

THE INDEPENDENT EVALUATION of

varieties across the five different crop types (soybeans, dry beans, field peas, faba beans and lentils) found within this publication were made possible by your continued support through MPSG's 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.

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, and 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 Boissevain, Carberry, Dauphin, Hamiota, Melita and Roblin. Conventional (non-GM) soybean varieties were tested at all sites in eastern Manitoba and at Melita and Carberry.

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.

PULSES

Dry bean 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 Boissevain, Carberry, Melita, Morden and Portage la Prairie. Dry bean varieties are also reported by market class – navy, black, pinto, pink, yellow, cranberry, light red kidney and Great Northern.

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.

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

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

Faba bean trials were conducted at two locations in Manitoba – Roblin and Arborg. Faba bean varieties are reported by coloured flower (tannins) and white flower (zero tannin) market classes.

USING THIS GUIDE

This publication features the results from MPSG-sponsored trials.

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There are two types of data tables found in this guide – *Variety Description* and *Yield by Location*. Variety description tables summarize long-term data, including maturity, yield and agronomic characteristics (e.g., disease resistance, lodging score). Yield 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 *Yield 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 cropspecific 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, Agriculture and Agri-Food Canada, the Cereal Research Centre, WADO, PCDF, PESAI, CMCDC and the private research companies that play an integral role in making this publication possible.

Key for All Variety Tables

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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.

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.

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

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, 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 Grouping – The maturity ranking provided by seed suppliers, indicating growing season length. Only triple zero (000) and double zero (00) soybean varieties are grown in Manitoba. Current varieties in Manitoba range from 000 (earliest) to 00.9 (longest).

Туре

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

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

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, which are also listed in the table. 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 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 (G), brown (BR), tan (TN), imperfect black (IB) or black (BL).

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.

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

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

Source: Agvise Laboratories

IDC Ratings

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

IDC Groupings

 $T = tolerant \quad ST = semi-tolerant \quad S = susceptible$

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 1k and 3a are effective against Race 4, the most prevalent PRR race identified in Manitoba, according to Agriculture and Agri-Food Canada research.

Table 2. The four most prevalent phytophthora races in Manitoba soils and corresponding resistance genes.								
Phytophthora Race	Resistance Gene							
4	1b, 1k*, 3a*, 6*							
25	3a*, 6*							
28	1c*, 1d, 3a*, 6*							
3	1b, 1c*, 1d, 1k*, 3a*, 6*							

*Resistance genes available in commercial soybean varieties in Manitoba.



ROUNDUP READY SOYBEANS • VARIETY DESCRIPTIONS

											I	DC		
Manitoba	Company				DTM +/	/- Check†		Yield	Site	11:1	Dating			
	Grouping	Variety	Type	Average	2017	2016	2015	– % Check	Years Tested	HIIUM	(1_5)	Grouning	SCN	PRR
20110				12	2017	12	2015	70		V	(1-3)	cT		r nn
Very Farly-	000.9	22-60 RY	R2Y	-10	_	-10	-9	90	18	BL	2.2	ST	Yes	1c
Season	000.9	S0009-M2	R2Y	-8	-8	-9	-8	89	17	IY	2.2	ST	-	6
Zone	000.9	PS 00095 R2 NocomaR2	R2Y R2Y	-8 -7	-6 -7	-9	_	8/ 93	10	B	1./	I ST	_	_
	000.8	NSC Watson RR2Y	R2Y	-7	-5	-8	-8	88	17	IY	2.1	ST	-	-
	00.1	NSC RESTON RR2Y	R2Y	-6	-	-7	-5	92	28	BL	2.6	S	-	1k
	00.1	Notus R2	R2Y	-6	_	-7	-5	95	18	BL	1.7	T	_	1c
	00.3	McLeod R2	R2Y	-5	-	-5	-5	95	28	BL	1.8	ST	-	-
	000.9	Bishop R2	R2Y R2Y	-5 -5	-5	-4	-6	94 91	8 30	IY	2.4	S	_	IK -
	00.3	NSC Austin RR2Y	R2Y	-5	-	-4	-5	93	9	Y	2.2	ST	-	-
	000.9	LS TRI9R2Y	R2Y	-4	-4	-	-	94	6	IY	2.5	S ST	_	- 1c
	00.1	PV 11S001 RR2	R2Y	-4	-4	-	-	94	6	Y	1.8	ST	-	-
	000.7	LS TRI7XT	R2X	-4	-4	-	-	88	6	GR	2.3	S	-	-
Early-	00.5	23-60RY	R2Y	-4 -4	-2 -3	-5 -4	-5 -4	105	30	BL	2.0	T	– Yes	-
Season	00.3	S003-L3	R2Y	-4	-2	-4	-5	95	17	BR	2.2	ST	Yes	1c,1k
Zone	00.2	LS 002R24N	R2Y	-4	-	-4	-3	103	24	BL	2.0	ST	Yes	-
	000	Torro R2	R2Y	-3	-2	-5	-4	94	17	BL	2.2	ST	-	- 1c
	00.6	P006T46R	RR1	-3	-3	-4	-	99	11	BR	2.0	ST	-	1c
	00.5	Lono R2 PS 0055 R2	R2Y R2Y	-3 -3	_	-3 -2	-3 -5	105 97	24 15	Y IY	2.0	ST ST	_	1k 1k
	00.3	Mahony R2	R2Y	-3	0	-5	-5	101	24	BL	2.9	S	-	-
	000.8	Barron R2X	R2X	-3	-3	-	2	91	6	BR	2.5	S	-	- 1 c 1k
	00.5	TH 87000 R2YX	R2Y R2X	-3	-2	-3	-3	nt	nt	IY	2.5	ST	_	IC, IK
	000.9	NSC StarCity RRX2	R2X	-	-	-	-	nt	nt	BR	2.2	ST	-	-
	000.8	DKB0008-39 P0004878	R2X RR1	-	_	_	_	nt	nt	GR	2.2	ST T	_	- 1k
	00.3	Akras R2	R2Y	-2	1	-4	-4	104	35	BL	1.7	Ť	-	1k
	00.5	Foote R2	R2Y	-2	0	-4	-	99	11	IY	1.8	ST	-	1c
	00.3	DARIO R2X	R2Y R2X	-2	-2	-2		84 88	5	BR	2.8	S	_	_
	00.3	NSC Gladstone RR2Y	R2Y	-2	ī	-3	-3	100	30	BL	2.1	ST	-	1c
	00.5	24-10RY	R2Y	-2	0	-3	-2	102	44	BL	1.9	ST	– Vor	1k
	00.2	MANI R2X	R2X	-1	-1		-2	102	6	BL	1.8	ST	Yes	1c
	00.3	DKB003-29	R2X	-1	-1	-		103	6	BL	1.7	Т	Yes	-
	00.2	LS SOLAIRE P007A90R	R2Y RR1	-1	-1	-3	- 1	93 101	11	BL	2.4 1.9	S ST	– Yes	1c,1k 1c
	00.5	Gray R2	R2Y	Ŏ	0	0	-1	100	33	BL	1.9	ST	-	1c
	00.4	LS 004XT	R2X	0	0	1		98 100	5	BL	1.9	ST	-	1c
	00.0	PS 0044 XRN	R2T	ő	0		-	100	6	BL	2.0	ST	Yes	1a,1k
	00.3	TH 33003R2Y	R2Y	0	0	0	0	100	44	BR	2.0	ST	-	1c
	00.7	NSC Richer RR2Y P008T22R2	R2Y R2Y	0	2	1	-1	104	24 29	BL	1.6 1.6	T	_	1c 1c
Mid-	00.5	TAMULA R2	R2Y	1	1	Ő	-	100	11	Y	2.3	S	-	-
Season	00.4	TH 37004 R2Y	R2Y	1	1	-	-	99 109	11	BL	2.0	ST	Yes	1c
Zone	00.5	DUGALDO R2X	R2X	1	1	_	_	98	5	IY	2.3	S	_	_
	00.4	DYLANO R2X	R2X	1	1	-	-	90	6	GR	2.3	S	-	-
	00.7	NSC Riverside RR2X	R2X R2Y	1	1	-	-	98 100	5 30	BL	2.1		_	-
	00.2	MARDUK R2X	R2X	1	1	-	-	101	6	Y	2.0	st	-	1c
	00.3	NSC Newton RR2X	R2X	1	1	-	-	102	6	BR	2.1	ST	-	- 1k
	00.8	LS Eclipse	R2Y	2	_	2	1	105	24 8	BL	2.2	ST	Yes	1c
	00.5	NSC Starbuck RRX2	R2X	2	2	-	-	102	6	BL	2.0	ST	-	-
	00.6 00 7	DS0067Z1 TH 88007R2X	R2Y R2X	2	3	1	-	102 106	11 6	BI BI	1.7 2.2	Г ST	-	- 1c
	00.6	DKB006-29	R2X	2	2	-	-	103	5	BL	1.6	T	-	1k
	00.5	BARKER R2X	R2X	2	2	-	-	104	5	BL	1.8	ST	Yes	1k
	00.5	PV 12S007 R2X	R2X	2	2	_	_	100	о 5	BL	1.8 2.0	ST	res –	1C -
	00.5	DKB005-52	R2X	2	2	-	-	108	5	BL	2.0	ST	Yes	1c
	00.5	PRO 2525R2 Experimental lines the	R2Y	2 a tested/or	5 oposed f	or registra	1 tion in Ca	107 nada	22	BL	1.7	T	-	1c
	00.7	EXP00717 XRN	R2X	2	2	-	-	103	5	BL	1.9	ST	Yes	1k
	00.8	S008-N2	R2Y	3	3	2	-	105	9	IY	1.8	ST	-	-
	00.8	LO UUUX I DOMINGO R2X	R2X	3	3 3	_	_	97	5 5	BL Y	2.0	ST	_	_
	00.6	0066 XR	R2X	3	3	-	-	101	5	IY	2.4	S	-	-
Lona -	00.8	TH 88008 R2X	R2X	3	3	- 2	- 1	103	6	BL	1.8	ST T	-	1k
Season	00.7	LS MISTRAL	R2Y	3	5	2 2	-	112	24 10	BL	1.7	Ť	_	_
Zone	00.9	NSC Jordan RR2Y	R2Y	3	-	3	-	106	4	BL	2.2	ST	-	-
	0.1 00 5	HYDKA K2 PV 105005 RR2	R2Y R2Y	3	- 4	4	1	104 106	12	BL BI	2.1 1.9	SI ST	_	1k _
	00.7	RX00797	R2X	4	4	-	-	104	5	BL	1.6	T	Yes	1c
	00.8	DKB008-81	R2X	4	4	-	-	101	5	GR	1.9	ST	-	-
			ñΖλ	110	117	-	-	101	5	GK	2.1	51	-	-
	TERISTICS	11 2203821		118	11/		115	 bu/acre	44 site vears					

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

nt – Varieties were not tested in eastern Manitoba trials in 2017.

ROUNDUP READY SOYBEANS • **YIELD BY LOCATION** • **EASTERN MANITOBA**

Marticla Corport Larly Site: Corr Site: Larly Site: <thlarly site:<="" th=""> <thlar< th=""><th></th><th></th><th></th><th></th><th colspan="7">2017 Yield % Check</th></thlar<></thlarly>					2017 Yield % Check						
Multity Zate Company Prop Description (Company) Description (Company) <thdescription (Company) Description (C</thdescription 					Early	Sites		Core	Sites		Late Sites
Matering Metaling Weigeng	Manitoba	Company									
Loss Control Discription Discription <thdiscription< th=""> <thdiscription< th=""> <thdiscri< td=""><td>Maturity</td><td>Maturity</td><td>Variaty</td><td>Average DTM</td><td>Roqueoiour</td><td>Stonowall</td><td>Carman</td><td>Morris</td><td>Portago</td><td>St Adolpho</td><td>Pocobank</td></thdiscri<></thdiscription<></thdiscription<>	Maturity	Maturity	Variaty	Average DTM	Roqueoiour	Stonowall	Carman	Morris	Portago	St Adolpho	Pocobank
Wry Early Zone 0083 (008) Nocwately Not Net Wates Net Wate	20110			-8	98	86	96	80	100	84	
Share OD3 Nuccenstrat 7 88 91 97 95 89 94 2000 OD3 NUCCMARNETV 7 106 90 96 88 89 92 0000 SOUP3-5 120 81 97 98 89 0000 SOUP3-5 120 81 97 98 89 0001 PV115071 4-4 100 87 100 81 87 99 91 80 81 2000 Torrs R2 -4 100 83 99 90 810 101 101 94 100 100 104 94 100 104 108 100 90 104 101 101 101 100 90	Very Early-	000.9	PS 00095 R2	-8	95	86	100	82	100	85	-
Lank 0035 MCK Watern Ricy -7 108 90 95 85 95 92 - - 003 SUDE File -5 120 81 90 81 97 88 97 80 - 002 V02/AddR -4 100 87 910 81 97 - - 003 SUDE File -4 100 82 91 80 98 81 - 2000 1007 File -3 124 99 90 131 101 100 94 - 003 205 L2 -4 99 90 131 101 101 109 94 - 003 Mahony File -3 113 98 101 104 101 109 93 - - - - - - - - - - - - - - - - -	Season	000.8	NocomaR2	-7	89	92	97	96	89	94	-
Build of the second s	20110	000.8	NSC Watson RR2Y	-7	106	90	96	86	99	82	-
0022 0022468R -4 129 94 000 0111 95 77 - 0031 PV11501H2 -4 100 82 91 88 99 88 - 50000 003 SURV1 -4 100 82 91 88 99 88 - - 50000 003 SURV1 -4 105 88 64 108 111 91 113 113 103 -		000.9	S0009-D6 I S TRI9R2Y	-5 -4	120	81	97 102	88 81	87 97	80 86	_
On.1 PY 11500 FR2 -4 100 87 102 91 91 85 - Sation 00.3 SU2/14 -4 119 109 93 34 108 110 - 200e 00.3 SU2/14 -4 199 99 91 107 109 94 00.3 SU2/14 -3 124 99 101 100 109 00.3 Mahow, R2 -3 115 94 101 104 109 00.3 Mahow, R2 -2 121 82 100 106 109 113 98 - 00.3 Mahow, R2 -113 100 101 101 101 101 101 101 101 101 103 101 103 103 103 103 103 103 103 103 103 103 103 103 1		00.2	P002A63R	-4	129	84	90	111	95	79	-
Enror 0007 ESTRONT -4 100 B2 91 B0 00 B1 Samon 003 20074 -4 109 109 109 93 101 109 93 000 Tome 12 -3 134 99 101 110 101 94 00.6 Foren 22 -3 135 94 101 104 101 99 00.6 Baron R2X -3 115 94 101 104 101 99 00.6 DARIDEX -2 100 83 84 84 - 00.5 Forte R2 -2 118 97 119 99 100 108 67 - 00.5 Forte R2 -2 116 97 91 99 100 108 67 - - 100 100 100 100 100 <td< td=""><td></td><td>00.1</td><td>PV 11S001 RR2</td><td>-4</td><td>100</td><td>87</td><td>102</td><td>91</td><td>91</td><td>85</td><td>-</td></td<>		00.1	PV 11S001 RR2	-4	100	87	102	91	91	85	-
Statun 002 22-60P -4 109 109 812 100 115 116 Zone 003 503.13 -4 95 99 91 101 110 193 93 000 Tom R12 -3 124 99 101 110 101 94 003 Mahory R2 -3 113 104 101 104 101 99 003 Mahory R2 -3 114 80 99 101 104 103 198 003 Sole M3 -1 103 103 105 106 100 104 104 - 100 103 105 106 100 103 105 106 100 103 105 106 100 103 105 106 100 103 105 106	Farly-	000.7	LS TRI7XT	-4	100	82	91	80	90 108	81	-
20ne 003 000 500±13 memory 2 4 96 memory 2 97 memory 2 100 memory 2 110 memory 2 110 m	Season	00.5	23-60RY	-4 -4	109	99	98 102	94 110	108	106	_
000 Toro, R2 -3 124 99 101 100 101 94 0.03 Markory R2 -3 115 94 101 104 101 99 0.03 Markory R2 -3 115 94 101 104 801 99 0.03 Markory R2 -3 115 94 101 104 801 99 0.03 Markory R2 -1 105 106 109 114 105 90 100 108 105 91 103 103 103 103 103 103 103 100 100 101 118 100 100 101 118 102 89 94 101 102 92 108 94 95 104 104 104 104	Zone	00.3	S003-L3	-4	96	99	93	87	109	93	-
00.5 POOE1468 -3 105 86 104 98 111 95 00.3 Multimity -3 115 94 101 104 101 89 81 00.3 Mars R2 -2 113 106 109 87 89 81 00.3 Aras R2 -2 121 82 101 79 115 98 00.3 Aras R2 -2 115 96 108 87 100 115 107 102 99 00.3 24.10/W - 110 99 103 103 100 100 100		000	Torro R2	-3	124	99	101	110	101	94	-
codd Mathematic -3 113 90 10 104 108 97 -9 003 SOSWIG -3 113 106 113 106 109 113 - 003 Maxs R2 -2 113 106 113 106 109 113 - 000 DARLORZX -2 100 83 87 71 98 87 - 000 DARLORZX -2 115 96 108 115 107 102 99 003 MSC Glastone RRY -2 115 96 108 115 107 102 99 003 DEM03.29 -1 103 107 97 113 103 100 - 004 ESOWTA - - - 106 108 108 83 105 005 CayRa - - - 100 108 98 96 <		00.6	P006T46R	-3	105	86	104	98	111	95	-
00.5 SODE-W1 -3 140 100 119 97 109 81 - 00.3 Alkar R2 -2 113 106 103 106 109 114 - 00.5 Foole R2 -2 121 82 101 79 115 98 - 00.3 MAR R2 -2 116 97 91 99 100 108 - 00.3 24.16/Y -2 115 96 108 101 109 - 00.3 MARRZ -1 109 97 107 103 103 100 - 00.3 MARRZ -1 177 92 94 101 199 - 103 <t< td=""><td></td><td>00.3</td><td>Manony R2 Barron R2X</td><td>-3</td><td>115</td><td>94 80</td><td>90</td><td>104 84</td><td>88</td><td>99 84</td><td>_</td></t<>		00.3	Manony R2 Barron R2X	-3	115	94 80	90	104 84	88	99 84	_
00.3 Akras R2 -2 113 106 103 106 103 106 103 106 103 106 103 106 103 106 103 106 103 106 103 106 103 107 103 96 71 98 97 0001 DARIO R2X -2 115 96 108 115 107 102 99 003 MAKEAS - 103 90 103 103 103 103 103 103 100 - 100 107 107 107 89 - 100 101 118 102 89 - 100 103 <		00.5	S006-W5	-3	140	100	119	97	109	83	-
005 Foole R2 -2 121 82 101 71 98 87 - 003 DAKC Gladstom R2Y -2 116 97 91 99 100 103 - 003 24 (1917) -2 115 96 108 113 113 102 192 003 24 (1917) -2 115 97 103 104 103 99 - 002 LSOUARE -1 97 92 96 103 113 102 89 005 GryP 2 -0 - - 106 108 133 105 006 24 / 2NY -0 - - 101 108 100		00.3	Akras R2	-2	113	106	103	106	109	114	-
Mid- 005 DMINULAZ (SCHARDE RICY -2 - 2 105 (SCHARDE RICY 00 - 2 003 (SCHARDE RICY 003 (SCHARDE RICY<		00.5	Foote R2	-2	121	82	101	79	115	98	-
005 24-108' -2 115 96 108 115 107 102 99 002 MAN R2X - 110 99 103 105 106 - 003 DK8003.39 -1 103 107 97 113 103 105 106 - 007 PK07A06R -1 -7 100 101 118 102 89 006 24.15X04KT 0 -7 -106 108 103 105 96 94 - 006 24.12N' 0 -7 -7 102 98 100 110		000	NSC Gladstone BR2	-2	100	83 97	87 91	7 I 99	98 100	87 108	_
Mod. 00.3 DKR03-29 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)		00.5	24-10RY	-2	115	96	108	115	107	102	99
00.2 LISOLARE -1 07 97 113 103 107 97 113 103 109 - 00.2 FORMAR -1 100 101 118 102 89 00.4 LISOLARE -1 07 100 92 108 91 99 - 00.5 GrayR 2 0 102 92 108 91 99 00.6 24-128Y 0 102 92 108 91 99 00.6 24-128Y 0 101 104 96 95 96 00.6 24-128Y 0 101 104 96 95 96 00.8 P008122R 1 88 00.0 17 100 100 100 100 100 100 100 100 100		00.2	MANI R2X	-	110	99	103	103	105	106	-
b0.2 L3 SUDME -1 -7 -0 00 101 193 -9 -9 00.5 G0/ASR -1 - - 100 101 119 89 99 00.5 G0/ASR -0 - - 106 99 109 89 99 00.6 L4/12NY -0 - - 106 99 100 94 100 99 95 96 00.3 T13303R2Y 0 - - 101 104 99 95 96 00.3 T13003R2Y 0 100<		00.3	DKB003-29	-1	103	107	97	113	103	100	-
mdd Gray R2 0 - - 106 88 109 86 94 00.4 LS OdAT 0 - - 104 108 103 83 105 00.4 PS OdAT & RN 0 100		00.2	LS SOLAIRE P007A90R	-1	97	92	96 100	104	118	102	- 89
00.4 LS 0047T 0 - - 102 92 108 91 95 00.6 24 12FY 0 - - 104 108 103 83 105 00.3 F13303R2V 0 100		00.5	Gray R2	-0	_	_	106	88	109	86	94
00.6 2-4-12N -0 - - - 104 108 103 83 105 00.4 PS 5044 XRN -0 100 113 115 - - 7 99 105 100 114 101 100 100 100 100 114 101 100 100 100 100 100 100 100 100 100 100 100 100 100 100		00.4	LS 004XT	-0	- ^	-	102	92	108	91	95
00.4 F > 0.04 A RN -0 10 83 100 99 100 <th< td=""><td></td><td>00.6</td><td>24-12RY</td><td>-0</td><td>8-1-</td><td>-</td><td>104</td><td>108</td><td>103</td><td>83</td><td>105</td></th<>		00.6	24-12RY	-0	8-1-	-	104	108	103	83	105
Mid- 005 POBT22E2 0 C - 101 104 96 95 96 Mid- Season 003 TAMULA P2 1 88 103 1001 113 115 - Zone 003 TH 37004 R2X 1 119 105 107 113 101 97 - 2004 DUCALDO R2X 1 119 105 107 113 101 97 - 004 DUCALDO R2X 1 88 83 96 89 95 77 - 007 NSC Revetor R82X 1 116 97 102 99 91 98 - 003 NSC Newton R82X 1 120 99 95 94 102 102 - 005 RAPEK R82X 2 12 101 86 95 105 100 97 - 005 BAREER R2X 2 - - <t< td=""><td></td><td>00.4</td><td>PS 0044 XRN TH 33003R2Y</td><td>-0</td><td>100</td><td>83</td><td>105</td><td>98</td><td>100</td><td>94 100</td><td>- 100</td></t<>		00.4	PS 0044 XRN TH 33003R2Y	-0	100	83	105	98	100	94 100	- 100
Mid- Season 00.5 00.3 TAMULAR2 H 37004 R2X 1 88 103 105 101 113 115 - - Zone 00.6 DUGALDO R2X 1 119 105 107 113 101 97 - - - 00.6 DUGALDO R2X 1 188 83 96 89 95 77 - 00.7 NSC Riverside R82X 1 114 92 103 105 100 - 00.2 MARDUK R2X 1 116 97 102 99 91 98 - 00.3 NSC Starbuck RRX 2 126 88 95 105 100 - 00.5 NSC Starbuck RRX 2 116 101 106 104 105 102 - 00.6 DS06/721 2 101 86 91 112 111 103 - 00.6 DK800659 2 - - 10		00.8	P008T22R2	0	-	-	101	104	96	95	96
Milb 004 TH 37004 R2Y 1 125 83 100 102 104 88 - Zone 00.6 DUGALDO R2X 1 - - - 97 99 105 99 94 00.7 MSC Riveride R8ZX 1 - - - 99 87 95 104 105 00.7 MSC Riveride R8ZX 1 116 97 102 99 91 98 - 00.2 MARDUK R2X 1 116 97 102 99 91 98 - 00.3 MSC Newton R8ZX 1 116 97 102 99 91 98 - 00.5 Statos RRX 2 101 86 95 910 102 102 - - 106 104 105 102 - - 106 104 105 102 - - 106 103 102 107	NA ¹ -1	00.5	TAMULA R2	1	88	103	105	101	113	115	-
Jobson 003 114 JUGA ICA 1 19 105 100 113 101 97 - 20ne 004 DVGALDO F2X 1 - - 97 99 105 99 94 004 DVGALDO F2X 1 - - 99 95 95 104 105 00.6 H5006PK324 1 114 92 103 105 100 - 00.3 NSC Revise Ide R82X 1 116 97 102 99 91 98 - 00.5 NSC Stabuck R8X2 2 126 88 95 105 100 97 - 00.6 DS006721 2 101 86 92 96 113 90 - 00.7 TH8900782X 2 101 86 91 111 103 - 00.5 DK8006-29 2 - - 106 106 109 <td< td=""><td>MIId- Season</td><td>00.4</td><td>TH 37004 R2Y</td><td>1</td><td>125</td><td>83</td><td>100</td><td>102</td><td>104</td><td>88</td><td>-</td></td<>	MIId- Season	00.4	TH 37004 R2Y	1	125	83	100	102	104	88	-
00.4 DYLANO R2X 1 88 83 96 85 95 77 - 00.7 NSC Riverside RR2X 1 - - 99 87 95 104 105 00.6 H S006/RYS24 1 116 97 102 99 91 98 - 00.3 NSC Newton RR2X 2 126 88 95 105 100 97 - 00.6 DS006/721 2 101 86 92 96 113 90 - 00.6 DS006/721 2 101 86 92 96 113 90 - 00.6 DR8007R2X 2 - - 106 106 109 98 101 00.5 TH 88007R2X 2 - - 100 111 113 92 106 00.5 DR8005F32 2 - - 106 97 109 100	Zone	00.3	DUGALDO R2X		119	105	107	99	101	97	94
00.7 NSC Riverside RR2X 1 - - - 99 87 95 104 105 00.6 HS 006RYS24 1 116 97 102 99 91 98 - 00.3 NSC Newton RR2X 1 120 99 95 94 102 102 - 00.5 NSC Starbuck RRX2 2 126 88 95 105 100 97 - 00.6 DS006721 2 101 86 92 96 113 90 - 00.6 DK800572X 2 101 106 104 105 102 - 00.5 TH 88005R2NN 2 101 86 91 112 111 103 - 00.7 PV 125007 R2X 2 - - 101 105 106 96 99 00.5 PRO 2525R2 2 - - 108 107 102		00.4	DYLANO R2X	i	88	83	96	89	95	77	-
00.6 HS 006RYS24 1 114 92 103 105 105 100 - 00.3 NSC Newton RR2X 1 120 99 95 94 102 102 - 00.5 NSC Starbuck RX2 2 126 88 95 105 100 97 - 00.6 DS006721 2 101 86 92 96 113 90 - 00.7 TH 88007R2X 2 116 101 106 104 105 102 - 00.5 BARKER R2X 2 - - 100 110 111 103 - 00.5 DK800552 2 - - 100 100 100 100 00.5 DK800552 2 - - 101 115 113 92 100 100 00.5 DK800552 2 - - 1011 111 113 10		00.7	NSC Riverside RR2X	1	-		99	87	95	104	105
00.2 MARQUK R2X 1 120 99 95 94 102 102 - 00.5 NSC Starbuck RRX 2 2 126 88 95 105 100 97 - 00.6 DS006721 2 106 101 106 104 105 102 - 00.7 TH 88007R2X 2 116 101 106 104 105 102 - 00.6 DK8006-29 2 110 111 97 100 95 00.5 BARKER R2X 2 101 86 91 112 111 103 - 00.7 PV 125007 R2X 2 106 106 109 98 101 00.5 TH 8800552 2 2 109 105 106 96 100 00.5 DK8005-52 2 109 105 106 96 100 00.5 DK8005-52 2 108 103 108 96 90 00.5 PRO 2555R2 2 106 97 109 100 100 Experimental lines that are being tested/proposed for rejistration in Cmada 00.7 EXP0717 XRN 2 108 103 108 96 99 00.8 S006-N2 3 100 93 107 102 107 00.6 DS067T 3 103 95 95 97 102 00.8 DOMINGO R2X 3 98 98 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 100 95 121 102 107 00.6 DOSK R 3 3 108 103 98 99 106 - Season 00.7 PS 0074 R2 3 100 95 121 102 107 00.6 DOSK R 3 3 101 95 95 95 97 102 00.8 DOMINGO R2X 3 101 99 88 101 99 111 101 - Season 00.7 PS 0074 R2 3 100 95 121 102 110 200 005 FR 1H 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 109 83 114 106 114 00.7 RX00797 4 4 109 83 114 106 114 00.7 RX00797 7 101 83 103 88 116 CHECK CHARACTERISTICS TH 3 5 5 8 8 8 5 5 LSD % 24 8 9 12 13 8 9 0.8 DK8008-81 4 105 81 97 89 114 0.2 LEMPO R2X 7 101 83 103 88 116 CHECK CHARACTERISTICS TH 3 5 5 8 8 8 5 5 LSD % 24 8 9 12 13 8 9 Sign.Diff. Ves		00.6	HS 006RYS24		114	92	103	105	105	100	-
00.5 NSC Sarbuck RR2 2 126 88 95 105 100 97 - 00.6 DS0067Z1 2 101 86 92 96 113 90 - 00.6 DK8006-29 2 110 111 97 100 95 00.5 BARKER R2X 2 106 106 109 98 101 00.5 TH 88005R2XN 2 101 86 91 112 111 103 00.7 PV 125007 R2X 2 109 105 106 96 100 00.5 DK8005-52 2 111 115 113 92 106 00.5 PK005552 2 106 97 109 100 100 Experimental lines that are being tested/proposed for registration in Canad 00.7 EXP(0717 XRN 2 108 103 108 96 99 00.8 S008-N2 3 98 98 102 95 109 00.6 L5 006KT 3 91 100 104 92 97 00.6 0066 XR 3 91 100 104 92 97 00.6 0066 XR 3 91 100 104 92 97 00.6 0066 XR 3 91 100 104 92 97 00.6 S008-N2 3 91 100 104 92 97 00.6 S006XT 3 108 98 99 106 Season 00.7 P5 0074 R2 3 91 100 104 92 97 00.6 D066 XR 3 91 100 104 92 97 00.6 D066 XR 3 100 95 121 102 107 200 005 PV 105005 RR2 4 0103 95 95 97 102 00.7 RX00797 4 108 103 98 99 106 Season 00.7 P5 0074 R2 3 010 95 121 102 110 200 00.5 PV 105005 RR2 4 108 103 98 99 106 00.5 PV 105005 RR2 4 108 103 98 99 106 Season 00.7 P5 0074 R2 3 122 10 113 109 111 101 - 00.5 PV 105005 RR2 4 108 103 98 99 106 Season 00.7 PS 0074 R2 3 010 95 121 102 110 200 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 RR2 4 101 83 103 88 116 CHECK CHARACTERISTICS TH 303 R2Y 118 50 39 547 44 33 60 DK8008-81 4 101 83 103 88 116 CHECK CHARACTERISTICS TH 303 R2Y 118 50 39 547 44 33 60 DK8008-81 4 101 83 103 88 116 CHECK CHARACTERISTICS TH 303 R2Y 118 50 39 56 75 88 8 5 5 L5D % 24 88 9 12 13 8 9 Sign.DIff. Yes		00.2	MARDUK R2X		116	97	102	99 94	91 102	98 102	-
00.6 DS006721 2 101 86 92 96 113 90 - 00.7 TH 88007R2X 2 116 101 106 104 105 102 - 00.6 DK8006-29 2 - - 110 111 97 100 95 00.5 BARKER R2X 2 - - 106 106 109 98 101 00.7 PV 125007 R2X 2 - - 111 115 113 92 106 00.5 DK8005-52 2 - - 1116 113 92 106 00.5 DK8005-52 2 - - 116 97 109 100 100 100 00.6 S008-N2 3 - - 106 93 107 102 107 00.6 DOMINGO R2X 3 - - 91 100 104 92		00.5	NSC Starbuck RRX2	2	126	88	95	105	102	97	-
00.7 TH 88007R2X 2 116 101 106 104 105 102 - 00.6 DK8006-29 2 100 111 97 100 95 00.5 BARKER R2X 2 106 106 109 98 101 00.5 TH 88005R2N 2 101 86 91 112 111 103 00.7 EV125007 R2X 2 119 9105 106 96 100 00.5 DK8005-52 2 106 97 109 100 100 Experimental lines that are being tested/proposed for registration in Canada 00.7 EXP00717 XRN 2 108 103 108 96 99 00.8 S008-N2 3 100 93 107 102 107 00.6 LS 006XT 3 0 103 95 95 97 102 00.8 S008-N2 3 91 100 104 92 97 00.6 0066 XR 3 91 100 104 92 97 00.8 DOMINGO R2X 3 91 100 104 92 97 00.6 0066 XR 3 98 98 80 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 P5 0074 R2 3 100 95 121 102 110 Zone 00.5 LS MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 R82 4 109 83 114 106 114 00.7 R X00797 4 104 102 116 104 98 00.8 DOK8008-81 4 104 102 116 104 98 00.8 DK8008-81 4 105 81 97 89 114 0.2 LEMPO R2X 7 7 101 83 103 88 116 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39 56 47 44 33 60 DTM 50 58 97 55 58 8 8 5 5 Seeding Date May 26 May 16 May 15 May 19 May 26 May 15 May 15 Sen 30		00.6	DS0067Z1	2	101	86	92	96	113	90	-
00.5 DK8006-29 2 110 111 97 100 95 00.5 BARKER2X 2 006 106 107 998 101 00.5 TH 8005R2X 2 109 112 111 103 - 00.7 PV 125007R2X 2 109 105 106 96 100 00.5 DK8005-52 2 101 111 115 113 92 106 00.5 PK0 2525R2 2 106 97 109 100 100 Experimental lines that are being tested/proposed for registration in Canada 0.7 EXP0717 XRN 2 108 103 108 96 99 00.8 S008-N2 3 103 95 95 97 102 00.6 L5 006XT 3 91 100 104 922 97 00.6 L5 006XT 3 91 100 104 922 97 00.6 0066 XR 3 98 98 102 95 109 00.6 0066 XR 3 98 98 102 95 109 0.6 0066 XR 3 98 98 102 95 109 0.6 0066 XR 3 100 95 121 102 110 20.6 DMINISO R2X 3 114 98 103 98 99 106 - Season 00.7 P5 0074 R2 3 100 95 121 102 110 Zone 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 R82 4 100 95 121 102 110 Zone 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 R82 4 100 95 121 102 110 Zone 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 R82 4 100 95 121 102 110 Zone 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 10505 R82 4 100 95 121 102 110 Zone 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 10505 R82 4 100 95 121 102 110 Zone 00.5 L5 MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 10505 R82 4 100 83 114 30 88 116 CHECK CHARACTERISTICS TH 303R2Y 118 50 39 56 47 44 33 60 DTM		00.7	TH 88007R2X	2	116	101	106	104	105	102	-
00.5 TH B8005R2XN 2 1 6 100 102 111 103 - 00.7 PV 125007 R2X 2 - - 109 105 106 96 100 00.5 DK8005-52 2 - - 111 115 113 92 106 00.5 PR0 0252SR2 2 - - 106 97 109 100 100 00.7 Experimental lines that are being tested/proposed for registration in Canada - - 106 97 109 100 100 00.7 EXPON717 XRN 2 - - 103 108 96 99 00.8 S008-N2 3 - - 103 95 95 97 102 107 00.6 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3		00.6	DKB006-29	2	_	_	110	111	97 100	100	95 101
00.7 PV 125007 R2X 2 - - 109 105 106 96 100 00.5 DK8005-52 2 - - - 111 115 113 92 106 00.5 PR0 2525R2 2 - - - 108 103 108 96 99 00.7 EXP0717 XRN 2 - - 100 93 107 102 107 00.6 S006N2 3 - - 103 95 95 97 102 00.6 LS006XT 3 - - 91 100 104 92 97 00.6 0066 KR 3 - - 91 100 104 92 97 00.8 DOMINGO R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - - 100		00.5	TH 88005R2XN	2	101	86	91	112	109	103	-
00.5 DK8005-52 2 - - 111 115 113 92 106 Experimental lines that are being tested/proposed for registration in Canada 00.7 EXP00717 XRN 2 - - 106 97 109 100 100 00.7 EXP00717 XRN 2 - - 108 103 108 96 99 00.8 S008-N2 3 - - 100 93 107 102 107 00.6 L506XT 3 - - 103 95 95 97 102 00.6 DOMINGO R2X 3 - - 98 98 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - - 100 113 109 111 101 - -		00.7	PV 12S007 R2X	2	-	-	109	105	106	96	100
Construction Experimental lines that are being tested/proposed for registration in Canada 103 109 100 100 00.7 EXP00717 XRN 2 - - 108 103 108 96 99 00.8 S008-N2 3 - - 100 93 107 102 107 00.8 S008-N2 3 - - 103 95 95 97 102 00.8 DOMINGO R2X 3 - - 98 98 102 95 109 0.06 0066 KR 3 - - 98 98 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - - 100 113 109 111 101 - Zone 00.5 LS MISTRAL 3 122 100 <		00.5	DKB005-52	2	-	-	111	115	113	92	106
OD.7 EXPONDITI XIN 2 - - 108 103 108 96 99 00.7 EXPONTIT XIN 2 - - 100 93 107 102 107 00.8 S008-N2 3 - - 103 95 95 97 102 00.6 LS 006XT 3 - - 91 100 104 92 97 00.6 DOMINGO R2X 3 - - 98 98 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - - 100 95 121 102 110 Zone 00.5 LS MISTRAL 3 122 100 113 109 111 101 - 0.5 PV 105005 RR2 4 - - 102 <td></td> <td>00.5</td> <td>PRO 2525R2 Experimental lines</td> <td>2 that are being tes</td> <td>- ted/proposed f</td> <td>- or registration i</td> <td>106 in Canada</td> <td>97</td> <td>109</td> <td>100</td> <td>100</td>		00.5	PRO 2525R2 Experimental lines	2 that are being tes	- ted/proposed f	- or registration i	106 in Canada	97	109	100	100
00.8 S008-N2 3 - - 100 93 107 102 107 00.6 LS 006XT 3 - - 103 95 95 97 102 00.8 DOMINGO R2X 3 - - 91 100 104 92 97 00.6 0066 XR 3 - - 98 98 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - - 100 95 121 102 110 Zone 00.5 LS MISTRAL 3 122 100 113 109 111 101 - 0.7 RX00797 4 - - 105 81 97 89 114 0.2 LEMPO R2X 7 - - 101 83		00.7	EXP00717 XRN	2	-	-	108	103	108	96	99
00.6 LS 006XT 3 - - 103 95 95 97 102 00.8 DOMINGO R2X 3 - - 91 100 104 92 97 00.6 0066 XR 3 - - 98 98 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - - 100 95 121 102 110 Zone 00.5 LS MISTRAL 3 122 100 113 109 111 101 - 0.05 PV 105005 RR2 4 - - 104 102 116 104 98 0.7 RX00797 4 - - 101 83 103 88 116 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39		00.8	S008-N2	3	-	-	100	93	107	102	107
OU.8 DUMINGUR2X s - - 91 100 104 92 97 00.6 0066 XR 3 - - 98 98 102 95 109 Long- 00.8 TH 88008 R2X 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - - 100 95 121 102 110 Zone 00.5 LS MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 RR2 4 - - 104 102 116 104 98 00.7 RX00797 4 - - 105 81 97 89 114 0.2 LEMPO R2X 7 - - 101 83 103 88 116 DTM 5 5 8 8		00.6	LS 006XT	3	-	-	103	95	95	97	102
Long- Long- Season 00.7 PS 0074 R2 3 114 98 103 98 99 106 - Season 00.7 PS 0074 R2 3 - O0.5 LS MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 RR2 4 - 00.7 RX00797 4 - 00.8 DKB008-81 4 - 0.2 LEMPO R2X 7 - 0.3 DFM - CV% 13 5 5 8 8 8 5 5 LSD % 24 8 9 12 13 8 9 Sign. Diff. Yes		00.8	DOMINGO R2X	3	-	-	91 ar	100 QR	104 102	92 95	97 100
Season 00.7 PS 0074 R2 3 - - 100 95 121 102 110 Zone 00.5 LS MISTRAL 3 122 100 113 109 111 101 - 00.5 PV 105005 RP2 4 - - 109 83 114 106 114 00.7 RX00797 4 - - 104 102 116 104 98 00.8 DKB008-81 4 - - 105 81 97 89 114 0.2 LEMPO R2X 7 - - 101 83 103 88 116 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39 56 47 44 33 60 DTM 50 39 55 8 8 5 5 LSD % 24 8 9 12 13 8 9 </td <td>Long-</td> <td>00.8</td> <td>TH 88008 R2X</td> <td>3</td> <td>114</td> <td>98</td> <td>103</td> <td>98</td> <td>99</td> <td>106</td> <td>-</td>	Long-	00.8	TH 88008 R2X	3	114	98	103	98	99	106	-
Zone 00.5 LS MISTRAL 3 122 100 113 109 111 101 00.5 PV 105005 RR2 4 - - 109 83 114 106 114 00.7 RX00797 4 - - 104 102 116 104 98 00.8 DKB008-81 4 - - 101 81 97 89 114 0.2 LEMPO R2X 7 - - 101 81 97 89 114 0.2 LEMPO R2X 7 - - 101 83 103 88 116 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39 56 47 44 33 60 DTM 50 39 56 47 44 33 60 LEMP CV % 13 5 5 8 8 5 5 LSD % 24 8 9 12 13 8 9 9	Season	00.7	PS 0074 R2	3	-	-	100	95	121	102	110
00.5 PV 105005 RH2 4 - - 109 83 114 106 114 00.7 RX00797 4 - - 104 102 116 104 98 00.8 DKB008-81 4 - - 105 81 97 89 114 0.2 LEMPO R2X 7 - - 101 83 103 88 116 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39 56 47 44 33 60 CV % 13 5 5 8 8 5 5 LSD % 24 8 9 12 13 8 9 Sign. Diff. Yes	Zone	00.5	LS MISTRAL	3	122	100	113	109	111	101	-
OC.7 INCOV 27 - - - - 104 102 110 104 98 00.8 DKB008-81 4 - - - 105 81 97 89 114 0.2 LEMPO R2X 7 - - 101 83 103 88 116 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39 56 47 44 33 60 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39 56 47 44 33 60 DTM DTM DTM bu/ac bu/ac bu/ac bu/ac bu/ac bu/ac CV % 13 5 5 8 8 5 5 LSD % 24 8 9 12 13 8 9 Sign. Diff. Yes <		00.5	PV 105005 RR2	4	_	_	109 104	83 102	114 116	106	114 ספ
0.2 LEMPO R2X 7 - - 101 83 103 88 116 CHECK CHARACTERISTICS TH 3303R2Y 118 50 39 56 47 44 33 60 DTM DTM 50 39 56 47 44 33 60 CV % 13 5 5 8 8 5 5 LSD % 24 8 9 12 13 8 9 Sign. Diff. Yes		00.7	DKB008-81	4 4	_	_	104	81	97	89	90 114
CHECK CHARACTERISTICS TH 3303R2Y 118 DTM 50 39 56 47 44 33 60 DTM DTM -		0.2	LEMPO R2X	7	_	-	101	83	103	88	116
DTM bu/ac CV % 13 5 5 8 8 5 5 LSD % 24 8 9 12 13 8 9 Sign. Diff. Yes Yes Yes Yes Yes Yes Yes Seeding Date May 26 May 16 May 15 May 19 May 26 May 15 May 15 Harvest Date Oct 11 Sep 30 Sep 29 Oct 05 Sep 30 Sep 29 Oct 05 Sep 30	CHECK CHARA	CTERISTICS	TH 3303R2Y	118	50	39	56	47	44	33	60
CV % 13 5 5 8 8 5 5 LSD % 24 8 9 12 13 8 9 Sign. Diff. Yes				DTM				bu/ac			
LSD % 24 8 9 12 13 8 9 Sign. Diff. Yes				CV %	13	5	5	8	8	5	5
Sign. Diff. Yes Yes Yes Yes Yes Yes Seeding Date May 26 May 16 May 15 May 19 May 26 May 15 May 15 Harvest Date Oct 11 Sep 30 Sep 29 Oct 05 Oct 05 Sep 30				LSD %	24	8	9	12	13	8	9
Seeding Date May 26 May 16 May 15 May 19 May 26 May 15 M				Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Harvest Date May 20 May 10 May 13 May 13 May 20 May 15 May 16 M				Seeding Date	May 26	May 16	May 15	May 10	May 26	May 15	May 15
				Harvest Date	Oct 11	Sen 30	Sen 29	Oct 05	Oct 05	Sen 21	Sen 30

⁺ Maturity ratings were averaged across the core sites only, including Carman, Morris, Portage and St. Adolphe.

ROUNDUP READY SOYBEANS • YIELD BY LOCATION • WESTERN MANITOBA

										201	17 Yield % Ch	neck	
Manitoba Maturity Zone	Company Maturity Grouping	Variety	Average	DTM +/	- Check† 2016	2015	Yield – % Check	Site Years Tested	Boissovain	Carberry	Daunhin	Hamiota	Malita
20110				2017	2010	2015		10			vaupiiii	70	75
Very Early-	000.0	POODA87R	-7	-0	-/	_	81	5	82	85	86	79	75 83
Season	000	S0009-M2	-7	-7	-1	-5	100	15	101	100	103	88	96
Zone	000.8	NocomaR2	-3	-3	_	_	98	5	109	100	100	92	85
	000.8	NSC Watson RR2Y	-2	-3	0	-4	97	15	97	97	99	87	87
	000.9	S0009-D6	-2	-2	_	_	90	5	82	92	101	84	91
	000.8	TH 87000 R2YX	-2	-2	_	-	85	5	80	89	88	87	79
	000.7	LS TRI7XT	-2	-2	_	_	90	5	92	89	97	86	86
	000.9	PS 00095 R2	-1	-3	0	_	94	10	96	98	92	96	99
	00.2	P002A63R	-1	-1	_	-	102	5	104	105	109	90	100
	000.9	NSC StarCity RRX2	-1	-1	-	-	91	5	85	106	89	88	85
	000.9	LS TRI9R2Y	-1	-1	-	-	94	5	97	89	101	90	90
	00.1	S001-B1	-1	-1	-1	-	101	10	92	101	105	100	93
	000.8	Barron R2X	-1	-1	-	-	91	5	96	93	94	82	90
	000.8	DARIO R2X	-1	-1	-	-	88	5	84	88	95	84	90
	000.9	22-60 RY	0	1	-1	-1	97	19	101	104	96	103	100
	00.1	NSC RESTON RR2Y	0	0	0	0	100	25	100	100	100	100	100
	00.1	PV 11S001 RR2	1	1	-	-	91	5	94	96	92	91	81
Early-	00.3	S003-L3	2	0	4	-	104	10	101	114	112	96	94
Season	00.3	NSC Austin RR2Y	2	2	2	-	100	10	97	102	111	101	88
Zone	00.2	23-60RY	2	0	4	2	105	24	110	116	108	105	89
	00.5	S006-W5	2	0	4	-	106	10	96	98	119	102	100
	00.1	Torro R2	2	2	N-	-	99	5	97	103	111	96	84
	00.4	PS 0044 XRN	2	2	-	-	100	5	105	94	101	101	98
	000.8	DKB0008-39		2			96	5	104	99	96	88	90
	00.3	TH 87003 R2X	3	3		-	109	5	106	122	113	105	95
	00.3	McLeod R2	3		4	3	106	25	99	106	109	100	94
	00.4	PS 0055 R2	3	3	3		98	10	96	105	111	83	96
	00.5			4	3	3	01	19	99 74	00	109	00	99
	00.4		3	2	6	-	106	24	101	113	100	90 104	03
	00.2	DKB003-29	4	2	N	3	98	5	100	100	105	94	80
	00.5	MARDUK R2X	4			_	101	5	99	100	105	93	93
	00.5	S007-Y4	4	3	6	3	109	19	99	95	108	106	97
	00.2	MANI R2X	4	4	_	_	103	5	92	106	116	103	94
	00.5	Foote R2	5	5	_	_	103	5	103	107	111	91	101
	00.6	P006T46R	5	4	6	_	109	10	102	111	121	107	100
	00.3	NSC Newton RR2X	5	5	_	-	89	5	88	93	97	83	78
	00.3	TH 33003R2Y	5	3	7	5	103	25	93	108	108	102	83
	00.3	PS 0035 NR2	5	3	7	5	103	24	94	126	115	101	89
	00.5	LS MISTRAL	5	5	-	-	109	5	109	105	121	107	99
Mid-	00.3	Akras R2	5	6	4	5	107	19	94	116	108	104	114
Season	00.5	Lono R2	5	4	7	5	109	19	108	112	108	105	104
Zone	00.3	Kosmo R2	5	5	-	-	92	5	91	96	99	91	81
	00.4	TH 37004 R2Y	6	4	7	-	111	20	97	108	109	107	91
	00.5	PV 10S005 RR2	6	6	-	-	110	5	111	116	118	104	95
	00.6	DS0067Z1	7	7	-	-	99	5	92	103	111	94	95
	00.5	TH 88005R2XN	7	7	-	-	97	5	94	103	101	97	85
	00.2	LS SOLAIRE	7	5	9	-	105	10	110	111	121	94	99
	00.5	TAMULA R2	7	6	8	-	106	10	103	126	102	99	95
CHECK CHARA	CTERISTICS	NSC Reston RR2Y	122	124	123	118	53	25	62	59	66	64	43
				D	I IVI		bu/ac	site years			bu/ac		
								CV %	8	7	6	6	4
								LSD %	13	12	9	9	6
								Sign. Diff.	Yes	Yes	Yes	Yes	Yes
							See	eding Date	May 18	May 15	May 17	May 10	May 15
							Ha	rvest Date	Sep 30	Sep 28	Oct 10	Oct 11	Sep 29

[†] Maturity ratings were averaged across all sites listed here, including Boissevain, Carberry, Dauphin, Hamiota and Melita.

CONVENTIONAL SOYBEANS • VARIETY DESCRIPTIONS

											DC
Manitoba Maturity	Company Maturity			DTM +/	- Check†		Yield	Site Years	Hilum	Rating	
Zone	Grouping	Variety	Average	2017	2016	2015	Check	Tested	Colour	(1–5)	Grouping
	00.3	AAC Edward	-3	-5	-4	-1	104	29	IY	1.8	ST
Early-	000.9	AAC Halli	-2	-3	-1	-1	99	22	Y	2.3	S
Season	Experimenta	l lines that are being tes	sted/proposed fo	or registratio	n in Canada						
Zone	00.0	OT 16-01	-4	-4	-	-	106	7	IY	2.1	ST
	000.5	PR110530Z041	-4	-4	-	-	97	6	IY	1.6	Т
	00.3	OAC Prudence	0	0	0	0	100	117	Y	1.6	Т
	00.2	Maxus	0	0	-	-	98	6	IY	2.2	ST
Mid-	Experimenta	l lines that are being tes	sted/proposed fo	or registratio	n in Canada						
Season	000.7	PR110524Z023	-1	-1	-	-	102	6	IY	1.7	Т
Zone	000	Terra-11	-1	-1	-	-	114	6	CL	2.2	ST
	00.2	OT 16-02	0	0	-	-	107	7	Y	2.3	S
	00.4	Terra-12	2	2	-	-	96	6	CL	1.9	ST
	0.0	Opus	6	6	-	-	108	6	IY	2.2	ST
	Experimenta	l lines that are being tes	sted/proposed fo	or registratio	n in Canada						
	00.4	OT 16-04	3	3	-	-	118	6	IY	2.5	S
Long-	00.3	OT 16-05	3	3	-	-	120	6	IY	2.5	S
Zone	00.6	OT 16-06	4	4	-	-	119	6	Y	2.4	S
	00.5	Terra-13	4	4	-	-	102	6	CL	2.1	ST
	00.9	OAC 13-05C	10	6	10	-	127	13	IY	3.0	S
	0.1	OT15-02	10	5	10	-	116	10	IY	2.4	S
CHECK CHAR	ACTERISTICS	OAC Prudence	114	118	117	108	49	117			
				D	ГМ		bu/acre	site years			

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

CONVENTIONAL SOYBEANS • YIELD BY LOCATION • EASTERN MANITOBA

								2017 Yiel	d % Check			
					Early Sites	20		Core	Sites		Long	J Sites
Manitoba Maturity Zone	Company Maturity Grouping	Variety	- Average DTM +/- Check [†]	Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank
	00.3	AAC Edward	-3	103	98	91	130	108	100	116	-	-
Early-	000.9	AAC Halli	-2	108	99	102	101	92	94	119	-	-
Season	Experimenta	l lines that are beir	ig tested/proposed f	or registra	ation in Cana	da						
Zone	00.0	OT 16-01	-4	102	110	93	130	105	93	111	-	-
	000.5	PR110530Z041	-4	-	-		112	87	97	99	100	97
	00.3	OAC Prudence	0	100	100	100	100	100	100	100	100	100
	00.2	Maxus	0	-	-	-	107	76	83	115	95	118
Mid-	Experimenta	l lines that are beir	ig tested/proposed f	or registra	ation in Cana	da						
Season	000.7	PR110524Z023	-1	-	-	-	115	99	105	89	104	100
Zone	000	Terra-11	-1	-	-	-	119	98	100	116	121	131
	00.2	OT 16-02	0	94	106	115	119	102	97	123	-	-
	00.4	Terra-12	2	-	-	-	107	93	86	101	96	112
	0.0	Opus	6	-	-	-	132	87	97	109	101	124
	Experimenta	l lines that are beir	ig tested/proposed f	or registra	ation in Cana	da						
Long	00.4	OT 16-04	3	-	-	-	118	111	114	124	110	136
Season	00.3	OT 16-05	3	-	-	-	135	104	114	129	126	123
Zone	00.6	OT 16-06	4	-	-	-	137	106	107	129	107	141
	00.5	Terra-13	4	-	-	-	125	96	91	107	93	107
	00.9	OAC 13-05C	10	-	-	-	133	109	110	140	123	154
	0.1	OT15-02	10	-	-	-	116	99	122	126	126	152
CHECK CHARA	ACTERISTICS	OAC Prudence	114	35	50	37	41	40	41	25	45	44
			DTM					bu/ac				
			CV %	13	7	4	8	12	7	6	11	6
			LSD %	25	14	7	16	19	11	12	19	12
			Sign. Diff.	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes
			Seeding Date	May 23	May 26	May 16	May 15	May 19	May 26	May 15	May 18	May 15
			Harvest Date	Oct 13	Oct 12	Sep 30	Sep 29	Oct 05	Oct 05	Sep 28	Oct 11	Sep 30

⁺ Maturity ratings were averaged across the core sites only, including Carman, Morris, Portage and St. Adolphe.

CONVENTIONAL SOYBEANS VIELD BY LOCATION WESTERN MANITOBA

								2017 Yield	d % Check
Manitoba Maturity	Company Maturity			DTM +/- Check †		Yield	Site		
Zone	Grouping	Variety	Average	2017	2016	Check	Tested	Carberry	Melita
Early-Season	000.9	AAC Halli	-1	0	-2	103	3	97	98
Zone	00.4	AAC Edward	-2	-2	-1	106	3	100	97
	000	FJORD	-2	-4	0	85	3	80	72
	00.3	OAC Prudence	0	0	0	100	3	100	100
Mid	000	ANSER	3	0	5	109	3	106	101
Season	00	KEBEK	4	1	6	117	3	104	92
Zone	Experimental	lines that are being test	ed/proposed for re	egistration in Car	nada				
	000	OT 16-01	0	0	-	97	3	103	90
	000	OT 16-02	2	-1	4	106	3	104	110
CHECK CHARA	CTERISTICS	OAC Prudence	112	116	107	42	3	57	41
				DTM		bu/ac	site years	bu/	ас
							CV %	10	8
							LSD %	17	13
							Sign. Diff	Yes	Yes
							Seeding Date	May 15	May 15
							Harvest Date	Sep 28	Sep 28

[†] Maturity ratings were averaged across both sites listed here, including Carberry and Melita.

MANITOBA

Pulse Souppean MPSG is proud to support the MCVET pulse and soybean post-registration variety trials.

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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 BEAN • 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 (%)
NAVY	+/- T9905	% T9905								
AAC Argosy	-1	98	4	221	2	66	89	1	6	0
Bolt	-2	90	11	238	1	67	88	1	5	0
DS105W0	2	101	9	216	-2	69	83	1	7	0
Envoy	-4	72	26	199	2	57	69	2	14	5
Indi	-3	99	18	181	1	67	89	1	9	0
Lightning	-3	90	26	217	1	63	88	1	10	0
Nautica	0	91	10	184	212	66	90	1	7	0
Portage	-4	90	26	209	1	61	84	1	6	1
T9905	0	100	26	227	2	65	88	1	6	0
Varieties that are regist	ered in the US	or being tested/pro	posed for re	gistration i	n Canada					
Alpena	-3	84	4	188	1	68	87	1	4	0
NA196	-2	94	6	202	2	66	89	1	6	0
CHECK CHARACTERIST	ICS									
T9905	104 DTM	2406 Ibs/ac	26 site years							
BLACK	+/- Eclipse	% Eclipse								
CDC Blackstrap	-5	83	9	233	1	55	87	1	4	1
CDC Jet	-2	88	35	217	1	62	87	1	5	0
CDC Superjet	-1	86	23	215	1	54	82	1	7	0
Eclipse	0	100	35	200	1	68	87	0	3	0
Varieties that are regist	ered in the US	or being tested/pro	posed for re	gistration i	n Canada					
13505	0	99	4	209	1	69	89	1	7	0
13489	1	108	6	204	1	71	83	1	6	0
GTS1103	2	97	8	206	1	64	89	1	7	0
H76BK6	1	92	4	218	2	61	81	1	7	0
CHECK CHARACTERIST	ICS									
Eclipse	100 DTM	2497 Ibs/ac	35 site years							

DRY BEAN WIDE ROW ◆	VARIETY DESCRIPTIONS	5 continued								
	DTM	Yield	Site	TKW (g/1000	Lodaina	Plant Height	Pod Height	CBB Soverity	CBB Incidence	WM Incidence
Market Class/ Variety	+/- Check	Check	Tested	seeds)	(1–5)	(cm)	(% > 5 cm)	(0-5)	(%)	(%)
PINK	+/- FLOYD	% FLOYD								
FLOYD	0	100	24	339	4	51	55	2	19	3
Varieties that are reg	istered in the US or	being tested/pr	oposed for re	gistration i	n Canada					
Rosetta	6	118	7	337	2	62	63	2	7	0
CHECK CHARACTERI	STICS									
FLOYD	93 DTM	2463 lbs/ac	24 site vears							
YELLOW	+/- Windbreaker	% Windbreaker								
CDC Sol	3	78	25	450	2	54	78	2	15	3
PINTO	+/- Windbreaker	% Windbreaker								
CDC WM-2	-4	79	19	399	2	56	64	2	8	6
Windbreaker	0	100	49	374	3	55	63	1	4	1
Monterrey	2	106	14	329	2	67	74	2	8	1
SV6139GR	-3	103	19	353	2	56	71	1	8	1
VIBRANT	-2	103	6	343	2	66	71	1	5	1
Varieties that are reg	istered in the US or	being tested/pr	oposed for re	gistration i	n Canada					
El-Diablo	-1	94	9	378	3	61	61	2	5	0
PT284-10	0	75	4	349	3	56	58	2	16	3
Radiant 12324	-2	104	7	350	2	66	75	2	9	2
CHECK CHARACTER	STICS									
Windbreaker	97 DTM	2687 Ibs/ac	49 site years							
GREAT NORTHERN	+/- Pink Panther	% Pink Panther		125	スフ					
Varieties that are reg	istered in the US or	being tested/pr	oposed for re	gistration i	n Canada					
Powderhorn	-1	139	3	368	2	58	57	2	22	0
LIGHT RED KIDNEY	+/- Pink Panther	% Pink Panther								
BIG RED	-1	102	16	628	1	58	58	2	24	1
Pink Panther	0	100	48	642	1	56	64	2	22	1
Varieties that are reg	istered in the US or	being tested/pr	oposed for re	gistration i	n Canada					
09363	-3	96	5	647	1	55	57	2	40	1
CHECK CHARACTERI	STICS									
Pink Panther	100 DTM	1970 Ibs/ac	47 site years							
CRANBERRY	+/- Cran 09	% Cran 09								
Cran 09	0	100	58	560	2	51	48	2	24	5
Etna	2	98	50	608	1	52	67	2	15	1
Varieties that are reg	istered in the US or	being tested/pr	oposed for re	gistration i	n Canada					
CR312-8	2	101	5	614	1	56	60	3	49	1
CR318-6	4	112	9	607	1	57	68	2	27	1
Krimson	3	95	13	634	2	52	43	2	13	4
CHECK CHARACTERI	STICS									
Cran 09	99 DTM	1874 lbs/ac	58 site vears							

DRY BEAN WIDE ROW + YIELD BY LOCATION

		2017 Yield % Check					
Market Class/ Variety	DTM +/- Check	Carman	Morden	Portage	Winkler		
NAVY	+/- Envov		% Er	VOV			
AAC Argosy	-1	89	104	111	95		
Bolt	-2	82	89	81	86		
DS105W0	0	97	89	106	108		
Envov	-8	32	42	103	58		
Indi	-3	93	110	108	97		
Liahtnina	-3	87	91	93	89		
Nautica	-1	82	92	92	91		
Portage	-6	75	91	96	82		
T9905	0	100	100	100	100		
Varieties that are registe	ered in the US or being tested	/proposed for regist	ration in Canada	100	100		
Alpena	-1	77	96	86	82		
NA 196	0	83	100	90	85		
		05		50			
T9905	103	3574	2176	2769	4709		
19909	DTM	5574	lbs/	/ac	4709		
	CV %	8	11	7	4		
	LSD %	11	18	11	6		
	Sign. Diff.	Yes	Yes	Yes	Yes		
	Seeding Date	May 30	May 23	May 16	May 30		
	Harvest Date	Sep 28	Sep 30	Oct 5	Sep 28		
BLACK	+/- Eclipse		% Ect	ipse			
CDC Blackstrap	-5	97	73	87	80		
CDC Jet	-2	79	87	85	92		
CDC Superjet	-1	87	88	85	79		
Eclipse	0	100	100	100	100		
Varieties that are registe	ered in the US or being tested	l/proposed for registi	ration in Canada				
13489	0	109	116	105	107		
13505	-1	86	107	107	100		
GTS1103	3	98	96	92	108		
H76BK6	1	98	91	81	94		
CHECK CHARACTERISTI	cs						
Eclipse	99	3528	2343	2947	4717		
	DTM		lbs/	/ac			
	CV%	8	11	7	4		
	LSD %	12 Voc	16 Voc	10 Voc	6 Voc		
	Seeding Date	May 30	Nav 23	May 16	May 30		
	Harvest Date	Sep 28	Sep 30	Oct 5	Sep 28		
DINIK	. / Windhrookar		0/ Wind	hankar			
PINK	+/- windbreaker	100	% Wind	100	100		
Variation that are real-to	U arad in the US or heir restant		100	100	100		
Varieties that are registe	ered in the US or being tested	/proposed for registi	ration in Canada	107	120		
	6	98	134	107	130		
	06	2064	2156	2252	2710		
FLUTD	DTM	2904	 lbs/	2203 /ac	5/12		
	CV %	12	13	10	8		
	LSD %	20	26	20	15		
	Sign. Diff.	Yes	Yes	Yes	Yes		
	Seeding Date	May 30	May 23	May 16	May 30		
	Harvest Date	Sep 28	Sep 30	Oct 5	Sep 28		

DRY BEAN WIDE ROW •	YIELD BY LOCATION continued				
			2017 Yiel	d % Check	
Market Class/ Variety	DTM +/- Check	Carman	Morden	Portage	Winkler
VELLOW	. / Windharahan		0/ Wi-		
	+/- WINDDFeaker	07	% WIN	adreaker 95	71
CDC 301	3	87	70	65	71
PINTO	+/- Windbreaker		% Wine	dbreaker	
CDC WM-2	-6	87	80	61	71
Windbreaker	0	100	100	100	100
Monterrey	0	118	108	112	101
SV6139GR	1	114	107	110	112
VIBRANT	-2	97	100	135	108
Varieties that are regi	stered in the US or being tested	/proposed for registrat	ion in Canada		
El-Diablo	-1	101	111	70	103
PT284-10	0	80	72	56	84
Radiant 12324	0	114	111	115	105
CHECK CHARACTERIS	TICS				
Windbreaker	96	3089	2642	2760	4120
	CV %	12	13	10	8
	LSD %	20	21	16	13
	Sign. Diff.	Yes	Yes	Yes	Yes
	Seeding Date	May 30	May 23	May 16	May 30
	Harvest Date	Sep 28	Sep 30	Oct 5	Sep 28
GREAT NORTHERN	+/- Pink Panther		% Pink	Panther	
Varieties that are regi	stered in the US or being tested	/proposed for registrat	ion in Canada		
Powderhorn	-1	134	108	-	175
LIGHT RED KIDNEY	+/- Pink Panther		% Pink	Panther	
Pink Panther	0	100	100	-	100
Bia Red		124	75	-	114
Varieties that are regi	stered in the US or being tested	/proposed for registrat	ion in Canada		
09363	-5	114	83	_	103
CHECK CHARACTERIS	TICS				
Pink Panther	96	2372	2509	-	2635
	DTM		lbs	s/ac	
	CV %	7	10	-	13
	LSD %	11	15	-	24
	Sign. Diff.	Yes	Yes	-	Yes
	Seeding Date	May 30 Son 28	May 23 Sop 30	-	May 30 Son 28
		5ep 20	5ep 50		5ep 28
CRANBERRY	+/- Cran 09	400	% (1	ran 09	400
Cran 09	0	100	100	-	100
Etna	3	62	99	-	97
Varieties that are regi	stered in the US or being tested	/proposed for registrat	ion in Canada		
CR312-8	0	94	89	-	93
CR318-6	2	97	101	-	131
Krimson	2	103	88	-	124
CHECK CHARACTERIS	TICS	2105	2110		2476
Cran 09	94 DTM	2195	2110 lh4	s/ac	24/6
	CV %	7	10	_	13
	LSD %	12	18	-	26
	Sign. Diff.	Yes	Yes	_	Yes
	Seeding Date	May 30	May 23	_	May 30
	Harvest Date	Sep 28	Sep 30	-	Sep 28

DRY BEAN NARROW ROW YIELD BY LOCATION

					2017 Yield % Check	
Market Class/ Variety	DTM +/- Check	Yield % Check	Site Years Tested	Boissevain	Melita	Stonewall
NAVY	+/- Envoy	% Envoy			% Envoy	
AAC Shock	4	119	3	133	89	138
Bolt	4	105	7	120	86	118
Envoy	0	100	49	100	100	100
OAC SPARK	-1	112	10	119	102	115
Portage	2	100	16	139	114	142
T9905	6	109	5	132	88	135
Varieties that are registered	ed in the US or beir	ng tested/proposed for	r registration in Canada			
3458-7	-3	107	13	125	104	101
2918-25	-3	125	14	157	117	136
BLACK	+/- Envoy	% Envoy			% Envoy	
CDC Jet	2	106	40	145	121	111
CDC SuperJet	1	118	19	159	125	116
CDC Blackstrap	1	124	16	168	133	144
CHECK CHARACTERISTICS	;					
Envoy	101 DTM	1980 Ibs/ac	49	2803	2427	2167
	DIM	103/ ac	CV %	9	5	11
			LSD %	23	8	23
			Sign. Diff.	Yes	Yes	Yes
			Seeding Date Harvest Date	May 23 Oct 4	May 16 Sep 11	May 16 Sep 30
ΡΙΝΤΟ	+/- CDC Pintium	% CDC Pintium	Ohe		% CDC Pintium	•
CDC Pintium	0	100	49	100	100	100
CDC Marmot	0	110	19	104	95	89
CDC WM-2	3	C 116	21	113	89	95
Medicine Hat	3	112	13	120	123	106
AC Island	2	118	10	120	100	101
SV6139GR	1	140	5	128	124	107
Windbreaker	3	128	8	113	121	114
YELLOW	+/- CDC Pintium	% CDC Pintium			% CDC Pintium	
CDC Sol	4	96	5	101	87	85
Varieties that are registered	ed in the US or beir	ng tested/proposed for	r registration in Canada			
3620-3 (FDJ – Bean)	5	106	3	122	99	86
7ab-3bola-3 (Cranberry)	4	84	3	103	62	74
3850-1 (Yellow)	1	98	3	112	92	79
CHECK CHARACTERISTICS						
CDC Pintium	97 DTM	2125 Ibs/ac	49 site years	4078	2523 lbs/ac	2253
			CV %	9	5	11
			LSD %	16	8	18
			Sign. Diff.	Yes May 22	Yes May 16	Yes May 16
			Harvest Date	Oct 4	Sep 11	Sep 30

Key for Field Pea Variety Tables

Relative Vine Length

 $S=short \quad M=medium \quad L=long$

Green Seed Coats

 $G=0\text{--}10\% \text{ green seed coats} \quad F=11\text{--}25\% \text{ green seed coats}$

Seed Coat Dimpling

 $VG = 0{-}5\% \mbox{ of seeds dimpled } G = 6{-}20\% \mbox{ of seeds dimpled } F = 21{-}50\% \mbox{ of seeds dimpled }$

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.

FIELD PEA • VARIETY DESCRIPTIONS

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									Resist	ance Level			
Market Class/Variety	Relative Maturity	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	100	16	М	240	n/a	G	n/a	n/a	G	VG	F	G
AAC Carver	medium	110	10	L	240	n/a	G	n/a	n/a	G	VG	F	F
AAC Lacombe	medium	104	14	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
AC Earlystar	early	100	6	М	210	G	F	G	n/a	G	VG	F	F
Agassiz	medium	101	53	М	230	G	G	F	n/a	G	VG	F	F
CDC Amarillo	medium	103	16	М	230	G	F	F	n/a	VG	VG	F	G
CDC Golden	medium	93	58	М	230	G	G	G	n/a	G	VG	F	F
CDC Inca	medium	107	14	L	230	E	G	G	n/a	G	VG	F	F
CDC Meadow	early	100	66	М	220	G	G	G	n/a	G	VG	F	F
CDC Saffron	medium	101	30	М	250	G	G	F	n/a	G	VG	F	F
Cutlass	medium	93	65	м	220	G	F	F	n/a	G	VG	F	F
Experimental lines	that are be	ing teste	d/proposed	d for regis	tration in	Canada							
P0520-116	medium	109	6	М	240	n/a	n/a	n/a	n/a	G	VG	F	F
GREEN													
AAC Radius	medium	86	15	М	230	n/a	VG	G	VG	G	VG	F	G
AAC Royce	medium	97	13	М	250	n/a	G	n/a	G	F	VG	F	F
CDC Greenwater	late	99	15	М	220	n/a	VG	G	G	G	VG	F	G
CDC Limerick	late	99	15	М	210	n/a	VG	G	G	VG	VG	F	F
CDC Patrick	medium	93	51	М	190	n/a	G	G	G	G	VG	F	G
AAC Comfort	medium	93	5	М	260	n/a	n/a	n/a	G	G	VG	F	F
CDC Striker	medium	90	70	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	5	М	180	n/a	n/a	n/a	n/a	G	VG	F	n/a
CHECK CHARACTE CDC Meadow	RISTICS 95 DTM	73 bu/ac	66 site vears	86 cm									

		FIELD PEA	+ YIELD BY LO	OCATION		
			2017 Yiel	d % Check		
Market Class/Variety	Boissevain	Carberry	Melita	Hamiota	Portage	Roblin
YELLOW						
AAC Ardill	113	97	100	103	95	119
AAC Carver	135	117	118	99	120	130
AAC Lacombe	116	103	112	108	109	111
Agassiz	112	97	95	86	105	116
CDC Amarillo	111	115	108	93	112	111
CDC Golden	94	89	97	93	96	99
CDC Inca	114	110	114	94	104	113
CDC Meadow	100	100	100	100	100	100
CDC Saffron	105	97	100	98	101	108
Experimental lines that a	re being tested/pr	oposed for registration	in Canada			
P0520-116	110	114	114	108	98	131
GREEN						
AAC Comfort	98	100	98	94	78	_
AAC Radius	96	89	91	88	92	_
AAC Royce	103	102	95	85	97	_
CDC Greenwater	105	100	101	94	101	_
CDC Limerick	103	102	100	101	107	_
CDC Patrick	98	101	97	87	90	-
CDC Striker	99	86	94	73	88	_
MAPLE		1704	200			
AAC Liscard	91	94	94	99	99	_
CHECK CHARACTERISTICS	5					
CDC Meadow	82	95	82	96	90	85
			bu	I/ac	10	
	6	6	6 10	6	10	8
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	May 05	May 13	May 05	May 09	May 11	May 27
Harvest Date	Aug 24	Aug 28	Aug 14	Aug 29	Aug 30	Sep 04

Key for Faba Bean Variety Table

Tannin vs. Zero-Tannin Varieties – Tannin varieties with coloured flowers and tan-coloured seed coats cannot be fed directly to livestock. Zero-tannin varieties with white flowers and seed coats can be fed directly to livestock.

Days to Maturity – The number of days from planting to swathing. Days to maturity may vary depending on the planting date.

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.

FABA BEAN • VARIETY DESCRIPTION AND YIELD BY LOCATION

					2016 Yield % Check †
Market Class/Variety	DTM	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Roblin
COLOURED FLOWER (TANNINS)					
CDC Fatima	105	100	34	520	100
CDC SSNS-1	105	96	11	335	-
Florent	107	103	8	660	-
Taboar	107	96	13	480	-
Fabelle	105	107	1	533	107
CHECK CHARACTERISTICS					
CDC Fatima		4032	34		4779
		lbs/ac	site years		lbs/ac
				CV %	6
				LSD %	10
				Sign. Diff.	Yes
WHITE FLOWER (ZERO TANNINS)					
CDC Snowdrop	104	96	10	335	81
Snowbird	104	100	13	495	100
Tabasco	106	99	8	530	-
CHECK CHARACTERISTICS					
Snowbird		5246	10		4033
		lbs/ac	site years		lbs/ac
				CV %	9
				LSD %	15
				Sign. Diff.	Yes
				Seeding Date	May 10
				Harvest Date	Sep 16

⁺ Faba bean variety trial results from 2016 were reprinted due to high variability of yield data in 2017.

LENTILS + VARIETY DESCRIPTION AND YIELD BY LOCATION

						Resista	nce Level	2017 Yield % Check
Market Class/Variety	Relative Maturity	Yield % Check	Site Years Tested	TKW (g/1000 seeds)	Cotyledon Colour	Ascochyta Blight	Anthracnose Race 1	Melita
SMALL GREEN								
CDC Asterix	early	91	7	26	yellow	G	F	92
CDC Imvincible CL	early	81	16	35	yellow	G	G	93
MEDIUM GREEN				IC N				
CDC Imigreen CL LARGE GREEN	medium	63	11	63	yellow	G	F	-
CDC Greenland	med/late	63	10	64	yellow	G	VP	_
CDC Greenstar	med/late	91	5	73	yellow	G	F	100
CDC Impower CL	medium	67	10	74	yellow	G	Р	76
FRENCH GREEN								
CDC Peridot CL	early	78	11	40	yellow	G	Р	-
CDC Marble	early/med	105	7	32	yellow	F	G	103
CDC QG-2	early/med	82	5	33	yellow	F	G	90
EXTRA SMALL RED								
CDC Rosebud	early	87	10	29	red	G	G	_
CDC Rosie	early/med	87	6	30	red	G	G	-
CDC Ruby	early	92	2	29	red	G	G	-
SMALL RED	-							
CDC Dazil	early/med	97	8	35	red	G	F	106
CDC Imax CL	medium	82	16	50	red	G	G	87
CDC Maxim CL	early/med	100	18	40	red	G	G	100
CDC Proclaim CL	early/med	98	2	40	red	G	G	110
CDC Redmoon	early/med	112	2	41	red	G	G	111
CDC Scarlet	early/med	104	7	36	red	G	F	105
MEDIUM RED								
CDC Impulse CL	early/med	114	1	44	red	G	G	114
CDC KR2	medium	100	1	55	red	G	G	100
LARGE RED								
CDC-KR I	medium	79	12	56	red	G	G	-
CHECK CHARACTERISTIC	cs							
CDC Maxim		3192	18					3453
		lbs/ac	site years					lbs/ac
							CV %	9
							LSD %	15
							Sign. Diff.	Yes
							Seeding Date	May 05
							Harvest Date	Aug 21

Aug 21







Long

laturity Zone	CHU	FFP (days)	Maturity Grouping
(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 Com Heat Units (CHU, May 15 – Sept 20) and average frost-free period (FFP, days Tmin > 0°C).

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



For more information contact: Dennis.Lange@gov.mb.ca