

Oilseed Crops

Variety Description Key

A "CHECK CHARACTERISTICS" box is at the bottom of each table for soybean and sunflower to display the long term yield, # of site years, maturity and any other check attributes.

The grey box has been placed at the bottom of each table for canola and flax displaying the "GRAND MEAN" for Yield (bu/acre) and the corresponding LSD value ($p < 0.05$).

Except for the long-term average yield, variety description information was obtained from the Co-operative Registration Trials. For Relative Maturity, actual number of days will depend on local climactic conditions and to some extent on management practices.

"Resistance Level" ratings: HS = highly susceptible; S = susceptible; MS = moderately susceptible; MR = moderately resistant; R = resistant; '-' = not available.

Site Years Tested is the cumulative number of locations over the years that a variety has been tested against the check variety.

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

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

Key to 2021 Yield Tables

CV % = Coefficient of Variation. A measure of random variation in a trial. A low CV is desirable.

LSD = Least Significant Difference. Varieties must differ by the LSD to be considered significantly different from one another.

Sign Diff = Significant Difference. Indicates if a real difference exists between varieties at an individual site.

Canola & Soybean Comments

For specific notes regarding the canola tables, refer to the CANOLA PERFORMANCE TRIALS DATA and CANOLA COMMENTS at the top of those respective pages.

For specific notes regarding the soybean tables, refer to the SOYBEAN COMMENTS at the top of page 64.



Manitoba Agriculture Variety Guide

STANDARD (SWATHED) CANOLA

Canola Performance Trial Data:

All canola testing sites are divided into long, mid, and short-season zones. Only mid- and long-season zones apply to Manitoba.

All variety yields compared as a percentage of the the check, 45CM39. To maintain trial consistency, and reduce risk of clubroot affecting yield trials, the check variety is now a clubroot-resistant hybrid.

Canola yield trials are split into two categories: Standard Canola for traditionally swathed canola varieties, and Straight-Cut Canola on page 56 for varieties marketed with pod-shatter tolerance.

Yields derived over two or more growing seasons are the best indicator of variety performance. For new varieties, "Zone Average Yield" over all sites is more reliable than data from a single location. Use single site year data with caution.

Comments:

Variety descriptions summarize the performance of varieties tested in the 2021 Canola Performance Trials (CPT). Data donated by the CPT Committee. For more information visit www.canolaperformancetrials.ca.

All varieties in the table below have a resistant (R) rating for Blackleg. Lesions and yield loss can still occur, based on the level of inoculum, blackleg pathotype in the field, in combination with environmental conditions conducive for disease development.

Clubroot is a long-lived soil-borne disease that can impact canola performance. Using clubroot resistant varieties in Rural Municipalities where clubroot has been found is highly recommended as a risk mitigation tool. To know for sure if your own fields have clubroot, soil testing is the only way to find out, prior to finding galls in the fields. See page 59 for the map indicating clubroot distribution in Manitoba.

Lodging score are rated on a 1 to 5 scale, where 5 is a completely lodged plant at harvest. In 2021, many sites did not exhibit any lodging pressure to differentiate hybrid performance.

Variety Description

Distributor	Name	LONG Season Zone (5 sites) ²				MID Season Zone (6 sites) ²				Disease ³ Resistance	Pod-Shatter Tolerance
		Yield (%45CM39)	Yield (bu/ac)	Maturity (Days)	Lodging (1-5)	Yield (%45CM39)	Yield (bu/ac)	Maturity (Days)	Lodging (1-5)		
Clearfield											
BREVANT seeds	2028 CL ¹	81	40	91	1.6	102	46	89	1.4	BL/CR	N
BrettYoung	BY 5125CL	95	46	87	2.3	109	49	86	1.8	BL/CR	N
CANTERRA SEEDS	CS2700 CL	83	41	89	1.5	102	46	87	1.3	BL/CR	N
Pioneer Hi-Bred	P502CL	100	49	83	2.8	109	49	81	2.3	BL	N
	LSD	8	4			16	7				
Liberty Link											
BREVANT seeds	B3011	95	47	90	2.1	109	49	91	2.3	BL/CR	N
WinField United CROPLAN	CP21L3C	97	47	90	2.0	115	51	90	2.6	BL/CR	N
Pioneer Hi-Bred	P501L	98	48	91	2.0	114	51	93	2.1	BL/CR	N
Proven Seed	PV 680 LC	99	48	94	1.6	112	50	95	1.9	BL/CR	N
Proven Seed	PV 681 LC	93	45	90	2.3	108	48	91	2.8	BL/CR	N
	LSD	12	6			9	4				
Roundup Ready											
BREVANT seeds	1028 RR ¹	91	45	93	1.6	102	45	95	2.1	BL/CR	N
Pioneer Hi-Bred	45CM39	100	49	92	2.1	100	45	95	2.5	BL/CR	Y
Pioneer Hi-Bred	45CS40	95	47	91	1.8	107	47	93	2.4	BL/CR/S	N
CANTERRA SEEDS	CS2300	95	47	94	1.1	109	48	95	2.0	BL	N
	LSD	11	5			9	4				
TruFlex											
BrettYoung	BY 6204TF	97	48	91	2.0	110	49	93	2.2	BL/CR	N
BrettYoung	BY 6207TF	90	44	95	1.0	105	47	97	1.6	BL/CR	N
DEKALB	DKTF 98 CR	93	45	91	2.0	103	46	92	2.2	BL/CR	N
	LSD	13	6			12	5				
CHECK MEAN 45CM39 (bu/ac)		49	49			45	45				

1 Indicates varieties with specialty oil profiles and premiums associated with pricing.

2 Clearfield hybrids tested at two Long Season and two Mid Season Manitoba sites only.

3 Genetic disease resistance is indicated with an "R" or "MR" resistant rating to BL=Blackleg, CR=Clubroot, and "S" = improved tolerance to sclerotinia, based on variety descriptions submitted to CFIA.

STANDARD CANOLA (continued)

Yield Comparisons

Distributor	Name	LONG SEASON ZONE					MID SEASON ZONE					
		Lethbridge, AB (IRR)	Outlook, SK (IRR)	Souris, MB	Swift Current, SK	Thornhill, MB	Fort Saskatchewan, AB	Hamiota, MB	Kamsack, SK	Killam, AB	North Battleford, SK	Swan River, MB
Clearfield												
BREVANT seeds	2028 CL ¹	—	—	86	—	92	—	92	—	—	—	94
BrettYoung	BY 5125CL	—	—	108	—	94	—	102	—	—	—	98
CANTERRA SEEDS	CS2700 CL	—	—	84	—	105	—	94	—	—	—	93
Pioneer Hi-Bred	P502CL	—	—	109	—	111	—	112	—	—	—	91
	LSD (%)	—	—	7	—	10	—	19	—	—	—	12
Liberty Link												
BREVANT seeds	B3011	88	84	101	119	107	133	115	111	112	108	89
WinField United CROPLAN	CP21L3C	91	88	99	115	111	132	125	114	114	113	103
Pioneer Hi-Bred	P501L	93	96	93	116	108	150	120	116	109	115	96
Proven Seed	PV 680 LC	82	107	103	110	98	121	121	116	112	113	96
Proven Seed	PV 681 LC	85	79	104	101	112	111	118	107	119	110	90
	LSD (%)	20	7	11	11	9	14	14	10	7	7	7
Roundup Ready												
BREVANT seeds	1028 RR ¹	87	105	81	90	91	96	107	104	103	107	95
Pioneer Hi-Bred	45CM39	100	100	100	100	100	100	100	100	100	100	100
Pioneer Hi-Bred	45CS40	93	96	98	96	93	122	106	105	107	105	100
CANTERRA SEEDS	CS2300	92	101	94	97	88	122	101	120	104	115	97
	LSD (%)	13	12	8	15	9	12	16	7	8	8	7
TruFlex												
BrettYoung	BY 6204TF	92	91	112	89	97	116	110	122	118	106	92
BrettYoung	BY 6207TF	88	100	96	103	45	106	105	121	99	108	93
DEKALB	DKTF 98 CR	87	89	101	93	96	125	114	118	100	95	82
	LSD (%)	27	9	4	15	10	15	9	12	9	15	11
CHECK MEAN 45CM39 (bu/ac)		61	69	61	25	29	30	39	49	47	44	58
GRAND MEAN (bu/ac)		55	66	60	25	28	36	43	56	51	47	55
CV %		14.3	7.3	5.6	10.3	10.4	9.2	10.8	7.0	6.8	6.0	6.4

¹ Indicates varieties with specialty oil profiles and premiums associated with pricing.

STRAIGHT-CUT CANOLA

Comments:

Variety descriptions summarize the performance of varieties tested in the 2021 Canola Performance Trials (CPT). Data donated by the CPT Committee. For more information visit www.canolaperformancetrials.ca.

Most varieties in the table below have a resistant (R) rating for Blackleg. Lesions and yield loss can still occur, based on the level of incoolum, blackleg pathotype in the field, in combination with environmental conditions conducive for disease development.

Clubroot is a long-lived soil-borne disease that can impact canola performance. Using clubroot resistant varieties in Rural Municipalities where clubroot has been found is highly recommended as a risk mitigation tool. Soil testing is the only way to determine clubroot presence, prior to finding galls in the fields. See page 59 for the map indicating clubroot distribution in Manitoba.

Lodging scores are rated on a 1 to 5 scale, where 5 is a completely lodged plant at harvest. In 2021, many sites did not exhibit any lodging pressure to differentiate hybrid performance.

No industry standard exists for pod-shatter tolerance ratings. Contact your seed distributor for details on how a specific variety performs.

Variety Description

Distributor	Name	LONG Season Zone (6 sites)				MID Season Zone 7 sites)				Disease ² Resistance	Pod-Shatter Resistance
		Yield (%45CM39)	Yield (bu/ac)	Maturity (Days)	Lodging (1-5)	Yield (%45CM39)	Yield (bu/ac)	Maturity (Days)	Lodging (1-5)		
Liberty Link											
CANTERRA SEEDS	CS4000LL	110	48	89	2.1	110	49	94	3.4	BL/CR	Y
DEKALB	DKLL 82 SC	102	45	88	2.0	100	45	92	3.2	BL	Y
DEKALB	DKTFLL 21 SC ¹	108	47	87	1.7	100	45	90	3.2	BL	Y
BREVANT seeds	B3010M	107	47	90	1.6	103	46	94	2.4	BL/CR	Y
BASF InVigor	L233P	115	51	88	1.9	115	52	90	2.5	BL	Y
BASF InVigor	L255PC	120	53	91	1.4	121	54	94	1.8	BL/CR	Y
BASF InVigor	L340PC	125	55	88	1.4	121	54	91	2.1	BL/CR	Y
BASF InVigor	L345PC	130	57	88	1.6	124	56	92	2.4	BL/CR	Y
BASF InVigor	L357P	117	52	90	1.7	123	55	94	2.3	BL	Y
Pioneer Hi-Bred	P506ML	108	48	88	2.2	109	49	92	2.7	BL/CR	Y
	LSD	14	6			11	5				
Roundup Ready											
Pioneer Hi-Bred	45CM39	100	44	91	1.8	100	45	96	2.5	BL/CR	Y
BREVANT seeds	D3158CM	102	45	89	1.7	106	47	94	2.6	BL/CR	Y
	LSD	21	9			6	3				
TruFlex											
BrettYoung	BY 6211TF	105	46	89	1.5	110	49	95	3.0	BL	Y
WinField United CROPLAN	CP21T3P	101	45	90	1.6	107	48	96	3.1	BL	Y
CANTERRA SEEDS	CS2600 CR-T	109	48	88	1.8	106	47	93	3.3	BL/CR	Y
DEKALB	DKTF 96 SC	96	42	91	1.4	105	47	96	2.0	BL	Y
DEKALB	DKTF 97 CRSC	105	46	89	1.5	104	47	94	2.6	BL/CR	Y
DEKALB	DKTF 99 SC	114	50	89	1.6	115	52	94	2.9	BL	Y
Proven Seed	PV 761 TM	98	43	90	1.6	99	45	96	2.5	BL	Y
	LSD	11	5			11	5				
CHECK MEAN 45CM39 (bu/ac)		44	44			45	45				

¹ Indicates varieties with glyphosate and glufosinate herbicide tolerance.

² Genetic disease resistance is indicated with an "R" or "MR" resistant rating to BL=Blackleg, CR=Clubroot, and "S" = improved tolerance to sclerotinia, as based on variety descriptions submitted to CFIA

Yield Comparisons

		2021 Yield (% 45CM39)												
		LONG SEASON ZONE						MID SEASON ZONE						
Distributor	Name	High Bluff, MB	Lethbridge, AB (IRR)	Outlook, SK (IRR)	Souris, MB	Swift Current, SK	Thornhill, MB	Dauphin, MB	Fort Saskatchewan, AB	Kamsack, SK	Killam, AB	North Battleford, SK	Roblin, MB	Swan River, MB
Liberty Link														
CANTERRA SEEDS	CS4000LL	143	95	106	106	113	139	89	141	118	108	110	110	99
DEKALB	DKLL 82 SC	125	85	92	103	126	134	89	124	86	107	97	104	102
DEKALB	DKTFLL 21 SC ¹	132	89	104	100	120	155	108	121	81	96	98	98	104
BREVANT seeds	B3010M	144	98	95	101	123	138	93	123	110	93	106	98	104
BASF InVigor	L233P	171	95	109	105	145	138	98	132	117	124	110	117	111
BASF InVigor	L255PC	197	110	106	100	140	156	91	146	129	132	115	116	119
BASF InVigor	L340PC	210	97	119	115	150	145	117	132	129	126	118	119	111
BASF InVigor	L345PC	221	111	115	116	146	166	105	166	132	120	120	120	120
BASF InVigor	L357P	190	104	111	105	126	134	73	142	149	130	131	118	116
Pioneer Hi-Bred	P506ML	154	83	74	103	129	139	93	139	117	100	105	112	104
	LSD (%)	20	18	13	9	15	12	15	12	9	13	9	9	10
Roundup Ready														
Pioneer Hi-Bred	45CM39	100	100	100	100	100	100	100	100	100	100	100	100	100
BREVANT seeds	D3158CM	125	90	110	96	100	103	105	122	114	101	102	103	99
	LSD (%)	49	30	11	14	16	30	6	5	4	6	10	2	10
TruFlex														
BrettYoung	BY 6211TF	119	101	100	101	105	131	117	134	106	119	108	102	97
WinField United CROPLAN	CP21T3P	128	92	102	96	94	128	112	121	104	118	111	97	96
CANTERRA SEEDS	CS2600 CR-T	120	99	111	104	114	122	103	133	110	105	109	105	89
DEKALB	DKTF 96 SC	107	97	104	85	102	82	73	140	115	115	111	91	96
DEKALB	DKTF 97 CRSC	132	103	102	97	105	121	98	121	108	108	102	95	103
DEKALB	DKTF 99 SC	140	107	114	98	115	156	118	148	111	116	113	110	105
Proven Seed	PV 761 TM	108	91	105	96	97	99	84	100	112	105	110	93	91
	LSD (%)	22	12	6	8	17	12	14	10	11	15	7	12	9
CHECK MEAN 45CM39 (bu/ac)		20	62	72	62	26		36	29	44	47	50	52	54
GRAND MEAN (bu/ac)		30	60	76	63	31		36	38	50	53	54	55	56
CV %		11.0	13.3	7.2	6.7	13.0		14.6	13.0	6.6	8.3	5.3	6.5	6.7

¹ Indicates varieties with glufosinate and glyphosate herbicide tolerance. Visit www.canolaperformancetrials.ca for more details

CLUBROOT RESISTANT CANOLA VARIETY LISTING

Comments:

No yield trials were conducted for the canola varieties in the following table. This listing is provided for your information only.

No industry standard exists for pod-shatter tolerance ratings. Contact your seed distributor for details on how a specific variety performs.

Clubroot:

Clubroot resistance is generally termed 1st or 2nd Generation based on genetic source. First-generation clubroot resistance confers resistance to clubroot pathotypes 2F 3H, 5I, 6M, and 8N, on the Canadian Clubroot Differential Set (Strelkov et al., 2018).

Second-generation sources contain resistance to a varying set of pathotypes outside the original five first-generation pathotypes, but may also have resistance to the original five.

Blackleg:

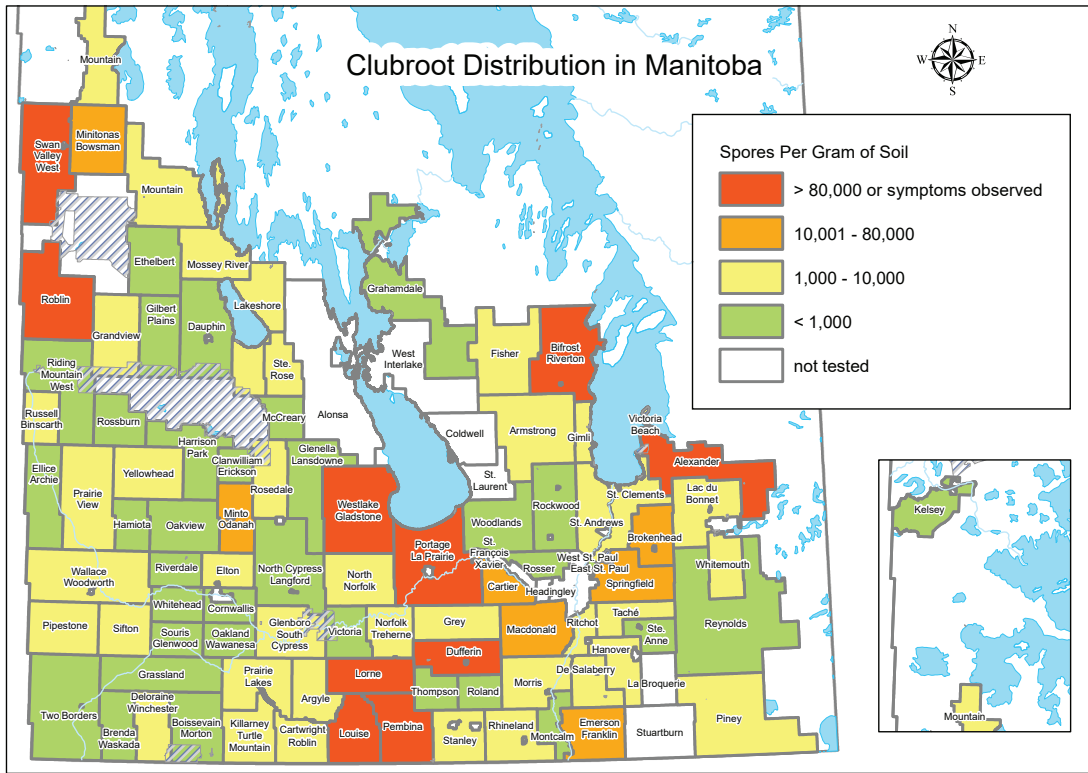
All varieties listed here are resistant to blackleg (<30% infection of Westar check). Some seed distributors have chosen to provide backleg resistance grouping based on major-gene (qualitative) resistance within that variety. Quantitative (minor-gene) resistance remains an important factor.

Visit www.blackleg.ca for details on how resistance groups work.

Distributor	Hybrid	Herbicide Tolerance ¹	Clubroot Resistance		Blackleg Resistance		Pod Shatter Tolerance
			Resistance Rating	Resistance Generation ²	Resistance Rating	Resistance Group	
BASF - InVigor	L241C	LL	R	1	R		
BASF - InVigor	L234PC	LL	R	1+2	R		Yes
BASF - InVigor	L255PC	LL	R	1	R		Yes
BASF - InVigor	L258HPC	LL	R	1	R		Yes
BASF - InVigor	L340PC	LL	R	1	R		Yes
BASF - InVigor	L343PC	LL	R	1+2	R		Yes
BASF - InVigor	LR344PC	LL/TF	R	1	R		Yes
BASF - InVigor	L345PC	LL	R	1	R		Yes
BASF - InVigor	L352C	LL	R	1	R		
BASF - InVigor	L356PC	LL	R	1	R		Yes
BrettYoung	6076 CR	RR	R	1+2	R	CE1	
BrettYoung	6090 RR	RR	R	1	R	CE1	
BrettYoung	BY 5105CL	CL	R	1	R	C	
BrettYoung	BY 5125CL	CL	R	1	R	CE1	
BrettYoung	BY 6204TF	TF	R	1	R	CE1	
BrettYoung	BY 6207TF	TF	R	1+2	R	C	
BREVANT seeds	1028 RR	RR	R	1	R		
BREVANT seeds	2028 CL	CL	R	1	R		
BREVANT seeds	B1030N	RR	R	1	R		
BREVANT seeds	B3010M	LL	R	1+2	R		Yes
BREVANT seeds	B3011	LL	R	1	R		
BREVANT seeds	B2030MN	CL	R	1	R		Yes
BREVANT seeds	D3157C	RR	R	1	R		
BREVANT seeds	D3158CM	RR	R	1	R		Yes
Cargill - VICTORY	V14-1	RR	R	1	R	CE1	
Cargill - VICTORY	V24-1	RR	R	1	R	CE1	
Cargill - VICTORY	V25-3T	TF	R	1	R	BCE1	
Cargill - VICTORY	V25-5T	TF	R	1	R	BCE1	
CANTERRA SEEDS	CS2000	RR	R	1	R	CE1	
CANTERRA SEEDS	CS2600 CR-T	TF	R	1+2	R	C	Yes
CANTERRA SEEDS	CS2700 CL	CL	R	2	R	AE2	
CANTERRA SEEDS	CS3000 TF	TF	R	1+2	R	AG	Yes
CANTERRA SEEDS	CS4000 LL	LL	R	1	R		Yes
DEKALB	75-42 CR	RR	R	1	R	AC	
DEKALB	DKTFLL 22 CRSC	LL/TF	R	1+2	R	AG	Yes
DEKALB	DKLL 84 CRSC	LL	R	1+2	R		Yes
DEKALB	DKTF 97 CRSC	TF	R	1	R	AG	Yes
DEKALB	DKTF 98 CR	TF	R	1	R	AC	
Pioneer Hi-Bred	44H44	RR	R	1	R		
Pioneer Hi-Bred	45CM39	RR	R	1+2	R		Yes
Pioneer Hi-Bred	45CS40	RR	R	1	R		
Pioneer Hi-Bred	45H37	RR	R	1	R		
Pioneer Hi-Bred	45H42	RR	R	1	R		
Pioneer Hi-Bred	P501L	LL	R	1	R		
Pioneer Hi-Bred	P505MSL	LL	R	1	R		Yes
Pioneer Hi-Bred	P506ML	LL	R	1	R		Yes
Pioneer Hi-Bred	P509L	LL	R	1	R		
Pioneer Hi-Bred	P607CL	CL	R	1	R		Yes
NuSeed	NC527CR TF	TF	R	1+2	R		
Proven Seed	PV 581 GC	RR	R	1	R		
Proven Seed	PV 585 GC	RR	R	1	R		
Proven Seed	PV 591 GCS	RR	R	1	R		
Proven Seed	PV 660 LCM	LL	R	1	R		Yes
Proven Seed	PV 680 LC	LL	R	1	R		
Proven Seed	PV 681 LC	LL	R	1	R		
Proven Seed	PV 780 TC	TF	R	1	R		
WinField United/CROPLAN	CP19R1C	RR	R	1	R	C	
WinField United/CROPLAN	CP20R3C	RR	R	1+2	R	CX	
WinField United/CROPLAN	CP21L3C	LL	R	1	R		

1 Herbicide tolerance trait, LL = Liberty Link, RR = Roundup Ready, TF = TruFlex Roundup Ready, CL = Clearfield Herbicide System

2 Second-generation (or next-generation) clubroot genetic resistance may demonstrate an enhanced resistance to certain clubroot pathotypes.



Clubroot Spore Concentration Map

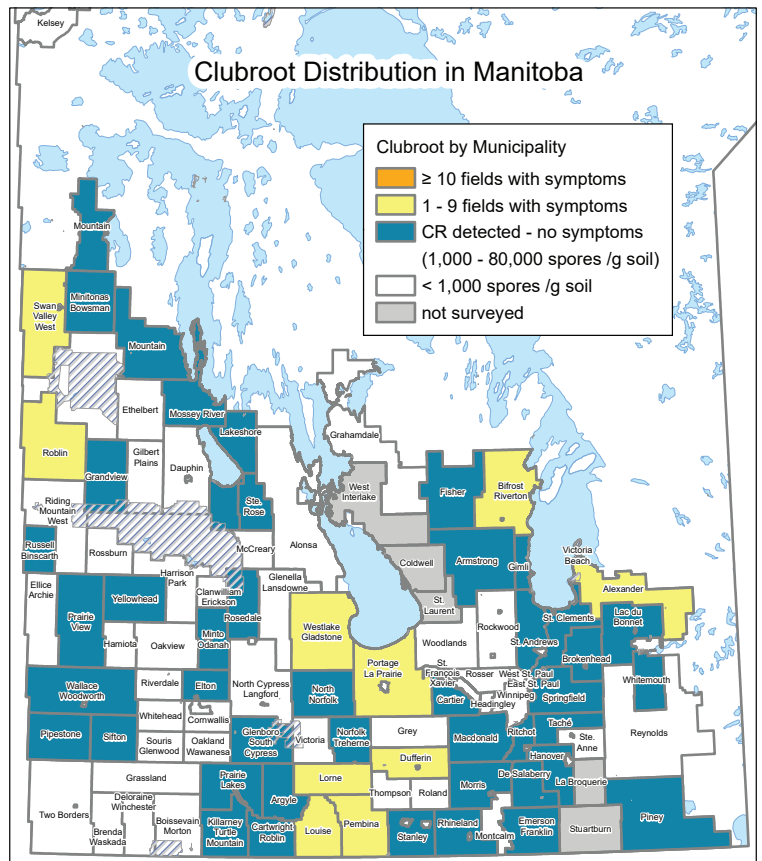
October 2021

The map above shows positive clubroot findings by Rural Municipality (RM), discovered through visual field symptoms and/or presence of clubroot spores in soil through laboratory testing for DNA. Testing completed from 2009 to present is still considered limited, in that only one field per township (36 square miles) was tested as a representative field to create the map. Positive findings have been at low concentrations, usually below 5,000 spores/gram soil (an amount considered negligible), throughout the province. Currently there are 56 RMs in the low (yellow) to high (red) risk categories. As more fields are sampled, the map is updated.

Prairie-Harmonized Clubroot Distribution Map

October 2021

This alternative depiction (see map to the right) of clubroot distribution in Manitoba is based on the same data as the clubroot spore concentration map shown above. How do the two maps differ? Primarily in the number of categories. Another difference is that the alternative map identifies how many fields within an RM have had documented symptomatic cases (galls on canola roots), rather than the number of clubroot spores detected in the soil. Thus far, no Manitoba RMs have had 10 or more fields identified. This map is useful for those who farm and/or advise growers on either side of the Manitoba-Saskatchewan border. The Ministry of Agriculture in Saskatchewan posted this style of map early in 2021. Eventually, it will be possible for the release of a map that covers the whole prairie region, including Manitoba, Saskatchewan, Alberta, and the BC Peace River region.



FLAX

New for 2022

Variety	Code	Breeder	Distributor	Seed Availability
CDC Rowland ^⓪	FP2513	Crop Development Centre	SeCan	2022
CDC Kernen ^⓪	FP2573	Crop Development Centre	SeCan	2023

Comments:

All variety descriptions other than yield are based on data from the Flax Cooperative Trials in the Prairie Provinces.

All varieties are immune to rust.

All varieties are susceptible to pasmo.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Maturity +/- 102 days	Height +/- 68 cm	Seed Color	Seed Size TSW	Oil Content	Oil Quality ¹ :		Resistance Level:	
								Iodine Number	ALA Content	Lodging ²	Fusarium Wilt
AAC Bravo ^⓪	30	33	1	0	brown	6.4	44.6	194.0	60.2	G	MR
AAC Bright ^⓪	6	34	2	0	yellow	5.6	48.8	192.1	56.2	G	MR
AAC Marvelous ^⓪	19	35	2	0	brown	5.8	47.1	192.1	55.8	G	MR
CDC Bethune ^⓪	129	34	0	0	brown	5.8	45.6	188.6	54.7	G	MR
CDC Dorado ^⓪	14	32	-1	-5	yellow	5.9	46.6	206.6	65.8	FG	MR
CDC Glas ^⓪	32	35	1	3	brown	5.2	45.8	192.0	56.6	G	MR
CDC Kernen ^⓪	8	35	1	0	brown	6.5	45.4	191.6	57.3	VG	MR
CDC Neela ^⓪	24	34	1	3	brown	5.7	45.5	194.4	59.1	G	MR
CDC Plava ^⓪	21	34	-2	-3	brown	5.7	46.5	195.5	57.2	G	MR
CDC Rowland ^⓪	19	37	4	0	brown	6.8	45.2	195.1	59.2	G	MR
CDC Sorrel ^⓪	56	34	1	3	brown	6.4	45.1	192.7	57.8	F	MR
Hanley ^⓪	70	32	-2	-5	brown	5.7	44.7	197.7	58.6	VG	R
Lightning ^⓪	40	33	1	-5	brown	6.0	47.6	192.5	56.1	G	MR
Prairie Sapphire ^⓪	35	35	2	-3	brown	5.8	48.1	193.1	57.2	G	MR
Topaz ^⓪	12	33	0	0	brown	5.8	45.9	188.2	54.4	G	MR
VT50 ^⓪	28	33	4	-5	yellow	5.1	47.1	209.4	67.6	VG	MR
WestLin 60 ^⓪	13	32	-1	-5	brown	5.7	46.1	197.9	59.9	G	MR
WestLin 70	12	33	2	5	brown	6.4	45.8	194.5	61.9	G	MR
WestLin 71 ^⓪	15	34	2	-5	brown	5.6	47.5	198.1	61.2	G	MR
WestLin 72 ^⓪	29	33	3	-3	brown	5.4	47.0	192.8	57.0	VG	MR
GRAND MEAN (bu/ac)		34									
LSD (0.05)		1.6									

1 Oil quality of flax is based on the amount of linolenic acid measured in the seed or as measured by iodine value which is calculated from the fatty acid composition of the seed. A higher iodine value and/or higher ALA content indicates a higher overall oil quality in the seed.

2 E = Excellent; VG = Very Good; G = Good; FG = Fair to Good; F = Fair; PF = Poor to Fair; P = Poor.



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Yield Comparisons

VARIETY	2021 Yield (bu/acre)				
	Carberry	Morris	Roblin	Souris	Stonewall
AAC Marvelous [Ⓢ]	31	15	12	46	12
CDC Dorado [Ⓢ]	33	14	8	40	15
CDC Glas [Ⓢ]	35	14	12	46	12
CDC Kernen [Ⓢ]	34	17	14	48	15
CDC Rowland [Ⓢ]	40	17	12	48	17
VT50 [Ⓢ]	26	13	9	42	9
WestLin 72 [Ⓢ]	30	11	12	45	11
SITE GRAND MEAN (bu/ac)	33	14	11	46	13
CV%	11.7	4.4	14.7	3.6	6.0
LSD (bu/ac)	7	1	3	7	1
Sign Diff	Yes	Yes	Yes	Yes	Yes
Seeding Date	11-May	18-May	19-May	15-May	25-May
Harvest Date	08-Sep	10-Sep	13-Sep	17-Sep	12-Sep

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SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

Maturity Notes:

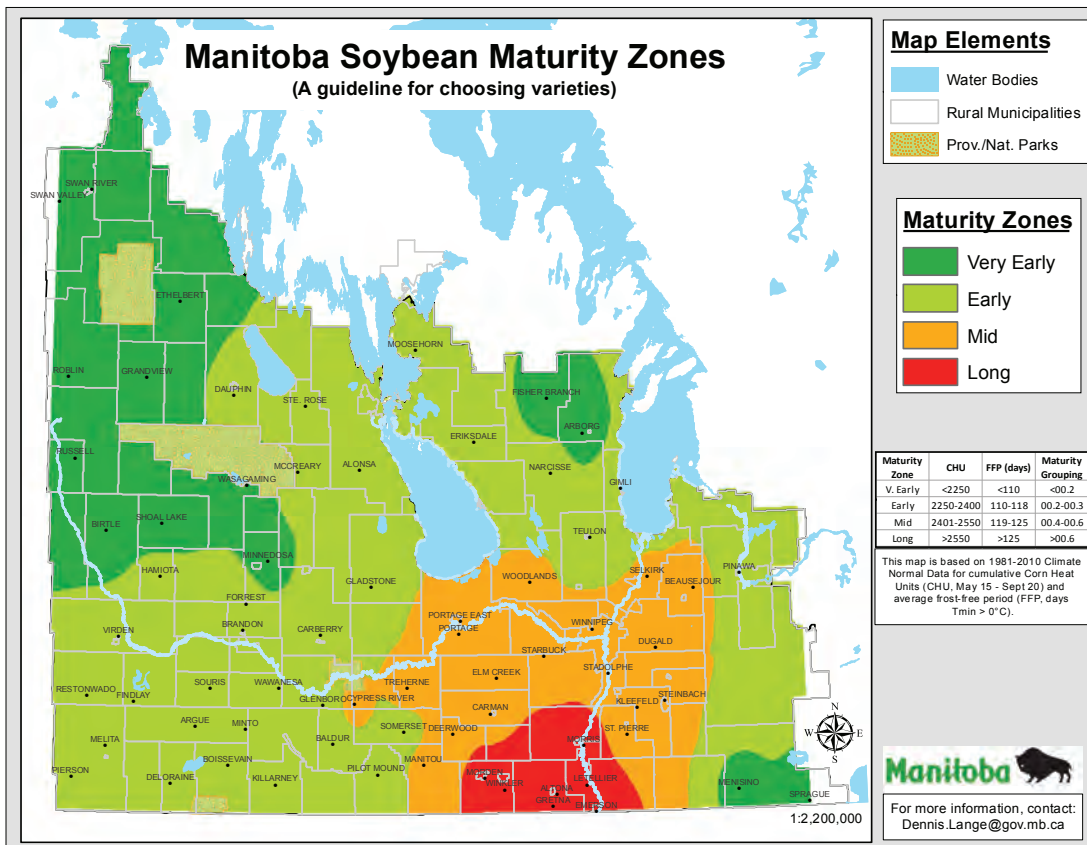
- 1 Soybean varieties have been organized into 4 maturity zones - very early, early, mid and long season areas.
- 2 Maturity grouping is a ranking of maturity provided by seed suppliers. Rankings are assigned to assist growers in selecting varieties suited for their area.
- 3 Relative days to maturity is the number of days from seeding to plant maturity (95% of the pods on plant are mature with seeds rattling in the pods when plant is shaken). Expressed as + or - days from the check. Caution needed when using only one year data to evaluate maturity and yield. Using multiple years will provide a better indication on how a variety will mature with different growing seasons. Actual days to maturity for the check is found in the grey characteristics check box at the bottom of the table.

General Notes:

- 1 Roundup Ready and Conventional soybean varieties are evaluated separately, meaning direct comparison of varieties between different tables is not possible. All trials are solid seeded at 210,000 seeds/acre.
- 2 Hilum colour can range from Yellow (Y), Imperfect Yellow (IY), Grey (G), Brown (BR), Buff (BF), Tan(TN), Clear (CL), Imperfect Black (IB) or Black (BL) and is solely a marketing issue. The hilum is the point on the soybean seed where it attaches to the pod.
- 3 Iron Deficiency Chlorosis (IDC) rating scores 1=green leaves, 2=yellowish leaves, 3=green veins with yellow leaves, 4=brown dead tissue between green veins, 5=severe chlorosis and a stunted growing point. Ratings were taken from a site prone to iron chlorosis over the last 3 years. IDC tolerant varieties are varieties with lower IDC Scores and perform better on soils prone to iron deficiency.
- 4 Iron Deficiency Chlorosis (IDC) grouping is used because varieties will have different visual rating scores from year to year. Numerical ratings which are close but are in different groupings will show similar symptoms. Both numerical ratings and groupings should be considered together when judging IDC. Tolerant=leaves stayed green, Semi Tolerant=leaves turn yellow then turn green, Susceptible= leaves went chlorotic and had dead patches on their leaves and were often stunted.

MANITOBA SOYBEAN MATURITY MAP

The Soybean Maturity Map outlines the longest maturity suggested for each production area but earlier varieties can also perform well. Use in conjunction with Soybean Variety Description table which outlines varieties according to maturity zones.



WESTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

Comments:

The western Manitoba soybean variety trial was sponsored by the Manitoba Pulse & Soybean Growers.

Variety Descriptions

Maturity Zone	Variety	% Yield		Maturity days +/- Check ¹	IDC ² Rating/Group	Resistance		2021 Yield % of Akras R2						
		Check	Tested			SCN ³	PRR ⁴	Dauphin	Hamiota	Holland	Melita	Souris	Swan River	
Very Early Season Zone	DKB0003-24	86	6	-13	1.9 / ST	Yes	1c,1k	97	69	86	83	90	84	
	Buffalo R2	85	8	-11	1.9 / ST	—	—	94	82	83	81	92	81	
	BY Rundle XT	92	6	-11	1.9 / ST	Yes	1c,3a	105	62	105	93	96	92	
	NSC Dauphin RR2X	88	6	-10	2.1 / ST	—	1c	95	70	90	87	90	92	
	Amirani R2	88	13	-9	1.8 / ST	—	1k	93	75	88	75	90	81	
	NSC EXP001PX	85	5	-8	1.7 / T	—	1c	95	79	82	82	81	—	
	Fresco R2X	92	13	-8	2.0 / ST	—	—	107	73	90	79	97	89	
	NSC EXP0007X	83	6	-8	1.9 / ST	—	1a	95	72	85	78	81	81	
	S0009-F2X	95	27	-7	1.8 / ST	—	1c	102	89	98	94	94	104	
	NSC EXP001LX	96	5	-6	1.8 / ST	—	1c, 3a	104	94	100	87	93	—	
DKB0005-44	93	18	-6	1.9 / ST	Yes	1c	107	87	90	89	101	90		
CP000521X	90	6	-6	1.8 / ST	—	1c	96	82	78	87	92	94		
Early Season Zone	S001-D8X	103	11	-4	1.9 / ST	—	1c	106	88	95	88	95	110	
	Komodo R2	99	8	-4	2.2 / ST	Yes	1c	101	90	98	89	97	115	
	B0012FX	103	6	-4	1.7 / T	—	1k,6	102	96	94	96	105	119	
	003-R5X	105	6	-4	1.9 / ST	—	1c	110	95	104	106	103	109	
	P001A48X	100	13	-3	1.8 / ST	—	1c	104	86	100	88	103	106	
	TH89004 R2X	98	13	-2	1.9 / ST	—	1c	100	89	92	82	96	105	
	Young R2X	101	6	-2	1.7 / T	Yes	1c	111	100	83	87	104	104	
	SI 000919XT	97	11	-2	1.7 / T	—	—	100	90	90	84	97	96	
	PV 15s0009 R2X	98	17	-2	1.8 / ST	Yes	1c	107	91	84	87	100	99	
	P003A97X	100	13	-2	1.8 / ST	Yes	1k	114	101	103	102	104	105	
	S003-Z4X	104	13	-2	1.9 / ST	—	1c	105	94	108	85	102	112	
	DKB0009-89	98	18	-2	1.8 / ST	Yes	1c,1k	107	91	87	90	101	92	
	SI 001XTN	99	18	-2	1.7 / T	Yes	1k	108	95	92	96	105	108	
	NSC Redvers RR2X	97	15	-1	1.9 / ST	Yes	1c	100	87	98	97	99	—	
	DKB0008-87	101	6	-1	1.8 / ST	Yes	1c,1k	108	94	94	97	105	101	
	P005A83X	107	13	-1	1.7 / T	Yes	1c	122	99	106	93	108	104	
	Mahony R2	101	35	-1	2.5 / S	—	—	106	92	104	92	103	108	
	Hart R2X	101	6	0	1.9 / ST	—	1c	107	95	83	97	103	109	
	Mikado R2X	98	5	0	1.9 / ST	Yes	1c	102	91	99	95	99	—	
	Akras R2	100	37	0	1.7 / T	—	1c	100	100	100	100	100	100	
S005-C9X	107	9	0	2.3 / S	—	1c	111	95	104	102	102	—		
TH 87003 R2X	96	23	0	1.8 / ST	Yes	1c	114	96	88	84	105	—		
Mid Season Zone	Sunna R2X	101	16	1	1.7 / T	Yes	1c	108	89	101	88	98	106	
	B0041RX	105	5	1	1.7 / T	—	1k	107	107	100	99	106	—	
	P005A27X	101	18	1	1.8 / ST	—	1c	113	93	104	85	107	106	
	P006A37X	107	17	1	1.8 / ST	—	1c	112	99	98	100	105	116	
	Bourke R2X	103	11	1	1.8 / ST	—	1k	108	101	98	90	104	—	
	PV 22s002 R2X	103	6	1	1.7 / T	—	—	112	96	88	95	109	102	
	PS 0068 XR	105	9	2	1.8 / ST	—	1c	109	96	103	91	100	—	
	PV 16s004 R2X	100	15	2	1.8 / ST	Yes	1k	107	105	96	96	106	—	
	TH82005 R2X	110	5	3	1.8 / ST	—	—	114	96	104	99	122	—	
	Kudo R2X	105	11	3	1.7 / T	—	—	110	106	111	97	107	—	
CHECK CHARACTERISTICS								Akras R2 (bu/ac)						
Akras R2		55	37	123				75	57	38	30	77	63	
		bu/ac site years		days				CV%	4.4	4.3	8.3	7.5	4.6	7.1
								LSD%	8	6	13	11	7	12
								Sign Diff.	Yes	Yes	Yes	Yes	Yes	Yes
								Seeding Date	17-May	18-May	12-May	17-May	15-May	17-May
								Harvest Date	28-Sep	04-Oct	21-Sep	15-Sep	27-Sep	30-Sep

1 Relative days to maturity based on multiple year average.

2 Iron Deficiency Chlorosis (IDC) Groupings - These ratings determined at a separate trial near Winnipeg that is prone to IDC;

T=Tolerant, ST=Semi-Tolerant, S=Susceptible

3 SCN -Soybean Cyst Nematode Resistance

4 PRR-Phytophthora Race Specific Resistant Genes

EASTERN MANITOBA CONVENTIONAL SOYBEANS

Comments:

The eastern Manitoba conventional soybean variety trial was sponsored by Manitoba Pulse & Soybean Growers.

Variety Descriptions

Maturity Zone	Variety	Yield % Check	Site Years Tested	Maturity (days) ¹ +/- of Check	Hilum Colour	IDC ² Rating/Group	
Early Season Zone	Norfolk	91	24	-7	IY	2.3 / S	
	Fjord	92	16	-4	IY	2.0 / ST	
	AAC Halliô	100	43	-3	Y	2.0 / ST	
	Siberia	104	15	-2	IY	1.8 / ST	
Experimental lines that are being tested / proposed for registration in Canada							
	OT20-01	92	2	-4	Y	1.7 / T	
	SVX22T000S32	105	4	-3	IY	1.8 / ST	
Mid Season Zone	OAC Prudence	100	140	0	Y	1.6 / T	
	Reynolds	107	21	3	IY	2.3 / S	
	Liska	115	10	4	Y	2.3 / S	
	Primo	99	10	5	IY	1.9 / ST	
	Kebek	102	21	6	Y	1.8 / ST	
	Baffin	107	10	6	IY	2.0 / ST	
	Experimental lines that are being tested / proposed for registration in Canada						
		SVX21T000S1	105	10	0	IY	2.1 / ST
		CM-6	97	4	2	Y	1.8 / ST
		OT20-02	109	2	2	Y	1.9 / ST
		PR130933Z-05	102	2	2	IY	1.8 / ST
		SVX21T00S2	107	10	2	IY	1.7 / T
	OT20-03	106	2	2	Y	1.8 / ST	
	PR130077Z-28	103	4	3	IY	2.0 / ST	
	SVX22T000S33	110	4	3	IY	2.0 / ST	
	OT20-06	113	2	4	Y	1.8 / ST	
	CLS13-005.008	110	2	6	IY	2.1 / ST	
	CRGS 18.1	113	2	6	IY	1.9 / ST	
Long Season Zone	Abaca	127	5	7	IY	1.8 / ST	
	Meteor	101	21	7	IY	2.4 / S	
	Mozart	109	2	8	Y	1.9 / ST	
	Aurelina	119	5	8	IY	1.8 / ST	
	Jago	111	10	9	Y	2.1 / ST	
	Mayaô	101	5	10	Y	1.7 / T	
	Stanley	116	8	11	IY	2.1 / ST	
	Hana	117	2	12	Y	1.9 / ST	
	Astor	114	14	13	Y	1.9 / ST	
	Experimental lines that are being tested / proposed for registration in Canada						
		CRGS 17.1	111	2	7	Y	2.3 / S
	SVX22T000S34	119	4	7	IY	1.9 / ST	
	CLS13-005.001	112	2	8	Y	2.1 / ST	
	OT18-01	120	11	8	Y	1.9 / ST	
	CRGS 16.1	108	2	8	Y	1.9 / ST	
	CLS13-005.014	125	2	9	IY	2.2 / ST	
	PR130312Z-10-04	105	2	10	IY	2.0 / ST	
	SVX22T00S35	115	4	10	IY	2.0 / ST	
	DL21-3009	115	2	11	Y	2.0 / ST	
	DL18.3004	119	8	12	Y	2.0 / ST	
	DL21-3007	119	2	12	Y	2.0 / ST	
	DL21-3010	121	2	13	Y	2.0 / ST	
	CLS13-005.021	122	2	13	IY	1.9 / ST	
CHECK CHARACTERISTICS							
OAC Prudence		47	140	114			
		bu/acre	site years	days			

1 Maturity Ratings are averaged across Carman, Morris, Portage, St. Adolphe sites.

2 Iron Deficiency Chlorosis (IDC) Groupings - These long term ratings determined at a separate trial near Winnipeg that is prone to IDC:

T=Tolerant, ST=Semi-Tolerant, S=Suceptible

Yield Comparisons

Maturity Zone	Variety	Beausejour	Stonewall	Morris	Portage	
Early Season Zone	Norfolk	68	67	84	75	
	Fjord	82	89	91	70	
	AAC Halliô	98	87	104	83	
	Siberia	84	92	88	91	
	Experimental lines that are being tested / proposed for registration in Canada					
	OT20-01	—	—	92	92	
	SVX22T000S32	101	111	104	109	
Mid Season Zone	OAC Prudence	100	100	100	100	
	Reynolds	106	113	104	100	
	Liska	109	115	105	117	
	Primo	100	106	91	91	
	Kebek	103	121	119	100	
	Baffin	107	96	123	106	
	Experimental lines that are being tested / proposed for registration in Canada					
		SVX21T000S1	100	95	90	94
		CM-6	94	97	94	104
		OT20-02	—	—	111	106
		PR130933Z-05	—	—	106	96
		SVX21T00S2	110	108	100	96
		OT20-03	—	—	107	104
		PR130077Z-28	99	94	115	103
		SVX22T000S33	109	112	113	106
	OT20-06	—	—	117	108	
	CLS13-005.008	—	—	115	104	
	CRGS 18.1	—	—	112	113	
Long Season Zone	Abaca	—	—	127	123	
	Meteor	107	108	94	107	
	Mozart	—	—	108	110	
	Aurelina	—	—	133	116	
	Jago	109	122	115	108	
	Mayaô	—	—	107	99	
	Stanley	—	—	128	123	
	Hana	—	—	130	104	
	Astor	—	—	121	104	
	Experimental lines that are being tested / proposed for registration in Canada					
		CRGS 17.1	—	—	113	110
		SVX22T000S34	118	128	124	112
		CLS13-005.001	—	—	113	110
		OT18-01	—	—	115	108
		CRGS 16.1	—	—	120	96
	CLS13-005.014	—	—	131	118	
	PR130312Z-10-04	—	—	110	100	
	SVX22T00S35	110	94	134	115	
	DL21-3009	—	—	122	107	
	DL18.3004	—	—	136	120	
	DL21-3007	—	—	121	118	
	DL21-3010	—	—	123	119	
	CLS13-005.021	—	—	133	111	
Check Characteristics OAC Prudence (bu/acre)		48	20	38	35	
	CV%	5.2	8.5	9.0	9.7	
	LSD%	9	15	17	17	
	Sign Diff.	Yes	Yes	Yes	Yes	
	Seeding Date	17-May	25-May	18-May	28-May	
	Harvest Date	27-Sep	01-Oct	30-Sep	05-Oct	

WESTERN MANITOBA CONVENTIONAL SOYBEANS

Comments:

The western Manitoba conventional trial was sponsored by Manitoba Pulse & Soybean Growers.

Variety Descriptions

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

¹ Maturity Rating locations — Melita and Swan River. Actual maturity will depend on seasonal growing conditions.

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EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

The eastern Manitoba herbicide tolerant soybean trial was sponsored by Manitoba Pulse & Soybean Growers.

Variety Descriptions

Maturity Zone	Variety	Type ¹	Yield %	Site Years	Maturity (days) ²	Hilum Colour	IDC ³	Resistance	
			Check	Tested	+/- of Check	Rating/Group	SCN ⁴	PRR ⁵	
Very Early Season Zone	NSC Dauphin RR2X	R2X	80	6	-15	IY	2.1 / ST	—	1c
	BY Rundle XT	R2X	74	6	-15	BR	1.9 / ST	Yes	1c,3a
	Fresco R2X	R2X	75	12	-13	BL	2.0 / ST	—	—
	S001-D8X	R2X	88	12	-9	IY	1.9 / ST	—	1c
	SI 00319XT	R2X	87	6	-8	IY	2.0 / ST	—	1c
	P003A97X	R2X	96	11	-8	GR	1.8 / ST	Yes	1k
	SI 000919XT	R2X	88	12	-7	BL	1.7 / T	—	—
	P001A48X	R2X	92	17	-7	TN	1.8 / ST	—	1c
	003-R5X	R2X	99	6	-6	IY	1.9 / ST	—	1c
	Komodo R2	R2Y	102	11	-6	BL	2.2 / ST	Yes	1c
	P005A83X	R2X	96	17	-6	BL	1.7 / T	Yes	1c
	TH89004 R2X	R2X	87	17	-6	BR	1.9 / ST	—	1c
	B0012RX	R2X	96	6	-6	BR	1.7 / T	—	1k, 6
Experimental lines that are being tested / proposed for registration in Canada									
	SV175101Z-02-07-07	E3	74	6	-13	BL	1.9 / ST	—	—
Early Season Zone	SI 001XTN	R2X	99	23	-5	BL	1.7 / T	Yes	1k
	NSC Redvers RR2X	R2X	92	17	-5	BL	1.9 / ST	Yes	1c
	Akras R2	R2Y	102	27	-4	BL	1.8 / ST	—	1c
	Young R2X	R2X	97	6	-4	BL	1.7 / T	Yes	1c
	S003-Z4X	R2X	97	12	-4	BF	1.9 / ST	—	1c
	B0041RX	R2X	101	6	-4	GR	1.7 / T	—	1k
	PV 22s002 R2X	R2X	100	6	-4	BL	1.7 / T	—	—
	S005-C9X	R2X	94	12	-3	BL	2.3 / S	—	1c
	Mikado R2X	R2X	96	6	-3	BL	1.9 / ST	Yes	1c
	DKB0008-87	R2X	101	6	-3	BL	1.8 / ST	Yes	1c,1k
	RX Acron	R2X	100	14	-3	BL	1.8 / ST	Yes	—
	Hart R2X	R2Y	97	6	-3	BR	1.9 / ST	—	1c
	CP00621X	R2X	101	4	-3	BR	1.7 / T	Yes	1c,3a
	Bourke R2X	R2X	102	23	-2	BL	1.8 / ST	—	1k
	NSC Holland RR2X	R2X	109	6	-2	BR	1.8 / ST	—	1c
	Merritt R2X	R2X	99	12	-2	BL	1.8 / ST	Yes	1c,1 k
	Sunna R2X	R2X	103	23	-2	GR	1.7 / T	Yes	1c
	DKB002-32	R2X	98	12	-2	BR	1.8 / ST	Yes	1k
	PS 0068 XR	R2X	98	16	-2	BL	1.8 / ST	—	1c
P006A37X	R2X	108	23	-2	BR	1.8 / ST	—	1c	
Experimental lines that are being tested / proposed for registration in Canada									
	PV 15S0009R2X	R2X	97	17	-5	BL	1.8 / ST	—	—
	SV185067-06-03	E3	89	6	-4	BR	2.0 / ST	—	—
	SV185067-06-04	E3	92	6	-1	BR	1.9 / ST	—	—

(continued) EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

Maturity Zone	Variety	Type ¹	Yield % Check	Site Years Tested	Maturity (days) ² +/- of Check	Hilum Colour	IDC ³ Rating/Group	Resistance SCN ⁴	PRR ⁵
Mid Season Zone	NSC Sperling RR2Y	R2Y	105	21	-1	IY	1.8 / ST	-	1a, 3a
	Barker R2X	R2X	99	21	-1	BL	1.8 / ST	Yes	1k
	NSC Cartier RR2X	R2X	96	10	-1	BL	1.8 / ST	-	3a
	PV 16s004 R2X	R2X	100	23	-1	BL	1.8 / ST	Yes	1k
	TH 87003 R2X	R2X	96	27	-1	BL	1.8 / ST	Yes	1c
	B0051RX	R2X	99	6	-1	BR	1.8 / ST	—	1c
	DKB005-52	R2X	100	28	0	BL	1.8 / ST	Yes	1c
	SI 00620XTN	R2X	103	6	1	BL	1.7 / T	Yes	1c
	Kudo R2X	R2X	100	8	1	BL	1.7 / T	—	—
	TH82005 R2X	R2X	104	6	1	BR	1.8 / ST	—	1k
	PS 0074 R2	R2Y	104	21	1	BR	1.7 / T	—	—
	DKB008-48	R2X	112	6	1	BL	1.8 / ST	Yes	1c,1k
	Mao R2X	R2X	106	4	2	BL	1.7 / T	Yes	1c
	Elmo E3	E3	100	8	2	BR	1.8 / ST	Yes	—
	S007-A2XS	R2X	105	12	2	GR	1.8 / ST	—	—
P00A49X	R2X	103	16	2	BR	1.7 / T	Yes	1c	
SI 007XTN	R2X	105	20	2	BL	1.8 / ST	Yes	1c	
Long Season Zone	NSC Winkler RR2X	R2X	103	16	3	BL	1.8 / ST	Yes	1c
	TH89009 R2XN	R2X	105	12	5	BL	1.7 / T	Yes	1k
	TH81007 R2XN	R2X	106	4	5	BR	1.7 / T	Yes	1c
CHECK CHARACTERISTICS		DKB005-52	43 bu/acre	28 site years	119 days				

- 1 R2X -Xtend technology, R2Y-Roundup-Ready 2 technology, RR1 - Roundup Ready 1 technology, E3 Enlist - 2-4D Tolerant
- 2 Maturity Ratings are averaged across Carman, Morris, Portage, St. Adolphe sites over multiple years
- 3 Iron Deficiency Chlorosis (IDC) Groupings -These ratings determined at a separate trial near Winnipeg that is prone to IDC:
T=Tolerant, ST=Semi-Tolerant, S=Susceptible
- 4 SCN -Soybean Cyst Nematode Resistance
- 5 PRR-Phytophthora Race Specific Resistant Genes



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EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

Yield Comparisons

Maturity Zone	Variety	2021 Yield: % of DKB005-52						
		Early Sites		Core Sites				
		Beausejour	Stonewall	Carman	Morris	Portage	St Adolphe	
Very Early Season Zone	NSC Dauphin RR2X	85	91	73	80	79	78	
	BY Rundle XT	69	89	74	81	70	67	
	Fresco R2X	75	81	77	73	95	66	
	S001-D8X	80	123	91	80	97	94	
	SI 00319XT	84	107	92	79	88	87	
	P003A97X	101	107	93	95	102	86	
	SI 000919XT	113	112	97	90	81	93	
	P001A48X	98	116	84	81	110	83	
	003-R5X	106	94	98	92	108	92	
	Komodo R2	101	127	98	91	97	98	
Early Season Zone	P005A83X	86	111	102	94	109	95	
	TH89004 R2X	97	106	92	82	88	96	
	B0012RX	101	98	88	103	89	90	
	Experimental lines that are being tested / proposed for registration in Canada							
	SV175101Z-02-07-07	80	123	80	56	78	45	
	SI 001XTN	92	101	105	83	93	98	
	NSC Redvers RR2X	110	97	98	89	90	90	
	Akras R2	122	129	105	93	114	100	
	Young R2X	92	105	107	88	93	106	
	S003-Z4X	103	107	102	97	102	91	
Early Season Zone	B0041RX	113	112	96	96	100	92	
	PV 22s002 R2X	102	114	103	90	99	107	
	S005-C9X	103	118	88	96	93	85	
	Mikado R2X	98	109	91	87	103	104	
	DKB0008-87	103	117	100	102	91	100	
	RX Acron	111	116	99	81	102	102	

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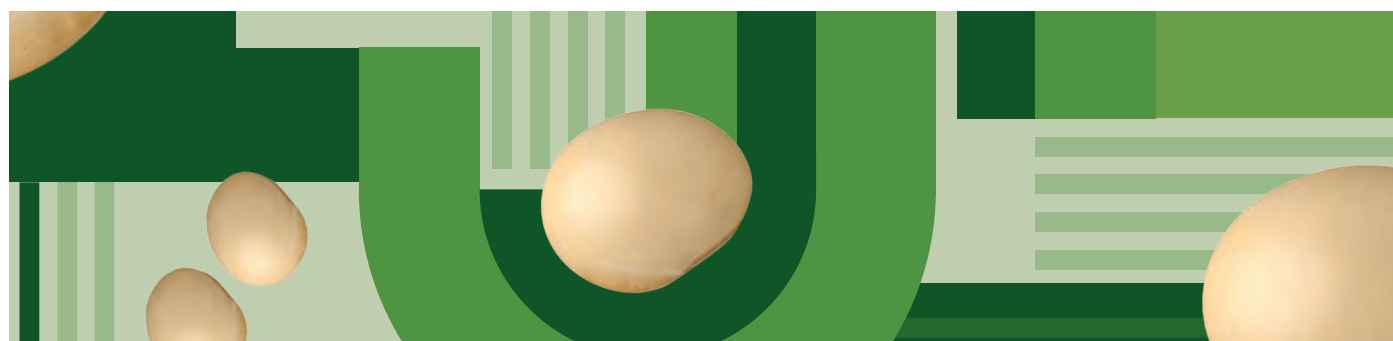
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OILSEED CROPS

(continued) EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

OILSEED CROPS

Maturity Zone	Variety	2021 Yield: % of DKB005-52						
		Early Sites		Core Sites				
		Beausejour	Stonewall	Carman	Morris	Portage	St Adolphe	
Early Season Zone	Hart R2X	97	126	92	95	102	89	
	CP00621X	—	—	100	103	107	87	
	Bourke R2X	109	119	106	92	102	102	
	NSC Holland RR2X	125	127	112	89	106	99	
	Merritt R2X	108	100	109	96	107	98	
	Sunna R2X	112	99	109	97	110	96	
	DKB002-32	107	116	101	94	107	102	
	PS 0068 XR	—	—	97	88	100	96	
	P006A37X	119	118	116	95	99	104	
	Experimental lines that are being tested / proposed for registration in Canada							
	PV 15s0009R2X	106	113	94	83	83	94	
	SV185067-06-03	91	112	86	84	91	87	
SV185067-06-04	97	112	88	84	94	92		
Mid Season Zone	NSC Sperling RR2Y	—	—	102	104	107	102	
	Barker R2X	—	—	109	91	109	99	
	NSC Cartier RR2X	—	—	96	94	98	97	
	PV 16s004R2X	107	105	110	94	93	102	
	TH 87003 R2X	108	103	111	91	101	98	
	B0051RX	103	106	93	103	95	94	
	DKB005-52	100	100	100	100	100	100	
	SI 00620XTN	105	115	106	94	100	111	
	SI 007XTN	108	109	112	106	121	109	
	Kudo R2X	—	—	116	95	116	116	
	TH82005 R2X	99	115	104	97	114	115	
	PS 0074 R2	—	—	115	100	125	98	
	DKB008-48	110	134	121	102	105	121	
	Mao R2X	—	—	119	101	94	104	
	Elmo E3	—	—	109	101	115	102	
S007-A2XS	124	144	114	96	98	111		
P00A49X	—	—	110	101	117	119		
Long Season Zone	NSC Winkler RR2X	—	—	109	103	104	118	
	TH89009 R2XN	—	—	113	101	127	117	
	TH81007 R2XN	—	—	109	108	98	109	
Check Characteristics	DKB005-52 (bu/ac)	55	14	56	54	36	21	
	CV %	6.8	8.7	6.2	5.4	8.7	7.1	
	LSD%	11	16	10	8	14	11	
	Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	
	Seeding Date	17-May	25-May	19-May	18-May	28-May	14-May	
	Harvest Date	24-Sep	25-Sep	29-Sep	30-Sep	05-Oct	22-Sep	



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SUNFLOWERS - CONFECTIONARY TYPE

Comments:

These varieties were tested and data donated by the Manitoba Crop Alliance (MCA).

All sunflowers varieties listed are susceptible to sclerotinia and sunflower rust strains present in Manitoba.

Genetic resistance to verticillium wilt is rated as moderately susceptible to moderately resistant for all sunflower varieties presented.

Plant population and environment will contribute greatly to the final product.

Variety Descriptions

Company	Hybrid	Genetic Traits ¹	Site Years	Yield % Check	Maturity ² (+/- check)	Height (inches)	2021 Seed Sizing (%) ³		
							>22/64	>20/64	<20/64
NuSeed	6946 DMR	DM	30	100	0	0	37	32	29
NuSeed	Panther DMR	DM	38	100	0	-2	57	26	14
Experimental lines tested/proposed for registration in Canada									
CHS Sunflower	20-EXP3	ExSun	2	98	3	-2	71	19	10
CHS Sunflower	21-EXP1	ExSun	2	107	5	2	33	40	27
MCA	EX 35957	ExSun	5	113	-3	3	66	23	11
NuSeed	N6L377 CL	CL	2	104	1	-3	66	25	10
CHECK CHARACTERISTICS									
6946 DMR			30	3058	122	66			
			site years	lb/ac	days	inches			

1 Genetic traits include CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.

2 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

3 Totals may not add to 100% due to rounding; information based off two sites at Melita and Rossendale.

Refer to the MCA website at www.mbcropalliance.ca for more details.

Site Comparisons

Hybrid	Melita						Rossendale					
	Yield (lb/ac)	Maturity ¹ (days to R9)	2021 Seed Sizing (%) ²			Test Wt (lb/bu A)	Yield (lb/ac)	Maturity ¹ (days to R9)	2021 Seed Sizing (%) ²			Test Wt (lb/bu A)
			>22/64	>20/64	<20/64				>22/64	>20/64	<20/64	
6946 DMR	2670	—	45	29	26	26.1	1896	113	19	46	34	—
Panther DMR	2968	—	62	23	15	25.7	1925	114	35	42	23	—
Experimental lines being tested/proposed for registration in Canada												
20-EXP3	2762	—	75	17	8	23.4	1723	116	67	21	11	—
21-EXP1	3166	—	33	40	27	23.8	1697	118	—	—	—	—
EX 35957	2771	—	62	20	19	26.5	1674	113	57	31	12	—
N6L377 CL	2811	—	66	22	12	22.8	1935	114	66	27	8	—
Site Average	2858					24.7	1808	115				—
CV%	12.1						11.0					
Sign Diff	No						No					
LSD (0.05)	—						—					
Planting Date	12-May						12-May					
Desiccation Date	—						28-Sep					
Harvest Date	06-Oct						11-Oct					

1 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

2 Totals may not add to 100% due to rounding.

Columns with — had data unavailable at time of print, please contact Daryl Rex or refer to the MCA website at www.mbcropalliance.ca for more details.

SUNFLOWERS — OIL TYPE

Comments:

These varieties were tested and data donated by the Manitoba Crop Alliance (MCA).

Oilseed sunflower markets include birdfood, oil crush and de-hull. Variety selection becomes more important when trying to capture de-hull markets. Choose varieties with better de-hull ratio, larger size and higher test weight.

Plant population and environment will contribute greatly to the final product.

Note that the check variety has moved to P63ME80 in 2021.

Variety Descriptions

Company	Variety	Herbicide/Disease ¹ Tolerance	Site Years	Yield % check	Maturity ² (+/- check)	Height (inches)	% Oil	Oil ³ Type	Test ⁴ Weight
Pioneer Hi-Bred	P63HE60	ExSun / DM	15	101	3	-4	45.5	HO	31.7
Pioneer Hi-Bred	P63ME80	ExSun / DM	18	100	0	0	48.4	NS	30.9
NuSeed	N4H302 E	ExSun	9	94	-4	2	44.0	HO	28.6
NuSeed	N4HM354	CL / DM	15	112	-2	-7	47.7	NS	33.0
NuSeed	Talon	ExSun	18	102	-3	-3	44.1	NS	28.2
Experimental lines tested/proposed for registration in Canada									
Pioneer Hi-Bred	P63HE501	ExSun	5	106	-1	2	42.9	HO	28.1
CHS Sunflower	8D310CL	CL	5	113	3	5	39.5	CO	24.8
NuSeed	N4H161 CL	CL	3	98	-5	-7	44.0	HO	28.0
NuSeed	NLKP74437	CL	3	120	-1	7	44.6	NS	27.7
WinField United CROPLAN	CP432E	ExSun	5	114	-2	0	43.4	NS	28.1
WinField United CROPLAN	CP455E	ExSun	5	126	2	2	45.2	HO	27.8
CHECK CHARACTERISTICS									
P63ME80			18	3012	126	65			
			site years	lb/ac	days	inches			

1 Genetic traits include CL = Clearfield herbicide tolerance; ExSun = Express SG herbicide tolerance; DM = Downy Mildew Resistance.

2 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

3 Oil Type designations are NS=NuSun; HO=High Oleic; CO = ConOil

4 Test weights reported in lbs per Avery (Canadian) bushel.

Site Comparisons

Hybrid	Carberry					Melita					Rossendale						
	Yield (lb/ac)	Moisture (%)	Maturity ¹ (days to R9)	Test Wt ² (lb/bu)	Oil (%)	Yield (lb/ac)	Moisture (%)	Maturity ¹ (days to R9)	Test Wt ² (lb/bu)	Oil (%)	Yield (lb/ac)	Moisture (%)	Maturity ¹ (days to R9)	Test Wt ² (lb/bu)	Oil (%)		
N4H302 E	2265	15.1	139	26.4	47.7	2769	8.0	—	30.5	48.1	1180	9.6	115	21.5	39.8		
N4HM354	2573	12.8	139	27.5	50.6	2871	7.7	—	32.9	50.0	1405	9.1	114	29.1	46.1		
Talon	2713	14.9	142	26.4	46.3	2794	7.9	—	28.6	47.1	1336	9.5	113	20.6	37.6		
P63HE60	2546	12.7	140	26.9	47.4	2374	8.4	—	30.1	44.4	1548	9.2	114	27.7	40.3		
P63ME80	2714	12.5	142	29.3	48.9	2381	8.5	—	30.3	47.2	1270	8.9	119	25.8	44.7		
Experimental lines being tested/proposed for registration in Canada																	
8D310CL	3104	15.5	145	27.1	42.7	2769	9.0	—	27.8	40.5	1556	8.9	120	19.3	35.2		
P63HE501	2270	12.1	139	28.4	45.0	2946	7.8	—	32.0	42.9	1495	9.1	117	25.8	39.2		
N4H161 CL	2266	14.8	144	27.3	46.2	2610	8.5	—	31.1	46.6	1334	8.7	108	25.7	39.1		
NLKP74437	2881	20.3	139	26.5	45.8	3242	9.7	—	31.0	46.3	1537	9.1	121	27.7	41.8		
CP432E	2826	12.5	142	28.4	46.4	3065	8.1	—	31.1	44.4	1678	10.0	115	26.2	40.1		
CP455E	3379	16.4	142	27.4	46.2	3412	9.0	—	31.3	48.0	1837	9.0	119	26.3	43.9		
Site Average	2685	14.5	141	27.4	46.7	2839	8.4	—	30.6	46.0	1471	9.2	116	24.9	40.7		
CV%	7.4						8.4						14.5				
Sign Diff	Yes						Yes						Yes				
LSD (0.05)	444						405						365				
Planting Date	12-May						12-May						12-May				
Desiccation Date	29-Sep						21-Sep						28-Sep				
Harvest Date	12-Oct						06-Oct						11-Oct				

1 Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown.

2 Test weights are reported in lbs per Avery (Canadian) bushel.

Refer to the MCA website at www.mbcropalliance.ca for more details.

Distributor Contacts for Listed Varieties in Seed Manitoba 2022

Look up variety within the correct CROP KIND to find the company, then look for company phone number in the box at bottom of section.

CANOLA

- see Canola table to determine which companies market specific varieties -

FLAX

AAC Bright	SeCan
AAC Bravo	FP Genetics
AAC Marvelous	FP Genetics
AAC Prairie Sunshine	SeCan
AC Emerson	SeCan
CDC Bethune	SeCan
CDC Buryu	SeCan
CDC Dorado	SeedNet
CDC Glas	SeCan
CDC Neela	CANTERRA SEEDS
CDC Plava	SeCan
CDC Rowland	SeCan
CDC Sanctuary	SeCan
CDC Sorrel	SeCan
Hanley	SeCan
Lightning	CANTERRA SEEDS
NuLin 50	Nutrien Ag Solutions Proven Seed
Prairie Blue	SeCan
Prairie Grande	SeCan
Prairie Sapphire	Alliance Seed
Prairie Thunder	CANTERRA SEEDS
Taurus	FP Genetics
Topaz	Alliance Seed
Vimy	SeCan
WestLin 60	Nutrien Ag Solutions Proven Seed
WestLin 70	Nutrien Ag Solutions Proven Seed
WestLin 71	Nutrien Ag Solutions Proven Seed
WestLin 72	Nutrien Ag Solutions Proven Seed

CONVENTIONAL SOYBEANS

Astor	Ceres Global Seeds
DH863	Ceres Global Seeds
Fjord	Ceres Global Seeds
Meteor	Ceres Global Seeds
Norfolk	Ceres Global Seeds
Reynolds	Ceres Global Seeds
Stanley	Ceres Global Seeds
AAC Halli	Interlake.org Inc.
Maxus	Prograin Inc
Siberia	Prograin Inc
Liska	Prograin Inc
Maya	Prograin Inc
Hana	Prograin Inc
OAC Prudence	SeCan
Fjord	SG CERESCO
Kebek	SG CERESCO
Jago	SG CERESCO
Baffin	SG CERESCO
Ambella	SAATBAU LINZ eGen
Abaca	SAATBAU LINZ eGen
Aurelina	SAATBAU LINZ eGen
Mozart	NorthStar Genetics

ROUNDUP READY SOYBEANS

Amirani R2	BrettYoung
Akras R2	BrettYoung
NocomaR2	BrettYoung
Renuka R2X	BrettYoung
RX Acron	BrettYoung
Sunna R2X	BrettYoung
Vidar R2X	BrettYoung
B0012RX	BREVANT seeds
B00071RX	BREVANT seeds
B0011RX	BREVANT seeds
B0030L1	BREVANT seeds
B0040L1	BREVANT seeds
B0041RX	BREVANT seeds
B0051RX	BREVANT seeds

ROUNDUP READY SOYBEANS

B0066L1	BREVANT seeds
SI 000919XT	Ceres Global Seeds
SI 001XTN	Ceres Global Seeds
SI 00319XT	Ceres Global Seeds
SI 00620XTN	Ceres Global Seeds
SI 001XTN	Ceres Global Seeds
SI 007XTN	Ceres Global Seeds
SI 000919XT	Ceres Global Seeds
SI 00620XTN	Ceres Global Seeds
RX000918	CROPLAN
RX00797	CROPLAN
CP00120RX	CROPLAN
CP00419RX	CROPLAN
CP000521X	CROPLAN
CP000620RX	CROPLAN
CP00519RX	CROPLAN
CP00621X	CROPLAN
DKB0003-24	DEKALB
DKB0005-44	DEKALB
DKB0008-87	DEKALB
DKB0009-89	DEKALB
DKB002-32	DEKALB
DKB003-29	DEKALB
DKB005-52	DEKALB
DKB006-29	DEKALB
DKB008-48	DEKALB
Badger R2X	NorthStar Genetics
NSC Cartier RR2X	NorthStar Genetics
NSC Culross RR2X	NorthStar Genetics
NSC Dauphin RR2X	NorthStar Genetics

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NorthStar Genetics

WHEAT | BARLEY | OATS | CORN | SOYBEANS

ROUNDUP READY SOYBEANS

NSC EXP0007X	NorthStar Genetics
NSC EXP001LX	NorthStar Genetics
NSC EXP001PX	NorthStar Genetics
NSC Holland RR2X	NorthStar Genetics
NSC Newton RR2X	NorthStar Genetics
NSC Redvers RR2X	NorthStar Genetics
NSC Sperling RR2Y	NorthStar Genetics
NSC Watson RR2Y	NorthStar Genetics
NSC Winkler RR2X	NorthStar Genetics
NSC Wynyard RR2X	NorthStar Genetics
PV 15s0009 R2X	Nutrien Ag Solutions Proven Seed
PV 16s004 R2X	Nutrien Ag Solutions Proven Seed
PV 20s0006 R2X	Nutrien Ag Solutions Proven Seed
PV 22s002 R2X	Nutrien Ag Solutions Proven Seed
P001A48X	Pioneer Hi-Bred
P003A97X	Pioneer Hi-Bred
P005A27X	Pioneer Hi-Bred
P005A83X	Pioneer Hi-Bred
P006A37X	Pioneer Hi-Bred
P007A08X	Pioneer Hi-Bred
P0007A73X	Pioneer Hi-Bred
P00A75X	Pioneer Hi-Bred
P00A49X	Pioneer Hi-Bred
PS 00095 R2	PRIDE Seeds
PS 0068 XR	PRIDE Seeds
PS 0074 R2	PRIDE Seeds
Devo R2X	Prograin Inc
Elmo E3	Prograin Inc
Evo E3	Prograin Inc
Fresco R2X	Prograin Inc
Kudo R2X	Prograin Inc
Mao R2X	Prograin Inc
Mikado R2X	Prograin Inc
Dextro R2X	Prograin Inc
Fresco R2X	Prograin Inc

ROUNDUP READY SOYBEANS

Gecko R2X	Prograin Inc
Mako R2X	Prograin Inc
Merino R2X	Prograin Inc
Torro R2	Prograin Inc
Barker R2X	SeCan
Bourke R2X	SeCan
Fisher R2X	SeCan
Foote R2	SeCan
Hart R2X	SeCan
Mahony R2	SeCan
McLeod R2	SeCan
Merritt R2X	SeCan
Prince R2X	SeCan
Young R2X	SeCan
003-R5X	Syngenta Canada
CW1760842	Syngenta Canada
S0009-F2X	Syngenta Canada
S0009-M2	Syngenta Canada
S001-D8X	Syngenta Canada
S003-Z4X	Syngenta Canada
S005-C9X	Syngenta Canada
S006-M4X	Syngenta Canada
S007-A2XS	Syngenta Canada
S007-Y4	Syngenta Canada
Astro R2	Thunder Seeds Canada
TH 33003R2Y	Thunder Seeds Canada
TH 32004R2Y	Thunder Seeds Canada
TH71001E	Thunder Seeds Canada
TH82006 R2X	Thunder Seeds Canada
TH 87003 R2X	Thunder Seeds Canada
TH 88005R2XN	Thunder Seeds Canada
TH 88007R2X	Thunder Seeds Canada
TH81007 R2XN	Thunder Seeds Canada
TH82005 R2X	Thunder Seeds Canada
TH89004 R2X	Thunder Seeds Canada
TH89009 R2XN	Thunder Seeds Canada
Komodo R2	Maizex seeds
Buffalo R2	Maizex seeds

Wheat
AAC Brandon
AAC Starbuck
AAC LeRoy 
CDC SK Rush

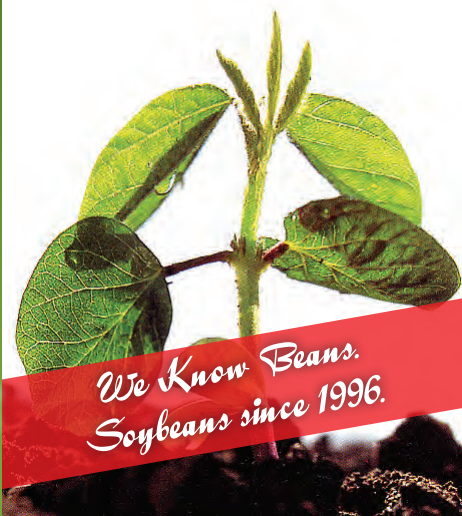
Oats
CDC Endure 
AAC Douglas 
CS Camden
Secan ORE42M

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SUNFLOWERS

- see Sunflower table to determine which companies market specific varieties -

DISTRIBUTOR	PHONE NUMBER
Agriculture and Agri Food Canada.....	1-613-759-1610
Alliance Seed	1-877-270-2890
BASF	1-877-371-2273
Bayer CropScience.....	1-888-283-6847
BrettYoung.....	1-800-665-5015
BREVANT seeds	1-800-265-7403
CANTERRA SEEDS	1-877-744-4321
Cargill Ltd.	1-888-855-8558
Ceres Global Seeds	1-888-974-7246
CHS Sunflower.....	1-701-484-5313
DEKALB	1-800-667-4944
FP Genetics.....	1-877-791-1045
Interlake.org Inc.....	1-204-641-0230
Maizex Seeds.....	1-519-682-1720
NorthStar Genetics	1-204-262-2425
Nuseed Americas Inc	1-877-841-7447
Nutrien Ag Solutions Proven Seed	1-855-569-9444
Pioneer Hi-Bred.....	1-306-385-3001
PRIDE Seeds	1-800-265-5280
SAATBAU LINZ eGen	1-514-609-0881
SeCan	1-800-665-7333
SeedNet	1-403-715-9771
SG CERESCO	1-450-454-2727
Syngenta Canada Inc.....	1-877-964-3682
Thunder Seeds Canada.....	1-306 213 8888
WinField United CROPLAN	1-306-249-5112

Growers List



FLAX

S=Select; F=Foundation; R=Registered; C=Certified; ☼ Indicates Plant Breeders Rights (PBR) protection under UPOV 1978 and ☺ protected or pending under UPOV 1991.

AAC BRAVO☼

Domain; Manness, Ronald & Patricia & Graeme & Adeena
.....204-782-2173 C

AAC MARVELOUS☺

Domain; Manness, Ronald & Patricia & Graeme & Adeena
.....204-782-2173 R

CDC BETHUNE☼

Oak Lake; Gerlyn Acres Ltd.204-855-3128 C

CDC DORADO☺

Holland; Kubinec, Anastasia.....204-526-2776 R

CDC GLAS☼

Boissevain; Boissevain Select Seeds.....204-534-6846 C
Crystal City; Buchanan Seeds.....204-873-2661 C
Foxwarren; George Graham Seed Farms Ltd.....204-773-6389 C
Notre Dame De Lourdes; Durand Seeds Inc.....204-248-2268 F R
Pilot Mound; Smith, Walter George & Schroeder, David
.....204-825-2212 C
Pilot Mound; Wallace, Joe204-825-4543 R
Rosenort; Friesen Seeds Ltd.....204-746-8325 R
Sanford; Bergen, Edward Harry & Tim.....204-736-2278 C

CDC NEELA☺

Fannystelle; Nadeau, Brian204-436-2469 C
Reston; Avondale Seed Farm Ltd.....204-877-3813 C

CDC ROWLAND☺

Boissevain; Armstrong Seeds, Duncan T. & AJ.....204-534-2566 R
Boissevain; Boissevain Select Seeds.....204-534-6846 S F
Carman; Menold, Thomas204-750-2682 R
Crandall; Rolling View Farms Inc.....204-764-0028 R
Crystal City; Buchanan Seeds.....204-873-2661 R
Dufrost; Catellier, Roger & Richard204-746-4175 R
Notre Dame De Lourdes; Durand Seeds Inc.....204-248-2268 S F
Oak Lake; Gerlyn Acres Ltd.204-855-3128 R
Oakville; Miller Agritec Farm Inc.....204-267-2363 R
Portage La Prairie; Pugh Seeds Ltd.....204-871-1467 R
Reinland; Ens Farms Ltd.204-325-4658 R
Reston; Avondale Seed Farm Ltd.....204-877-3813 R
Sanford; Bergen, Edward Harry & Tim204-736-2278 R
Somerset; Sierens, Joseph & Chris204-744-2883 R
Souris; David Kohut Ltd.204-483-3063 R
Stonewall; Unger Seed Farm Ltd.....204-467-8630 R
Wawanesa; Ellis Seeds204-824-2290 R

SOYBEANS

AAC HALLI☺

Arborg; Johnson, Reginald H., James G. & Tim G.....204-642-2570 S R C

BADGER R2X

Grosse Isle; Rutherford Farms Ltd.204-467-5613 S F

BARKER R2X

Carman; RJP Seed Ltd.....204-745-3304 C
Portage La Prairie; Askin, Raymond T. & Jeffrey S.204-856-3483 F R

BISHOP R2

Arborg; Timchishen, Donald Victor & Darcy.....204-641-1288 R

BOURKE R2X

Arborg; Timchishen, Donald Victor & Darcy204-641-1288 F C
Brandon; Wheat City Seeds Ltd.204-727-3337 R

SOYBEANS

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Carman; RJP Seed Ltd.....204-745-3304 C
Navin; David G. James And James Farms Ltd.....204-222-8785 C
Oak Bank; Willowdale Seeds204-801-0659 C
Oak Bluff; Gousseau, Marcel E.204-981-6953 R
Oakville; Miller Agritec Farm Inc.....204-267-2363 R
Portage La Prairie; Askin, Raymond T. & Jeffrey S.204-856-3483 C
St Anne; Seine River Seed Farm204-371-7700 C
Stonewall; Unger Seed Farm Ltd.....204-467-8630 R
Warren; Riddell Seed Co.204-227-5679 S F R
Wawanesa; Ellis Seeds204-824-2290 C

BRIGGS R2X

Dauphin; Kaleta, James & Debra204-638-7800 F

CP000521X

Rosenort; Friesen Seeds Ltd.....204-746-8325 S R

CP000620RX

Rosenort; Friesen Seeds Ltd.....204-746-8325 S F

CP00120RX

Rosenort; Friesen Seeds Ltd.....204-746-8325 S R

CP00419RX

Rosenort; Friesen Seeds Ltd.....204-746-8325 S R

CP00519RX

Rosenort; Friesen Seeds Ltd.....204-746-8325 S R

CP00621X

Rosenort; Friesen Seeds Ltd.....204-746-8325 S F

FISHER R2X

Ste. Rose Du Lac; PNR Farms.....204-477-2118 C

HART R2X

Arborg; Timchishen, Donald Victor & Darcy204-641-1288 S R C
Carman; RJP Seed Ltd.....204-745-3304 C
Dufrost; Catellier, Roger & Richard204-746-4175 C
Oak Bluff; Gousseau, Marcel E.204-981-6953 R C
Warren; Riddell Seed Co.204-227-5679 S C

KOMODO R2☺

Grosse Isle; Rutherford Farms Ltd.204-467-5613 S F

MAHONY R2

Brandon; Wheat City Seeds Ltd.204-727-3337 C
Dauphin; Kaleta, James & Debra204-638-7800 C
Wawanesa; Ellis Seeds204-824-2290 C

MAJOR R2X

Ste. Rose Du Lac; PNR Farms.....204-477-2118 R

MERRITT R2X

Brandon; Wheat City Seeds Ltd.204-727-3337 C
Dufrost; Catellier, Roger & Richard204-746-4175 C

MOZART

Domain; Manness, Ronald & Patricia & Graeme & Adeena
.....204-782-2173 C
Fannystelle; Nadeau, Brian204-436-2469 R C

MYNARSKI R2X

Ste. Rose Du Lac; PNR Farms.....204-447-2118 R

NSC AUBIGNY RR2X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom
.....204-736-2849 S F C
Rosenort; Friesen Seeds Ltd.....204-746-8325 C

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NSC CARTIER RR2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-782-2173	F R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	C
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951	C
Rosenort; Friesen Seeds Ltd.	204-746-8325	C

NSC DAUPHIN RR2X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S F
Grosse Isle; Rutherford Farms Ltd.	204-467-5613	S R
Oak River; J.S.Henry & Son Ltd.	204-566-2422	S R
Reston; Avondale Seed Farm Ltd.	204-877-3813	R
Russell; Keating Seed Farms Inc.	204-773-3854	R

NSC EXP0007X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	R
Grosse Isle; Rutherford Farms Ltd.	204-467-5613	R

NSC EXP001LX

Grosse Isle; Rutherford Farms Ltd.	204-467-5613	R
Oak River; J.S.Henry & Son Ltd.	204-566-2422	R

NSC EXP001PX

Grosse Isle; Rutherford Farms Ltd.	204-467-5613	S F
Oak River; J.S.Henry & Son Ltd.	204-566-2422	S F

NSC GLADSTONE RR2Y

Grosse Isle; Rutherford Farms Ltd.	204-467-5613	C
St. Claude; Rouire, Roland & Guy	204-379-2582	R

NSC HOLLAND RR2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-782-2173	R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S F R
Grosse Isle; Rutherford Farms Ltd.	204-467-5613	R
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951	C
Homewood; Agassiz Seed Farm	204-745-6655	C
Rosenort; Friesen Seeds Ltd.	204-746-8325	S R
St. Claude; Rouire, Roland & Guy	204-379-2582	R

NSC REDVERS RR2X

Darlingford; Morrow, Graham	204-362-8986	C
Oak River; J.S.Henry & Son Ltd.	204-566-2422	C
Plumas; Court Seeds Ltd.	204-386-2354	C
Reston; Avondale Seed Farm Ltd.	204-877-3813	C

NSC RICHER RR2Y

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-782-2173	C
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NSC SPERLING RR2Y

Darlingford; Morrow, Graham	204-362-8986	C
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-782-2173	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	R C
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Rutherford Farms Ltd.	204-467-5613	R
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951	C
Homewood; Agassiz Seed Farm	204-745-6655	C
Rosenort; Friesen Seeds Ltd.	204-746-8325	S C

NSC WATSON RR2Y

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	R
Grosse Isle; Rutherford Farms Ltd.	204-467-5613	C
Reston; Avondale Seed Farm Ltd.	204-877-3813	C
Russell; Keating Seed Farms Inc.	204-773-3854	C
St. Claude; Rouire, Roland & Guy	204-379-2582	C

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NSC WINKLER RR2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena 204-782-2173 C
 Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom 204-736-2849 S F R
 Hazelridge; Saramaga, Robert P. & Andrew 204-771-0951 C
 Rosenort; Friesen Seeds Ltd. 204-746-8325 R C

OAC MORDEN☽

Carman; Ulrich & Monika Menold Ltd. 204-745-2822 S F

OAC PRUDENCE

Carman; Ulrich & Monika Menold Ltd. 204-745-2822 S F

PIKAS R2X

Grosse Isle; Rutherford Farms Ltd. 204-467-5613 S F

PRINCE R2X

Portage La Prairie; Askin, Raymond T. & Jeffrey S. 204-856-3483 C
 Ste. Rose Du Lac; PNR Farms 204-447-2118 C

PS0068XR

Lowe Farm; MB Seeds Ltd. 204-746-2187 C

RX000918

Rosenort; Friesen Seeds Ltd. 204-746-8325 S R

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SI 007XTN

Sanford; Bergen, Edward Harry & Tim 204-736-2278 R

SI 00820XTN

Sanford; Bergen, Edward Harry & Tim 204-736-2278 R

SUNNA R2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena 204-782-2173 F R
 St Anne; Seine River Seed Farm 204-371-7700 R

TH 88005R2XN

Morris; Darrel Marion Farms Ltd. 204-758-3463 C

TRIQUET R2X

Carman; Ulrich & Monika Menold Ltd. 204-745-2822 S

VARUNA R2

Grosse Isle; Rutherford Farms Ltd. 204-467-5613 S F R

YOUNG R2X

Arborg; Timchishen, Donald Victor & Darcy 204-641-1288 S F C
 Darlingford; Morrow, Graham 204-362-8986 C
 Kenton; Stevenson, Richard D.O. & Douglas 204-838-2696 F C
 Kenton; Stevenson, Robert H. & Sidney H. 204-838-2012 F C
 Miniota; Walkers Seed Services 204-748-7264 C
 Reston; Avondale Seed Farm Ltd. 204-877-3813 C
 Warren; Riddell Seed Co. 204-227-5679 S F C
 Wawanesa; Ellis Seeds 204-824-2290 S C

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