2018 PULSE AND SOYBEAN VARIETY GUIDE



The independent evaluation of soybean, dry bean, field pea and lentil varieties found within this publication were made possible by your continued support through the 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.

Lentil and field pea variety evaluations were coordinated with the Saskatchewan Regional Variety Testing Program. Lentil, field pea and faba bean variety evaluations were conducted by MCVET and partially sponsored by Manitoba Pulse & Soybean Growers.

SOYBEANS

Roundup Ready soybean varieties were evaluated at 15 locations in 2017, reported by eastern and western Manitoba. In eastern Manitoba, there are short-, midand long-season location categories. Long-season sites included Morden and Rosebank, which tested late- and midseason varieties. Mid-season sites included Morris, St. Adolphe, Carman and Portage la Prairie. These sites are also referred to as core sites due to testing of all varieties at these locations.

Short-season sites included Arborg, Beausejour and Stonewall, which tested early- and mid-season varieties. In western Manitoba, sites included Carberry, Dauphin, Hamiota, Melita and Swan River. Conventional (non-GM) soybean varieties were tested at all sites in eastern Manitoba and at Melita and Carberry.

This publication features the results from MPSG-sponsored trials.

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

DRY BEANS

Variety evaluations were conducted under wide- (>60 cm) and narrow-row (<40 cm) trials, and are reported separately in this guide.

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

Narrow-row trials were conducted at five locations, including Carberry, Melita, Minto, Morden, Portage la Prairie and Stonewall. Dry bean varieties are also reported by market class – navy, black, pinto, yellow, pink, Great Northern, light red kidney, dark red kidney, white kidney, cranberry and Flora de Janeiro.

LENTILS

Trials were located at two sites in Manitoba – Hamiota and Melita. Lentil varieties are reported by extra small green, small green, medium green, large green, Spanish brown, French green, green cotyledon, extra small red, small red and large red market classes.

FIELD PEAS

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

FABA BEANS

Trials were conducted at two locations in Manitoba – Roblin and Stonewall. Unfortunately, 2018 growing conditions resulted in unsuitable faba bean data.

USING THIS GUIDE

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

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

Statistical yield differences can be evaluated using only single-site year data, found in all *Yields by Location* tables. To compare yields, look at the least significant difference (LSD) value at the bottom of these tables. The LSD value represents the yield quantity (%) by which two varieties must differ, to conclude with 95% confidence that a true yield difference exists due to genetics.

For more information on how to use these tables, refer to the general and crop-specific keys.

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, 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.

 $TKW\ (g/1000\ seeds)$ – The thousand kernel 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

Coefficient of Variation (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.

Least Significant Difference (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.

Significant Difference (Sign. Diff.) – Yes = at least one variety is significantly different from another within one site No = varieties are not significantly different within one site

1:2,200,000 Manitoba Soybean Maturity Zones (A guideline for choosing varieties) ALONSA CARBERRY MCCREARY RANDON

Map Elements



Rural Municipalities

Prov/Nat. Parks

Maturity Zones



Long Μid

Maturity Grouping 00.2-00.3 00.4-00.6 <00.2 2250-2400 110-118 2401-2550 119-125 (days) >2550 <2250 룽 Maturity Zone V. Early Fong Ρįς

May 15 - Sept 20) and average frost-free period Normal Data for cumulative Com Heat Units (CHU, This map is based on 1981-2010 Climate (FFP, days Tmin $> 0^{\circ}$ C). The map outlines the longest maturity suggested for each production area, but earlier varieties can Soybean Variety Guide, which outlines varieties also perform well. Use in conjunction with the according to maturity zones.



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Key for Soybean Variety Tables

Manitoba Variety 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, 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.

Type

RR1 = Roundup Ready 1 soybeans with glyphosate herbicide tolerance R2Y = Genuity® Roundup Ready 2 Yield® soybeans with glyphosate herbicide tolerance

 $R2X = Roundup \, Ready \, 2 \, Xtend^{\circledast}$ 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 for the check variety is found in the shaded area at the bottom of the table. Average days to maturity is calculated from three previous years. Maturity can vary by year, which is why it is important to use long-term data for variety selection.

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).

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

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

Iron Deficiency Chlorosis (IDC) Rating & Grouping – The IDC rating at the V2 to V3 (2nd to 3rd trifoliate) stage on a scale of one to five for soybeans. Ratings are conducted over three to five weeks, or until the symptoms dissipate. The greater the value, the more severe and persistent the IDC symptoms. Lower IDC ratings perform better on soils prone to IDC. Ratings are reported as the three-year average from one site near Winnipeg that is prone to IDC. Each variety is also given an IDC grouping to indicate the overall level of tolerance.

IDC Ratings

1 = green leaves4 = brown dead tissue2 = yellowish leavesbetween green veins3 = green veins with5 = severe chlorosis andyellow leavesa stunted growing point

IDC Groupings

T = tolerant ST = semi-tolerant S = susceptible

SCN – Variety resistance to soybean cyst nematode (SCN). Cases of SCN have been confirmed in the United States near the border with Canada. No confirmed cases of SCN have been reported yet in Manitoba.

PRR – Phytophthora root rot (PRR) resistance genes for each variety. Resistance genes that correspond with the four most prevalent races of PRR in Manitoba are listed in Table 2. For example, resistance genes 1a, 1c and 1k are effective against Race 25, the most prevalent PRR race identified in Manitoba, according to Agriculture and Agri-Food Canada research.

Table 2. Soybean resistance genes currently available in Manitoba for control of Phytophthora root rot.

Race of		Soybea	ın Resistanc	e Gene	
P. sojae	1a	1c	1k	3a	6
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: Manitoba Agriculture



IDC Rating 1



IDC Rating 1.7



IDC Rating 2.1



IDC Rating 2.5



IDC Rating 3.5



IDC Rating 4.0

ROUNDUP READY SOYBEANS • VARIETY DESCRIPTIONS

Maturity Type	Manitoba								IDC		
THE99000 SEZNN	Maturity	Variety	Tyne						Groupina	SCN	PRR
S0007-BYX	20	•								Yes	1c,1l
S0009-M2										-	1c
Very Early		NocomaR2		-9	95	12	BL		ST	-	1c
Season										-	6
PS 00078 XRN R2X										-	_
Duyor RZX											1k
NSC Watson RRTY	Zone										1c 1k
S0009-D6		,								- -	6
Devo REX										_	-
RX00218 RZX -6 90 6 BR 1.9 ST - TOTO RIZ RZY -5 96 23 BL 1.6 T T - TOTO RIZ RZY -5 96 23 BL 2.2 ST - RX (Cedo RZX -5 97 6 IV 1.8 ST - PO02A63R RR 181 -4 101 12 TN 1.9 ST - PO15A009RZX RZX -4 98 6 BL 1.9 ST - S00313 RZY -4 97 23 BR 2.0 ST - LON RIZ RZY -4 97 23 BR 2.0 ST - LON RIZ RZY -4 97 6 IV 1.6 T - S00313 RZY -4 97 6 IV 1.6 T - S00313 RZY -4 105 30 Y 2.0 ST - LON RIZ RZX -4 105 6 BL 1.8 ST Y 2.0 ST - LON RIZ RZX -4 105 6 BL 1.8 ST Y 2.0 ST - LON RIZ RZX -4 106 6 BL 1.8 ST Y 2.0 Dineo RZX RZX -3 102 36 BL 1.7 T - DAIS RZX -3 105 6 BR 1.8 ST Y 2.0 DAIS RZX RZX -3 BB 12 BR 2.4 S - S007-X4 RZX -3 105 6 BR 1.8 ST Y 2.0 DAIS RZX RZX -3 BB 12 BR 2.4 S - S007-X4 RZX -3 105 36 IV 1.9 ST Y 2.0 S007-MA RZX -3 105 36 IV 1.9 ST Y 2.0 PO05H4R BR1 -3 99 17 BR 1.9 ST Y 2.0 PO05H4R BR1 -3 99 17 BR 1.9 ST Y 2.0 PO05H4R BR1 -3 99 17 BR 1.9 ST Y 2.0 RXX RZX -3 105 6 BR 1.8 ST Y 2.0 RXX RZX -3 105 6 BR 1.8 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 30 IV 2.0 ST Y 2.0 RXX RZX -3 105 6 BR 1.8 ST Y - RXX RZX -3 105 6 BR 1.8 ST Y - RXX RZX -3 105 6 BR 1.8 ST Y - RXX RZX -3 105 6 BR 1.1 ST Y Y 1.8 ST Y - RXX RZX -3 105 6 BR 1.1 ST Y Y 1.8 ST Y - RXX RZX -3 105 6 BR 1.1 ST Y Y 1.1 ST Y Y 1.1 ST Y X 1.1 ST Y										-	-
Notus R2 R2Y R5 R7 R1										-	1c
Torro R2										-	_
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Season										-	1k
Zone	•									-	-
P005A27X										Yes	1k
Dario R2X	Zone										-
S006-MAX											1c -
S007-Y4											- 1c
P50035 NRZ										_	1c
POOGT4GR										- - - - - - - - - - - - - - - - - - -	_
Mahony R2		P006T46R									1c
Akras R2 R2X -3 105 41 BL 1.7 T S006-W5 R2X -2 107 20 IY 2.5 S Foote R2 R2X -2 103 6 GR 1.7 T Y 1.8 ST Sunna R2X R2X -2 103 6 GR 1.7 T Y 1.8 ST Sunna R2X R2X -2 103 6 GR 1.7 T Y 1.8 ST Foote R2 R2X -1 102 50 BL 1.9 ST P007A90R RR1 -1 100 11 BL 1.8 ST Y 6 P 1.0 P 1										-	1k
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P006A37X											1c -
TH 87003 R2X R2X 0 104 12 BL 1.7 T Ye Gray R2 R2Y 0 99 37 BL 1.9 ST NSC Newton R2X R2X 0 99 12 BR 2.0 ST NSC Newton R2X R2Y 0 99 12 BR 2.0 ST B0040L1 R2Y 0 93 6 BR 1.9 ST B0040L1 R2Y 0 93 6 BR 1.9 ST B0040L1 R2Y 0 93 6 BR 1.7 T Mid- TH 37004 R2Y R2Y 0 100 17 BL 1.8 ST Season Dugaldo R2X R2X 0 98 9 IY 2.3 S Zone NSC Sperling RR2Y R2Y 0 105 6 IY 1.7 T TH 34006R2Y R2Y 1 105 20 BL 1.9 ST Dylano R2X R2X 1 90 12 GR 2.3 S PV 145008 RR2 R2Y 1 96 4 IY 1.7 T DKB005-52 R2X 1 96 4 IY 1.7 T DKB005-52 R2X 1 101 11 BL 1.9 ST DKB005-52 R2X 1 101 11 BL 1.9 ST DKB005-52 R2X 1 101 11 BL 1.9 ST Ye Barker R2X R2X 1 102 9 BL 1.8 ST Ye RX Acron R2X 1 102 9 BL 1.8 ST Ye RX Acron R2X 1 103 4 BL 1.8 ST Ye B0066L1 R2Y 1 91 4 Y 1.9 ST Ye S008-N2 R2X 2 106 10 BL 1.8 ST Ye TH 8800S R2X R2X 2 106 10 BL 1.8 ST Ye S008-N2 R2Y 2 103 13 IY 1.7 T TH 8800S R2X R2X 2 106 12 BL 2.2 ST Ye DKB006-99 R2X 2 102 4 BL 1.8 ST Ye DKB006-99 R2X 2 102 4 BL 1.8 ST Ye B00667Z1 R2Y 2 102 15 TN 1.7 T PV 165004 R2X R2X 2 96 4 BR 1.7 T Ye B00667Z1 R2Y 2 102 15 TN 1.7 T PV 165004 R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 98 6 BL 1.9 ST Ye B00667Z1 R2Y 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 98 6 BL 1.9 ST Ye											- 1c
Gray R2 R2Y 0 99 37 BL 1.9 ST NSC Newton RR2X R2X 0 99 12 BR 2.0 ST TH 33003R2Y R2Y 0 100 50 BR 1.9 ST B0040L1 R2Y 0 93 6 BR 1.7 T Mid- TH 37004 R2Y R2Y 0 100 17 BL 1.8 ST Season Dugaldo R2X R2X 0 98 9 IY 2.3 S Zone NSC Sperling RR2Y R2Y 1 105 6 IY 1.7 T TH 34006R2Y R2Y 1 105 20 BL 1.9 ST Dylano R2X R2X 1 90 12 GR 2.3 S Dylano R2X R2X 1 90 12 GR 2.3 S PV 145008 RR2 R2Y 1 96 4 IY 1.7 T LS 004XT R2X 1 95 11 BL 1.9 ST DKB005-52 R2X 1 101 11 BL 1.9 ST Y6 Barker R2X R2X 1 102 9 BL 1.8 ST Y6 RX Acron R2X 1 102 9 BL 1.8 ST Y6 RX Acron R2X 1 103 4 BL 1.8 ST Y6 TH 88008 R2X R2X 2 106 10 BL 1.8 ST Y6 S008-N2 R2Y 2 103 13 IY 1.7 T TH 88005R2XN R2X 2 100 10 BL 1.8 ST Y6 DKB006-99 R2X 2 102 4 BL 1.8 ST Y6 DKB006-99 R2X 2 102 4 BL 1.8 ST Y6 DKB006-99 R2X 2 102 4 BL 1.8 ST Y6 DKB006-99 R2X 2 102 4 BL 1.8 ST Y6 DKB006-721 R2Y 2 102 15 TN 1.7 T PV 16:004 R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 102 15 TN 1.7 T T PV 16:004 R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 102 15 TN 1.7 T T PV 16:004 R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6											1c
NSC Newton RR2X											1c
B0040L1			R2X	0	99	12	BR	2.0	ST	_	_
Mid-Season TH 37004 R2Y R2Y 0 100 17 BL 1.8 ST		TH 33003R2Y							ST	-	1c
Season Dugaldo R2X R2X 0 98 9 IY 2.3 S											-
Zone NSC Sperling RR2Y R2Y 0 105 6 IY 1.7 T											1c
TH 34006R2Y R2Y 1 105 20 BL 1.9 ST — Dylano R2X R2X 1 90 12 GR 2.3 S — PV 145008 RR2 R2Y 1 96 4 IY 1.7 T — LS 004XT R2X 1 95 11 BL 1.9 ST — DKB005-52 R2X 1 101 11 BL 1.9 ST Y6 Barker R2X R2X 1 102 9 BL 1.8 ST Y6 RX Acron R2X 1 103 4 BL 1.8 ST Y6 RX Acron R2X 1 91 4 Y 1.9 ST Y6 TH 88008 R2X R2X 2 106 10 BL 1.8 ST Y6 S008-N2 R2Y 2 103 13 IY 1.7 T — TH 88005R2XN R2X 2 100 10 BL 1.8 ST Y6 DKB006-99 R2X 2 100 10 BL 1.8 ST Y6 LS Eclipse R2X 2 106 12 BL 2.2 ST Y6 P00A49X R2X 2 96 4 BR 1.7 T Y6 B0067Z1 R2Y 2 102 15 TN 1.7 T — PV 165004 R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6		3									1c,1a
Dylano R2X R2X 1 90 12 GR 2.3 S PV 14s008 RR2 R2Y 1 96 4 IY 1.7 T LS 004XT R2X 1 95 11 BL 1.9 ST DKB005-52 R2X 1 101 11 BL 1.9 ST Ye Barker R2X R2X 1 102 9 BL 1.8 ST Ye RX Acron R2X 1 103 4 BL 1.8 ST Ye B0066L1 R2Y 1 91 4 Y 1.9 ST Ye TH 88008 R2X R2X 2 106 10 BL 1.8 ST Ye S008-N2 R2Y 2 103 13 IY 1.7 T - T - T Ye 1.9 ST Ye Ye 1.0 B	∠one										1a 1c
PV 14s008 RR2 R2Y 1 96 4 IY 1.7 T — LS 004XT R2X 1 95 11 BL 1.9 ST — DKB005-52 R2X 1 101 11 BL 1.9 ST Ye Barker R2X R2X 1 102 9 BL 1.8 ST Ye RX Acron R2X 1 103 4 BL 1.8 ST — B0066L1 R2Y 1 91 4 Y 1.9 ST Ye TH 88008 R2X R2X 2 106 10 BL 1.8 ST Ye S008-N2 R2Y 2 103 13 IY 1.7 T — TH 88006 R2X R2X 2 100 10 BL 1.8 ST Ye DKB006-99 R2X 2 100 10 BL 1.8 ST Ye DKB006-99 R2X 2 100 10 BL 1.8 ST Ye DKB006-99 R2X 2 102 4 BL 1.8 ST Ye DKB006-99 R2X 2 106 12 BL 2.2 ST Ye DKB006-71 R2Y 2 106 12 BL 2.2 ST Ye DKB006-71 R2Y 2 106 12 BL 2.2 ST Ye DKB006-71 R2Y 2 106 12 BL 2.2 ST Ye DKB006-71 R2Y 2 102 15 TN 1.7 T — PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST TENT											1c,6
LS 004XT R2X 1 95 11 BL 1.9 ST — DKB005-52 R2X 1 101 11 BL 1.9 ST Y6 Barker R2X R2X 1 102 9 BL 1.8 ST Y6 RX Acron R2X 1 103 4 BL 1.8 ST — B0066L1 R2Y 1 91 4 Y 1.9 ST Y6 TH 88008 R2X R2X 2 106 10 BL 1.8 ST Y6 S008-N2 R2Y 2 103 13 IY 1.7 T — TH 88005R2XN R2X 2 100 10 BL 1.8 ST Y6 DKB006-99 R2X 2 100 10 BL 1.8 ST Y6 LS Eclipse R2X 2 100 10 BL 1.8 ST Y6 LS Eclipse R2X 2 106 12 BL 2.2 ST Y6 P00A49X R2X 2 96 4 BR 1.7 T Y6 B0067Z1 R2Y 2 102 15 TN 1.7 T — PV 165004 R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST T		•									-
Barker R2X R2X 1 102 9 BL 1.8 ST Ye RX Acron R2X 1 103 4 BL 1.8 ST B0066L1 R2Y 1 91 4 Y 1.9 ST Ye TH 88008 R2X R2X 2 106 10 BL 1.8 ST Ye S008-N2 R2Y 2 103 13 IY 1.7 T - TH 88005R2XN R2X 2 100 10 BL 1.8 ST Ye DKB006-99 R2X 2 102 4 BL 1.8 ST Ye LS Eclipse R2X 2 106 12 BL 1.8 ST Ye P00A49X R2X 2 96 4 BR 1.7 T - B0067Z1 R2Y 2 102 15 TN 1.7 T											_
RX Acron R2X 1 103 4 BL 1.8 ST B0066L1 R2Y 1 91 4 Y 1.9 ST Y6 TH 88008 R2X R2X 2 106 10 BL 1.8 ST Y6 S008-N2 R2Y 2 103 13 IY 1.7 T TH 88005R2XN R2X 2 100 10 BL 1.8 ST Y6 DKB006-99 R2X 2 100 10 BL 1.8 ST Y6 LS Eclipse R2X 2 102 4 BL 1.8 ST Y6 LS Eclipse R2X 2 106 12 BL 2.2 ST Y6 P00A49X R2X 2 106 12 BL 2.2 ST Y6 B0067Z1 R2Y 2 102 15 TN 1.7 T Y6 B0067Z1 R2Y 2 102 15 TN 1.7 T PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST T										Yes	1c
B0066L1 R2Y 1 91 4 Y 1.9 ST Ye TH 88008 R2X R2X 2 106 10 BL 1.8 ST Ye S008-N2 R2Y 2 103 13 IY 1.7 T - TH 88005R2NN R2X 2 100 10 BL 1.8 ST Ye DKB006-99 R2X 2 102 4 BL 1.8 ST Ye LS Eclipse R2X 2 106 12 BL 2.2 ST Ye P00A49X R2X 2 96 4 BR 1.7 T Ye B0067Z1 R2Y 2 102 15 TN 1.7 T - PV 16s004 R2X R2X 2 98 6 BL 1.9 ST - TH 88007R2X R2X 2 103 10 BL 1.9 ST											1k
TH 88008 R2X R2X 2 106 10 BL 1.8 ST Y6 S008-N2 R2Y 2 103 13 IY 1.7 T — TH 88005R2XN R2X 2 100 10 BL 1.8 ST Y6 DKB006-99 R2X 2 102 4 BL 1.8 ST Y6 LS Eclipse R2X 2 106 12 BL 2.2 ST Y6 P00A49X R2X 2 96 4 BR 1.7 T Y6 B0067Z1 R2Y 2 102 15 TN 1.7 T Y6 PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST Y6 TH 88007R2X R2X 2 103 10 BL 1.9 ST —											-
S008-N2 R2Y 2 103 13 IY 1.7 T TH 88005R2XN R2X 2 100 10 BL 1.8 ST Ye DKB006-99 R2X 2 102 4 BL 1.8 ST Ye LS Eclipse R2X 2 106 12 BL 2.2 ST Ye P00A49X R2X 2 96 4 BR 1.7 T Ye B0067Z1 R2Y 2 102 15 TN 1.7 T - PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST -										Yes	1k
TH 88005R2XN R2X 2 100 10 BL 1.8 ST Ye DKB006-99 R2X 2 102 4 BL 1.8 ST Ye LS Eclipse R2X 2 106 12 BL 2.2 ST Ye P00A49X R2X 2 96 4 BR 1.7 T Ye B0067Z1 R2Y 2 102 15 TN 1.7 T - PV 16s004R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST -										Yes –	1k -
DKB006-99 R2X 2 102 4 BL 1.8 ST Ye LS Eclipse R2X 2 106 12 BL 2.2 ST Ye P00A49X R2X 2 96 4 BR 1.7 T Ye B0067Z1 R2Y 2 102 15 TN 1.7 T - PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST -										- Yes	- 1c
LS Eclipse R2X 2 106 12 BL 2.2 ST Ye P00A49X R2X 2 96 4 BR 1.7 T Ye B0067Z1 R2Y 2 102 15 TN 1.7 T - PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST -										Yes	3a
P00A49X R2X 2 96 4 BR 1.7 T Ye B0067Z1 R2Y 2 102 15 TN 1.7 T - PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST -										Yes	1c
PV 16s004 R2X R2X 2 98 6 BL 1.9 ST Ye TH 88007R2X R2X 2 103 10 BL 1.9 ST -		•		2						Yes	1c
TH 88007R2X R2X 2 103 10 BL 1.9 ST -										-	-
										Yes	1k
CK CHARACTERISTICS		TH 88007R2X	R2X	2	103	10	BL	1.9	ST	-	1c
	CK CHARACTE	RISTICS									
TH 33003R2Y 117 50 50		TH 33003R2Y		117	50	50					

 $^{^\}dagger \text{Maturity ratings were averaged across the past three years at core sites only, including Carman, Morris, Portage and St. Adolphe.}$

site years

ROUNDUP READY SOYBEANS • VARIETY DESCRIPTIONS continued

Manitoba							I	DC		
Maturity Zone	Variety	Туре	Average DTM +/- Check†	Yield % Check	Site Years Tested	Hilum Colour	Rating (1–5)	Grouping	SCN	PRR
	LS 006XT	R2X	3	99	9	BL	1.7	T	-	-
	RX00797	R2X	3	99	9	BL	1.7	T	Yes	1c
	LS 007XT	R2X	3	109	4	BL	1.9	ST	Yes	1c
	NSC Starbuck RRX2	R2X	3	101	12	BL	1.9	ST	Yes	1c
	NSC Greenridge RR2Y	R2Y	3	102	4	GR	1.8	ST	Yes	1c,3a
	PV 12s007 R2X	R2X	3	103	11	BL	1.8	ST	-	-
	NSC Jordan RR2Y	R2Y	3	105	8	BL	2.1	ST	-	1c
	DKB007-67	R2X	3	103	4	BL	1.7	T	Yes	3a
	PRO 2525R2	R2Y	3	106	26	BL	1.7	T	Yes	-
	PV 10s005 RR2	R2Y	3	108	11	BL	1.8	ST	-	-
	PS 0074 R2	R2Y	3	107	28	BR	1.7	T	-	-
Long-	DKB006-29	R2X	3	102	9	BL	1.6	T	-	1k
Season	NSC Winkler RR2X	R2X	4	106	4	BL	1.8	ST	Yes	1c
Zone	LS Mistral	R2Y	4	110	14	BL	1.7	T	-	1c
Zone	Domingo R2X	R2X	5	97	9	IY	1.8	ST	-	1a,6
	PRO 03X74	R2X	5	107	4	BR	1.8	ST	-	1c
	Astro R2	R2Y	5	109	30	BL	1.7	T	-	1k
	Hydra R2	R2Y	5	103	16	BL	2.1	ST	-	-
	PRO 2535R2	R2Y	6	108	16	BL	1.7	T	Yes	1k
	Vidar R2X	R2X	7	100	6	BL	1.8	ST	Yes	1c
	Woden R2X	R2X	9	114	4	BL	1.7	T	Yes	1k
	RX0247	R2X	12	104	3	BL	1.6	Т	Yes	1c
	PRO 2625 R2	R2Y	13	105	4	BL	1.7	T	Yes	-
	Experimental lines that are	e being tested	I/proposed for reg		anada					
	CFS18.08 R2D	R2X	5	103	4	BL	2.0	ST	-	-
	EXP00918XR	R2X	3	108	4	BL	1.8	ST	-	1k
HECK CHARACTE	ERISTICS									
	TH 33003R2Y		117	50	50					
			DTM	bu/ac	site years					

 $^{^\}dagger \textit{Maturity ratings were averaged across the past three years at core sites only, including Carman, \textit{Morris, Portage and St. Adolphe.}$

ROUNDUP READY SOYBEANS * YIELDS BY LOCATION * EASTERN MANITOBA

					2018 Yield	d % Check		
Manitoba			Earl	y Sites		Core	Sites	
Maturity Zone	Variety	Average DTM +/- Check†	Arborg	Stonewall	Carman	Morris	Portage	St. Adolphe
	TH890005 R2XN	-12	87	80	83	90	83	97
	S0007-B7X	-10	91	83	97	86	87	89
	NocomaR2	-9	92	94	104	94	99	92
	S0009-M2	-9	87	104	88	81	93	96
Very Early-	PS 00095 R2	-8	105	103	96	78	105	82
Season	P002A19X	-8	93	92	100	96	100	88
Zone	PS 00078 XRN	-8	91	91	87	100	96	104
	Dayo R2X	-8	89	75	109	94	90	94
	NSC Watson RR2Y	-8	87	79	94	79	87	90
	S0009-D6	-7	112	92	98	94	101	96
	Devo R2X	-7	100	97	98	94	95	96
	PV 11s001 RR2	-6	102	93	84	95	90	93
	RX00218	-6	98	98	80	79	97	95
	Notus R2	-6	112	79	96	97	104	109
	Torro R2	-5	106	103	97	100	108	101
	RX Cedo	-5	104	82	84	104	101	98
	P002A63R	-4	111	87	107	100	100	99
	PV 15s0009 R2X	-4	100	94	106	87	98	100
	S003-L3	-4	113	113	100	98	104	95
	Lono R2	-4	107	118	93	102	111	110
Early-	Dinero R2X	-4	97	97	106	91	104	86
Season	LS 001XT	-4	105	101	106	104	114	98
Zone	23-60RY	-3	116	102	105	94	98	97
Zone	P005A27X	-3	111	114	109	97	103	102
	Dario R2X	-3	87	82	92	85	87	90
	S006-M4X	-3	93	93	99	87	107	99
	S007-Y4	-3	116	111	101	89	111	108
	PS 0035 NR2	-3	102	103	99	96	106	105
	P006T46R	-3	103	98	107	84	112	96
	Prince R2X	-3	100	66	95	92	97	88
	Mahony R2	-3	111	109	102	92	102	100
	Akras R2	-3	130	118	105	85	108	104

2018 Yield % Check

						8 Yield % Check				
Manitoba		- -	Early	y Sites		Core	Sites			
Maturity Zone	Variety	Average DTM +/- Check†	Arborg	Stonewall	Carman	Morris	Portage	St. Adolp		
	S006-W5	-2	99	99	90	94	95	97		
	Foote R2	-2	103	102	94	81	106	90		
	Sunna R2X TH 33005R2Y	-2	105 119	98	98	106	108	99		
	24-10RY	-2 -1	119	112 95	86 113	86 83	110 105	95 90		
	P007A90R	-1 -1	117	88	97	82	106	99		
	PS 0044 XRN	-1	93	97	105	85	100	88		
	LS Solaire	-1	115	93	102	100	105	95		
	Bourke R2X	-1	111	109	114	98	105	102		
	PS 0068 XR	-1	_	-	99	102	111	98		
	DKB003-29	-1	98	118	110	88	100	101		
	P006A37X	-1	98	113	109	96	112	110		
	TH 87003 R2X	0	95	104	103	93	107	98		
	Gray R2	0	-	_	99	85	102	95		
	NSC Newton RR2X	0	96	102	83	102	102	93		
	TH 33003R2Y	0	100	100	100	100	100	100		
Mid-	B0040L1	0	92	86	94	96	94	91		
Season	TH 37004 R2Y	0 0	110	98	107	97	108	93		
Zone	Dugaldo R2X NSC Sperling RR2Y	0	- 105	- 121	100 90	89 98	105 127	100 104		
20	TH 34006R2Y	1	105	-	109	96	113	94		
	Dylano R2X	1	- 89	- 85	87	90 97	95	88		
	PV 14s008 RR2	1	-	-	105	77	112	88		
	LS 004XT	1	98	98	88	78	104	86		
	DKB005-52	1	90	94	99	96	94	92		
	Barker R2X	1	-	-	110	81	113	95		
	RX Acron	1	_	_	104	95	108	104		
	B0067Z1	1		_	100	96	120	92		
	TH 88008 R2X	2	~ - A	-	105	120	109	104		
	S008-N2	2	B-1		97	88	112	100		
	TH 88005R2XN	2			107	86	99	106		
	DKB006-99	2	<i>-</i>	- -	105	107	97	94		
	LS Eclipse	2	-	-	106	84	111	106		
	P00A49X	2	_	-	84	86	124	90		
	B0066L1	2	_	, t	78	90	109	92		
	PV 16s004 R2X TH 88007R2X	2 2	105	113	103 95	80 98	102 107	94 100		
	LS 006XT	3	$\overline{}$		110	86	107	93		
	RX00797	3			90	93	94	99		
	LS 007XT	3	$\sim 1/N$	_	110	106	112	107		
	NSC Starbuck RRX2	3	103	79	103	100	105	85		
	NSC Greenridge RR2Y	3	_	-	101	106	101	100		
	PV 12s007 R2X	3	106	107	101	98	104	104		
	NSC Jordan RR2Y	3	_	_	117	85	113	93		
	DKB007-67	3	-	-	108	97	104	100		
	PRO 2525R2	3	-	-	109	90	106	95		
	PV 10s005 RR2	3	115	120	103	101	128	98		
	PS 0074 R2	3	-	-	102	99	124	99		
Long-	DKB006-29	3	-	-	100	94	107	102		
Season	NSC Winkler RR2X	4	-	-	111	93	120	100		
Zone	LS Mistral	4	-	-	113	82	115	105		
	Domingo R2X	5	-	-	104	92	102	89		
	PRO 03X74	5	-	-	110	97	125	92		
	Astro R2	5	-	-	101	108	116	104		
	Hydra R2	5	-		110 116	83	107 106	95 101		
	PRO 2535R2 Vidar R2X	6 7	- 105	- 92	116 108	92 99	106 103	101 84		
	Woden R2X	9	105	92	131	99 102	116	100		
	RX0247	12	-	_	111	94	106	-		
	PRO 2625 R2	13	_	_	126	101	106	75		
	Experimental lines that are		sed for registrati	on in Canada	.=.					
	CFS18.08 R2D	5	-	_	91	100	122	101		
	EXP00918XR	3	-	-	116	99	113	100		
CK CHARACTI										
	TH 33003R2Y	117	49	20	56	50	45	32		
	111 33003R2 I	-	49	20			43	32		
		DTM				/ac				
		CV %	9	12	13	8	7	8		
		LSD %	15	18	20	12	12	13		
		Sign. Diff.	Yes	Yes	Yes	Yes	Yes	Yes		
		Seeding Date	May 22	May 27	May 25	May 16	May 25	May 12		
		Harvest Date	Oct 12	Oct 12	Oct 1	Oct 2	Oct 9	Sep 12		

 $^{^\}dagger \text{Maturity ratings were averaged across the past three years at core sites only, including Carman, Morris, Portage and St. Adolphe.}$

ROUNDUP READY SOYBEANS • YIELDS BY LOCATION • WESTERN MANITOBA

						201	18 Yield % Ch	eck		I	DC		
Manitoba Maturity		Average DTM	Yield %	Site Years						Rating			
Zone	Variety	+/- Check†	Check	Tested	Carberry	Dauphin	Hamiota	Melita	Swan River‡	(1–5)	Grouping	SCN	PR
v = 1	NSC Leroy RR2Y	-7	84	15	95	83	88	89	86	2.2	ST	-	-
Very Early- Season	NocomaR2 S0009-M2	-3 -2	96 99	10 20	84 90	88 88	91 96	111 109	96 100	2.1 2.0	ST ST	_	10 6
Zone	S0009-W2 S0009-D6	-2 -2	96	10	98	105	100	109	115	2.3	S S	_	_
	NSC Watson RR2Y	-2	97	20	95	91	91	95	117	2.1	ST	_	6
	PS 00095 R2	-1	98	15	101	106	105	112	117	1.7	Т	-	_
	TH890005 R2XN	-1	83	5	76	82	77	91	89	1.8	ST	Yes	1c,
	TH 87000 R2X	-1	87	10	81	104	87	88	92	1.8	ST	-	-
	DKB0005-44	0	92	5	99	88	88	95	91	1.7	T	Yes	1
	RX00218	0	104	5	88	120	105	94	105	1.9	ST	-	-
	Barron R2X P002A63R	0	94 103	10 10	94 103	108 106	90 102	93 99	101 107	2.5 1.9	S ST	_	1
	NSC Reston RR2Y	0	100	30	100	100	102	100	107	2.6	S S	_	1
	LS TRI7XT	0	88	10	83	98	78	82	83	2.3	S	_	
	Dario R2X	0	89	10	88	101	85	85	88	2.4	S	_	_
	PV 17s0007 R2X	1	87	5	93	90	72	106	83	1.7	Т	Yes	11
	LS TRI9R2Y	1	91	10	83	82	85	92	96	2.3	S	-	-
	PV 11s001 RR2	1	90	10	92	90	82	97	87	1.8	ST	-	10
	RX Cedo	1	101	5	99	103	98	95	104	1.8	ST	-	-
Facility	22-60RY	1	97 104	24 15	92 101	109	83	101	100	2.1	ST	Yes	1
Early- Season	S003-L3 Torro R2	1 2	104 98	15 10	101 101	97 97	97 94	107 99	121 94	2.0 2.2	ST ST	_	-
Season Zone	PS 00078 XRN	2	98 94	10 5	101 84	97 92	94 88	99 104	94 102	2.2	ST ST	- Yes	1
20110	P002A19X	2	93	5	92	94	93	91	93	1.6	J1	103	1
	RX000918	3	95	5	101	83	91	87	107	-	-	Yes	1
	23-60RY	3	104	29	112	93	91	98	95	1.7	Т	_	-
	NSC Melfort RR2X	3	92	5	91	87	85	89	102	1.9	ST	Yes	11
	S006-W5	3	105	14	104	100	93	104		2.5	S	-	1a,
	Lassa R2X	3	91	5	92	87	91	101	89	2.1	ST	Yes	10
	Notus R2	3	99	14	99	96	103	104	103	1.6	T	-	10
	McLeod R2	3 4	104 102	29 4	96 107	90	92 90	96 110	-	1.8 1.9	ST ST	- Yes	1.
	PV 15s0009 R2X LS 001XT	4	102	5	114	105 126	95	93	- 96	1.8	ST	Yes	1d 1l
	TH 87003 R2X	4	105	9	101	100	98	91	-	1.7	T	Yes	10
	P005A27X	4	107	5	117	110	102	97	107	1.8	ST	_	10
	Mahony R2	4	106	23	100	95	108	103	-	2.9	S	-	_
	PS 0044 XRN	4	99	10	102	106	98	83	91	1.9	ST	Yes	1a,
	Kosmo R2	4	94	9	101	99	101	85	-	1.9	ST	_	
	LS TRI8XT	5	96	5	87	104	90	95	102	-	- -	Yes	10
	DKB0009-89	5	98 107	5	100	108	99 100	93 103	92 103	1.7	T T	Yes	1c,
	Akras R2 Sunna R2X	5 5	107	24 4	104 112	107 117	109 88	93	103	1.7 1.7	T	– Yes	1 1
	Foote R2	5	103	9	107	108	97	93 81	_	1.7	ST	-	10
	P006T46R	5	102	15	96	110	99	100	104	1.9	ST	_	1
	DKB003-29	5	98	9	98	102	99	92	-	1.7	T	Yes	-
	Dylano R2X	5	93	9	98	114	88	79	-	2.3	S	-	10
	PS 0035 NR2	5	104	29	112	107	104	96	111	1.9	ST	Yes	-
Mid-	S007-Y4	5	108	25	98	104	100	99	102	2.0	ST	-	1
Season	NSC Newton RR2X	5	90	9	96	92	88	93	-	2.0	ST	-	-
Zone	Prince R2X	5	93	4	88	105	86	93	-	1.8	ST	-	1
	TH 33003R2Y Dugaldo R2X	5 6	103 98	29 4	118 101	102 104	90 98	96 85	-	1.9 2.3	ST S	_	1 1c,1
	NSC Redvers RR2X	6	98 89	4	94	81	98 85	85 100	_	2.3 1.9	S ST	_	10,1
	P006A37X	6	114	4	110	127	112	100	_	1.8	ST	_	1
	TH 37004 R2Y	6	104	14	99	103	89	89	_	1.8	ST	_	1
	LS Solaire	6	104	14	91	114	106	93	_	2.3	S	Yes	1c,
	PV 16s004 R2X	7	98	4	103	98	103	82	-	1.9	ST	Yes	1
	PV 10s005 RR2	7	108	9	106	120	92	100	-	1.8	ST	-	-
	DKB005-52	8	105	4	112	118	92	98	-	1.9	ST	Yes	1
	B0067Z1	8	99	9	99	100	102	89	-	1.7	Т		
CK CHARACT													
	NSC Reston RR2Y	119	51	30	36	40	44	26	55				
		DTM	bu/ac	site years			bu/ac						
				CV %	9	10	5	8	5				
				LSD %	14	16	8	13	9				
				Sign. Diff.	Yes	Yes	Yes	Yes	Yes				
			See	eding Date	May 22	May 20	May 23	May 23	May 22				
					,	,	23						

[†] Maturity ratings were averaged across the past three years at Carberry, Dauphin, Hamiota and Melita sites only.

‡ Varieties

CONVENTIONAL SOYBEANS • VARIETY DESCRIPTIONS

Manitoba							DC
Maturity Zone	Variety	Average DTM +/-Check†	Yield % Check	Site Years Tested	Hilum Colour	Rating (1–5)	Grouping
	AAC Edward	-5	104	35	IY	1.8	ST
	Fjord	-5	96	6	IY	2.0	ST
E. J.	ÁAC Halli	-2	101	28	Υ	2.3	S
Early-	Experimental lines that are be	ing tested/proposed	for registration in C	anada			
Season	CFS 18.60	-6	106	6	-	1.6	Т
Zone	SVX17T000S1	-5	96	9	IY	2.1	ST
	OT 16-01	-3	108	13	IY	-	-
	CMSB13-ME	-2	101	6	LB	-	-
	OAC Prudence	0	100	125	Υ	1.6	Т
	Maxus	0	97	12	IY	2.1	ST
	OAC Carman	0	109	22	IY	1.8	ST
Mid-	Experimental lines that are be	ing tested/proposed					
Season	PR110524Z023	-1	106	12	IY	1.7	T
Zone	OT 18-09	-1	114	6	Υ	-	-
Zone	OT 16-02	-1	112	13	Υ	2.3	S
	SVX17T00S15	0	114	6	IY	2.1	ST
	CMSB13-SP	0	105	6	Υ	-	-
	SC10-11.97	2	112	6	Υ	-	-
	OAC Morden	3	106	36	Υ	2.0	ST
	Kebek	4	100	6	Υ	1.7	Т
	Meteor	6	100	6	IY	2.4	S
	DH401	6	99	6	IY	2.3	S
	Opus	6	103	12	IY	2.2	ST
	DH863	7	95	18	IY	2.2	ST
	Jari	9	108	22	IY	2.0	ST
	Astor	12	116	6	IY	1.6	T
	Panorama	14	113	6	Υ	1.9	ST
	Experimental lines that are be					O	_
	SVX17T0S12	3	114	6	IY "'	1.7	T
Long-	SVX16T00S2	3	111	15	IY	2.3	S
Season	OT 16-06	4	122	12	Y	2.4	S
Zone	OT 18-10	6	109	6	Y		-
	OT 18-13	6	111	6	Y	-	-
	OT 18-01	6	122	6	Y	-	-
	OT 18-02	7 7	121 102	6	Y	-	- CT
	CFS18.1.01	7		6	Y Y	2.0	ST
	OT 18-12 OT 18-11		122 112	6	Y Y	-	_
	OT 18-11 OT15-02	8 8		6 16	Y IY	-	- S
	OT 15-02 OT 18-14		117	6	IY Y	2.5	5
	OT 18-14 OT 18-03	8 8	135	6	Υ Υ		
	OAC 11-02C	8 12	116 110	17	Y Y	- 1.8	- ST
ECK CHARACT		12	110	- 17		1.0	31
ECK CHARACT	OAC Prudence	115	48	125			
	OAC Fludelice	DTM	bu/ac				
		DIM	Du/ac	site years			

[†] Maturity ratings were averaged across the past three years at core sites only, including Carman, Morris, Portage and St. Adolphe.



Research Report Database

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Project details and results available at manitobapulse.ca

CONVENTIONAL SOYBEANS ◆ YIELDS BY LOCATION ◆ EASTERN MANITOBA

2018 Yield % Check **Early Sites** Core Sites Late Sites Manitoba Average DTM Maturity +/- Check† Zone Variety Arborg Stonewall Carman Morris Portage St. Adolphe Morden Rosebank AAC Edward -5 -5 Fjord ÁAC Halli -2 Early-Experimental lines that are being tested/proposed for registration in Canada Season CFS 18.60 -6 Zone SVX17T000S1 -5 -3 OT 16-01 CMSB13-ME -2 **OAC Prudence** Maxus OAC Carman Experimental lines that are being tested/proposed for registration in Canada Mid-PR110524Z023 -1 Season OT 18-09 -1 Zone OT 16-02 -1 SVX17T00S15 CMSB13-SP SC10-11.97 OAC Morden Kebek Meteor DH401 Opus DH863 Jari Astor Panorama Experimental lines that are being tested/proposed for registration in Canada SVX17T0S12 Long-SVX16T00S2 Season OT 16-06 Zone OT 18-10 OT 18-13 OT 18-01 OT 18-02 CFS18.1.01 OT 18-12 OT 18-11 OT15-02 OT 18-14 OT 18-03 OAC 11-020 **CHECK CHARACTERISTICS OAC Prudence** DTM bu/ac CV% LSD % Sign. Diff. Yes Yes Yes Yes Yes Yes Yes Yes Seeding Date May 16 May 27 May 25 May 16 May 25 May 12 May 17 May 17 **Harvest Date** Oct 10 Oct 12 Oct 01 Oct 02 Oct 10 Sep 12 Sep 05 Sep 18

CONVENTIONAL SOYBEANS * YIELDS BY LOCATION * WESTERN MANITOBA

Manitoba					2018 Yield	l % Check	
Maturity Zone	Variety	Average DTM +/- Check†	Yield % Check	Site Years Tested	Carberry	Melita	– Hilum Colour
Early-Season Zone	Alaska	-2	90	2	87	92	IY
	OAC Prudence	0	100	5	100	100	Y
Mid-	Maxus	4	94	2	86	101	IY
	Experimental lines that ar	e being tested/proposed for	or registration in	Canada			
Season	CMSB13-ME	1	100	2	93	107	LB
Zone	CMSB13-SP	1	96	2	94	98	Υ
	PR110524Z023	0	117	3	110	109	IY
CHECK CHARACTERI	STICS						
	OAC Prudence	112	36	5	33	26	
		DTM	bu/ac	site years	bu/	ac	_
				CV %	6	8	
				LSD %	10	15	
				Sign. Diff	Yes	No	
•				Seeding Date	May 22	May 23	•
				Harvest Date	Oct 12	Sep 27	

 $^{^\}dagger$ Maturity ratings were averaged across the past three years at Carberry and Melita only.

[†] Maturity ratings were averaged across the past three years at core sites only, including Carman, Morris, Portage and St. Adolphe.

Key for Lentil Variety Table

CL – Clearfield lentil varieties are tolerant to the herbicide Odyssey (imazamox + imazethapyr). These varieties are identified by "CL" at the end of the name. Anthracnose Race 1 – The resistance rating of lentil varieties to anthracnose Race 1 (Ct1). There are no available varieties with resistance to Race 2 (Ct0).

Cotyledon Colour – Green lentils have a yellow cotyledon; red lentils have a red cotyledon.

							CATION		
						Resista	nce Level	2018 Yield	I % Check
Market Class/Variety	Maturity Rating†	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Cotyledon Colour	Ascochyta Blight	Anthracnose Race 1	Hamiota	Melita
EXTRA SMALL GRE	EN								
CDC Asterix	early	94	9	26	yellow	G	F	107	97
SMALL GREEN									
CDC Imvincible CL	early	83	18	35	yellow	G	G	109	101
CDC Kermit	early/medium	105	2	34	yellow	G	G	110	98
MEDIUM GREEN									
CDC Imigreen CL	medium	63	11	63	yellow	G	F	-	_
LARGE GREEN									
CDC Greenland	medium/late	63	10	64	yellow	G	VP	_	_
CDC Greenstar	medium/late	91	7	73	yellow	G	F	93	88
CDC Impower CL	medium	69	12	74	yellow	G	P	68	95
SPANISH BROWN									
CDC SB-3 CL	early	75	2	38	yellow	F	G	70	80
FRENCH GREEN			<i>x</i> 0						
CDC Peridot CL	early	78	11	40	yellow	G	Р	_	_
CDC Marble	early/medium	103	9	32	yellow	F	G	103	90
GREEN COTYLEDOI	- 1/ /	100)eo.r				
CDC QG-2	early/medium	85	7	33	green	F	G	94	94
CDC QG-3 CL	early/medium	84	2	46	green	· F	G	82	85
EXTRA SMALL RED		04	2	10	gicen	'	<u> </u>	02	
CDC Rosebud	early	87	10	29	red	G	G		
CDC Rosie	early/medium	87	6	30		G	G	_	_
	•				red			_	_
CDC Ruby	early	92	2	29	red	G	G	-	-
CDC Roxy	early/medium	96	2	32	red	G	G	96	95
SMALL RED				2-		-	_	22	
CDC Dazil CL	early/medium	96	10	35	red	G	F	82	106
CDC Imax CL	medium	84	18	50	red	G	G	98	108
CDC Maxim CL	early/medium	100	20	40	red	G	G	100	100
CDC Proclaim CL	early/medium	103	4	40	red	G	G	108	110
CDC Redmoon	early/medium	108	4	41	red	G	G	111	96
CDC Scarlet	early/medium	103	9	36	red	G	F	103	94
CDC Impulse CL	early/medium	106	3	44	red	G	G	107	98
LARGE RED									
CDC-KR I	medium	79	12	56	red	G	G	-	-
CDC KR2 CL	medium	104	3	55	red	G	G	107	104
CHECK CHARACTE	RISTICS								
CDC Maxim		3175	20				_	3183	2866
		lbs/ac	site years					lbs	
							CV %	10	5
							LSD %	17	8
							Sign. Diff.	Yes	Yes
							Seeding Date	May 5	May

[†] Maturity ratings were determined under Saskatchewan growing conditions.

Harvest Date

Aug 16

Aug 9

Key for Field Pea Variety Tables

Relative Vine Length

S = short M = medium L = 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.

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

_		DEAC . I	<i>U A</i> DIETV 1	DECCDI	TIANC
- 6	1 1 1 1 1 1 1 1	PEAS 🔸 '	VARIETY [DEXCRI	
		ILAJ	V / I I I I I I I I I I I I I I I I I I	JEJENII	

									Resist	ance Level			
Market Class/Variety	Maturity Rating	Yield % Check	Site Years Tested	Relative Vine Length	TKW (g/1000 seeds)	Green Seed Coats	Seed Coat Breakage	Seed Coat Dimpling	Bleaching	Lodging	Powdery Mildew	Mycosphaerella Blight	Fusarium Wilt
YELLOW													
AAC Ardill	medium	99	22	М	240	n/a	G	n/a	n/a	G	VG	F	G
AAC Asher	medium	104	6	S	260	n/a	n/a	n/a	n/a	G	VG	F	F
AAC Carver	medium	108	16	L	240	n/a	G	n/a	n/a	G	VG	F	F
AAC Chrome	medium	112	12	М	240	n/a	n/a	n/a	n/a	G	VG	F	F
AAC Lacombe	medium	103	20	L	270	F	G	G	n/a	G	VG	F	F
Abarth	early	101	10	М	280	G	F	G	n/a	VG	VG	F	F
Agassiz	medium	102	59	M	230	G	G	F	n/a	G	VG	F	F
CDC Amarillo	medium	103	22	M	230	G	F	F	n/a	VG	VG	F	G
CDC Athabasca	medium	97	6	L	300	G	F	F	n/a	VG	VG	F	G
CDC Canary	early	96	6	L	230	F	G	F	n/a	VG	VG	F	F
CDC Golden	medium	93	64	М	230	G	G	G	n/a	G	VG	F	S
CDC Inca	medium	107	20	L	230	F	G	G	n/a	G	VG	F	F
CDC Lewochko	medium	107	6	D	230	G	G	G	n/a	VG	VG	F	F
CDC Meadow	early	100	72	М	220	G	G	G	n/a	G	VG	F	F
CDC Saffron	medium	101	36	М	250	G	G	F	n/a	G	VG	F	F
CDC Spectrum	medium	97	6	L	240	G	G	G	n/a	VG	G	F	F
Experimental lines	that are be	ing teste	d/propose	d for regis	tration in	Canada							
AAC Profit	medium	104	6	М	230	n/a	n/a	n/a	n/a	G	VG	F	F
Hyline	early	101	6	М	240	G	G	G	n/a	G	VG	F	F
GREEN													
AAC Comfort	medium	96	11	М	260	n/a	n/a	n/a	G	G	VG	F	F
CDC Forest	medium	107	6	L	230	n/a	G	G	G	G	VG	F	F
CDC Greenwater	late	99	21	М	220	n/a	VG	G	G	G	VG	F	G
CDC Limerick	late	99	21	М	210	n/a	VG	G	G	VG	VG	F	F
CDC Spruce	medium	97	6	L	240	n/a	F	F	G	G	VG	F	F
CDC Striker	medium	90	76	М	230	n/a	VG	G	G	VG	Р	F	G
COOPER	late	95	47	М	270	n/a	F	G	G	G	VG	F	F
MAPLE													
AAC Liscard	medium	92	11	М	180	n/a	n/a	n/a	n/a	G	VG	F	n/a
CHECK CHARACTE	RISTICS												
CDC Meadow	95	73	72	34									
	DTM	bu/ac	site years	inches									

FIELD PEAS ◆ YIELDS BY LOCATION

2018 Yield % Check

Market Class/Variety	Boissevain	Hamiota	Melita	Morden	Portage	Swan River
YELLOW						
AAC Ardill	103	93	104	104	106	106
AAC Asher	110	98	101	122	120	115
AAC Carver	105	92	110	107	122	117
AAC Chrome	126	111	116	133	132	118
AAC Lacombe	109	85	107	114	109	109
Agassiz	136	97	98	113	109	113
CDC Amarillo	112	89	109	97	110	107
CDC Athabasca	103	73	97	108	105	115
CDC Canary	104	98	101	103	104	107
CDC Golden	113	95	93	104	96	105
CDC Inca	104	82	111	110	118	122
CDC Lewochko	126	97	113	121	119	118
CDC Meadow	100	100	100	100	100	100
CDC Saffron	108	81	107	108	105	109
CDC Spectrum	109	85	108	110	105	114
Experimental lines that ar	e being tested/pro	posed for registration	in Canada			
AAC Profit	112	96	111	124	119	115
Hyline	116	92	104	106	107	105
GREEN						
AAC Comfort	99	84	103	112	109	108
CDC Forest	123	102	106	114	119	123
CDC Greenwater	108	98	106	107	109	113
CDC Limerick	108	95	106	108	103	105
CDC Spruce	110	89	108	111	110	104
CDC Striker	90	75	98	92	90	103
MAPLE						
AAC Liscard	103	80	108	103	97	103
CHECK CHARACTERISTICS			CB	9		
CDC Meadow	48	72	62	64	82	82
			bu	/ac		
CV %	6	6	7	5	4	4
LSD %	11	9	11	9	7	8
Sign. Diff.	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	May 9	May 5	May 1	May 7	May 16	May 15
Harvest Date	Aug 23	Aug 23	Aug 7	Aug 21	Aug 22	Aug 31

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 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 (R8).

DRY BEANS • VARIETY DESCRIPTIONS

Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Lodging (1–5)	Plant Height (cm)	Pod Height (% > 5 cm)	CBB Severity (0–5)	CBB Incidence (%)	WM Incidence (%)
•			Testeu	Jecusy	(1 3)	(ciii)	(70 > 3 Cili)	(0 3)	(70)	(70)
NAVY Envoy	+/- of T9905 -5	% of T9905 74	30	192	2	32	76	2	20	0
•	-5 -5	91	30	200	1	45	94	2	20	0
Portage AAC Shock	-5 -4	99	30 4	200	1	45 51	94 92	2	24	0
Cargo	-4	80	24	197	2	42	93	2	31	0
Indi	-3	100	22	184	1	55	94	2	18	0
AAC Argosy	-2	103	8	216	2	53	94	2	23	0
Bolt	-2	92	15	213	1	50	93	2	21	0
Nautica	-1	90	14	169	1	51	95	2	27	0
T9905	0	100	30	203	1	50	94	2	18	0
CHECK CHARACTER										
T9905	102	2401	30							
	DTM	lbs/ac	site years							
BLACK	+/- Eclipse	% Eclipse								
CDC Blackstrap	-5	89	13	231	1	41	93	2	15	0
CDC Jet	-1	88	39	207	1	47	95	2	19	0
CDC Superjet	-1	87	27	211	2	49	96	2	19	0
Eclipse	0	100	39	189	1	52	94	3	24	0
Zenith	4	98	4	197	1	51	93	3	34	0
Zorro	4	90	4	188	1	50	92	3	33	0
Varieties that are re	gistered in the US	or being tested or	proposed for	registratio	n in Canada					
13505	0	99	8	182	1	55	94	2	28	0
GTS1103	2	94	12	200	2	49	94	2	10	0
CHECK CHARACTER		77	12	200	-	17	21		10	
Eclipse	98	2475	39							
LCIIpse	DTM	lbs/ac	site years							
DINITO			site years							
PINTO	+/- of Windbreaker	% of Windbreaker	11	200		52	06	2	40	0
Vibrant	-2	104	11	308	2	53	86	3	40	0
Windbreaker	0	100	50	339	3	52	80	3	31	0
La Paz	5	96	15	305	2	57	79	3	36	0
YELLOW	+/- of Windbreaker	% of Windbreaker								
CDC Sol	2	77	26	365	1	45	80	3	46	0
Varieties that are re	gistered in the US o	or being tested or	proposed for	registratio	n in Canada					
YE4607	-1	59	1	430	2	45	76	3	48	0
PINK	+/- of Windbreaker	% of Windbreaker								
Floyd	-4	89	25	298	4	45	64	3	50	0
CHECK CHARACTER	ISTICS									
Windbreaker	96	2671	50							
	DTM	lbs/ac	site years							
GREAT NORTHERN	+/- of Pink Panther	% of Pink Panther								
Varieties that are re			proposed for	registratio	n in Canada					
14164	-3	129	3	389	2	52	89	2	31	0
13151	-2	122	3	416	2	48	87	3	32	2
Beryl R	-2	112	32	407	4	42	78	2	33	2
Powderhorn	-2	137	6	347	2	53	89	3	27	3
13172	-2 -1	136	3	353	2	55 51	92	3	26	4
			J	223	2	וכ	74	3	20	4
LIGHT RED KIDNEY		% of Pink Panther	10	F00	4	40	00	2	30	^
Big Red	0	100	19	500	1	49	90	3	39	0
_					_					
Pink Panther	0	100	51	486	1	49	89	3	50	0
_		% of Pink Panther	51		1			3	50	
Pink Panther	0		51 3	539	2	61	89	3	34	0

continued >

DRY BEANS . VARIETY	Y DESCRIPTIONS contin	lued								
Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Lodging (1–5)	Plant Height (cm)	Pod Height (% > 5 cm)	CBB Severity (0-5)	CBB Incidence (%)	WM Incidence (%)
WHITE KIDNEY	+/- of Pink Panther	% of Pink Panther								
Varieties that are re	egistered in the US o	or being tested or	proposed for	registratio	n in Canada					
COB-228-03	5	56	3	415	1	43	84	3	48	0
CHECK CHARACTER	RISTICS									
Pink Panther	100	1979	51							
	DTM	lbs/ac	site years							
CRANBERRY	+/- of Etna	% of Etna								
Etna	-2	100	53	501	1	45	83	3	43	0
AAC Scotty	5	112	12	463	1	45	85	3	25	0
Varieties that are re	egistered in the US o	or being tested or	proposed for	registratio	n in Canada					
Krimson	0	101	16	508	2	47	83	3	33	0
Vero	0	89	3	440	1	48	83	3	48	0
CHECK CHARACTER	RISTICS									
Etna	100	1752	53							
	DTM	lbs/ac	site years							

	DRY BEANS • YIELDS BY LOCATION • WIDE ROW							
				2018 Yield % Check				
Market Class/ Variety	DTM +/- Check	Carman	Morden	Portage	Winkler			
NAVY	+/- of T9905			T9905				
Envoy	-5	113	89	77	88			
Portage	-5	99	110	91	99			
AAC Shock	-4	102	96	108	94			
Cargo	-4	115	88	79	75			
ndi	-3	101	114	101	101			
AAC Argosy	-2	109	120	103	105			
Bolt	-2	107	97	96	94			
Nautica	-1	83	97	88	83			
Г9905	0	100	100	100	100			
CHECK CHARACTERISTI	cs							
Г9905	102	1771	2201	2239	3272			
	DTM		lbs/ac					
	CV %	8	8	10	9			
	LSD %	13	14	15	14			
	Sign. Diff.	Yes	Yes	Yes	Yes			
	Seeding Date	May 29	May 30	May 23	May 30			
	Harvest Date	Sep 6	Sep 5	Oct 11	Sep 10			
BLACK	+/- of Eclipse		% of	Eclipse				
CDC Blackstrap	-5	98	96	115	116			
CDC Super Jet	-1	91	91	108	102			
CDC Jet	-1	80	76	100	98			
Eclipse	0	100	100	100	100			
Zorro	4	107	78	76	101			
Zenith	4	107	91	81	109			
/arieties that are regist	ered in the US or being tested	or proposed for regist	ration in Canada					
13505	0	94	89	108	105			
GTS-1103	2	91	83	80	92			
CHECK CHARACTERISTI	CS							
Eclipse	98	1871	2518	1935	2827			
•	DTM		lbs	s/ac				
	CV %	8	8	10	9			
	LSD %	12	13	18	16			
	Sign. Diff.	Yes	Yes	Yes	Yes			
	Seeding Date	May 29	May 30	May 23	May 30			
	Harvest Date	Sep 6	Sep 5	Oct 11	Sep 10			

			2018 Yield	1% Check	
Market Class/ Variety	DTM +/- Check	Carman	Morden	Portage	Winkler
PINTO	+/- of Windbreaker		% of Win	dbreaker	
Vibrant	-2	107	=	=	-
Windbreaker	0	100	=	=	-
La Paz	5	101	-	-	-
YELLOW	+/- of Windbreaker		% of Win	dbreaker	
CDC Sol	2	54	=	=	-
Varieties that are registere	ed in the US or being tested	or proposed for regi	stration in Canada		-
YE4607	-1	59	_	_	-
PINK	+/- of Windbreaker		% of Win	dbreaker	
Floyd	-4	85	=	=	_
CHECK CHARACTERISTICS					
Windbreaker	96	1926	-	-	-
	DTM		lbs/	/ac	
	CV %	11	_	_	_
	LSD %	17	=	_	_
	Sign. Diff.	Yes	_	_	
	-		May 30	May 23	 May 30
	Seeding Date	May 29	May 30	May 23	•
COPATALOGRAPHICS	Harvest Date	Sep 6	Sep 5	Oct 11	Sep 10
GREAT NORTHERN	+/- of Pink Panther		% of Pink	Panther	
	ed in the US or being tested				
14164	-3	120	134	-0	131
13151	-2	105	117		139
Beryl R	-2	114	116		137
Powderhorn	-2	128	115		154
13172	-1	127	130		147
LIGHT RED KIDNEY	+/- of Pink Panther		% of Pink	Panther	
Pink Panther	0	100	100	-	100
Big Red	0	92	90	-	99
DARK RED KIDNEY	+/- of Pink Panther		% of Pink	Panther	
Dynasty	7	128	88	-	99
Montcalm	7	89	63	-	83
WHITE KIDNEY	+/- of Pink Panther	$-0/\Lambda_{\Lambda}$	% of Pink	Panther	
Varieties that are registere	ed in the US or being tested	or proposed for regi			
COB-228-03	5	58	55	-	56
CHECK CHARACTERISTICS					
Pink Panther	100	1735	1880	_	2252
	DTM		lbs	/ac	
	CV %	8	9	_	12
	LSD %	14	13	•	21
				_	
	Sign. Diff.	Yes	Yes		Yes
	Seeding Date	May 29	May 30	May 23	May 30
	Harvest Date	Sep 6	Sep 5	Oct 11	Sep 10
CRANBERRY	+/- of Etna		% of	Etna	
Etna	-2	100	100	-	100
AAC Scotty	5	97	113	-	104
Varieties that are registere	ed in the US or being tested	/proposed for regist	ration in Canada		
Krimson	0	106	112	-	107
Vero	0	89	90		88
CHECK CHARACTERISTICS					
Etna	100	1678	1362	-	2026
	DTM		lbs	/ac	
	CV %	8	9	_	12
	LSD %	15	18	_	24
	Sign. Diff.	Yes	Yes		Yes
				- A4 22	
	Caracillar as 🗢 🔸				
	Seeding Date Harvest Date	May 29 Sep 6	May 30 Sep 5	May 23 Oct 11	May 30 Sep 10

DRY BEANS ◆ YIELDS BY LOCATION ◆ NARROW ROW

				2018 Y	íield % Check
Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	Melita	Stonewall
NAVY	+/- of Envoy	% of Envoy		%	of Envoy
Envoy	0	100	51	100	100
Portage	1	101	18	119	93
AAC Shock	2	119	5	118	120
Blizzard	2	112	2	89	143
Cargo	2	87	7	93	92
Indi	2	105	2	94	121
Bolt	3	106	9	106	113
AAC Argosy	4	114	2	102	131
T9905	5	109	7	98	121
Nautica	6	113	4	90	111
Varieties that are registered	d in the US or being te	sted or proposed for registi	ation in Canada		
3458-7	-4	107	15	116	77
NA08077	0	99	2	89	114
BLACK	+/- of Envoy	% of Envoy	-		of Envoy
CDC Blackstrap	-1	127	18	153	104
CDC Jet	1	109	42	103	105
CDC SuperJet	2	117	21	116	94
Zenith	3	92	2	85	102
Zorro	3	87	2	89	85
Eclipse	4	123	6	103	131
CHECK CHARACTERISTICS	<u> </u>	123	0	103	131
Envoy	100	1942	51	1151	829
Livoy	DTM	lbs/ac	site years		lbs/ac
	11/1		CV %	9	10
			LSD %	16	17
			Sign. Diff.	Yes	Yes
			Seeding Date	May 10	May 27
			Harvest Date	Aug 30	Oct 12
PINTO	+/- of CDC Pintium	% of CDC Pintium		% of	CDC Pintium
CDC Pintium	0	100	51	100	100
CDC WM-2	2	115	23	111	77
Medicine Hat	2	113	15	130	130
Windbreaker	3	128	10	139	107
Varieties that are registered	d in the US or being te	sted or proposed for registi	ration in Canada		
NN11-2	0	120	2	134	98
YELLOW	+/- of CDC Pintium	+/- of CDC Pintium		% of	CDC Pintium
CDC Sol	4	98	7	125	76
Varieties that are registered	d in the US or being te	sted or proposed for registi	ation in Canada		
4510-3-1	3	100	2	108	88
CRANBERRY	+/- of CDC Pintium	+/- of CDC Pintium		% of	CDC Pintium
Varieties that are registered			ation in Canada		
7ab-3bola-3	6	83	5	83	76
FLORA DE JANEIRO	+/- of CDC Pintium	% of CDC Pintium		% of	CDC Pintium
CDC Ray	6	108	5	127	101
CHECK CHARACTERISTICS					
CDC Pintium	96	2079	51	1115	755
	DTM	lbs/ac	site years		lbs/ac
			CV %	9	10
			LSD %	17	18
			Sign. Diff.	Yes	Yes
			Seeding Date	May 10	May 27
			Harvest Date	Aug 30	Oct 12