Oilseed Crops

Variety Description Key

A "CHECK CHARACTERISTICS" is at the bottom of each table for mustard, 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 2016 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 Comments

For specific notes regarding the canola tables, refer to the CANOLA COMMENTS at the top of page 57.

Soybean Comments

For specific notes regarding the soybean tables, refer to the SOYBEAN COMMENTS at the top of page 62.

The Cereal Seed Experts

FP Genetics is owned by over 150 seedsmen who know and grow our industry-leading cereal varieties. Although these varieties will evolve, one thing will never change—our commitment to bringing the best cereal varieties to Western Canadian growers.

OUR INDUSTRY-LEADING VARIETIES

CDC Plentiful – CWRS • fusarium resistance, high yield, early maturity	**CDC Utmost VB** – CWRS • midge tolerance, high yield	**AC® Muchmore** – CWRS • semi-dwarf, great standability, high yield	**Elgin ND** – CNHR • high yield, high protein	**AC® Transcend** – CWAD • great harvestability, excellent colour retention
AC® Summit – White Milling Oat • high yield, plump kernels	**CDC Ruffian** – White Milling Oat • very high yield, good milling quality	**Bono & Brasetto** – Hybrid Fall Rye • highest yields, high ROI	**AAC Bravo** – Flax • large seed, good yield	**Abarth** – Yellow Pea • large seed, high yield

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For more information on FP Genetics varieties or to find your local seedsmen, visit **fpgenetics.ca**.

FPGenetics

CANOLA

Canola Comments

The Variety Descriptions table summarizes the performance of canola varieties tested in 2016 through the post-registration Canola Performance Trial (CPT). Data is audited by field inspection and a data review process by a joint committee of government and industry. The data presented was collected from trials following scientific protocols to ensure comparisons are unbiased. Detailed notes on other variety attributes, trial management and variety comparisons across multiple years and location can be found at www.canolaperformancetrials.ca.

Performance at individual locations can be compared within the Herbicide Tolerance (HT) group and between groups, but the best performance indicator is to compare varieties over multiple sites. The trial design included grouping varieties by HT, so the LSD (Least Significant Differences) has been included for each group to help determine if yield difference are significant.

Disease Ratings for Canola

Column indicating Disease Tolerance is for Blackleg and Clubroot

Blackleg - The resistant (R) rating shows the greatest ability to suppress blackleg, but can still develop lesions or cankers. Individual field performance may vary from ratings indicated. Better blackleg control is achieved through use of resistant varieties and using a 1 in 4 year canola rotation.

Clubroot Resistant Varieties (information from http://archive.canola-council.org/clubroot/)

Clubroot is long-lived canola disease found in soil and is difficult to manage once it becomes established. Varieties are available that have resistance to the predominant pathotypes, but are not immune to the disease. Testing of your soil to determine if you have clubroot, using genetic resistance and proper crop rotation is recommended to lessen the impact of the disease on canola. To see where clubroot has been found in Manitoba, see www.gov.mb.ca/agriculture/crops/plant-diseases/clubroot-distribution-in-manitoba.html

Varieties with Clubroot Resistance - Bayer CropScience: L135 C, L241C; Brett Young: 6056CR, 6076CR, 6086CR; CANTERRA Seeds: CS2000; Cargill: V12-3, V14-1; Crop Production Services: PV 580 GC, PV 581 GC, PV 590 GCS,VR 9562 GC; Dow AgroSciences: 1020 RR, 2020 CL, 1024 RR; Monsanto/DeKalb:74-54 RR, 75-42 CR; Pioneer Hi-Bred/DuPont: 45H29, 45H33, D3155C, 45CS40; Syngenta: SY4105, SY 4187

CANOLA

SEE CANOLA NOTES for general information

With limited data in the LONG and SHORT season zones for the 2016 canola trials, please visit www.canolaperformancetrials.ca to make comparisions across years and other locations within these growing zones to provide a better indication of variety performance.

Variety Description

		LONG Season Zone (2 trials)				MID Season Zone (9 trials)				SHORT Season Zone (2 trials)				
Distributor	Name	Yield (%5440)	Maturity (days)	Lodging (1-5)	Height (inches)	Yield (%5440)	Maturity (days)	Lodging (1-5)	Height (inches)	Yield (%5440)	Maturity (days)	Lodging (1-5)	Height (inches)	Disease[1] Tolerance
	Clearfield													
Brett Young	5545 CL	105	96	3.0	47	99	101	2.5	49	100	117	2.8	43	BL
CANTERRA SEEDS	CS2200 CL	95	96	3.0	47	93	102	1.9	51	97	118	2.8	42	BL
Crop Production Services/Proven	PV 200 CL	103	97	3.4	45	96	101	2.5	50	90	116	3.0	42	BL
Varieties supported for registration by the Western Canadian Canola/Rapeseed Recommending Committee (WCC/RRC)														
DL Seeds	DL 1504	100	97	2.9	48	97	102	1.9	52	110	118	2.8	42	BL
	LSD (%)	***13***				***12***				***10***				
	Liberty Link													
Bayer CropScience	5440	100	95	1.9	46	100	100	1.1	52	100	117	2.8	40	BL
Bayer CropScience	L130	95	95	2.4	44	98	99	1.3	50	94	114	2.3	40	BL
Bayer CropScience	L252	104	96	2.9	46	108	99	1.8	49	103	118	2.5	40	BL
	LSD (%)	***14***				***17***				***14***				
	Roundup Ready													
Brett Young	6074 RR	100	94	2.3	47	99	102	1.8	50	110	116	2.5	39	BL/S
Brett Young	6080 RR	97	93	2.5	45	100	100	1.7	48	97	118	1.3	40	BL
Brett Young	6076 CR	101	96	2.6	48	95	101	2.0	51	99	117	2.3	42	BL/CR/S
Brett Young	6086 CR	107	94	2.3	47	99	102	2.1	51	98	119	2.5	41	BL/CR
CANTERRA SEEDS	CS2000	96	97	3.9	46	99	100	2.4	50	103	118	3.5	42	BL/CR
Cargill - VICTORY Hybrid	V12-1*	100	93	2.5	45	96	100	2.1	49	98	115	2.3	40	BL
Syngenta	SY 4187	106	97	1.8	49	102	101	1.7	53	96	116	2.3	41	BL/CR
Crop Production Services/Proven	PV 533 G	99	91	2.7	46	101	98	1.6	48	99	115	2.5	40	BL
Crop Production Services/Proven	VR 9562 GC	104	93	2.7	49	106	99	1.8	51	94	117	2.3	41	BL/CR
Dekalb	74-44 BL	97	92	3.2	43	100	98	2.0	46	99	115	2.5	38	BL
Dekalb	74-54 RR	97	96	3.5	47	96	98	2.5	47	97	118	3.5	37	BL/CR
Dekalb	73-75 RR	94	95	3.8	44	100	99	2.4	46	94	118	2.8	38	BL
Canola Growers	45H33	101	93	2.5	47	101	99	2.0	50	97	115	3.0	43	BL/CR
CANTERRA SEEDS	CS2100	105	93	3.3	45									BL
	LSD (%)	***12***				***11***				***12***				
CHECK MEAN 5440 (bu/ac)		47				60				51				

* Indicates varieties with Specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details.

1 Indicated genetic disease resistance with an "R" or resistant rating to BL=Blackleg, CR=Clubroot and improved tolerance to sclerotinia "S", as based on variety descriptions submitted to CFIA.

CANOLA PERFORMANCE TRIAL — Long, Mid and Short Season Zone Plot Locations

		2016 Yield %5440												
		LONG SEASON ZONE		MID SEASON ZONE									SHORT SEASON ZONE	
Distributor	Name	Elm Creek, MB	Melita, MB	Aberdeen, SK	Arborg, MB	Dauphin, MB	Dundurn, SK	Ellerslie, AB	Elstow, SK	Melfort, SK	Mundare, AB	Swift Current, Sk	Dawson Creek, BC	Falher, AB
	Clearfield													
BrettYoung	5545 CL	100	111	103	101	125	77	93	77	107	108	96	94	105
CANTERRA SEEDS	CS2200 CL	83	106	106	84	109	80	87	80	101	104	89	97	98
Crop Production Services/Proven	PV 200 CL	88	118	101	85	130	63	96	83	101	110	96	84	96
Varieties supported for registration by the Western Canadian Canola/Rapeseed Recommending Committee (WCC/RRC)														
DL Seeds	DL 1504	98	101	103	96	115	92	92	85	96	106	92	103	117
	LSD (%)	***17***	***9***	***13***	***7***	***12***	***15***	***15***	***15***	***7***	***13***	***10***	***11***	***9***
	Liberty Link													
Bayer CropScience	5440	100	100	100	100	100	100	100	100	100	100	100	100	100
Bayer CropScience	L130	95	94	96	92	117	88	102	90	106	105	90	94	94
Bayer CropScience	L252	100	108	110	97	130	101	111	99	110	106	104	103	103
	LSD (%)	***12***	***16***	***17***	***24***	***20***	***27***	***11***	***10***	***22***	***19***	***7***	***6***	***20***
	Roundup Ready													
BrettYoung	6074 RR	97	103	95	101	123	93	91	90	104	103	88	104	115
BrettYoung	6080 RR	87	108	98	99	127	105	85	87	105	117	81	97	97
BrettYoung	6076 CR	96	106	92	92	106	88	90	86	97	110	89	93	105
BrettYoung	6086 CR	94	121	96	93	130	85	93	89	102	109	95	102	93
CANTERRA SEEDS	CS2000	90	101	95	89	114	99	102	82	110	113	90	102	105
Cargill - VICTORY Hybrid Canola	V12-1*	89	111	94	91	119	93	91	86	98	113	82	94	101
Syngenta	SY 4187	96	116	107	96	125	102	100	95	98	102	91	92	101
Crop Production Services/Proven	PV 533 G	89	109	101	98	125	104	90	94	92	107	95	94	104
Crop Production Services/Proven	VR 9562 GC	98	110	95	97	131	115	103	91	118	113	93	93	94
Dekalb	74-44 BL	89	105	97	103	118	90	88	86	103	112	103	95	104
Dekalb	74-54 RR	85	110	101	93	119	90	89	81	93	115	84	91	103
Dekalb	73-75 RR	85	103	105	97	128	103	98	84	103	98	86	91	97
Canola Growers	45H33	91	111	99	94	129	96	93	92	104	110	96	95	100
CANTERRA SEEDS	CS2100	97	113											
	LSD (%)	***12***	***13***	***11***	***10***	***8***	***16***	***13***	***9***	***11***	***15***	***7***	***9***	***15***
CHECK MEAN 5440 (bu/ac)		51	43	53	28	50	68	91	72	55	59	64	48	55
GRAND MEAN (bu/ac)		47	47	53	27	61	63	86	64	56	64	58	46	56
CV%		7.3	8.4	8.8	9.2	7.6	12.3	8.7	7.3	8.2	10.4	5.5	6.9	10.3

* Indicates varieties with Specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details.

FLAX

Comments:

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

AC Emerson demonstrates the greatest tolerance to flax chlorosis.

All varieties are immune to rust.

All varieties are susceptible to pasmo.

The Canadian Grains Commission advises that the oilseed flax varieties **CDC Arras**, **Flanders** and **Somme** are deregistered effective August 1, 2017.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Maturity +/- 102 days	Height +/- 27 inches	Seed Color	Seed Size TKW	Oil Content	Oil Quality[1]: Iodine Number	Oil Quality[1]: ALA Content	Resistance to: Lodging	Resistance to: Fusarium Wilt
AAC Bravo	19	33	1	0	brown	6.4	44.6	194.0	60.2	G	MR
AAC Prairie Sunshine	7	34	3	1	brown	5.3	47.7	192.5	56.5	VG	MR
AC Emerson	30	32	-2	-1	brown	6.4	43.8	196.1	59.3	G	R
CDC Bethune	118	34	0	0	brown	5.8	45.6	188.6	54.7	G	MR
CDC Buryu	7	33	1	1	brown	5.9	45.3	189.9	54.6	G	MR
CDC Glas	19	35	1	1	brown	5.2	45.8	192.0	56.6	G	MR
CDC Neela	19	34	1	1	brown	5.7	45.5	194.4	59.1	G	MR
CDC Plava	10	34	-2	-1	brown	5.7	46.5	195.5	57.2	G	MR
CDC Sanctuary	27	34	3	1	brown	5.8	45.6	190.7	57.2	G	MR
CDC Sorrel	51	34	1	1	brown	6.4	45.1	192.7	57.8	F	MR
Hanley	70	32	-2	-2	brown	5.7	44.7	197.7	58.6	VG	R
Lightning	40	33	1	-2	brown	6.0	47.6	192.5	56.1	G	MR
VT50	10	33	4	-2	yellow	5.1	47.1	209.4	67.6	VG	MR
Prairie Blue	68	33	1	-1	brown	5.2	46.3	192.2	57.3	VG	MR
Prairie Grande	40	33	-2	-4	brown	5.8	45.6	192.9	57.5	G	MR
Prairie Sapphire	35	35	2	-1	brown	5.8	48.1	193.1	57.2	G	MR
Prairie Thunder	49	33	0	-3	brown	5.9	45.3	194.7	57.9	G	R
Taurus	39	33	0	-1	brown	5.6	45.6	187.0	53.9	VG	MR
Vimy	4	32	1	0	brown	6.1	45.0	191.9	57.6	F	MR
WestLin 60	8	33	-1	-2	brown	5.7	46.1	197.9	59.9	G	MR
WestLin 70	12	32	2	2	brown	6.4	45.8	194.5	61.9	G	MR
WestLin 71	15	34	2	-2	brown	5.6	47.5	198.1	61.2	G	MR
WestLin 72	10	34	3	-1	brown	5.4	47.0	192.8	57.0	VG	MR
Varieties that are being tested or proposed for registration											
FP2308	9	34	1	0	brown	5.8	45.5	191.8	57.5	G	MR
FP2454	7	33	-2	-3	brown	5.4	47.6	197.5	60.3	VG	MR
FP2457	7	32	0	0	brown	5.8	45.9	188.2	54.4	G	MR
GRAND MEAN (bu/ac)		33									
LSD (0.05)		1.5									

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.

Yield Comparisons

VARIETY		2016 Yield (bu/acre) Boissevain	Morden	Rosebank	Stonewall
AAC Bravo		23	21	36	38
AAC Prairie Sunshine		25	19	42	35
CDC Bethune		24	21	41	35
CDC Buryu		28	19	41	31
CDC Glas		27	20	42	35
CDC Neela		26	18	42	36
CDC Plava		21	24	42	36
VT50		32	23	44	37
WestLin 60		27	22	39	33
WestLin 71		28	21	43	39
WestLin 72		31	18	46	35
Varieties that have been supported for registration					
FP2454		22	25	41	35
FP2457		21	23	39	31
SITE GRAND MEAN (bu/ac)		26	21	41	35
	CV%	13.5	11.1	4.8	7.4
	LSD (bu/ac)	6	4	3	4
	Sign Diff	Yes	Yes	Yes	Yes
	Seeding Date	16-May	30-May	24-May	25-May
	Harvest Date	19-Sep	20-Sep	22-Sep	08-Sep

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. These rankings are assigned to varieties to assist growers to select varietes suited for their area.

3 Relative days to maturity is the number of days from seeding to plant maturity (95% of the pods on the plant are mature with seeds rattling in the pods when plant is shaken) and is expressed as + or - days from the check. Growers need to be cautious when using only one year data when evaluating maturity and yield. Using multiple year maturity data when available will give you 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 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 Relative Seeds/lb, these were the seed numbers of the varieties entered into the trial. Soybean seed size can vary greatly between varieties and even from seed lot to seed lot of the same variety. Growers should use the seed size for their seed lot when calculating seeding rates.

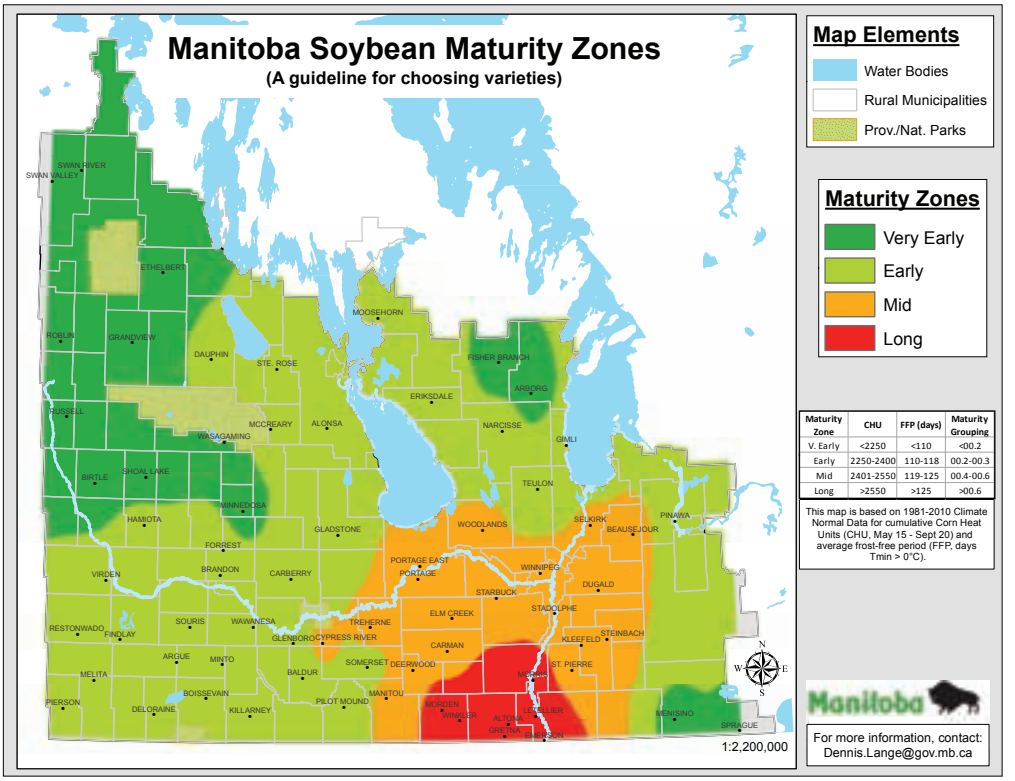
4 Lodging is rated at harvest; 1=standing upright, 5= flat along the ground. A rating of 3 or more can promote white mold within the crop canopy.

5 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 sites 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.

6 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 and groupings should be considered together when judging IDC. Tolerant=leaves stayed green, Semi Tolerant=leaves when yellow then turned 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.



A STEP UP

NSC Starbuck RR2X

The best Roundup Ready 2 Xtend™ variety on the market!

NSC Starbuck RR2X is a mid- to long-season variety with the new Xtend trait boasting the highest yields! This variety is adaptable for tight or wide row spacing and has greater yield potential with enhanced flexibility on herbicide applications.

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WESTERN MANITOBA SOYBEAN ADAPTATION TRIAL

Comments:

The Western Manitoba soybean adaptation variety trial was tested and the data donated by the Manitoba Pulse & Soybean Growers

Variety Descriptions

Variety	Company Maturity Grouping	Yield % Check	Site Years Tested	Relative Days to Maturity +/- Check				2016 Yield % NSC Reston RR2Y				
				Average	2016	2015	2014	Boissevain	Carberry	Dauphin	Hamiota	Melita
NSC LEROY RR2Y	000.6	83	5	-7	-7	—	—	69	77	85	89	90
P002T04R	00.2	92	14	-4	-3	-3	-5	98	79	84	75	107
S009-M2	000.9	101	10	-3	-1	-5	—	67	80	108	98	119
NSC Watson RR2Y	000.8	99	10	-2	0	-4	—	98	82	105	103	126
22-60 RY	000.9	96	14	-1	-1	-1	-1	65	86	97	91	110
S001-B1	00.1	104	5	-1	-1	—	—	113	94	100	100	120
NSC Reston RR2Y	00.1	100	20	0	0	0	0	100	100	100	100	100
LS NorthWester	00.2	98	14	0	2	0	-1	88	82	94	87	98
23-60RY	00.2	105	19	1	4	2	-4	108	97	99	98	119
23-11 RY	000.9	99	14	2	1	1	3	89	90	100	94	109
NSC AUSTIN RR2Y	00.3	99	5	2	2	—	—	108	93	90	96	119
Bishop R2	00.2	99	20	2	2	3	1	90	79	98	86	122
22-61RY	00.2	95	5	3	3	—	—	99	77	97	102	101
LS 002R24N	00.2	107	19	3	6	3	0	96	102	99	101	131
Mahony R2	00.3	108	14	3	3	3	3	85	93	101	107	124
P006T78R	00.6	107	10	3	4	2	—	103	99	99	92	144
McLeod R2	00.3	107	20	3	4	3	2	108	104	95	89	130
PS 0055 R2	00.4	98	5	3	3	—	—	89	90	100	103	107
S007-Y4	00.5	112	14	4	6	3	2	102	104	99	101	143
TH 35002R2Y	00.2	99	14	4	4	4	3	107	112	86	90	141
TH 32004R2Y	00.4	111	20	4	6	4	1	106	89	93	94	167
S003-L3	00.3	104	5	4	4	—	—	92	91	100	107	137
Akras R2	00.3	107	14	4	4	5	3	87	100	106	99	136
TH 33003R2Y	00.3	104	20	4	7	5	1	106	86	96	93	140
PS 0035 NR2	00.3	103	19	4	7	5	1	102	87	98	98	139
S006-W5	00.6	109	5	4	4	—	—	111	112	102	98	132
NSC Gladstone RR2Y	00.3	106	19	5	7	6	2	102	98	93	91	146
NSC Tilston RR2Y	00.4	105	20	5	7	5	3	96	84	93	89	137
Lono R2	00.5	109	14	6	7	5	5	108	106	108	110	130
Hero R2	00.4	111	14	6	7	6	4	122	102	108	92	184
TH 33005R2Y	00.5	105	19	6	7	6	5	100	86	102	89	153
P006T46R	00.6	109	5	6	6	—	—	115	93	105	96	155
HS 006RYS24	00.6	101	15	7	10	6	4	90	91	100	99	144
P005T13R	00.5	94	5	7	7	—	—	102	68	94	90	130
TAMULA R2	00.5	107	5	8	8	—	—	94	107	102	108	132
Experimental lines that are being tested / proposed for registration in Canada												
CFS16.3.01R2	000	97	5	0	0			104	81	94	96	120
EXP 000917 R2	000.9	92	5	0	0			88	75	102	93	98
EXP TH 37004R2Y	00.4	110	5	7	7			125	93	104	96	150
LS SOLAIRE	00.2	101	5	9	9			95	88	99	91	150
CHECK CHARACTERISTICS		52	20	123	123	118	129	**NSC Reston RR2Y (bu/acre)**	44	54	69	66	38
NSC Reston RR2Y			site years		days to maturity			CV%	710	5	7	7	
								LSD%	12	16	7	11	12
								Sign Diff	Yes	Yes	Yes	Yes	Yes
								Seeding Date	21-May	17-May	18-May	20-May	18-May
								Harvest Date	15-Oct	18-Oct	19-Oct	12-Oct	27-Sep

ACROSS CANADA... THE LEGEND IS GROWING

Third generation Seedsman Chris Ens' family has been in the seed business for 74 years. This year, they produced a field of Legend Seeds' LS002R24N early- maturity soybeans which averaged 62.2 bushels per acre weighed across the scale.

EQS Ens Quality Seed

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CONVENTIONAL SOYBEANS

New for 2017

Variety	Previous Code	Distributor
AAC Halli(Ω)	OT13-07	Interlake.org Inc
AAC Springfield(Ω)	OT13-05C	Springfield Mills

Comments:

The Conventional Soybean variety trial was tested and the data was donated by Manitoba Pulse & Soybean Growers

Variety Descriptions

Manitoba Variety Zone	Company Maturity Grouping	Variety	Relative Days to Maturity[1] + / - of Check Average	2016	2015	2014	Yield % Check	Site Years Tested	Hilum Colour	Relative Seeds/lb	Lodging[2]	IDC[3] Rating (1- 5)	IDC[3] Grouping
	00.3	AAC Edward(Ω)	-3	-4	-1	-4	103	22	IY	3122	1.3	1.8	ST
Early	000.9	AAC Halli(Ω)	-2	-1	-1	-3	99	15	Y	2340	2.4	2.5	S
Season	00.2	AAC Springfield(Ω)	-1	0	-1	-2	90	15	Y	2930	1.8	1.8	ST
Zone		**Experimental lines that are being tested / proposed for registration in Canada**											
	000	GS 1001	-6	-5	-6	—	79	9	CL	2500	1.5	2.4	S
	000	SVX17T000S1	-3	-3	—	—	91	3	IY	2150	1.6	—	—
	00.3	OAC Prudence	0	0	0	0	100	108	Y	2515	2.9	1.6	T
	00.3	AAC Mandor	4	4	2	4	109	35	Y	2250	1.9	2.3	ST
	00.5	OAC Morden(Ω)	4	4	2	5	106	30	Y	3077	1.5	2.0	ST
		Experimental lines that are being tested / proposed for registration in Canada											
	00.2	SVX17T00S13	1	1	—	—	105	3	BF	2500	3.4	—	—
	00.5	OT13-08	4	5	4	3	105	16	IY	2340	2.0	2.6	S
	00.3	SVX16T00S2	4	4	5	—	109	9	IY	2500	2.1	2.3	S
	00.2	SVX17T00S21	5	5	—	—	117	3	BR	2150	1.0	—	—
Mid - Long	00.6	Bravado	7	7	—	—	121	4	CL	3600	2.3	2.4	S
Season	00.6	SR006HP	7	7	—	—	103	4	CL	2650	1.8	3.3	S
Zone	0.1	JARI	8	10	7	8	108	16	IY	2236	2.1	2.2	ST
	00.9	OT13-04	9	10	8	9	107	16	Y	2735	2.6	2.9	S
	00.8	DH404	9	9	—	—	88	13	IY	2250	1.8	—	—
	00.6	DH863	9	9	—	—	92	13	IY	2250	1.9	—	—
	00.7	OAC 11-02C	10	12	—	8	111	11	Y	2686	2.3	—	—
	00.9	OAC 13-05C	10	10	—	—	126	7	IY	2225	1.9	3.5	S
	0.1	OT15-02	10	10	—	—	109	4	IY	1932	2.3	2.5	S
	00.8	SVX15T00S2	11	11	—	—	99	3	IY	2000	1.9	—	—
	00.9	EXPSR009G	16	16	—	—	90	4	CL	4500	2.9	2.9	S
CHECK CHARACTERISTICS													
OAC Prudence			113	117	108	115	49	108					
				days to maturity			bu/acre	site years					

1 Maturity Ratings for 2016 are average across, Morris, St. Adolphe.
2 Lodging ratings are average across Morris and St. Adolphe sites.
3 Iron Deficiency Chlorosis (IDC) Groupings; T=Tolerant, ST=Semi-Torerant, S=Suceptible

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CONVENTIONAL SOYBEANS *(continued)*

Yield Comparisons

Manitoba Variety Zone	Variety	2016 Yield % of OAC Prudence				
		Early Sites	Core Sites		Late Sites	
		Beausejour	Morris	St. Adolphe	Morden	Rosebank
	AAC Edward	95	80	100	—	—
	AAC Halli(Ω)	122	64	98	—	—
	AAC Springfield(Ω)	96	85	94	—	—
Early Season Zone	**Experimental lines that are being tested / proposed for registration in Canada**					
	GS 1001	77	78	92	—	—
	SVX17T000S1	104	71	101	—	—
	OAC Prudence	100	100	100	100	100
	AAC Mandor	135	103	114	—	—
	OAC Morden(Ω)	—	105	113	105	109
	Experimental lines that are being tested / proposed for registration in Canada					
	SVX17T00S13	111	100	106	—	—
	OT13-08	—	99	107	124	117
	SVX16T00S2	119	99	105	—	—
Mid - Long Season Zone	SVX17T00S21	115	110	126	—	—
	Bravado	—	123	116	114	135
	SR006HP	—	95	109	97	113
	JARI	—	98	112	107	123
	OT13-04	—	95	104	112	112
	DH404	127	80	107	—	—
	DH863	129	77	113	—	—
	OAC 11-02C	125	109	105	—	—
	OAC 13-05C	—	117	113	119	134
	OT15-02	—	105	111	103	117
	SVX15T00S2	126	68	108	—	—
	EXPSR009G	—	85	78	89	115
Check Characteristics	**OAC Prudence (bu/acre)**	49	57	54	50	42
	CV %	5	9	6	8	5
	LSD %	9	14	9	13	8
	Sign Diff	Yes	Yes	Yes	Yes	Yes
	Seeding Date	20-May	24-May	17-May	30-May	24-May
	Harvest date	14-Oct	13-Oct	28-Sep	03-Oct	28-Sep

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ROUNDUP READY SOYBEANS

New for 2017

Variety	Previous Code	Distributor
HYDRA R2	CFS13.3.01 R2	Brett Young
TAMULA R2	TAMULA R2	Brett Young
DS0067Z1	DS0067Z1	Dow Seeds
24-12RY	24-12RY	DEKALB
P005T13R	P005T13R	DuPont Pioneer
P006T46R	P006T46R	DuPont Pioneer
NSC Austin RR2Y	AR1310870	Northstar Genetics Manitoba
NSC LEROY RR2Y	NSC LEROY RR2Y	Northstar Genetics Manitoba
NSC Watson RR2Y	NSC Watson RR2Y	Northstar Genetics Manitoba
S001-B1	CW1410087	Syngenta Canada
S003-L3	AR1215503	Syngenta Canada
S006-W5	AR1210501	Syngenta Canada
Torro R2	PR1418113R2	Quarry Seed Ltd.
Kosmo R2	PR9010RR2Y.43	Quarry Seed Ltd.

Variety Descriptions

Manitoba Variety Zone	Company Maturity Grouping	Variety	Type[1]	Relative Days to Maturity[2] + / - of Check Average	2016	2015	2014	Yield % Check	Site Years Tested	Hilum Colour	Lodging[3]	IDC[4] Rating (1- 5)	IDC[4] Grouping	Resistance to: SCN[5]	Resistance to: PRR[6]
Very	000.6	NSC LEROY RR2Y	R2Y	-10	-10	—	—	83	5	Y	1.5	2.2	ST	—	—
Early	00.2	P002T04R	RR1	-8	-6	-9	-9	81	18	TN	1.1	2.2	ST	—	1k
Season	000.9	22-60RY	R2Y	-7	-7	-7	-6	89	18	BL	1.0	2.1	ST	—	1c
Zone	000.9	S0009-M2	R2Y	-6	-6	-6	—	88	11	IY	1.8	2.2	ST	—	Rps6
	000.8	NSC Watson RR2Y	R2Y	-5	-5	-6	—	86	11	IY	1.5	1.9	ST		—
	00.1	NSC Reston RR2Y	R2Y	-4	-4	-3	-5	91	30	BL	1.2	2.7	S	—	1k
	00.2	LS Northwester	R2Y	-4	-2	-5	-4	86	18	BL	1.5	2.0	ST	—	—
	00.2	Bishop R2	R2Y	-3	-1	-4	-5	90	35	IY	1.8	2.3	S	—	—
	000.9	23-11RY	R2Y	-3	-2	-3	-5	94	18	BL	1.1	1.7	T	—	1c
	00.1	Notus R2	R2Y	-3	-4	-3	-3	94	18	BL	1.0	1.7	T	—	1c
	00.3	Mahony R2	R2Y	-3	-2	-3	-4	100	18	BL	1.4	2.9	S	—	—
Early	00.1	S001-B1	R2Y	-3	-3	—	—	98	5	Y	1.3	1.9	ST	—	—
	00.3	McLeod R2	R2Y	-3	-2	-3	-4	95	30	BL	1.4	1.8	ST	—	—
Season	00.5	S007-Y4	R2Y	-3	-2	-3	-4	104	24	IY	1.1	2.0	ST	—	1c
	000	Torro R2	R2Y	-3	-2	-4	—	89	11	BL	2.3	2.4	S	—	—
Zone	00.2	23-60RY	R2Y	-2	-1	-2	-4	100	24	BL	1.5	1.7	T	—	—
	00.3	S003-L3	R2Y	-2	-1	-3	—	95	11	BR	1.5	2.2	ST	—	—
	00.6	P006T78R	RR1	-2	0	-4	-2	95	18	BR	1.1	2.2	ST	—	1c
	00.3	PS 0035 NR2	R2Y	-2	0	-2	-4	99	24	BL	1.7	1.9	ST	Yes	—
	00.3	NSC Austin RR2Y	R2Y	-2	-1	-3	—	93	11	Y	1.1	2.2	ST	—	—
	00.4	TH 32004R2Y	R2Y	-2	-1	-1	-2	99	38	BL	1.4	1.9	ST	—	1c
		Experimental lines that are being tested / proposed for registration in Canada													
	000	CFS16.3.01R2	R2Y	-6	-6	—	—	92	5	IB	1.5	2.2	ST	—	—
	000.9	EXP 000917R2	R2Y	-6	-6	—	—	85	4	BL	1.8	1.7	T	—	—
	00.4	PS 0055 R2	R2Y	-1	1	-3	-2	97	17	IY	1.2	1.8	ST	—	1k
	00.3	Akras R2	R2Y	-1	-1	-2	-1	102	29	BL	1.1	1.7	T	—	1k
	00.3	NSC Gladstone RR2Y	R2Y	-1	0	-1	-3	98	24	BL	1.3	2.1	ST	—	—
	00.2	TH 35002R2Y	R2Y	-1	0	-1	-3	93	18	BL	1.7	2.3	S	—	—
	00.2	LS 002R24N	R2Y	-1	1	-1	-3	102	24	BL	1.8	2.0	ST	Yes	—
Mid	00.6	P006T46R	RR1	-1	-1	—	—	103	5	BR	1.6	2.1	ST	—	1c
	00.6	Chadburn R2	R2Y	0	0	0	-1	97	37	BL	1.5	1.7	T	—	—
	00.6	S006-W5	R2Y	0	0	-1	—	111	10	IY	1.2	2.6	S	—	1a,3a
Season	00.3	LS 003R24N	R2Y	0	2	0	-3	97	23	BL	1.8	1.9	ST	Yes	1c,1k
	00.5	Lono R2	R2Y	0	0	-1	0	103	24	BL	1.2	2.0	ST	—	1k
	00.5	P005T13R	RR1	0	0	—	—	91	5	BR	1.2	1.8	ST	—	—
Zone	00.5	TH 33005R2Y	R2Y	0	0	-1	0	102	29	BL	1.1	1.9	ST	—	1c,1k
	00.5	24-10RY	R2Y	0	0	0	0	100	48	BL	1.4	1.9	ST	—	1k
	00.8	P008T70R	RR1	0	2	-1	-1	100	24	TN	1.6	1.9	ST	—	1k
	00.6	TH 34006R2Y	R2Y	1	2	0	0	101	22	BL	1.8	2.1	ST	—	—
	00.7	HS 007RY32	R2Y	1	2	2	-1	101	22	BL	1.3	1.9	ST	—	1c,1k
	00.5	Gray R2	R2Y	1	3	1	0	98	30	BL	1.9	1.9	ST	—	1c
	00.3	LS Maidan	R2Y	1	1	1	—	98	10	Y	1.4	2.2	ST	—	—
	00.4	NSC Tilston RR2Y	R2Y	1	4	1	-1	97	34	BL	1.7	1.8	ST	—	—

Manitoba Variety Zone	Company Maturity Grouping	Variety	Type[1]	Relative Days to Maturity[2] + / - of Check Average	2016	2015	2014	Yield % Check	Site Years Tested	Hilum Colour	Lodging[3]	IDC[4] Rating (1- 5)	IDC[4] Grouping	Resistance to: SCN[5]	Resistance to: PRR[6]
	00.6	HS 006RYS24	R2Y	1	4	2	-2	97	35	BL	2.1	1.7	T	Yes	—
	00.4	Hero R2	R2Y	1	3	1	0	103	24	BL	1.9	2.2	ST	—	1c
	00.8	P008T22R2Ω	R2Y	1	3	1	1	103	24	BL	1.5	1.6	T	—	1c
	000	Kosmo R2	R2Y	1	1	—	—	89	5	IY	1.6	2.1	ST	—	—
	00.3	TH 33003R2Y	R2Y	2	3	2	-1	98	37	BR	2.2	2.1	ST	—	1c
	00.6	PRO 2525R2	R2Y	2	4	3	0	104	17	BL	1.8	1.7	T	—	1c
	00.7	NSC Richer RR2Y	R2Y	2	4	2	1	103	32	BL	1.8	1.6	T	—	1c
	00.5	24-12RY	R2Y	2	2	—	—	103	5	BL	1.9	2.0	ST	—	—
		Experimental lines that are being tested / proposed for registration in Canada													
	00.4	CW1410185	R2Y	-1	-1	—	—	104	5	BR	1.2	1.9	ST	—	1c
	00.2	LS SOLAIRE	R2Y	0	0	—	—	93	5	BL	1.2	2.4	S	—	—
	00.5	TAMULA R2	R2Y	3	3	—	—	102	5	Y	1.6	2.6	S		
	00.5	LS 005R22	R2Y	3	7	3	1	97	27	BL	2.2	1.8	ST	—	1k,1c
	00.8	Currie R2	R2Y	4	5	3	3	102	33	BL	1.6	1.8	ST	—	1k
Long	00.6	DS0067Z1	R2Y	4	4	—	—	113	5	BL	1.6	1.7	T	—	—
	00.5	LS Eclipse	R2Y	4	5	3	—	102	10	BL	2.0	2.2	ST	Yes	1k,1c
Season	00.7	PS 0074 R2	R2Y	4	6	3	3	105	27	BR	2.8	1.7	T	—	—
	00.8	Podaga R2	R2Y	4	6	4	3	97	16	Y	1.8	2.0	ST	—	1k
Zone	0.1	HYDRA R2	R2Y	5	7	5	3	99	16	BL	2.0	2.1	ST		1k
	00.8	Astro R2	R2Y	6	7	5	4	108	32	BL	1.8	1.7	T	—	1k
	00.7	TH 36007R2Y	R2Y	7	8	5	—	96	10	Bl	2.6	2.4	S		—
	00.9	PRO 2535R2	R2Y	7	10	6	6	104	16	BL	2.1	1.8	ST	—	1k
		Experimental lines that are being tested / proposed for registration in Canada													
	00.4	EXP TH 37004R2Y	R2Y	3	3	—	—	103	5	BL	1.8	2.0	ST	—	—
	00.4	LS MISTRAL	R2Y	5	5	—	—	113	4	BL	1.4	1.6	T	—	1c
	00.7	AR1215342	R2Y	5	5	—	—	106	4	BR	1.7	2.0	ST	—	—
	00.9	NSC Jordan RR2Y	R2Y	6	6	—	—	105	4	BL	1.6	2.2	ST	—	—
CHECK CHARACTERISTICS			24-10RY	116	118	113	118	53 bu/acre		48 site years					

1 R2Y Indicates Genuity Roundup Ready 2 Yield Soybeans.
2 Maturity Ratings for 2016 are average across Morris, St. Adolphe.
3 Lodging ratings are average across Loams (Carman) Clays (St. Adolphe, Morris).
4 Iron Deficiency Chlorosis (IDC) Groupings; T=Tolerant, ST=Semi-Torerant, S=Suceptible
5 SCN -Soybean Cyst Nematode Resitance.
6 PRR=Phytophtora Resistance genes.

ROUNDUP READY SOYBEAN *(continued)*

Manitoba Variety Zone	Variety	2016 Yield % of 24-10RY						
		Early Sites			Core Sites		Late Sites	
		Arborg	Beausejour	Stonewall	Morris	St. Adolphe	Morden	Rosebank
Very	NSC LEROY RR2Y	95	82	92	68	77	—	—
Early	P002T04R	95	81	95	93	88	—	—
Season	22-60RY	96	89	102	84	83	—	—
Zone	S0009-M2	91	91	90	83	86	—	—
	NSC Watson RR2Y	81	78	93	88	87	—	—
	NSC Reston RR2Y	101	74	93	86	89	—	—
	LS Northwester	99	71	89	83	89	—	—
	Bishop R2	98	96	89	85	85	—	—
	23-11RY	106	97	103	97	96	—	—
	Notus R2	102	91	104	85	91	—	—
	Mahony R2	100	102	105	100	91	—	—
Early	S001-B1	98	96	103	94	99	—	—
	McLeod R2	95	92	96	98	87	—	—
Season	S007-Y4	112	106	114	92	94	—	—
	Torro R2	96	99	97	84	88	—	—
Zone	23-60RY	98	109	109	98	95	—	—
	S003-L3	96	101	103	96	96	—	—
	P006T78R	101	88	105	95	107	—	—
	PS 0035 NR2	95	114	106	99	104	—	—
	NSC Austin RR2Y	111	100	99	88	96	—	—
	TH 32004R2Y	105	117	106	106	87	—	—
	Experimental lines that are being tested / proposed for registration in Canada							
	CFS16.3.01R2	88	105	94	93	81	—	—
	EXP 000917R2	98	—	94	59	90	—	—
	PS 0055 R2	110	90	98	97	99	—	—
	Akras R2	113	118	111	91	105	—	—
	NSC Gladstone RR2Y	100	114	101	109	99	—	—
	TH 35002R2Y	95	114	97	100	88	—	—
	LS 002R24N	104	117	108	106	101	—	—
	P006T46R	108	107	110	94	96	—	—
	Chadburn R2	108	107	110	106	94	—	—
	S006-W5	—	—	—	108	117	110	112
	LS 003R24N	—	—	—	108	101	102	106
	Lono R2	108	114	112	89	102	—	—
Mid	P005T13R	92	84	99	86	95	—	—
	TH 33005R2Y	—	—	—	98	98	102	104
	24-10RY	100	100	100	100	100	100	100
Season	P008T70R	104	80	102	88	87	—	—
	TH 34006R2Y	—	—	—	116	99	107	104
	HS 007RY32	—	—	—	110	99	106	105
Zone	Gray R2	98	110	110	113	108	—	—
	LS Maidan	—	—	—	106	94	102	99
	NSC Tilston RR2Y	108	108	99	93	97	—	—
	HS 006RYS24	103	105	99	106	101	—	—
	Hero R2	121	104	110	100	108	—	—
	P008T22R2	112	110	112	109	100	—	—
	Kosmo R2	98	88	94	75	88	—	—
	TH 33003R2Y	111	107	108	105	98	95	96
	PRO 2525R2	—	—	—	106	98	99	103
	NSC Richer RR2Y	—	—	—	111	93	106	110
	24-12RY	98	99	104	117	96	—	—
	Experimental lines that are being tested / proposed for registration in Canada							
	CW1410185	112	116	104	94	95	—	—
	LS SOLAIRE	101	87	100	88	91	—	—

Manitoba Variety Zone	Variety	2016 Yield % of 24-10RY						
		Early Sites			Core Sites		Late Sites	
		Arborg	Beausejour	Stonewall	Morris	St. Adolphe	Morden	Rosebank
	TAMULA R2	112	101	103	90	104		
	LS 005R22	—	—	—	109	93	94	105
Long	Currie R2	—	—	—	107	100	104	100
	DS0067Z1	107	121	115	119	104	—	—
Season	LS Eclipse	—	—	—	121	91	93	107
	PS 0074 R2	—	—	—	107	103	103	112
Zone	Podaga R2	—	—	—	97	104	92	102
	HYDRA R2	—	—	—	109	101	101	99
	Astro R2	—	—	—	124	102	113	115
	TH 36007R2Y	—	—	—	103	104	87	109
	PRO 2535R2	—	—	—	110	99	100	107
	Experimental lines that are being tested / proposed for registration in Canada							
	EXP TH 37004R2Y	100	106	99	105	103	—	—
	LS MISTRAL	—	—	—	109	110	115	117
	AR1215342	—	—	—	102	107	108	106
	NSC Jordan RR2Y	—	—	—	93	114	108	105
Check Characteristics 24-10RY (bu/acre)		63	52	59	62	59	58	53
	CV%	7	10	6	7	5	7	4
	LSD%	11	17	10	11	8	12	7
	Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Seeding Date	24-May	19-May	24-May	24-May	17-May	30-May	24-May
	Harvest Date	13-Oct	14-Oct	29-Sep	13-Oct	28-Sep	03-Oct	28-Sep

SUNFLOWERS - NON-OIL TYPE

Comments:

These varieties were tested and data donated by the National Sunflower Association of Canada Inc.

Disease Management:

All sunflowers currently available are susceptible to **sclerotinia** and have shown suscpetibility to the sunflower **rust** strains present in Manitoba.

Losses from both rust and sclerotinia can reduce yields, test weight and can cause grading factor issues. To manage scelotinia and rust, use of good agronomic practices such as lengthened crop rotations between sunflower crops and between other sclerotinia susceptible crops in the fields and adjacent fields will help reduce inoculum and potential for infection.

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

Variety Descriptions

Company	Hybrid	Genetic Traits[1]	Site Years	Yield % Check	Maturity (days to R9)	Height (inches)	Seed Sizing >22/64 inch	Seed Sizing >20/64 inch	Seed Sizing Medium
NuSeed America	6946 DMR	DM	17	100	0	0	64	21	10
NuSeed America	Jaguar DMR	CL / DM	9	108	1	5	-9	-9	-9
NuSeed America	Panther DMR	DM	25	101	1	-3	-9	-9	-9
Experimental lines being tested/proposed for registration in Canada									
NSAC	39391 DMR	ExSun / DM	2	94	1	-3	-9	-9	-9
NSAC	64508	ExSun	2	83	-3	1	-9	-9	-9
	CHECK CHARACTERISTICS								
	6496 DMR		17 site years	3293 lb/ac	117 days	67 inches			

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

Site Comparisons

Hybrid	Genetic Traits*	Carberry Yield (lb/ac)	Carberry Maturity* (days to R9)	Carberry Test Wt (lb/bu A)	Melita Yield (lb/ac)	Melita Maturity* (days to R9)	Melita Harvest* Moisture	Melita Test Wt (lb/bu A)
6946 DMR	DM	4037	117	24.7	3131	137	14.7	22.2
Panther DMR	DM	3910	115	25.6	3009	139	15.4	22.0
Experimental lines being tested/proposed for registration in Canada								
EX 39391 DMR	ExSun/DM	3412	119	23.1	3293	136	14.6	20.7
EX 64508	ExSun	3522	115	21.0	2427	134	14.0	21.5
	Site Average (lb/ac)	3720	117	23.6	2965	137	14.7	21.6
	CV%	8.4			9			
	Sign Diff	No			Yes			
	LSD (0.05)	—			560			
	Planting Date	09-May			19-May			
	Harvest Date	26-Sep			27-Oct			

* Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown. Seed moisture will still be around 20% and will need to dry down for harvest to between 13.5 - 16.0%, as well, the head tissue needs to dry down to allow for proper combine operation to seperate the seeds from the head. At Carberry heads clipped and dried artificially for stationary combining, Melita was allowed to dry naturally in the field so harvest moisture also presented.

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SUNFLOWERS - OIL TYPE

Comments:

These varieties were tested and data donated by the National Sunflower Association of Canada Inc.

Oil Sunflower markets - include birdfood, oil crush and de-hull. Variety selection become more important when trying to capture de-hull markets. Choose varieties with better de-hull ratio, larger size and higher test weight. Environment will contribute greatly to final product.

Variety Descriptions

Company	Variety	Herbicide Tolerance[1]	Site Years	YIELD % Check	Maturity (days to R9)	Height (inches)	% Oil	Oil Type	Sizing (>16/64)	Dehull Ratio
Dow Seed	8N270	CL / DM	6	91	-2	-7	46.8	NS	79	65
NuSeed America	Cobalt II	CL / DM	13	91	2	-4	45.7	HO	53	61
NuSeed America	Talon	ExSun	10	96	-1	-5	45.2	NS	80	69
Pioneer Hi-Bred	P63ME70	ExSun / DM	15	100	0	0	48.3	NS	76	70
Pioneer Hi-Bred	P63ME80	ExSun / DM	15	97	3	0	49.1	NS	75	66
Experimental lines being tested/proposed for registration in Canada										
Dow Seed	E84131	CL	6	95	-2	-8	48.7	HO	77	60
NRS-USDA	Honeycomb NS	—	6	81	-10	-8	42.3	NS	84	63
NuSeed America	N4HM354 DMR	CL / DM	3	110	0	-2	48.1	HO	66	65
Dow Seed	8H288DM	CL / DM	3	98	4	-2	48.6	HO	77	64
DuPont Pioneer	P63HE60	ExSun / DM	3	97	-1	4	47.9	HO	71	66
	CHECK CHARACTERISTICS									
	P63ME70		15 site years	3535 lb/ac	122 days	72 inches				

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

Site Comparisons

Hybrid	Genetic Traits*	Carberry Yield (lb/ac)	Carberry Maturity* (days to R9)	Carberry Test Wt (lb/bu A)	Holland Yield (lb/ac)	Holland Maturity* (days to R9)	Holland Test Wt (lb/bu A)	Melita Yield (lb/ac)	Melita Maturity* (days to R9)	Melita Harvest* Moisture	Melita Test Wt (lb/bu A)
8N270	CL / DM	3808	118	34.8	2979	118	29.6	2961	133	12.3	31.1
Cobalt II	CL / DM	3606	118	37.0	3133	118	29.2	3134	140	14.1	29.5
Talon	ExSun	3598	117	31.8	3367	118	26.4	3181	133	18.5	25.4
P63ME70	ExSun / DM	4136	118	34.5	3173	118	29.4	3051	133	12.0	29.7
P63ME80	ExSun / DM	3955	118	35.8	3006	120	31.4	2972	140	13.6	29.0
Experimental lines being tested/proposed for registration in Canada											
E84131	CL	3583	118	34.3	3166	118	27.4	2973	133	11.7	30.6
Honeycomb NS	—	2691	113	33.3	2711	113	26.7	2504	131	10.2	32.1
N4HM354 DMR	—	4148	116	38.3	3618	119	31.2	3617	133	14.5	30.7
8H288DM	CL / DM	4028	119	35.8	3233	122	28.3	2928	141	18.4	27.1
P63HE60		3969	117	37.3	3243	115	30.8	2856	133	12.5	31.3
	Site Average	3752	117	35.0	3027	118	29.0	3018	135	13.8	29.7
	CV%	7.6			7.5			8.4			
	Sign Diff	Yes			No			Yes			
	LSD (0.05)	496			—			439			
	Planting Date	19-May			06-May			19-May			
	Harvest Date	26-Sep			04-Oct			27-Oct			

* Physiological maturity for sunflowers is R9, where the bracts on the head are almost completely brown. Seed moisture will still be around 20% and will need to dry down for harvest to between 13.5 - 16.0%, as well, the head tissue needs to dry down to allow for proper combine operation to seperate the seeds from the head. At Carberry and Holland, heads were clipped and dried artificially for stationary combining, Melita was allowed to dry naturally in the field so harvest moisture also presented.

Distributor Contacts for Listed Varieties in Seed Manitoba 2017

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 Bravo	FP Genetics
AAC Prairie Sunshine	SeCan
AC Emerson	SeCan
CDC Bethune	SeCan
CDC Buryu	SeCan
CDC Glas	SeCan
CDC Neela	CANTERRA SEEDS
CDC Plava	SeCan
CDC Sanctuary	SeCan
CDC Sorrel	SeCan
Hanley	SeCan
Lightning	CANTERRA SEEDS
NuLin VT 50	Crop Production Services/Proven Seed
Prairie Blue	SeCan
Prairie Grande	SeCan
Prairie Sapphire	Alliance Seed
Prairie Thunder	CANTERRA SEEDS
Taurus	FP Genetics
Vimy	SeCan
WestLin 60	Crop Production Services/Proven Seed
WestLin 70	Crop Production Services/Proven Seed
WestLin 71	Crop Production Services/Proven Seed
WestLin 72	Crop Production Services/Proven Seed

CONVENTIONAL SOYBEANS

OAC Prudence	SeCan
AAC Edward	SeCan
AAC Mandor	Delmar Commodities
AAC Morden	SeCan
AAC Halli	Interlake.org Inc.
AAC Springfield	Springfield Mills

ROUNDUP READY SOYBEANS

Akras R2	Brett Young
Podaga R2	Brett Young
Lono R2	Brett Young
Notus R2	Brett Young
HYDRA R2	Brett Young
TAMULA R2	Brett Young
23-11RY	DEKALB
22-60RY	DEKALB
23-60RY	DEKALB
24-10RY	DEKALB
24-11RY	DEKALB
24-12RY	DEKALB
LS Eclipse	Delmar Commodities
LS Maidan	Delmar Commodities
LS 002R24N	Delmar Commodities
LS 003R24N	Delmar Commodities
LS 005R22	Delmar Commodities
LS Northwester	Delmar Commodities
LS Maidan	Delmar Commodities
PRO 2525R2	Delmar Commodities
PRO 2535R2	Delmar Commodities
DS0067Z1	Dow Seeds
HS 006RYS24	Dow Seeds
HS 007RY32	Dow Seeds
P006T46R	DuPont Pioneer
P002T04R	DuPont Pioneer
P005T13R	DuPont Pioneer
P006T78R	DuPont Pioneer
P008T22R2	DuPont Pioneer

ROUNDUP READY SOYBEANS

P008T70R	DuPont Pioneer
NSC Austin RR2Y	North Star Genetics Manitoba
NSC Gladstone RR2Y	North Star Genetics Manitoba
NSC Watson RR2Y	North Star Genetics Manitoba
NSC LEROY RR2Y	North Star Genetics Manitoba
NSC Reston RR2Y	North Star Genetics Manitoba
NSC Richer RR2Y	North Star Genetics Manitoba
NSC Tilston RR2Y	North Star Genetics Manitoba
PS 0055 R2	PRIDE Seeds
PS 0035 NR2	PRIDE Seeds
PS 0074 R2	PRIDE Seeds
Bishop R2	SeCan
Chadburn R2	SeCan
Currie R2	SeCan
Gray R2	SeCan
Hero R2	SeCan
Mahony R2	SeCan
McLeod R2	SeCan
S007-Y4	Syngenta Canada
S0009-M2	Syngenta Canada
S001-B1	Syngenta Canada
S003-L3	Syngenta Canada
S006-W5	Syngenta Canada
Astro R2	Thunder Seeds Canada
TH 33003 R2Y	Thunder Seeds Canada
TH 33004R2Y	Thunder Seeds Canada
TH 33005R2Y	Thunder Seeds Canada
TH 34006R2Y	Thunder Seeds Canada
TH 35002R2Y	Thunder Seeds Canada
TH 36007R2Y	Thunder Seeds Canada
Torro R2	Quarry Seed Ltd.
Kosmo R2	Quarry Seed Ltd.

SUNFLOWERS

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

DISTRIBUTOR	PHONE NUMBER
Alliance Seed	1-877-270-2890
Bayer CropScience	1-888-283-6847
Brett Young	1-800-665-5015
CANTERRA SEEDS	1-877-744-4321
Cargill Ltd.	1-888-855-8558
CHS Sunflower	1-701-484-5313
Crop Production Services (Canada) Inc	1-403-603-6000
DEKALB	1-800-667-4944
Delmar Commodities	1-888-974-7246
FP Genetics	1-877-791-1045
Dow Seeds	1-800-265-7403
Interlake.org Inc.	1-204-376-2467
North Star Genetics Manitoba	1-701-454-6427
DuPont Pioneer	1-800-265-9435
PRIDE Seeds	1-800-265-5280
Quarry Seeds Ltd.	1-888-274-9243
SeCan	1-800-665-7333
Thunder Seeds Canada	1-306 213 8888
Nuseed Americas Inc	1-877-841-7447
Sevita International	1-613-989-5400
Syngenta Canada Inc.	1-877-964-3682
Springfield Mills	1-204-822-8550

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; '*' listed varieties are eligible for seed class, but undergoing post-harvest seed testing for Additional Certification Requirements, at time of publication.

AAC BRAVO♻

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846			C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622		F	

AC NUGGET♻

Oak Bank; Kyle, Lorne C. & C. Angus	204-822-4396	S		

CDC BETHUNE♻

Cromer; Bartel, Bob	204-662-4580			C *
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268		R	*
Oak Lake; Smith, Gerald R.& Leigh E.	204-855-3128		R	*
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813		R	*

CDC GLAS♻

Carman; Menold, Thomas	204-745-3377			C *
Crandall; Doupe, Neil D.	204-562-3632		R	C *
Crystal City; Buchanan, Kenneth S.& Dean K.	204-873-2661			C *
Darlingford; Dudgeon, Gilbert Arthur	204-246-2357			C *
Elphinstone; Gerrard, Jody	204-759-2213			C *
Fannystelle; Nadeau, Brian	204-436-2469			C
Foxwarren; Graham, George Arthur	204-683-2367			C *
Miniota; Walker, Alan Glen	204-567-3647		R	C *
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268	S	F	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422			C *
Winnipeg; James, David G.	204-222-8785			C *

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; '*' listed varieties are eligible for seed class, but undergoing post-harvest seed testing for Additional Certification Requirements, at time of publication.

CDC NEELAⓅ

Fannystelle; Nadeau, Brian	204-436-2469			R
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			R

CDC PLAVAⓅ

Carman; Menold, Thomas	204-745-3377		F	
Foxwarren; Graham, George Arthur	204-683-2367	S		

CDC SORREL♻

Decker; Murray, Donald H. & Ryan	204-764-2733			C *
Foxwarren; Graham, George Arthur	204-683-2367			C *
Portage; Pugh, William G.& B.M. & Victoria	204-274-2179			C *
Rossburn; Mitchell, John	204-859-2431			C *
Stonewall; Unger, Ronald K. & Darcy	204-467-8630			R

HANLEY♻

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

LIGHTNING♻

Holland; Zeghers, Shawn M.	204-526-2366			R
Somerset; Sierens, Joseph & Chris	204-744-2883			C
Wawanesa; Ellis, Warren P. & Simon	204-824-2290	S		R

PRAIRIE SAPPHIRE♻

Elphinstone; Gerrard, Jody	204-759-2213			R

WESTLIN 70

Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany	204-748-2666			C

WESTLIN 72Ⓟ

Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805			R

MUSTARD

ANDANTE

Foxwarren; Graham, George Arthur	204-683-2367		F	

SOYBEANS

0077 XRN

Winkler; Delmar Commodity Ltd. (Mb Acct)			S	F

23-60RY

Tillsonburg; Monsanto Canada Inc. (Mb Acct)	519-688-9888			R

24-10RY

Tillsonburg; Monsanto Canada Inc. (Mb Acct)	519-688-9888			R

24-12RY

Tillsonburg; Monsanto Canada Inc. (Mb Acct)	519-688-9888			C

AAC EDWARDⓅ

Arborg; Johnson, Reginald H., James G. & Tim G.	204-642-2570			C
Carman; Menold, Ulrich & Lucas	204-745-2822		F	

AAC SPRINGFIELDⓅ

Oak Bank; Kyle, Lorne C. & C. Angus	204-822-4396	S	F	

AKRAS R2

Arnaud; Penner, Doyle	204-427-2392			R
Dauphin; Kaleta, James & Debra	204-638-7800			C
Lac Du Bonnet; Mc Intosh, Paul Ramsay	204-268-5081			C