-04	-3	87	5	2.0	ST	_	_	93	88	88	90	80	_
Lone	000.7	PR180907-05	-3	94	5	2.0	ST	-	1c	94	98	102	92	88	_
	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	Т	-	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
Early-	00.7	Gecko R2X	0	97	10	2.0	ST	-	1c	87	102	95	92	94	90
Season	00.4	B0044EE	1	100	6	2.0	ST	yes	1c	103	98	111	94	102	96
Zone	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	Т	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 al lines that are being t		102 acad for r	10 ogistratio	1.8 n in Can	ST	yes	1c	101	96	99	82	100	95
	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	-
	00.5	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	10
	00.6	EXP006-24XF	3	95	5	1.8	ST	yes	1c,3a	97	96	101	92	92	-
	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	Т	yes	1k	100	102	104	86	96	_
	00.4	P004Z87E	4	97	6	2.1	ST	_	1c	97	98	106	86	96	10
	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	10
	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
Mid-	00.7	B0074EE	4	103	6	1.9	ST	-	1c	106	106	104	107	100	99
Season	00.6	Badger R2X	5	105	9	1.7	Т	-	1k	105	115	103	101	98	98
Zone	00.4	DKB004-04	5	99	5	1.7	Т	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	Т	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	-
		al lines that are being t			-										
	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	-
HECK CHAR	ACTERISTICS										-				
	00.3	S003-R5X	119	67	22					79	70	41	59	88	73
			DTM	bu/ac	site-years				0101	4.0	2.2		u/ac	4.5	
									CV %	4.0	3.2	5.9	5.7	4.6	5.3
									LSD %	6	5	10	10	7	8
									gn. Diff. I <b>g Date</b>	yes May 29	yes May 21	yes May 22	yes May 16	yes May 17	ye May

+ 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	Company		Average	Long-Term			IC	C
Maturity Zone	Maturity Group	Variety	DTM +/- Check <sup>†</sup>	Yield % Check	Site-Years Tested	Hilum Colour	Rating (1—5)	Group
Very Early-	000.9	AAC Halli*	-8	91	27	Y	1.9	ST
Season Zone	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-	Experimenta	l lines that are being test	ed/proposed for regi	stration in Canada				
Season Zone	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
	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
Mid-	00.7	Jago	4	103	20	Y	2.3	S
Season Zone	00.6	Nala*	4	97	5	Y	2.0	ST
	Experimenta	l lines that are being test	ed/proposed for regi	stration in Canada				
	00.5	OT20-06	2	107	9	Y	2.3	S
	00.4	OT24-05	2	104	7	IY	1.9	ST
	00.8	PR182740-19	2	107	4	Y	2.0	ST
	00.9	Hana	6	99	9	Y	2.1	ST
Long-	00	Stanley	6	102	15	IY	2.1	ST
Season Zone	Experimenta	l lines that are being test	ed/proposed for regi	stration in Canada				
	00.5	PR182804-02	8	122	3	IY	2.0	ST
HECK CHARA	CTERISTICS							
	00.3	Liska*	119	52	27			
			DTM	bu/ac	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

		-	2024 Yield % Check								
Manitoba		Average		Early Sites <sup>‡</sup>			Core	Sites			
Maturity Zone	Variety	DTM +/- Check <sup>†</sup>	Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe		
Very Early-	AAC Halli*	-8	94	93	99	103	90	93	97		
Season Zone	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-	Experimental line	s that are being te	sted/proposed	for registration in	Canada						
Season Zone	OT22-04	-3	92	105	102	110	96	105	102		
20110	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		

		_				2024 Yield % Check			
Manitoba Maturity		Average DTM —		Early Sites <sup>‡</sup>			Core	Sites	
Zone	Variety	+/- Check <sup>+</sup>	Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe
	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
Mid- Season	Jago	4	-	_	-	110	112	97	100
Zone	Nala*	4	_	-	-	102	103	89	109
	Experimental lin	es that are being tes	ted/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
	Hana	6	-	_	-	112	106	96	100
Long-	Stanley	6	-	_	_	120	102	104	99
Season Zone	Experimental lin	es that are being tes	ted/proposed	for registration in	Canada				
Zone	PR182804-02	8	-	-	-	142	114	110	_
CHECK CHAP	RACTERISTICS								
	Liska*	119	75	54	49	44	42	49	57
		DTM				bu/ac			
		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	Sep28

† 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.

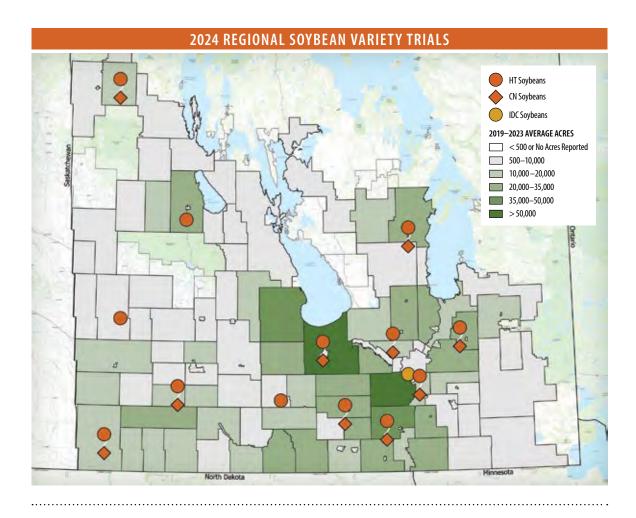
\* 🚯 Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991.

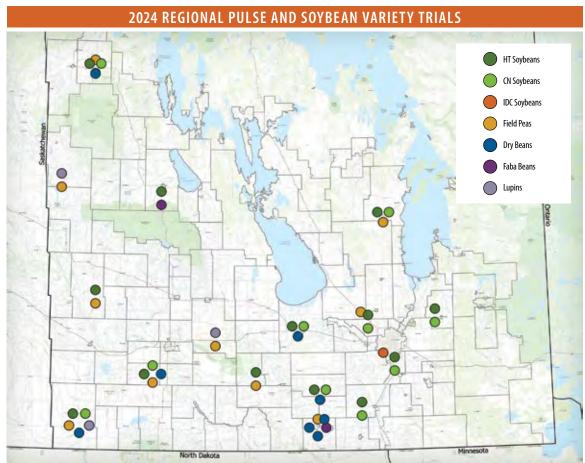
## CONVENTIONAL SOYBEANS • YIELDS BY LOCATION • WESTERN MANITOBA

Manitoba	Company		Average	Long-Term				IDC	2024 Yiel	d % Check
Maturity Zone	Maturity Group	Variety	DTM +/- Check <sup>†</sup>	Yield % Check	Site-Years Tested	Hilum Colour	Rating (1—5)	Group	Melita	Souris
Very Early- Season Zone	00.2	Ambella	-12	86	10	BR	2.0	ST	83	73
Early-Season	000.9	AAC Halli*	-5	96	14	Y	1.9	ST	108	90
Zone	00.2	Siberia	-3	96	12	IY	1.9	ST	98	96
	00.4	Abaca*	0	106	4	IY	1.9	ST	111	114
Mid-	00.3	Liska*	0	100	10	IY	2.3	S	100	100
Season	00.4	Rosser	0	99	6	IY	1.9	ST	105	98
Zone	Experiment	al lines that are being	tested/proposed fo	or registration	in Canada					
	00.5	CDC Cedar	-4	99	2	IY	2.1	ST	110	95
CHECK CHAR	CTERISTICS									
		Liska*	120	45	10			_	50	81
			DTM	bu/ac	site-years				bu	/ac
								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.





**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	<b>DESCRIF</b>	PTIONS				
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 register	red in the US or bei	ing tested or propos	ed for registrat	tion in Canad	a					
ND Polar	3	108	4	198	2	64	90	-	-	-
CHECK CHARACTERISTIC T9905*	<b>S</b> 103 DTM	2416 Ibs/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 register	red in the US or bei	ing tested or propos	ed for registrat	tion in Canad	a					
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 CHARACTERISTIC Eclipse**	<b>S</b> 99	2458	56							
	DTM	lbs/ac	site-years							

DRY BEANS + VARIETY DE	SCRIPTIONS continued									
	Average DTM	Long-Term Yield %	Site- Years	TSW (g/1000	Lodging	Plant Height	Pod Height	CBB Severity	CBB Incidence	WM Incidence
Market Class/Variety	+/- Check	Check	Tested	seeds)	(1–5)	(cm)	(% > 5 cm)	(0–5)	(%)	(%)
PINTO	+/- Vibrant	% Vibrant	47	250	2	60		2		•
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 regist	ered in the US or bei	ng tested or propos	ed for registrat	ion in Canad	a					
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		557	_	50	22	-		
CDC Sunburst		65	7	376	2	49	94	2	14	0
Varieties that are regist						U.	77	2	17	Ū
Claim Jumper	9	76	11	369	3	49	85	2	14	0
		70		309	J	49		2	14	0
Vibrant	98	2754	28							
	DTM	lbs/ac	site-years							
GREAT NORTHERN	+/- Pink Panther	% Pink Panther								
Virgo	2	148	11	426	3	65	83	2	15	0
Varieties that are regist	ered in the US or bei	ing tested or propos	ed for registrat	ion in Canad	a					
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 regist								_		-
161156	-2	79	7	450	2	59	85	3	25	0
181021	2	91	7	496	2	58	83	2	11	0
			,	770	۷	50	35	2		U
LIGHT RED KIDNEY Red Dawn	+/- Pink Panther -6	% Pink Panther 97	13	515	2	52	90	3	19	0
	-0 -3	97								0
Big Red			31	537	2	56	86	2	22	
Clouseau Diala De acta ar	-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			c	<i>i</i> -		c.	<i>4</i> -	_
OAC Snowshoe	0	128	4	498	2	63	88	2	15	0
Yeti	9	101	4	459	2	55	92	2	17	0
CHECK CHARACTERIST Pink Panther	101	1950	64							
	DTM	lbs/ac	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 CHARACTERIST		1004	20							
Krimson	99 DTM	1804 lbs/ac	29 site-vears							
		ius/dC	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

	Average		2024 Yield	% Check	
Market Class/ Variety	DTM	Carman	Morden	Portage	Winkler
· · · · · · · · · · · · · · · · · · ·	• • • •	cumun		5	
NAVY Valiant	+/- T9905 -4	111	% T9 82	905 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	107	120	112	104
AAC Shock	0	93	101	81	85
DAC Charm	0		106	105	108
		111			
[9905* 	0	100	100	100	100
iteam*	1	125	125	117	112
DAC Seal*	2	123	102	92	100
AC Argosy	3	108	107	92	97
iberty	3	124	103	103	90
-	the US or being tested or prop	-			
ID Polar	3	108	116	96	117
HECK CHARACTERISTICS					
9905*	103	2525	2232	2601	1873
	DTM		lbs/	/ac	
	CV %	8.2	9.5	9.1	10.3
	LSD %	15	16	14	16
	Sign. Diff.	yes	yes	yes	yes
	<u> </u>		· · · · · · · · · · · · · · · · · · ·	•	
	Seeding Date	May 28	May 23	May 31	May 28
	Harvest Date	Oct 3	Sep 25	Oct 4	Oct 3
BLACK	+/- Eclipse	50	% Ecl		
DC Blackstrap*	-6	50	65	75	75
DC Turtle Mountain*	-4	73	86	99	97
DC Superjet	-3	82	70	89	75
clipse**	0	100	100	100	100
Jmbra*	1	102	100	132	115
Black Tails	3	107	102	116	102
/arieties that are registered in	the US or being tested or prop	oosed for registration ir	n Canada		
33033350	-1	85	82	105	95
33036381	3	90	64	116	107
HECK CHARACTERISTICS					
clipse**	99	2960	2594	2287	1794
	DTM		lbs/		
	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 Vi	brant	
Cowboy*	-1	74	93	97	119
Vindbreaker	0	64	84	72	88
/ibrant	0	100	100	100	100
Gleam	1	70	108	86	127
Bronco	2	78	95	81	88
DAC Sienna	2	85	104	87	100
Aystic	4	90	111	89	111
iternal*	9	104	113	84	115
	the US or being tested or prop				
Rustler	-2	84	98	90	87
Charro	5	96	105	89	107
	+/- Vibrant	90	105 % Vib		107
MAYOCOBA (YELLOW) /arieties that are registered in	+/- VIDrant the US or being tested or prop	osed for registration in		nant	
-		-		00	01
Claim Jumper	9	77	36	80	84
HECK CHARACTERISTICS		2000			
/ibrant	98	2882	2372	2935	1648
	DTM		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 F		
/irgo	2 161 – 177 – ties that are registered in the US or being tested or proposed for registration in Canada				
		-	n Canada		
liger	1	141	-	211	-

	Average DTM	2024 Yield % Check							
Market Class/ Variety	+/- Check	Carman	Morden	Portage	Winkler				
DARK RED KIDNEY	+/- Pink Panther		% Pink	Panther					
Rampart	4	109	-	124	-				
Dynasty	5	129	-	133	-				
Gallantry	5	137	-	161	-				
/arieties that are registered	d in the US or being tested or prop	oosed 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					
DAC Snowshoe	0	117	_	144	-				
CHECK CHARACTERISTICS									
Pink Panther	101	1839	_	1492	-				
	DTM		lb	s/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		% Kr	rimson					
DAC Navabi	-2	152	_	98	-				
Krimson	0	100	-	100	_				
OAC Firestripe	3	160	-	134	-				
CHECK CHARACTERISTICS									
Krimson	99	1324	-	1749	-				
	DTM		lb	s/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	_				

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 • NARROW ROW

	Average	Long-Term		2024 Yield % Check					
Market Class/ Variety	DTM +/- Check	Yield % Check	Site-Years — Tested	Portage	Souris	Melita	Morden		
,			lesteu	Tortage			Morach		
NAVY Blast*	+/- CDC Blackstrap	% CDC Blackstrap 119	4	129	% CDC B 122	ackstrap 103	131		
	4		4				131		
Steam* Indi	4	120 88	4	145 120	116 84	108 91	65		
AAC Shock	5	88		120	79	70	94		
OAC Seal*	-		22						
OAC Seal" OAC Charm	7 8	103 106	6	113 125	109 117	96 96	134 131		
		94	17	125	117	84	131		
AAC Argosy T9905*	9	94	24						
Varieties that are registe	9 Yead in the US or being			117	114	98	130		
ND Polar	ered in the US or being 9	93	4 arregistration in Canad	136	87	77	89		
BLACK			4	130	-		09		
CDC Blackstrap*	+/- CDC Blackstrap <b>0</b>	% CDC Blackstrap <b>100</b>	35	100	% CDC B	ackstrap <b>100</b>	100		
CDC Turtle Mountain*	1	108	4	126	108	92	118		
Eclipse**	3	108	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 registe	•				155	100	112		
B3033350	6	102	9	124	115	104	111		
B3036381	8	95	9	131	114	93	109		
CHECK CHARACTERISTIC									
CDC Blackstrap*	96	2663	35	2057	3344	3537	1808		
	DTM	lbs/ac	site-years			/ac			
	2	100, 42	CV %	11.2	6.5	8.0	11.9		
			LSD %	22	12	12	22		
			Sign. Diff.	Ves	Ves	yes	yes		
			Seeding Date	May 31	May 19	May 21	May 23		
			-		,				
			Harvest Date	Oct 4	Oct 3	Sep 24	Sep 25		

DRY BEANS + YIELDS BY LO	DCATION + NARROW ROW	continued							
	Average DTM	A Yield	Site-Years —	2024 Yield % Check					
Market Class/ Variety	+/- Check		Tested	Portage	Souris	Melita	Morden		
PINTO	+/- Windbreaker	% Windbreaker			% Wind	breaker			
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 registe	ered in the US or being	tested or proposed fo	r registration in Canad	la					
Bronco	3	89	9	97	80	86	90		
Charro	7	104	9	121	93	92	109		
CHECK CHARACTERISTI	cs								
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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\*\* 🛞 Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

## Key for Faba Bean Variety Table

Tannin vs. Zero-Tannin Varieties – Tannin varieties with coloured flowers and tan-coloured seed coats 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

	1	A	Long-Term	City Marca	TCW/	2024 Yield % Check		
Market Class/ Variety	Low Vicine/ Convicine	Average DTM <sup>†</sup>	Yield % Check	Site-Years Tested	TSW — (g/1000 seeds)	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 bei	ng tested/proposed fo	r registration in Ca	nada					
Hammer	yes	100	106	2	444	106	106	
CHECK CHARACTERISTICS								
Fabelle*		111	5272	10		6792	3952	
		DTM	lbs/ac	site-years		lb	s/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		lb	s/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.

\* 🕘 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 Field Pea Variety Tables

FIELD PEAS 

VARIETY DESCRIPTIONS

 $\label{eq:relative_state} \begin{array}{ll} \mbox{Relative Vine Length} - S = short & M = medium & L = long \\ \mbox{VL} = very \mbox{ long} \end{array}$ 

Green Seed Coats – G = 0-10% green seed coats F = 11-25% green seed coats

 **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

					AS 🔹		I DESCI		13				
							Resistance						
Market Class/Variety	Maturity Rating⁺	Long-Term Yield % Check	Site- Years Tested	Relative Vine Length	TSW (g/1000 seeds)	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	М	250	G	F	F	n/a	VG	VG	F	I
AAC Beyond*	Mid	97	31	М	210	n/a	F	n/a	n/a	G	VG	F	MR
AAC Carver*	Early	100	61	L	240	G	G	G	n/a	G	VG	F	Т
AAC Chrome*	Long	105	40	М	240	G	G	G	n/a	G	VG	F	I
AAC Delhi*	Mid	100	28	М	290	G	F	F	n/a	G	VG	F	I
AAC Harrison*	Mid	95	9	L	223	-	G	-	n/a	VG	VG	F	-
AAC Julius*	Mid	97	23	М	210	n/a	G	n/a	n/a	G	VG	F	MR
AAC Lacombe**	Long	98	42	L	270	F	F	G	n/a	G	VG	F	I
AAC McMurphy*	Long	97	17	L	270	G	G	G	n/a	VG	VG	F	MR
AAC Planet*	Long	99	23	L	231	G	F	G	n/a	G	VG	F	MR
AAC Profit**	Mid	99	27	М	230	G	F	G	n/a	G	VG	F	I
Boost*	Early	97	23	М	230	G	VG	G	n/a	G	VG	F	MR
Caphorn*	Long	94	23	М	260	G	G	G	n/a	G	VG	F	MR
CDC 5791-9 <sup>VUA</sup>	Long	97	17	L	246	G	VG	G	n/a	G	VG	F	MR
CDC 5845-2 <sup>VUA</sup>	Long	99	17	L	236	n/a	G	n/a	n/a	VG	VG	F	MR
CDC Amarillo	Long	98	50	М	230	G	F	F	n/a	VG	VG	F	MR
CDC Citrine*	Mid	102	23	L	230	G	G	G	n/a	G	VG	F	MR
CDC Boundless*	Mid	97	9	L	230	G	G	G	n/a	VG	VG	F	MR
CDC Engage*	Long	99	9	М	233	G	G	G	n/a	VG	VG	F	I
CDC Hickie*	Mid	98	23	М	230	G	G	G	n/a	VG	VG	F	MR
CDC Inca*	Mid	102	48	L	230	F	G	G	n/a	G	VG	F	I
CDC Lewochko*	Long	100	42	L	230	G	G	G	n/a	VG	VG	F	I
CDC Spectrum*	Long	93	42	L	240	G	G	G	n/a	VG	VG	F	Ι
CDC Tollefson*	Long	104	23	L	240	G	G	G	n/a	VG	VG	F	MR
ProStar* <sup>VUA</sup>	Early	97	23	М	240	G	VG	G	n/a	G	VG	F	MR
Experimental lines that						-		-		-			
6020-11	Mid	94	9	L	226	n/a	G	n/a	n/a	G	VG	F	MR
6242-1	Long	101	9	L	236	n/a	VG	n/a	n/a	G	VG	F	MR
GREEN													
CDC Forest*	Long	99	34	L	230	n/a	G	G	G	G	VG	F	I
CDC Limerick	Long	94	43	M	210	n/a	VG	G	G	VG	VG	F	I
CDC Rider*	Long	94	32	M	220	n/a	G	G	G	VG	VG	F	MR
CDC Huskie*	Long	99	17	M	220	n/a	G	G	G	G	VG	F	MR
CDC Spruce*	Long	96	19	L	240	n/a	F	F	G	G	VG	F	1
MAPLE	3			_			-		-	-			
AAC Lorlie	Long	84	14	М	226	n/a	G	n/a	n/a	G	VG	F	n/a
CHECK CHARACTERIST					-20	/0	5	/0		5			, u
AAC Carver*	88	77	61										
	DTM	bu/ac	site-years										
	LS	D% 4											

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

 \* Indicates a variety that is protected by 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.

 \* Find more information at seeds-canada.ca/variety-use-agreement.
 \*\*\* Indicates that variety use agreement.

### 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 <sup>VUA</sup>	106	84	104	70	101	96	98	92	84	
CDC 5845-2 <sup>VUA</sup>	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 <sup>*VUA</sup>	108	76	96	104	98	98	106	92	87	
Experimental lines that are being te	sted/proposed	d for registration	n 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	
	5			<u> </u>			•			

\* 😧 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 V<sup>III</sup> 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 indeterminant growth habits, while narrow-leaved blue lupins exhibit determinant 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 <sup>†</sup>	Long-Term Yield % Check	Site-Years Tested	TSW (g/1000 seeds)	Average Height (cm)	Average Lodging Score (1—9)	2023 Yield (bu/ac) Melita	2024 Yield (bu/ac) 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
						hite 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.