

2021 PULSE AND SOYBEAN VARIETY GUIDE



This publication features the results from MPSG-sponsored trials.

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The independent evaluation of soybean, dry bean, field pea and faba bean varieties found within this publication were made possible by your continued support through the Manitoba Pulse & Soybean Growers (MPSG) check-off. The objective of these trials is to provide the Manitoba pulse and soybean industry with independent, scientific information on variety performance and agronomic characteristics.

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

SOYBEANS

Herbicide tolerant soybean varieties were evaluated at 13 locations in 2021, 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, Morris, Portage la Prairie and St. Adolphe. In western Manitoba, varieties were tested at Dauphin, Hamiota, Holland, Melita, Souris and Swan River.

Herbicide tolerant first-year entry trials were also carried out at six of the 13 sites, including Carman, Hamiota, Melita, Morris, Souris and St. Adolphe.

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

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

DRY BEANS

Variety evaluations were conducted under wide- (>24 inches) and narrow-row (<12 inches) trials, and are reported separately in this guide.

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

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

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

LENTILS

No lentil trials were conducted in Manitoba due to seed supply issues in 2021.

FIELD PEAS

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

FABA BEANS

Regional faba bean trials were conducted for the first time in Manitoba at Dauphin and Morden. Varieties are reported by tannin and zero-tannin types.

USING THIS GUIDE

There are two types of data tables found in this guide – *Variety Descriptions* and *Yields by Location*. Variety description tables summarize long-term data, including maturity, yield and agronomic characteristics (e.g., disease resistance, lodging score). Yields by location tables summarize yield data from the current year at each location.

All variety trials were randomized with three replicates to allow for statistical analysis.

Statistical yield differences can be evaluated using only 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 ARD, AAFC, WADO, PCDF, PESAI, CMCDC 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

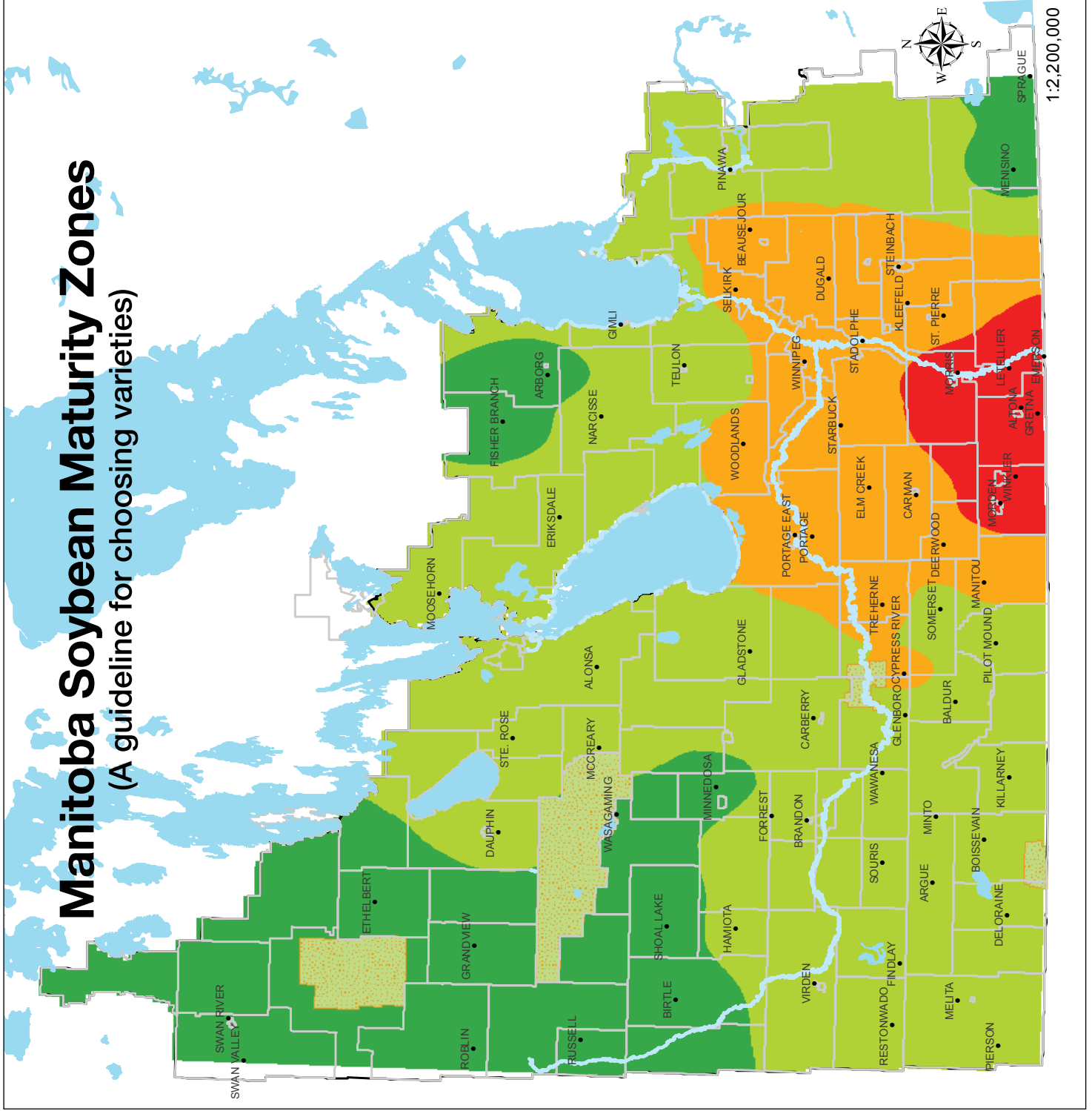
Maturity Zones

-  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.

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

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

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

IDC Ratings

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

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

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

Source: Agvise Laboratories

IDC Groups

T = tolerant ST = semi-tolerant S = susceptible

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

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

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

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

S = susceptible R = resistant

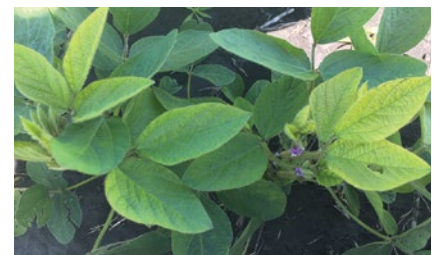
Source: Debra McLaren, AAFC



IDC Rating 1



IDC Rating 1.7



IDC Rating 2.1



IDC Rating 2.5



IDC Rating 3.5



IDC Rating 4.0

HERBICIDE TOLERANT SOYBEANS ♦ VARIETY DESCRIPTIONS ♦ EASTERN MANITOBA

| Manitoba Maturity Zone | Company Maturity Group | Variety | Type | Average DTM +/- Check† | Yield % Check | Site-Years Tested | Hilum Colour | IDC | | Resistance | |
|---|---|--------------------|---------|------------------------|---------------|-------------------|--------------|--------------|-------|------------|--------|
| | | | | | | | | Rating (1-5) | Group | SCN | PRR |
| Very Early-Season Zone | 000.8 | NSC Dauphin RR2X | R2X | -15 | 80 | 6 | IY | 2.1 | ST | - | 1c |
| | 000.5 | BY Rundle XT | R2X | -15 | 74 | 6 | BR | 1.9 | ST | yes | 1c, 3a |
| | 000.7 | Fresco R2X | R2X | -13 | 75 | 12 | BL | 2.0 | ST | - | - |
| | 00.1 | S001-D8X | R2X | -9 | 88 | 12 | IY | 1.9 | ST | - | 1c |
| | 00.3 | SI 00319XT | R2X | -8 | 87 | 6 | IY | 2.0 | ST | - | 1c |
| | 00.3 | P003A97X | R2X | -8 | 96 | 11 | GR | 1.8 | ST | yes | 1k |
| | 000.9 | SI 000919XT | R2X | -7 | 88 | 12 | BL | 1.7 | T | - | - |
| | 00.1 | P001A48X | R2X | -7 | 92 | 17 | TN | 1.8 | ST | - | 1c |
| | 00.3 | 003-R5X | R2X | -6 | 99 | 6 | IY | 1.9 | ST | - | 1c |
| | 00.2 | Komodo R2 | R2Y | -6 | 102 | 11 | BL | 2.2 | ST | yes | 1c |
| | 00.5 | P005A83X | R2X | -6 | 96 | 17 | BL | 1.7 | T | yes | 1c |
| | 00.2 | TH89004 R2X | R2X | -6 | 87 | 17 | BR | 1.9 | ST | - | 1c |
| | 00.1 | B0012RX | R2X | -6 | 96 | 6 | BR | 1.7 | T | - | 1k, 6 |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | | | | |
| | 000 | SV175101Z-02-07-07 | E3 | -13 | 74 | 6 | BL | 1.9 | ST | - | - |
| Early-Season Zone | 00.1 | SI 001XTN | R2X | -5 | 99 | 23 | BL | 1.7 | T | yes | 1k |
| | 00.2 | NSC Redvers RR2X | R2X | -5 | 92 | 17 | BL | 1.9 | ST | yes | 1c |
| | 00.3 | Akras R2 | R2Y | -4 | 102 | 27 | BL | 1.8 | ST | - | 1c |
| | 000.9 | Young R2X | R2X | -4 | 97 | 6 | BL | 1.7 | T | yes | 1c |
| | 00.3 | S003-Z4X | R2X | -4 | 97 | 12 | BF | 1.9 | ST | - | 1c |
| | 00.4 | B0041RX | R2X | -4 | 101 | 6 | GR | 1.7 | T | - | 1k |
| | 00.2 | PV 22s002 R2X | R2X | -4 | 100 | 6 | BL | 1.7 | T | - | - |
| | 00.5 | S005-C9X | R2X | -3 | 94 | 12 | BL | 2.3 | S | - | 1c |
| | 00.4 | Mikado R2X | R2X | -3 | 96 | 6 | BL | 1.9 | ST | yes | 1c |
| | 000.8 | DKB0008-87 | R2X | -3 | 101 | 6 | BL | 1.8 | ST | yes | 1c, 1k |
| | 00.6 | RX Acron | R2X | -3 | 100 | 14 | BL | 1.8 | ST | yes | - |
| | 00.5 | Hart R2X | R2Y | -3 | 97 | 6 | BR | 1.9 | ST | - | 1c |
| | 00.6 | CP00621X | R2X | -3 | 101 | 4 | BR | 1.7 | T | yes | 1c, 3a |
| | 00.4 | Bourke R2X | R2X | -2 | 102 | 23 | BL | 1.8 | ST | - | 1k |
| | 00.4 | NSC Holland RR2X | R2X | -2 | 109 | 6 | BR | 1.8 | ST | - | 1c |
| | 00.3 | Merritt R2X | R2X | -2 | 99 | 12 | BL | 1.8 | ST | yes | 1c, 1k |
| | 00.3 | Sunna R2X | R2X | -2 | 103 | 23 | GR | 1.7 | T | yes | 1c |
| | 00.2 | DKB002-32 | R2X | -2 | 98 | 12 | BR | 1.8 | ST | yes | 1k |
| | 00.6 | PS 0068 XR | R2X | -2 | 98 | 16 | BL | 1.8 | ST | - | 1c |
| | 00.6 | P006A37X | R2X | -2 | 108 | 23 | BR | 1.8 | ST | - | 1c |
| Experimental lines that are being tested/proposed for registration in Canada | | | | | | | | | | | |
| | 000.9 | PV 15S0009R2X | R2X | -5 | 97 | 17 | BL | 1.8 | ST | - | - |
| | 00 | SV185067-06-03 | E3 | -4 | 89 | 6 | BR | 2.0 | ST | - | - |
| | 00 | SV185067-06-04 | E3 | -1 | 92 | 6 | BR | 1.9 | ST | - | - |
| Mid-Season Zone | 00.6 | NSC Sperling RR2Y | R2Y | -1 | 105 | 21 | IY | 1.8 | ST | - | 1a, 3a |
| | 00.1 | Barker R2X | R2X | -1 | 99 | 21 | BL | 1.8 | ST | yes | 1k |
| | 00.6 | NSC Cartier RR2X | R2X | -1 | 96 | 10 | BL | 1.8 | ST | - | 3a |
| | 00.4 | PV 16s004 R2X | R2X | -1 | 100 | 23 | BL | 1.8 | ST | yes | 1k |
| | 00.3 | TH 87003 R2X | R2X | -1 | 96 | 27 | BL | 1.8 | ST | yes | 1c |
| | 00.5 | B0051RX | R2X | -1 | 99 | 6 | BR | 1.8 | ST | - | 1c |
| | 00.5 | DKB005-52 | R2X | 0 | 100 | 28 | BL | 1.8 | ST | yes | 1c |
| | 00.6 | SI 00620XTN | R2X | 1 | 103 | 6 | BL | 1.7 | T | yes | 1c |
| | 00.5 | Kudo R2X | R2X | 1 | 100 | 8 | BL | 1.7 | T | - | - |
| | 00.5 | TH82005 R2X | R2X | 1 | 104 | 6 | BR | 1.8 | ST | - | 1k |
| | 00.7 | PS 0074 R2 | R2Y | 1 | 104 | 21 | BR | 1.7 | T | - | - |
| | 00.8 | DKB008-48 | R2X | 1 | 112 | 6 | BL | 1.8 | ST | yes | 1c, 1k |
| | 00.6 | Mao R2X | R2X | 2 | 106 | 4 | BL | 1.7 | T | yes | 1c |
| | 00.7 | Elmo E3 | E3 | 2 | 100 | 8 | BR | 1.8 | ST | yes | - |
| | 00.7 | S007-A2XS | R2X | 2 | 105 | 12 | GR | 1.8 | ST | - | - |
| | Long-Season Zone | 00.9 | P00A49X | R2X | 2 | 103 | 16 | BR | 1.7 | T | yes |
| 00.7 | | SI 007XTN | R2X | 2 | 105 | 20 | BL | 1.8 | ST | yes | 1c |
| 00.8 | | NSC Winkler RR2X | R2X | 3 | 103 | 16 | BL | 1.8 | ST | yes | 1c |
| 00.9 | | TH89009 R2XN | R2X | 5 | 105 | 12 | BL | 1.7 | T | yes | 1k |
| | 00.7 | TH81007 R2XN | R2X | 5 | 106 | 4 | BR | 1.7 | T | yes | 1c |
| CHECK CHARACTERISTICS | | | | | | | | | | | |
| | | DKB005-52 | | 119 | 43 | 28 | | | | | |
| | | | | DTM | bu/ac | site-years | | | | | |

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

HERBICIDE TOLERANT SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

2021 Yield % Check

| Manitoba Maturity Zone | Variety | Average DTM +/- Check† | Early Sites‡ | | | | | | |
|---|---|------------------------|--------------|-----------|--------|--------|---------|-------------|----|
| | | | Beausejour | Stonewall | Carman | Morris | Portage | St. Adolphe | |
| Very Early-Season Zone | NSC Dauphin RR2X | -15 | 85 | 91 | 73 | 80 | 79 | 78 | |
| | BY Rundle XT | -15 | 69 | 89 | 74 | 81 | 70 | 67 | |
| | Fresco R2X | -13 | 75 | 81 | 77 | 73 | 95 | 66 | |
| | S001-D8X | -9 | 80 | 123 | 91 | 80 | 97 | 94 | |
| | SI 00319XT | -8 | 84 | 107 | 92 | 79 | 88 | 87 | |
| | P003A97X | -8 | 101 | 107 | 93 | 95 | 102 | 86 | |
| | SI 000919XT | -7 | 113 | 112 | 97 | 90 | 81 | 93 | |
| | P001A48X | -7 | 98 | 116 | 84 | 81 | 110 | 83 | |
| | 003-R5X | -6 | 106 | 94 | 98 | 92 | 108 | 92 | |
| | Komodo R2 | -6 | 101 | 127 | 98 | 91 | 97 | 98 | |
| | P005A83X | -6 | 86 | 111 | 102 | 94 | 109 | 95 | |
| | TH89004 R2X | -6 | 97 | 106 | 92 | 82 | 88 | 96 | |
| | B0012RX | -6 | 101 | 98 | 88 | 103 | 89 | 90 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | | |
| | | SV175101Z-02-07-07 | -13 | 80 | 123 | 80 | 56 | 78 | 45 |
| Early-Season Zone | SI 001XTN | -5 | 92 | 101 | 105 | 83 | 93 | 98 | |
| | NSC Redvers RR2X | -5 | 110 | 97 | 98 | 89 | 90 | 90 | |
| | Akras R2 | -4 | 122 | 129 | 105 | 93 | 114 | 100 | |
| | Young R2X | -4 | 92 | 105 | 107 | 88 | 93 | 106 | |
| | S003-Z4X | -4 | 103 | 107 | 102 | 97 | 102 | 91 | |
| | B0041RX | -4 | 113 | 112 | 96 | 96 | 100 | 92 | |
| | PV 22s002 R2X | -4 | 102 | 114 | 103 | 90 | 99 | 107 | |
| | S005-C9X | -3 | 103 | 118 | 88 | 96 | 93 | 85 | |
| | Mikado R2X | -3 | 98 | 109 | 91 | 87 | 103 | 104 | |
| | DKB0008-87 | -3 | 103 | 117 | 100 | 102 | 91 | 100 | |
| | RX Acron | -3 | 111 | 116 | 99 | 81 | 102 | 102 | |
| | Hart R2X | -3 | 97 | 126 | 92 | 95 | 102 | 89 | |
| | CP00621X | -3 | - | - | 100 | 103 | 107 | 87 | |
| | Bourke R2X | -2 | 109 | 119 | 106 | 92 | 102 | 102 | |
| | NSC Holland RR2X | -2 | 125 | 127 | 112 | 89 | 106 | 99 | |
| | Merritt R2X | -2 | 108 | 100 | 109 | 96 | 107 | 98 | |
| | Sunna R2X | -2 | 112 | 99 | 109 | 97 | 110 | 96 | |
| | DKB002-32 | -2 | 107 | 116 | 101 | 94 | 107 | 102 | |
| | PS 0068 XR | -2 | - | - | 97 | 88 | 100 | 96 | |
| | P006A37X | -2 | 119 | 118 | 116 | 95 | 99 | 104 | |
| Experimental lines that are being tested/proposed for registration in Canada | | | | | | | | | |
| | PV 15s0009R2X | -5 | 106 | 113 | 94 | 83 | 83 | 94 | |
| | SV185067-06-03 | -4 | 91 | 112 | 86 | 84 | 91 | 87 | |
| | SV185067-06-04 | -1 | 97 | 112 | 88 | 84 | 94 | 92 | |
| Mid-Season Zone | NSC Sperling RR2Y | -1 | - | - | 102 | 104 | 107 | 102 | |
| | Barker R2X | -1 | - | - | 109 | 91 | 109 | 99 | |
| | NSC Cartier RR2X | -1 | - | - | 96 | 94 | 98 | 97 | |
| | PV 16s004R2X | -1 | 107 | 105 | 110 | 94 | 93 | 102 | |
| | TH 87003 R2X | -1 | 108 | 103 | 111 | 91 | 101 | 98 | |
| | B0051RX | -1 | 103 | 106 | 93 | 103 | 95 | 94 | |
| | DKB005-52 | 0 | 100 | 100 | 100 | 100 | 100 | 100 | |
| | SI 00620XTN | 1 | 105 | 115 | 106 | 94 | 100 | 111 | |
| | SI 007XTN | 1 | 108 | 109 | 112 | 106 | 121 | 109 | |
| | Kudo R2X | 1 | - | - | 116 | 95 | 116 | 116 | |
| | TH82005 R2X | 1 | 99 | 115 | 104 | 97 | 114 | 115 | |
| | PS 0074 R2 | 1 | - | - | 115 | 100 | 125 | 98 | |
| | DKB008-48 | 2 | 110 | 134 | 121 | 102 | 105 | 121 | |
| | Mao R2X | 2 | - | - | 119 | 101 | 94 | 104 | |
| | Elmo E3 | 2 | - | - | 109 | 101 | 115 | 102 | |
| | S007-A2XS | 2 | 124 | 144 | 114 | 96 | 98 | 111 | |
| | P00A49X | 2 | - | - | 110 | 101 | 117 | 119 | |
| Long-Season Zone | NSC Winkler RR2X | 3 | - | - | 109 | 103 | 104 | 118 | |
| | TH89009 R2XN | 5 | - | - | 113 | 101 | 127 | 117 | |
| | TH81007 R2XN | 5 | - | - | 109 | 108 | 98 | 109 | |
| CHECK CHARACTERISTICS | | | | | | | | | |
| | DKB005-52 | 119 DTM | 55 | 14 | 56 | 54 | 36 | 21 | |
| | | | bu/ac | | | | | | |
| | | CV % | 6.8 | 8.7 | 6.2 | 5.4 | 8.7 | 7.1 | |
| | | LSD % | 11 | 16 | 10 | 8 | 14 | 11 | |
| | | Sign. Diff. | yes | yes | yes | yes | yes | yes | |
| | | Seeding Date | May 17 | May 25 | May 19 | May 18 | May 28 | May 14 | |
| | | Harvest Date | Sep 24 | Sep 25 | Sep 29 | Sep 30 | Oct 5 | Sep 22 | |

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

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

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

| Manitoba Maturity Zone | Company Maturity Group | Variety | Average DTM +/- Check† | Yield % Check | Site-Years Tested | IDC | | Resistance | | 2021 Yield % Check | | | | | |
|------------------------------|------------------------|------------------|------------------------|---------------|-------------------|--------------|-------|------------|--------------|--------------------|---------|---------|--------|--------|-------------|
| | | | | | | Rating (1-5) | Group | SCN | PRR | Dauphin | Hamiota | Holland | Melita | Souris | Swan River‡ |
| Very Early-Season Zone | 000.3 | DKB0003-24 | -13 | 86 | 6 | 1.9 | ST | yes | 1c, 1k | 97 | 69 | 86 | 83 | 90 | 84 |
| | 000.6 | Buffalo R2 | -11 | 85 | 8 | 1.9 | ST | - | - | 94 | 82 | 83 | 81 | 92 | 81 |
| | 000.5 | BY Rundle XT | -11 | 92 | 6 | 1.9 | ST | yes | 1c, 3a | 105 | 62 | 105 | 93 | 96 | 92 |
| | 000.8 | NSC Dauphin RR2X | -10 | 88 | 6 | 2.1 | ST | - | 1c | 95 | 70 | 90 | 87 | 90 | 92 |
| | 000.5 | Amirani R2 | -9 | 88 | 13 | 1.8 | ST | - | 1k | 93 | 75 | 88 | 75 | 90 | 81 |
| | 00.1 | NSC EXP001PX | -8 | 85 | 5 | 1.7 | T | - | 1c | 95 | 79 | 82 | 82 | 81 | - |
| | 000.7 | Fresco R2X | -8 | 92 | 13 | 2.0 | ST | - | - | 107 | 73 | 90 | 79 | 97 | 89 |
| | 000.7 | NSC EXP0007X | -8 | 83 | 6 | 1.9 | ST | - | 1a | 95 | 72 | 85 | 78 | 81 | 81 |
| | 000.9 | S0009-F2X | -7 | 95 | 27 | 1.8 | ST | - | 1c | 102 | 89 | 98 | 94 | 94 | 104 |
| | 00.1 | NSC EXP001LX | -6 | 96 | 5 | 1.8 | ST | - | 1c, 3a | 104 | 94 | 100 | 87 | 93 | - |
| 000.5 | DKB0005-44 | -6 | 93 | 18 | 1.9 | ST | yes | 1c | 107 | 87 | 90 | 89 | 101 | 90 | |
| 000.5 | CP000521X | -6 | 90 | 6 | 1.8 | ST | - | 1c | 96 | 82 | 78 | 87 | 92 | 94 | |
| Early-Season Zone | 00.1 | S001-D8X | -4 | 103 | 11 | 1.9 | ST | - | 1c | 106 | 88 | 95 | 88 | 95 | 110 |
| | 00.2 | Komodo R2 | -4 | 99 | 8 | 2.2 | ST | yes | 1c | 101 | 90 | 98 | 89 | 97 | 115 |
| | 00.1 | B0012RX | -4 | 103 | 6 | 1.7 | T | - | 1k, 6 | 102 | 96 | 94 | 96 | 105 | 119 |
| | 00.3 | 003-R5X | -4 | 105 | 6 | 1.9 | ST | - | 1c | 110 | 95 | 104 | 106 | 103 | 109 |
| | 00.1 | P001A48X | -3 | 100 | 13 | 1.8 | ST | - | 1c | 104 | 86 | 100 | 88 | 103 | 106 |
| | 00.2 | TH89004 R2X | -2 | 98 | 13 | 1.9 | ST | - | 1c | 100 | 89 | 92 | 82 | 96 | 105 |
| | 000.9 | Young R2X | -2 | 101 | 6 | 1.7 | T | yes | 1c | 111 | 100 | 83 | 87 | 104 | 104 |
| | 000.9 | SI 000919XT | -2 | 97 | 11 | 1.7 | T | - | - | 100 | 90 | 90 | 84 | 97 | 96 |
| | 000.9 | PV 15s0009 R2X | -2 | 98 | 17 | 1.8 | ST | yes | 1c | 107 | 91 | 84 | 87 | 100 | 99 |
| | 00.3 | P003A97X | -2 | 100 | 13 | 1.8 | ST | yes | 1k | 114 | 101 | 103 | 102 | 104 | 105 |
| | 00.3 | S003-Z4X | -2 | 104 | 13 | 1.9 | ST | - | 1c | 105 | 94 | 108 | 85 | 102 | 112 |
| | 000.9 | DKB0009-89 | -2 | 98 | 18 | 1.8 | ST | yes | 1c, 1k | 107 | 91 | 87 | 90 | 101 | 92 |
| | 00.1 | SI 001XTN | -2 | 99 | 18 | 1.7 | T | yes | 1k | 108 | 95 | 92 | 96 | 105 | 108 |
| | 00.2 | NSC Redvers RR2X | -1 | 97 | 15 | 1.9 | ST | yes | 1c | 100 | 87 | 98 | 97 | 99 | - |
| | 000.8 | DKB0008-87 | -1 | 101 | 6 | 1.8 | ST | yes | 1c, 1k | 108 | 94 | 94 | 97 | 105 | 101 |
| | 00.5 | P005A83X | -1 | 107 | 13 | 1.7 | T | yes | 1c | 122 | 99 | 106 | 93 | 108 | 104 |
| | 00.3 | Mahony R2 | -1 | 101 | 35 | 2.5 | S | - | - | 106 | 92 | 104 | 92 | 103 | 108 |
| | 00.5 | Hart R2X | 0 | 101 | 6 | 1.9 | ST | - | 1c | 107 | 95 | 83 | 97 | 103 | 109 |
| | 00.4 | Mikado R2X | 0 | 98 | 5 | 1.9 | ST | yes | 1c | 102 | 91 | 99 | 95 | 99 | - |
| | 00.3 | Akras R2 | 0 | 100 | 37 | 1.7 | T | - | 1c | 100 | 100 | 100 | 100 | 100 | 100 |
| 00.5 | S005-C9X | 0 | 107 | 9 | 2.3 | S | - | 1c | 111 | 95 | 104 | 102 | 102 | - | |
| 00.3 | TH 87003 R2X | 0 | 96 | 23 | 1.8 | ST | yes | 1c | 114 | 96 | 88 | 84 | 105 | - | |
| Mid-Season Zone | 00.3 | Sunna R2X | 1 | 101 | 16 | 1.7 | T | yes | 1c | 108 | 89 | 101 | 88 | 98 | 106 |
| | 00.4 | B0041RX | 1 | 105 | 5 | 1.7 | T | - | 1k | 107 | 107 | 100 | 99 | 106 | - |
| | 00.5 | P005A27X | 1 | 101 | 18 | 1.8 | ST | - | 1c | 113 | 93 | 104 | 85 | 107 | 106 |
| | 00.6 | P006A37X | 1 | 107 | 17 | 1.8 | ST | - | 1c | 112 | 99 | 98 | 100 | 105 | 116 |
| | 00.4 | Bourke R2X | 1 | 103 | 11 | 1.8 | ST | - | 1k | 108 | 101 | 98 | 90 | 104 | - |
| | 00.2 | PV 22s002 R2X | 1 | 103 | 6 | 1.7 | T | - | - | 112 | 96 | 88 | 95 | 109 | 102 |
| | 00.6 | PS 0068 XR | 2 | 105 | 9 | 1.8 | ST | - | 1c | 109 | 96 | 103 | 91 | 100 | - |
| | 00.4 | PV 16s004 R2X | 2 | 100 | 15 | 1.8 | ST | yes | 1k | 107 | 105 | 96 | 96 | 106 | - |
| | 00.7 | TH82005 R2X | 3 | 110 | 5 | 1.8 | ST | - | - | 114 | 96 | 104 | 99 | 122 | - |
| 00.5 | Kudo R2X | 3 | 105 | 11 | 1.7 | T | - | - | 110 | 106 | 111 | 97 | 107 | - | |
| CHECK CHARACTERISTICS | | | | | | | | | | | | | | | |
| | Akras R2 | | 123 DTM | 55 bu/ac | 37 site-years | | | | | 75 | 57 | 38 | 30 | 77 | 63 |
| | | | | | | | | | CV % | 4.4 | 4.3 | 8.3 | 7.5 | 4.6 | 7.1 |
| | | | | | | | | | LSD % | 8 | 6 | 13 | 11 | 7 | 12 |
| | | | | | | | | | Sign. Diff. | yes | yes | yes | yes | yes | yes |
| | | | | | | | | | Seeding Date | May 17 | May 18 | May 12 | May 17 | May 15 | May 17 |
| | | | | | | | | | Harvest Date | Sep 28 | Oct 4 | Sep 21 | Sep 15 | Sep 27 | Sep 30 |

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

‡ Dashes indicate that varieties were not tested at the Swan River site.

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

| Manitoba Maturity Zone | Variety | Average DTM +/- Check† | IDC | | 2021 Yield % Check | | | |
|------------------------------|---|------------------------|--------|---------------------|--------------------|--------|-------------|--|
| | | | Rating | Group | Carman | Morris | St. Adolphe | |
| Very Early-Season Zone | SI 000921E3 | -10 | 1.9 | ST | 75 | 69 | 79 | |
| | NSC EXP001LX | -7 | 1.8 | ST | 83 | 73 | 97 | |
| | Pikas R2X | -7 | 1.6 | T | 82 | 79 | 80 | |
| | Gecko R2X | -6 | 1.7 | T | 88 | 72 | 85 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | |
| | EXP000820XRN | -6 | 1.7 | T | 98 | 90 | 91 | |
| | SC21-2225R2X | -6 | 2.0 | ST | 91 | 81 | 96 | |
| Early-Season Zone | PV 24s0008R2X | -5 | 1.6 | T | 90 | 89 | 95 | |
| | SI 00221XTN | -5 | 2.0 | ST | 91 | 89 | 101 | |
| | SI 00321XT | -2 | 1.8 | ST | 103 | 79 | 104 | |
| | Merino R2X | -1 | 1.7 | T | 108 | 92 | 125 | |
| | NSC EXP001PX | -1 | 1.7 | T | 90 | 92 | 100 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | |
| | PV EXP 21-S3 | -4 | 1.8 | ST | 92 | 83 | 92 | |
| SVX00421XTN | -2 | 1.8 | ST | 105 | 90 | 115 | | |
| Mid-Season Zone | DKB005-52 | 0 | 1.8 | ST | 100 | 100 | 100 | |
| | PV 26s007R2X | 0 | 1.9 | ST | 91 | 86 | 109 | |
| | TH82006 R2X | 0 | 1.9 | ST | 101 | 93 | 105 | |
| | Mako R2X | 0 | 1.8 | ST | 109 | 96 | 100 | |
| | Badger R2X | 1 | 1.7 | T | 108 | 99 | 123 | |
| | PV 25s005R2X | 1 | 1.7 | T | 103 | 98 | 114 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | |
| PR150102Z-18 | 0 | 1.7 | T | 103 | 93 | 111 | | |
| Long-Season Zone | DKB006-21 | 3 | 1.7 | T | 113 | 110 | 116 | |
| | Triquet R2X | 5 | 1.7 | T | 112 | 96 | 119 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | |
| PR161100Z-04 | 2 | 1.7 | T | 97 | 95 | 96 | | |
| CHECK CHARACTERISTICS | | | | | | | | |
| | DKB005-52 | 120 DTM | | | 57 | 52 | 20 | |
| | | | | | | bu/ac | | |
| | | | | CV % | 7.6 | 3.1 | 6.0 | |
| | | | | LSD % | 12 | 5 | 10 | |
| | | | | Sign. Diff. | yes | yes | yes | |
| | | | | Seeding Date | May 19 | May 18 | May 14 | |
| | | | | Harvest Date | Sep 29 | Sep 30 | Sep 22 | |

† Maturity ratings were averaged across the Carman, Morris and St. Adolphe sites.

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

| Manitoba Maturity Zone | Variety | Average DTM +/- Check† | IDC | | 2021 Yield % Check | | | |
|------------------------|---|------------------------|--------|-------|--------------------|--------|--------|--|
| | | | Rating | Group | Hamiota | Melita | Souris | |
| Very Early-Season Zone | Mynarski R2X | -9 | 2.0 | ST | 72 | 80 | 87 | |
| | DKB0005-03 | -9 | 1.7 | T | 81 | 89 | 100 | |
| | Pikas R2X | -7 | 1.6 | T | 87 | 94 | 96 | |
| | Wolf R2X | -7 | 1.9 | ST | 83 | 104 | 94 | |
| | SI 00319XT | -6 | 2.0 | ST | 88 | 90 | 90 | |
| | PV 24s0008R2X | -5 | 1.6 | ST | 91 | 94 | 102 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | |
| | PR160520Z-04 | -14 | 1.9 | ST | 67 | 88 | 83 | |
| | PR160298Z-06 | -13 | 1.9 | ST | 53 | 90 | 86 | |
| | PV EXP 21-S1 | -12 | 1.7 | ST | 78 | 95 | 102 | |
| | SVX000921E3 | -10 | 1.9 | ST | 79 | 86 | 92 | |
| | PR160542Z-03 | -9 | 1.8 | ST | 78 | 95 | 86 | |
| | SV175069Z-01-06-11 | -9 | 1.8 | ST | 84 | 79 | 91 | |
| | EXP000820XRN | -6 | 1.7 | T | 89 | 102 | 103 | |

continued ►

| Manitoba Maturity Zone | Variety | Average DTM +/- Check† | IDC | | 2021 Yield % Check | | |
|------------------------------|---|------------------------|--------|--------------|--------------------|--------|--------|
| | | | Rating | Group | Hamiota | Melita | Souris |
| Early-Season Zone | SI 00221XTN | -4 | 2.0 | ST | 104 | 106 | 102 |
| | Major R2X | -3 | 2.1 | ST | 81 | 106 | 96 |
| | Dextro R2X | -1 | 1.8 | ST | 97 | 92 | 98 |
| | PV 26s007R2X | -1 | 1.9 | ST | 100 | 113 | 99 |
| | SI 00321XT | -1 | 1.8 | ST | 100 | 103 | 107 |
| | Akras R2 | 0 | 1.8 | ST | 100 | 100 | 100 |
| | PV 25s005R2X | 1 | 1.7 | ST | 97 | 114 | 112 |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | |
| | PV EXP 21-S3 | -4 | 1.8 | ST | 99 | 93 | 103 |
| CHECK CHARACTERISTICS | | | | | | | |
| | Akras R2 | 120 DTM | | | 53 | 26 | 81 |
| | | | | | | bu/ac | |
| | | | | CV % | 5.3 | 7.7 | 3.9 |
| | | | | LSD % | 7 | 12 | 6 |
| | | | | Sign. Diff | yes | yes | yes |
| | | | | Seeding Date | May 18 | May 17 | May 15 |
| | | | | Harvest Date | Oct 4 | Sep 14 | Sep 27 |

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

CONVENTIONAL SOYBEANS ♦ VARIETY DESCRIPTIONS

| Manitoba Maturity Zone | Company Maturity Group | Variety | Average DTM +/- Check† | Yield % Check | Site-Years Tested | Hilum Colour | IDC | | |
|------------------------|---|---------------|------------------------|---------------|-------------------|--------------|--------------|-------|----|
| | | | | | | | Rating (1-5) | Group | |
| Early-Season Zone | 000.8 | Norfolk | -7 | 91 | 24 | IY | 2.3 | S | |
| | 000.7 | Fjord | -4 | 92 | 16 | IY | 2.0 | ST | |
| | 000.9 | AAC Halli* | -3 | 100 | 43 | Y | 2.0 | ST | |
| | 00.2 | Siberia | -2 | 104 | 15 | IY | 1.8 | ST | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | | |
| | 00 | OT20-01 | | -4 | 92 | 2 | Y | 1.7 | T |
| | 000 | SVX22T000S32 | | -3 | 105 | 4 | IY | 1.8 | ST |
| | 00.3 | OAC Prudence | | 0 | 100 | 140 | Y | 1.6 | T |
| Mid-Season Zone | 00.3 | Reynolds | | 3 | 107 | IY | 2.3 | S | |
| | 00.4 | Liska | | 4 | 115 | Y | 2.3 | S | |
| | 00.7 | Primo | | 5 | 99 | IY | 1.9 | ST | |
| | 00.6 | Kebek | | 6 | 102 | Y | 1.8 | ST | |
| | 00.8 | Baffin | | 6 | 107 | IY | 2.0 | ST | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | | |
| | 000 | SVX21T000S1 | | 0 | 105 | 10 | IY | 2.1 | ST |
| | 00.3 | CM-6 | | 2 | 97 | 4 | Y | 1.8 | ST |
| | 00 | OT20-02 | | 2 | 109 | 2 | Y | 1.9 | ST |
| | 00.2 | PR130933Z-05 | | 2 | 102 | 2 | IY | 1.8 | ST |
| | 00 | SVX21T00S2 | | 2 | 107 | 10 | IY | 1.7 | T |
| | 00 | OT20-03 | | 2 | 106 | 2 | Y | 1.8 | ST |
| | 00.6 | PR130077Z-28 | | 3 | 103 | 4 | IY | 2.0 | ST |
| | 000 | SVX22T000S33 | | 3 | 110 | 4 | IY | 2.0 | ST |
| | 00 | OT20-06 | | 4 | 113 | 2 | Y | 1.8 | ST |
| | 00.6 | CLS13-005.008 | | 6 | 110 | 2 | IY | 2.1 | ST |
| 00.5 | CRGS 18.1 | | 6 | 113 | 2 | IY | 1.9 | ST | |
| Long-Season Zone | 00.7 | Abaca | | 7 | 127 | IY | 1.8 | ST | |
| | 00.8 | Meteor | | 7 | 101 | IY | 2.4 | S | |
| | 00.7 | Mozart | | 8 | 109 | Y | 1.9 | ST | |
| | 00.8 | Aurelina | | 8 | 119 | IY | 1.8 | ST | |
| | 00.7 | Jago | | 9 | 111 | Y | 2.1 | ST | |

continued ►

CONVENTIONAL SOYBEANS ♦ VARIETY DESCRIPTIONS continued

| Manitoba Maturity Zone | Company Maturity Group | Variety | Average DTM +/- Check† | Yield % Check | Site-Years Tested | Hilum Colour | IDC | | |
|------------------------------|---|-----------------|------------------------|---------------|-------------------|--------------|--------------|-------|--|
| | | | | | | | Rating (1-5) | Group | |
| Long-Season Zone | 00.7 | Maya* | 10 | 101 | 5 | Y | 1.7 | T | |
| | 00 | Stanley | 11 | 116 | 8 | IY | 2.1 | ST | |
| | 00.9 | Hana | 12 | 117 | 2 | Y | 1.9 | ST | |
| | 0.3 | Astor | 13 | 114 | 14 | Y | 1.9 | ST | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | | | |
| | 00.5 | CRGS 17.1 | 7 | 111 | 2 | Y | 2.3 | S | |
| | 000 | SVX22T000534 | 7 | 119 | 4 | IY | 1.9 | ST | |
| | 00.7 | CLS13-005.001 | 8 | 112 | 2 | IY | 2.1 | ST | |
| | 00.9 | OT18-01 | 8 | 120 | 11 | Y | 1.9 | ST | |
| | 00.5 | CRGS 16.1 | 8 | 108 | 2 | Y | 1.9 | ST | |
| | 00.7 | CLS13-005.014 | 9 | 125 | 2 | IY | 2.2 | ST | |
| | 00.9 | PR130312Z-10-04 | 10 | 105 | 2 | IY | 2.0 | ST | |
| | 00 | SVX22T00535 | 10 | 115 | 4 | IY | 2.0 | ST | |
| | 00.9 | DL18.3004 | 12 | 119 | 8 | Y | 2.0 | ST | |
| | 00.7 | DL21-3007 | 12 | 119 | 2 | Y | 2.0 | ST | |
| | 00.8 | DL21-3010 | 13 | 121 | 2 | Y | 2.0 | ST | |
| 00.9 | CLS13-005.021 | 13 | 122 | 2 | IY | 1.9 | ST | | |
| CHECK CHARACTERISTICS | | | | | | | | | |
| OAC Prudence | | | 114 DTM | 47 bu/ac | 140 site-years | | | | |

This long-term data is based on results from eastern Manitoba locations. † Maturity ratings were averaged across the core sites over multiple years.

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

CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA

| Manitoba Maturity Zone | Variety | Average DTM +/- Check† | 2021 Yield % Check | | | | |
|------------------------|---|------------------------|--------------------|-----------|------------|---------|--|
| | | | Early Sites† | | Core Sites | | |
| | | | Beausejour | Stonewall | Morris | Portage | |
| Early-Season Zone | Norfolk | -7 | 68 | 67 | 84 | 75 | |
| | Fjord | -4 | 82 | 89 | 91 | 70 | |
| | AAC Halli* | -3 | 98 | 87 | 104 | 83 | |
| | Siberia | -2 | 84 | 92 | 88 | 91 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | |
| | OT20-01 | -4 | - | - | 92 | 92 | |
| | SVX22T000532 | -3 | 101 | 111 | 104 | 109 | |
| | OAC Prudence | 0 | 100 | 100 | 100 | 100 | |
| | Reynolds | 3 | 106 | 113 | 104 | 100 | |
| | Liska | 4 | 109 | 115 | 105 | 117 | |
| | Primo | 5 | 100 | 106 | 91 | 91 | |
| Mid-Season Zone | Kebek | 6 | 103 | 121 | 119 | 100 | |
| | Baffin | 6 | 107 | 96 | 123 | 106 | |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | |
| | SVX21T00051 | 0 | 100 | 95 | 90 | 94 | |
| | CM-6 | 2 | 94 | 97 | 94 | 104 | |
| | OT20-02 | 2 | - | - | 111 | 106 | |
| | PR130933Z-05 | 2 | - | - | 106 | 96 | |
| | SVX21T0052 | 2 | 110 | 108 | 100 | 96 | |
| | OT20-03 | 2 | - | - | 107 | 104 | |
| | PR130077Z-28 | 3 | 99 | 94 | 115 | 103 | |
| | SVX22T000533 | 3 | 109 | 112 | 113 | 106 | |
| OT20-06 | 4 | - | - | 117 | 108 | | |
| CLS13-005.008 | 6 | - | - | 115 | 104 | | |
| CRGS 18.1 | 6 | - | - | 112 | 113 | | |

continued ▶

CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ EASTERN MANITOBA continued

| Manitoba Maturity Zone | Variety | Average DTM +/- Check [†] | 2021 Yield % Check | | | |
|------------------------|---|------------------------------------|--------------------------|-----------|------------|---------|
| | | | Early Sites [‡] | | Core Sites | |
| | | | Beausejour | Stonewall | Morris | Portage |
| | Abaca | 7 | - | - | 127 | 123 |
| | Meteor | 7 | 107 | 108 | 94 | 107 |
| | Mozart | 8 | - | - | 108 | 110 |
| | Aurelina | 8 | - | - | 133 | 116 |
| | Jago | 9 | 109 | 122 | 115 | 108 |
| | Maya* | 10 | - | - | 107 | 99 |
| | Stanley | 11 | - | - | 128 | 123 |
| | Hana | 12 | - | - | 130 | 104 |
| | Astor | 13 | - | - | 121 | 104 |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | |
| Long-Season Zone | CRGS 17.1 | 7 | - | - | 113 | 110 |
| | SVX22T000S34 | 7 | 118 | 128 | 124 | 112 |
| | CLS13-005.001 | 8 | - | - | 113 | 110 |
| | OT18-01 | 8 | - | - | 115 | 108 |
| | CRGS 16.1 | 8 | - | - | 120 | 96 |
| | CLS13-005.014 | 9 | - | - | 131 | 118 |
| | PR130312Z-10-04 | 10 | - | - | 110 | 100 |
| | SVX22T00S35 | 10 | 110 | 94 | 134 | 115 |
| | DL21-3009 | 11 | - | - | 122 | 107 |
| | DL18.3004 | 12 | - | - | 136 | 120 |
| | DL21-3007 | 12 | - | - | 121 | 118 |
| | DL21-3010 | 13 | - | - | 123 | 119 |
| | CLS13-005.021 | 13 | - | - | 133 | 111 |
| | CHECK CHARACTERISTICS | | | | | |
| | OAC Prudence | 114 DTM | 48 | 20 | 38 | 35 |
| | | | | bu/ac | | |
| | | CV % | 5.2 | 8.5 | 9.0 | 9.7 |
| | | LSD % | 9 | 15 | 17 | 17 |
| | | Sign. Diff. | yes | yes | yes | yes |
| | | Seeding Date | May 17 | May 25 | May 18 | May 28 |
| | | Harvest Date | Sep 27 | Oct 1 | Sep 30 | Oct 5 |

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

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

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

CONVENTIONAL SOYBEANS ♦ YIELDS BY LOCATION ♦ WESTERN MANITOBA

| Manitoba Maturity Zone | Variety | Average DTM +/- Check [†] | Yield % Check | Site-Years Tested | Hilum Colour | 2021 Yield % Check | |
|------------------------------|---|------------------------------------|---------------|-------------------|--------------|--------------------|------------|
| | | | | | | Melita | Swan River |
| Very Early-Season Zone | Norfolk | -11 | 92 | 2 | IY | 93 | 91 |
| | Ambella | -10 | 92 | 4 | BR | 87 | 85 |
| Early-Season Zone | Siberia | -3 | 107 | 6 | IY | 109 | 110 |
| | AAC Halli* | -3 | 101 | 8 | Y | 111 | 106 |
| | Fjord | -4 | 95 | 8 | IY | 98 | 89 |
| | Reynolds | -2 | 109 | 2 | IY | 108 | 111 |
| | OAC Prudence | 0 | 100 | 11 | Y | 100 | 100 |
| Mid-Season Zone | Liska | 0 | 115 | 4 | IY | 125 | 110 |
| | Experimental lines that are being tested/proposed for registration in Canada | | | | | | |
| | PR130077Z-28 | 1 | 95 | 2 | IY | 105 | 85 |
| | CM-6 | 2 | 103 | 2 | Y | 99 | 106 |
| CHECK CHARACTERISTICS | | | | | | | |
| | OAC Prudence | 121 DTM | 33 | 11 | | 24 | 41 |
| | | | bu/ac | site-years | | bu/ac | |
| | | | | | CV % | 5.8 | 9.3 |
| | | | | | LSD % | 10 | 16 |
| | | | | | Sign. Diff. | yes | yes |
| | | | | | Seeding Date | May 17 | May 17 |
| | | | | | Harvest Date | Sep 15 | Sep 30 |

[†] Maturity ratings were averaged across the Melita and Swan River sites over multiple years.

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

Key for 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 +/- Check – The number of days from planting to swathing expressed as + or - days relative to the check variety. Days to maturity (DTM) may vary depending on the planting date.

FABA BEANS ♦ VARIETY DESCRIPTIONS AND YIELDS BY LOCATION

| Market Class/ Variety | Average DTM +/- Check | Yield % Check | Site-Years Tested | TSW (g/1000 seeds) | 2021 Yield % Check | |
|-----------------------------------|-----------------------|---------------|-------------------|---------------------|--------------------|-------------|
| | | | | | Dauphin | Morden |
| COLOURED FLOWER (TANNIN) | | | | | | |
| Fabelle* | 0 | 100 | 2 | 533 | 100 | 100 |
| Victus* | 24 | 93 | 2 | 401 | 93 | 94 |
| CHECK CHARACTERISTICS | | | | | | |
| Fabelle* | 105 DTM | 3223 lbs/ac | 2 site-years | | 5225 lbs/ac | 1220 lbs/ac |
| | | | | CV % | 4.0 | 12.3 |
| | | | | LSD % | 6 | 19 |
| | | | | Sign. Diff. | yes | yes |
| WHITE FLOWER (ZERO TANNIN) | | | | | | |
| DL Nevado* | -4 | 94 | 1 | 421 | 94 | - |
| Snowbird** | -1 | 100 | 2 | 448 | 100 | 100 |
| Tabasco* | 1 | 115 | 2 | 530 | 110 | 120 |
| DL Rico* | 4 | 86 | 2 | 566 | 82 | 91 |
| DL Tesoro* | 5 | 120 | 2 | 511 | 117 | 123 |
| 219-16* | 10 | 99 | 2 | 350 | 101 | 97 |
| Navi* | 24 | 106 | 2 | 401 | 106 | 105 |
| CHECK CHARACTERISTICS | | | | | | |
| Snowbird** | 105 DTM | 2719 lbs/ac | 2 site-years | | 4392 lbs/ac | 1047 lbs/ac |
| | | | | CV % | 4.0 | 12.3 |
| | | | | LSD % | 7 | 22 |
| | | | | Sign. Diff. | yes | yes |
| | | | | Seeding Date | May 7 | May 5 |
| | | | | Harvest Date | Sep 23 | Sep 22 |

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

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

Key for Field Pea Variety Tables

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

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

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

Seed Coat Dimpling – VG = 0–5% of seeds dimpled
G = 6–20% of seeds dimpled F = 21–50% of seeds dimpled

Bleaching – The resistance rating of green pea to bleaching. Bleaching does not apply to other market classes of peas, indicated by *n/a*.

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

Fusarium Wilt – Varieties with good resistance to one strain of fusarium wilt may be susceptible to other strains.

FIELD PEAS ♦ VARIETY DESCRIPTIONS

| Market Class/Variety | Maturity Rating ¹ | Yield % Check | Site-Years Tested | Relative Vine Length | TSW (g/1000 seeds) | Resistance | | | | | | |
|----------------------|------------------------------|---------------|-------------------|----------------------|--------------------|------------------|--------------------|--------------------|---------------------|---------|----------------|---------------|
| | | | | | | Green Seed Coats | Seed Coat Breakage | Seed Coat Dimpling | Seed Coat Bleaching | Lodging | Powdery Mildew | Fusarium Wilt |
| YELLOW | | | | | | | | | | | | |
| AAC Aberdeen* | mid | 105 | 16 | M | 250 | G | F | F | <i>n/a</i> | VG | VG | F |
| AAC Ardill | mid | 100 | 35 | M | 240 | G | G | G | <i>n/a</i> | G | VG | G |
| AAC Asher* | mid | 103 | 12 | S | 260 | G | F | F | <i>n/a</i> | G | VG | F |
| AAC Beyond* | mid | 97 | 8 | M | 210 | <i>n/a</i> | F | <i>n/a</i> | <i>n/a</i> | G | VG | G |
| AAC Carver* | early | 104 | 38 | L | 240 | G | G | G | <i>n/a</i> | G | VG | F |
| AAC Chrome* | long | 109 | 34 | M | 240 | G | G | G | <i>n/a</i> | G | VG | F |
| AAC Delhi* | mid | 103 | 22 | M | 290 | G | F | F | <i>n/a</i> | G | VG | F |
| AAC Julius* | mid | 100 | 9 | M | 210 | <i>n/a</i> | G | <i>n/a</i> | <i>n/a</i> | G | VG | G |
| AAC Lacombe** | long | 101 | 42 | L | 270 | F | F | G | <i>n/a</i> | G | VG | F |

continued ▶

| Market Class/Variety | Maturity Rating† | Yield % Check | Site-Years Tested | Relative Vine Length | TSW (g/1000 seeds) | Resistance | | | | | | |
|------------------------------|------------------|---------------|-------------------|----------------------|--------------------|------------------|--------------------|--------------------|---------------------|---------|----------------|---------------|
| | | | | | | Green Seed Coats | Seed Coat Breakage | Seed Coat Dimpling | Seed Coat Bleaching | Lodging | Powdery Mildew | Fusarium Wilt |
| AAC Profit** | mid | 102 | 21 | M | 230 | G | F | G | n/a | G | VG | F |
| CDC Amarillo | long | 100 | 44 | M | 230 | G | F | F | n/a | VG | VG | G |
| CDC Athabasca* | long | 96 | 28 | L | 300 | G | F | F | n/a | VG | VG | G |
| CDC Canary* | early | 99 | 28 | L | 230 | F | G | F | n/a | VG | VG | F |
| CDC Inca* | mid | 105 | 42 | L | 230 | F | G | G | n/a | G | VG | F |
| CDC Lewochko* | mid | 103 | 28 | L | 230 | G | G | G | n/a | VG | VG | F |
| CDC Meadow | early | 98 | 85 | M | 220 | G | G | G | n/a | G | VG | F |
| CDC Saffron | mid | 98 | 49 | M | 250 | G | G | F | n/a | G | VG | F |
| CDC Spectrum* | long | 96 | 28 | L | 240 | G | G | G | n/a | VG | VG | F |
| GREEN | | | | | | | | | | | | |
| AAC Comfort* | long | 98 | 24 | M | 260 | n/a | G | G | G | G | VG | F |
| Blueman** | long | 99 | 15 | M | 230 | n/a | VG | G | F | G | VG | F |
| CDC Forest* | long | 103 | 28 | L | 230 | n/a | G | G | G | G | VG | F |
| CDC Greenwater | mid | 98 | 34 | M | 220 | n/a | VG | G | G | G | VG | G |
| CDC Limerick | long | 97 | 43 | M | 210 | n/a | VG | G | G | VG | VG | F |
| CDC Rider* | long | 94 | 9 | M | 220 | n/a | G | G | G | VG | VG | G |
| CDC Spruce* | long | 99 | 19 | L | 240 | n/a | F | F | G | G | VG | F |
| CDC Striker | early | 89 | 89 | M | 230 | n/a | VG | G | G | VG | P | G |
| MAPLE | | | | | | | | | | | | |
| AAC Liscard | early | 94 | 24 | M | 180 | n/a | n/a | n/a | n/a | G | VG | n/a |
| FORAGE | | | | | | | | | | | | |
| CDC Jasper* | mid | 87 | 16 | L | 180 | G | G | G | n/a | F | VG | n/a |
| DL Delicious* | long | 79 | 15 | VL | 220 | n/a | VG | F | n/a | P | n/a | n/a |
| DL Lacross | mid | 92 | 22 | VL | 190 | F | VG | G | n/a | F | n/a | n/a |
| CHECK CHARACTERISTICS | | | | | | | | | | | | |
| CDC Amarillo | 91 DTM | 75 bu/ac | 44 site-years | | | | | | | | | |
| LSD% 4 | | | | | | | | | | | | |

† Maturity ratings were averaged across Hamiota, Melita, Morden and Swan River. * (P) Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991. ** (P) Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

FIELD PEAS ♦ YIELDS BY LOCATION

| Market Class/Variety | 2021 Yield % Check | | | | | | | | | |
|------------------------------|--------------------|---------|---------|--------|--------|---------|--------|--------|------------|--|
| | Carberry | Hamiota | Holland | Melita | Morden | Portage | Roblin | Souris | Swan River | |
| YELLOW | | | | | | | | | | |
| AAC Aberdeen* | 140 | 116 | 103 | 120 | 104 | 114 | 121 | 99 | 105 | |
| AAC Beyond* | 127 | 127 | 104 | 109 | - | 97 | 100 | 94 | 112 | |
| AAC Carver* | 127 | 112 | 110 | 98 | 92 | 109 | 104 | 101 | 110 | |
| AAC Chrome* | 131 | 135 | 111 | 123 | 108 | 114 | 114 | 107 | 98 | |
| AAC Delhi* | 137 | 120 | 120 | 111 | 102 | 116 | 91 | 96 | 99 | |
| AAC Julius* | 134 | 113 | 101 | 101 | 106 | 107 | 120 | 94 | 113 | |
| AAC Lacombe** | 113 | 98 | 115 | 106 | 104 | 107 | 105 | 104 | 112 | |
| AAC Profit** | 150 | 111 | 106 | 108 | 96 | 111 | 100 | 104 | 100 | |
| CDC Amarillo | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | |
| CDC Athabasca* | 127 | 102 | 99 | 104 | 96 | 100 | 94 | 95 | 101 | |
| CDC Canary* | 129 | 120 | 109 | 107 | 93 | 95 | 91 | 100 | 101 | |
| CDC Inca* | 122 | 132 | 107 | 107 | 101 | 108 | 113 | 104 | 108 | |
| CDC Lewochko* | 133 | 119 | 104 | 108 | 106 | 106 | 104 | 99 | 101 | |
| CDC Spectrum* | 127 | 109 | 96 | 101 | 98 | 110 | 87 | 95 | 104 | |
| GREEN | | | | | | | | | | |
| Blueman** | 121 | 124 | 103 | 113 | 97 | 99 | 93 | 95 | 98 | |
| CDC Forest* | 122 | 137 | 108 | 116 | 105 | 109 | 100 | 98 | 121 | |
| CDC Limerick | 119 | 127 | 113 | 106 | 113 | 102 | 110 | 86 | 85 | |
| CDC Rider* | 128 | 100 | 89 | 109 | 91 | 102 | 106 | 90 | 103 | |
| FORAGE | | | | | | | | | | |
| CDC Jasper* | 123 | 116 | 96 | 112 | 110 | 98 | 99 | 94 | 94 | |
| DL Delicious* | 126 | 97 | 84 | 82 | 88 | 83 | 90 | 87 | 80 | |
| DL Lacross | 116 | 111 | 117 | 106 | 92 | 102 | 94 | 96 | 85 | |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| CDC Amarillo | 36 | 49 | 58 | 40 | 36 | 72 | 61 | 136 | 59 | |
| bu/ac | | | | | | | | | | |
| CV % | 13.7 | 6.7 | 7.4 | 8.3 | 9.5 | 3.8 | 9.5 | 3.2 | 8.6 | |
| LSD % | - | 13 | 13 | - | 16 | 6 | - | 5 | - | |
| Sign. Diff. | no | yes | yes | no | yes | yes | no | yes | no | |
| Seeding Date | May 5 | May 6 | May 12 | Apr 28 | May 5 | May 14 | May 4 | May 10 | May 11 | |
| Harvest Date | Aug 16 | Aug 13 | Aug 6 | Aug 12 | Aug 12 | Aug 18 | Aug 17 | Aug 30 | Aug 30 | |

* (P) Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991. ** (P) Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

Key for Dry Bean Variety Tables

DTM +/- Check – The number of days from planting to full maturity (90% of plants ready for harvest). It is expressed as + or – days relative to the check variety. Actual days to maturity (DTM) for the check variety is found in the shaded area at the bottom of the table.

Lodging (1–5) – The lodging rating at harvest on a scale of one to five. The greater the value, the more lodged the crop. For example, 1 = standing upright, 5 = flat on the ground.

Plant Height (cm) – The distance measured from the soil surface to the top of the plant at flowering.

Pod Height (% >5 cm) – The visual estimation of the % of pods greater than 5 cm from the soil surface at harvest.

CBB Severity (0–5) – The average visual rating of common bacterial blight (CBB) on 10 plants per plot at the yellow pod (R7) stage.

0 = No observable lesions or other signs of infection

1 = < 5% of plant area (leaf and stem hypocotyls) diseased

2 = 5–10% of plant area diseased

3 = 10–25% of plant area diseased

4 = 25–50% of plant area diseased

5 = 50–100% of plant area diseased or death of seedling

CBB Incidence (%) – The average visual rating of % leaf tissue infected by CBB on 10 plants per plot at the R7 stage.

WM Incidence (%) – The average visual rating of the % of plants infected by white mould (WM) on 10 plants per plot at full maturity (R9).

DRY BEANS ♦ VARIETY DESCRIPTIONS

| Market Class/Variety | DTM +/- Check† | Yield % Check | Site- Years Tested | TSW (g/1000 seeds) | Lodging (1–5) | Plant Height (cm) | Pod Height (% > 5 cm) | CBB Severity (0–5) | CBB Incidence (%) | WM Incidence (%) |
|---|-------------------|---------------------|--------------------------|--------------------------|------------------|-------------------------|-----------------------------|--------------------------|-------------------------|------------------------|
| NAVY | +/- T9905 | % T9905 | | | | | | | | |
| Valiant | -6 | 105 | 1 | 183 | 1 | 53 | 100 | 2 | 10 | 0 |
| AAC Shock | -3 | 96 | 9 | 202 | 2 | 49 | 93 | 2 | 17 | 0 |
| Indi | -3 | 101 | 29 | 166 | 1 | 57 | 96 | 3 | 16 | 0 |
| Bolt | -2 | 93 | 19 | 204 | 1 | 53 | 90 | 2 | 19 | 0 |
| Rogue | -2 | 93 | 1 | 172 | 4 | 46 | 82 | 2 | 5 | 0 |
| AAC Argosy | 0 | 105 | 13 | 206 | 2 | 52 | 92 | 2 | 16 | 0 |
| Armada | 0 | 103 | 5 | 198 | 2 | 61 | 92 | 2 | 15 | 0 |
| Nautica | 0 | 89 | 18 | 163 | 2 | 52 | 93 | 2 | 20 | 0 |
| T9905 | 0 | 100 | 37 | 184 | 2 | 52 | 93 | 2 | 13 | 0 |
| HMS Medalist | 1 | 99 | 6 | 192 | 2 | 57 | 88 | 3 | 17 | 0 |
| SV1893GH* | 1 | 95 | 13 | 194 | 2 | 55 | 88 | 1 | 10 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| S09-27C | -4 | 86 | 2 | 228 | 2 | 54 | 90 | 3 | 15 | 0 |
| HMS Victory | -2 | 104 | 7 | 187 | 2 | 46 | 93 | 2 | 15 | 0 |
| 15095 | 3 | 101 | 6 | 204 | 3 | 58 | 88 | 3 | 25 | 0 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| T9905 | 102 DTM | 2350 lbs/ac | 37 site-years | | | | | | | |
| BLACK | +/- Eclipse | % Eclipse | | | | | | | | |
| CDC Blackstrap* | -5 | 94 | 18 | 203 | 1 | 42 | 94 | 2 | 13 | 0 |
| Ace | -1 | 99 | 7 | 179 | 2 | 52 | 96 | 3 | 17 | 0 |
| CDC Jet | -1 | 89 | 44 | 194 | 1 | 51 | 97 | 2 | 15 | 0 |
| CDC Superjet | -1 | 88 | 32 | 192 | 2 | 49 | 94 | 2 | 15 | 0 |
| Black Tails | 0 | 99 | 7 | 192 | 2 | 53 | 93 | 3 | 25 | 0 |
| Eclipse** | 0 | 100 | 46 | 176 | 1 | 52 | 97 | 3 | 20 | 0 |
| Zenith | 3 | 96 | 6 | 220 | 1 | 51 | 93 | 3 | 33 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| W11-02-152 | 0 | 83 | 2 | 234 | 2 | 58 | 88 | 3 | 25 | 0 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Eclipse | 97 DTM | 2436 lbs/ac | 46 site-years | | | | | | | |
| PINTO | +/- Windbreaker | % Windbreaker | | | | | | | | |
| CDC WM-3* | -3 | 82 | 1 | 339 | 2 | 39 | 92 | 3 | 12 | 0 |
| SV6139GR* | -2 | 104 | 26 | 365 | 2 | 48 | 90 | 3 | 14 | 0 |
| Vibrant | -1 | 108 | 18 | 330 | 2 | 58 | 89 | 2 | 19 | 0 |
| SV6533GR* | -1 | 97 | 9 | 423 | 3 | 55 | 78 | 3 | 22 | 0 |
| Windbreaker | 0 | 100 | 57 | 409 | 3 | 45 | 85 | 3 | 15 | 0 |
| Gleam | 3 | 112 | 1 | 337 | 2 | 51 | 93 | 2 | 17 | 0 |
| Cowboy* | 3 | 109 | 7 | 378 | 2 | 59 | 91 | 3 | 17 | 0 |
| Monterrey | 3 | 106 | 20 | 350 | 3 | 65 | 87 | 3 | 18 | 0 |

continued ►

| Market Class/Variety | DTM +/- Check† | Yield % Check | Site- Years Tested | TSW (g/1000 seeds) | Lodging (1-5) | Plant Height (cm) | Pod Height (% > 5 cm) | CBB Severity (0-5) | CBB Incidence (%) | WM Incidence (%) |
|---|-------------------|---------------------|--------------------------|--------------------------|------------------|-------------------------|-----------------------------|--------------------------|-------------------------|------------------------|
| La Paz | 5 | 99 | 21 | 320 | 3 | 61 | 86 | 3 | 26 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| 20-241 | -3 | 91 | 1 | 404 | 2 | 59 | 95 | 2 | 12 | 0 |
| 20-262 | 1 | 85 | 1 | 402 | 2 | 47 | 92 | 2 | 8 | 0 |
| Mystic | 2 | 110 | 1 | 403 | 2 | 57 | 93 | 2 | 7 | 0 |
| 20-310 | 3 | 107 | 1 | 462 | 2 | 46 | 92 | 2 | 10 | 0 |
| 16-NP1 | 4 | 86 | 4 | 323 | 3 | 64 | 88 | 2 | 20 | 0 |
| 19-382 | 5 | 89 | 4 | 431 | 3 | 53 | 86 | 2 | 20 | 0 |
| ND Palomino* | 5 | 105 | 7 | 400 | 4 | 53 | 86 | 2 | 17 | 0 |
| 19-279 | 7 | 96 | 4 | 396 | 3 | 66 | 87 | 2 | 17 | 0 |
| FLORA DE JANEIRO | +/- Windbreaker | % Windbreaker | | | | | | | | |
| CDC Ray | 9 | 126 | 1 | 378 | 4 | 38 | 60 | 2 | 13 | 0 |
| MAYOCOBA (YELLOW) | +/- Windbreaker | % Windbreaker | | | | | | | | |
| CDC Sunburst | -4 | 100 | 1 | 415 | 2 | 39 | 92 | 2 | 13 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| Nugget | 3 | 83 | 1 | 477 | 3 | 45 | 90 | 2 | 12 | 0 |
| Claim Jumper | 9 | 82 | 1 | 416 | 3 | 41 | 90 | 2 | 10 | 0 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Windbreaker | 95 DTM | 2648 lbs/ac | 57 site-years | | | | | | | |
| PINK | +/- Floyd | % Floyd | | | | | | | | |
| Floyd | 0 | 100 | 27 | 340 | 4 | 46 | 63 | 3 | 42 | 0 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Floyd | 92 DTM | 2400 lbs/ac | 27 site-years | | | | | | | |
| GREAT NORTHERN | +/- Pink Panther | % Pink Panther | | | | | | | | |
| Andromeda | -4 | 123 | 4 | 294 | 4 | 39 | 80 | 2 | 8 | 0 |
| Aries | 0 | 135 | 14 | 345 | 3 | 55 | 89 | 3 | 20 | 0 |
| Virgo | 6 | 139 | 4 | 355 | 3 | 54 | 93 | 1 | 8 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| 14164 | -2 | 129 | 4 | 376 | 3 | 43 | 88 | 2 | 7 | 0 |
| Powderhorn | -3 | 133 | 8 | 363 | 3 | 47 | 84 | 3 | 25 | 3 |
| DARK RED KIDNEY | +/- Pink Panther | % Pink Panther | | | | | | | | |
| Red Hawk | 4 | 65 | 15 | 525 | 2 | 36 | 86 | 3 | 28 | 0 |
| Montcalm | 6 | 81 | 5 | 460 | 2 | 47 | 86 | 4 | 32 | 0 |
| Dynasty | 7 | 100 | 7 | 469 | 3 | 57 | 88 | 3 | 17 | 0 |
| Gallantry | 11 | 125 | 1 | 479 | 2 | 53 | 92 | 2 | 13 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| 14164 | -2 | 129 | 4 | 376 | 3 | 43 | 88 | 2 | 7 | 0 |
| LIGHT RED KIDNEY | +/- Pink Panther | % Pink Panther | | | | | | | | |
| Big Red | 0 | 99 | 24 | 503 | 2 | 45 | 86 | 3 | 27 | 0 |
| Pink Panther | 0 | 100 | 57 | 487 | 2 | 48 | 92 | 3 | 22 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| Red Dawn | -9 | 99 | 8 | 511 | 1 | 48 | 84 | 3 | 23 | 0 |
| WHITE KIDNEY | +/- Pink Panther | % Pink Panther | | | | | | | | |
| Yeti | 9 | 109 | 1 | 450 | 2 | 52 | 95 | 1 | 10 | 0 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Pink Panther | 99 DTM | 1973 lbs/ac | 56 site-years | | | | | | | |
| CRANBERRY | +/- Etna | % Etna | | | | | | | | |
| OAC Racer | -1 | 111 | 4 | 451 | 1 | 46 | 89 | 3 | 21 | 0 |
| Etna | 0 | 100 | 59 | 463 | 1 | 45 | 89 | 3 | 24 | 0 |
| OAC Candycane | 5 | 129 | 4 | 460 | 1 | 50 | 92 | 2 | 11 | 0 |
| AAC Scotty | 5 | 111 | 14 | 526 | 1 | 41 | 85 | 3 | 26 | 0 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | | | | | |
| SV3709GC | -4 | 109 | 6 | 568 | 1 | 39 | 87 | 4 | 47 | 0 |
| Amaranto | -3 | 101 | 3 | 459 | 1 | 47 | 87 | 3 | 30 | 0 |
| CR10875 | -1 | 92 | 2 | 524 | 1 | 37 | 90 | 3 | 43 | 0 |
| Krimson | -1 | 102 | 22 | 482 | 4 | 38 | 79 | 3 | 25 | 0 |
| AGT01 | 1 | 76 | 3 | 499 | 1 | 44 | 82 | 3 | 33 | 0 |
| CHECK CHARACTERISTICS | | | | | | | | | | |
| Etna | 100 DTM | 1752 lbs/ac | 59 site-years | | | | | | | |

This long-term data is based on results from wide-row trials. † The 2021 Morden wide-row trial was not included in the long-term average days to maturity. * Indicates a variety that is protected by, or has been applied for and pending, Plant Breeder's Rights legislation that complies with UPOV 1991 ** Indicates a variety that is protected by Plant Breeder's Rights legislation that complies with UPOV 1978.

DRY BEANS ♦ YIELDS BY LOCATION ♦ WIDE ROW

| Market Class/ Variety | DTM +/- Check | 2021 Yield % Check | |
|---|---------------------|--------------------|-----|
| | | Carman | |
| NAVY | +/- T9905 | % T9905 | |
| Valiant | -6 | 105 | |
| AAC Shock | -3 | 90 | |
| Indi | -3 | 95 | |
| HMS Victory | -2 | 114 | |
| Rogue | -2 | 93 | |
| AAC Argosy | 0 | 113 | |
| Armada | 0 | 131 | |
| T9905 | 0 | 100 | |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | |
| HMS Victory | -2 | 114 | |
| CHECK CHARACTERISTICS | | | |
| T9905 | 102 | 1769 | |
| | DTM | | |
| | | CV % | 8.5 |
| | | LSD % | 15 |
| | | Sign. Diff. | yes |
| | Seeding Date | May 31 | |
| | Harvest Date | Sep 28 | |
| BLACK | +/- Eclipse | % Eclipse | |
| CDC Blackstrap* | -5 | 90 | |
| Ace | -1 | 99 | |
| CDC Jet | -1 | 102 | |
| CDC Superjet | -1 | 96 | |
| Eclipse** | 0 | 100 | |
| Black Tails | 0 | 106 | |
| CHECK CHARACTERISTICS | | | |
| Eclipse | 97 | 1856 | |
| | DTM | lbs/ac | |
| | | CV % | 8.5 |
| | | LSD % | 14 |
| | | Sign. Diff. | yes |
| | Seeding Date | May 31 | |
| | Harvest Date | Sep 28 | |
| PINTO | +/- of Windbreaker | % of Windbreaker | |
| CDC WM-3* | -3 | 82 | |
| SV6139GR* | -2 | 113 | |
| Vibrant | -1 | 108 | |
| Windbreaker | 0 | 100 | |
| Gleam | 3 | 112 | |
| Cowboy* | 3 | 115 | |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | |
| 20-241 | -3 | 91 | |
| 20-262 | 1 | 85 | |
| Mystic | 2 | 110 | |
| 20-310 | 3 | 107 | |
| ND Palomino* | 5 | 98 | |
| FLORA DE JANEIRO | +/- Windbreaker | % Windbreaker | |
| CDC Ray | 9 | 126 | |

| Market Class/ Variety | DTM +/- Check | 2021 Yield % Check | |
|---|---------------------|--------------------|------|
| | | Carman | |
| MAYOCOBA (YELLOW) | +/- Windbreaker | % Windbreaker | |
| CDC Sunburst | -4 | 100 | |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | |
| Nugget | 3 | 83 | |
| Claim Jumper | 9 | 82 | |
| CHECK CHARACTERISTICS | | | |
| Windbreaker | 95 | 2118 | |
| | DTM | lbs/ac | |
| | | CV % | 12.0 |
| | | LSD % | 20 |
| | | Sign. Diff. | yes |
| | Seeding Date | May 31 | |
| | Harvest Date | Sep 28 | |
| GREAT NORTHERN | +/- Pink Panther | % Pink Panther | |
| Andromeda | -4 | 127 | |
| Aries | 0 | 137 | |
| Virgo | 6 | 152 | |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | |
| 14164 | -2 | 130 | |
| DARK RED KIDNEY | +/- Pink Panther | % Pink Panther | |
| Dynasty | 7 | 128 | |
| Gallantry | 11 | 125 | |
| LIGHT RED KIDNEY | +/- Pink Panther | % Pink Panther | |
| Pink Panther | 0 | 100 | |
| WHITE KIDNEY | +/- Pink Panther | % Pink Panther | |
| Yeti | 9 | 109 | |
| CHECK CHARACTERISTICS | | | |
| Pink Panther | 99 | 1527 | |
| | DTM | lbs/ac | |
| | | CV % | 11.5 |
| | | LSD % | 22 |
| | | Sign. Diff. | yes |
| | Seeding Date | May 31 | |
| | Harvest Date | Sep 28 | |
| CRANBERRY | +/- Etna | % Etna | |
| OAC Racer | -1 | 113 | |
| Etna | 0 | 100 | |
| OAC Candycane | 5 | 109 | |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | |
| Krimson | -1 | 101 | |
| CHECK CHARACTERISTICS | | | |
| Etna | 100 | 1346 | |
| | DTM | lbs/ac | |
| | | CV % | 11.5 |
| | | LSD % | 25 |
| | | Sign. Diff. | yes |
| | Seeding Date | May 31 | |
| | Harvest Date | Sep 28 | |

* 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

| Market Class/ Variety | DTM +/- Check | Yield % Check | Site-Years Tested | 2021 Yield % Check | | |
|---|--------------------|------------------|-------------------|--------------------|------------------|--------|
| | | | | Melita | Portage | Souris |
| NAVY | +/- CDC Blackstrap | % CDC Blackstrap | | | % CDC Blackstrap | |
| OAC Fusion | 2 | 93 | 3 | 80 | 101 | 100 |
| AAC Shock | 6 | 86 | 13 | 85 | 122 | 89 |
| Indi | 6 | 92 | 10 | 78 | 108 | 86 |
| AAC Argosy | 8 | 88 | 8 | 65 | 109 | 88 |
| Rogue | 8 | 98 | 3 | 81 | 109 | 107 |
| Armada | 9 | 84 | 3 | 70 | 111 | 85 |
| T9905 | 9 | 86 | 15 | 70 | 100 | 97 |
| BLACK | +/- CDC Blackstrap | % CDC Blackstrap | | | % CDC Blackstrap | |
| CDC Blackstrap* | 0 | 100 | 26 | 100 | 100 | 100 |
| CDC Superjet | 4 | 95 | 26 | 83 | 115 | 95 |
| Eclipse** | 4 | 100 | 14 | 81 | 118 | 101 |
| Black Tails | 5 | 110 | 5 | 88 | 133 | 111 |
| CDC Jet | 5 | 88 | 26 | 83 | 119 | 97 |
| CHECK CHARACTERISTICS | | | | | | |
| CDC Blackstrap | 95 | 2704 | 26 | 2278 | 1149 | 2946 |
| | DTM | lbs/ac | site-years | | lbs/ac | |
| | | | CV % | 6.5 | 11.8 | 6.3 |
| | | | LSD % | 9 | 22 | 10 |
| | | | Sign. Diff. | yes | yes | yes |
| | | | Seeding Date | May 17 | May 28 | May 31 |
| | | | Harvest Date | Aug 31 | Sep 21 | Sep 28 |
| PINTO | +/- Windbreaker | % Windbreaker | | | % Windbreaker | |
| CDC WM-3* | -3 | 88 | 3 | 98 | 72 | 89 |
| SV6139GR* | -1 | 109 | 11 | 121 | 106 | 101 |
| Windbreaker | 0 | 100 | 18 | 100 | 100 | 100 |
| Varieties that are registered in the US or being tested or proposed for registration in Canada | | | | | | |
| ND Palomino | 3 | 102 | 6 | 94 | 103 | 73 |
| CHECK CHARACTERISTICS | | | | | | |
| Windbreaker | 100 | 2462 | 18 | 1866 | 1277 | 3610 |
| | DTM | lbs/ac | site-years | | lbs/ac | |
| | | | CV % | 6.5 | 11.8 | 6.3 |
| | | | LSD % | 11 | 20 | 9 |
| | | | Sign. Diff. | yes | yes | yes |
| | | | Seeding Date | May 17 | May 28 | May 31 |
| | | | Harvest Date | Aug 31 | Sep 21 | Sep 28 |

* 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.

MPSG is proud to support the pulse and soybean variety evaluation trials.

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