

Variety Description Key

A "CHECK CHARACTERISTICS" box has been placed 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, please keep in mind the actual number of days to reach maturity 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. The more site years, the more dependable the data.

☯ Indicates a variety that is protected by Plant Breeder's Rights or a variety where protection has been applied for but not yet granted at time of printing.

Key to 2014 Yield Tables

Yields derived over 2 or more growing seasons are the best indicator of variety performance. For new varieties, "2014 Average Yield" over all sites is more reliable than data from a single location. Use single site year data with caution.

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 55.

Soybean Comments

For specific notes regarding the soybean tables, refer to the SOYBEAN COMMENTS at the top of page 66.

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O-67-10/14-10238264-E

Canola Comments

The Variety Descriptions table summarizes the performance of canola varieties tested in 2014 through the post-registration Canola Performance Trial (CPT). The CPT information within Seed Manitoba 2015 and on-line, provides data which has been audited by field inspection and data analysis process. The data presented was collected based on a specific scientifically designed protocol to ensure comparisons are unbiased. Detailed notes on other variety attributes and trial management are at www.canolaperformancetrials.ca

Performance at individual locations can be compared within the HT group and between groups, but the best performance indicator is to compare varieties over multiple sites. The trial design included grouping by herbicide tolerance so the LSD (Least Significant Differences) has been included for each HT group to determine if yield difference between varieties are significant. Using the comparisons of the yield performance to the standard 73-75RR, comparisons can be made between HT groups and between small plot and field scale trials.

Data Sources:

Data presentation in the long and mid season canola growing zones trials table (page 56) was collected from small plot/replicated trials that are typically less than ¼ acre in size. Varieties have been entered by the representative marketing company for testing.

Field scale trials range from ½ to 1½ acres and are managed by growers using their typical production practices. The trials are planted, swathed, harvested, and in some cases sprayed by growers using the respective herbicide systems according to established protocols. The results presented are varieties that were also included in the testing under small plot, replicated trials.

Blackleg Rating for Canola

The rating represents a variety's blackleg tolerance relative to the susceptible variety Westar. Varieties with a resistant (R) or moderately resistant (MR) rating for blackleg have shown the greatest ability to suppress blackleg, but can still develop some lesions or cankers. Individual field performance and tolerance may vary from tolerance levels reported in the registration trials. In fields showing higher than expected levels of blackleg or where there has been history of a tight rotation with canola, it may be necessary to lengthen rotation to achieve sufficient blackleg control.

continued on next page

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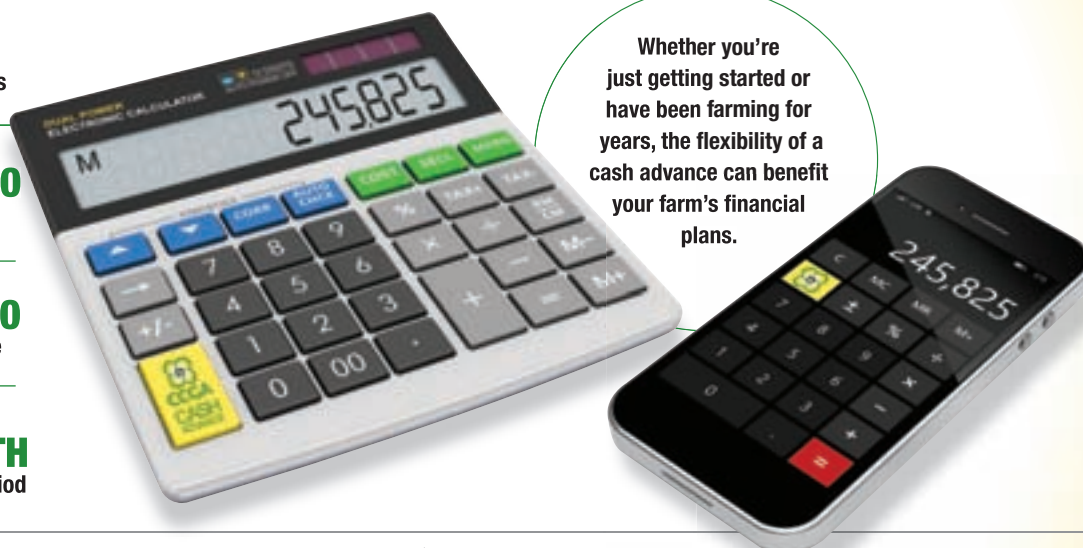
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Comments continued

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

Clubroot (*Plasmiodiophora brassicae*) is a disease of canola, which is long-lived in soil and is difficult to manage once it becomes established. Clubroot has been found at very low concentrations in Manitoba canola fields.

Clubroot resistant varieties are available for planting with resistance to the predominant pathotypes, but are not immune to the disease. With continued use, selection pressure for other clubroot pathotypes may occur that cannot be controlled by varietal resistance. To keep this genetic tool for the long-term, proper crop rotations and agronomic practices are needed.

Current varieties (as of August 2014) - Bayer CropScience: L135 C; Brett Young: 6056CR; CANTERRA Seeds: 1960; DeKalb: 74-47 CR, 74-54 RR, DuPont: D3155C; Pioneer Hi-Bred: 45H29, 45H33; Crop Production Services: VR 9558 GC, Dow AgroSciences: Nexera 2020 CL.

Variety Descriptions

Distributor	Variety (B.napus)	LONG Season Zone (5 trials)				MID Season Zone (14 trials)				Blackleg Tolerance
		Yield %73-75RR	Maturity (days)	Lodging (1-5)	Height (inches)	Yield %73-75RR	Maturity (days)	Lodging (1-5)	Height (inches)	
Clearfield Tolerant										
BrettYoung	5525 CL	93	94	2.2	48	92	95	2	43	R
Crop Production Services	VR 9560 CL *	97	97	2.7	49	98	96	2	47	R
	LSD (bu/ac)	11				13				
Liberty Tolerant										
Bayer CropScience	5440	102	96	1.7	51	105	95	2	45	R
Bayer CropScience	L130	100	93	2.0	48	100	93	2	44	R
Bayer CropScience	L252	113	96	2.3	49	108	95	2	44	R
Bayer CropScience	L261	106	96	1.7	55	107	96	2	49	R
	LSD (bu/ac)	10				10				
Roundup Tolerant										
BrettYoung	6044 RR	97	95	1.8	47	97	95	2	42	R
BrettYoung	6060 RR	95	98	2.2	49	97	97	2	43	R
BrettYoung	6064 RR	98	97	1.8	47	102	97	2	42	R
CANTERRA SEEDS	Canterra 1990	99	94	3.0	46	102	95	2	43	R
Cargill - VICTORY Hybrid	V12-1 *	101	95	2.4	47	103	95	2	43	R
Cargill - VICTORY Hybrid	V12-2 *	96	97	2.3	48	93	96	2	41	R
Syngenta	SY4157	105	98	1.9	52	105	96	2	45	R
Syngenta	SY4114	95	94	3.4	45	98	93	2	41	R
Syngenta	SY4135	96	94	3.4	44	95	94	3	41	R
Proven Seed / CPS	VR 9562 GC	101	94	2.5	49	105	94	2	45	R
DEKALB	73-75 RR	100	93	3.7	45	100	94	2	41	R
DEKALB	74-44 BL	101	94	3.3	45	98	94	2	42	R
DEKALB	74-54 RR	101	94	3.4	45	101	93	3	42	R
Varieties that have been supported for registration										
CANTERRA SEEDS	13DL30122	100	97	2.6	51	103	96	2	47	R
Cargill - VICTORY Hybrid	09H7763	103	95	2.9	48	100	96	2	44	R
Cargill - VICTORY Hybrid	08H0004	101	100	1.9	52	101	98	2	46	R
DL Seeds	11DL30318	98	95	2.2	48	97	95	2	43	R
DL Seeds	13DL30323	107	97	1.9	49	109	94	2	43	R
Crop Production Services	VT-SN 11-2786	98	94	2.4	48	101	94	2	42	R
	LSD (bu/ac)	9				10				
CHECK MEAN 73-75RR (bu/ac)		81				58				

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

CANOLA PERFORMANCE TRIAL — 2014 Field Scale Trial Location Data Summary

Variety	Yield LONG Zone			Yield MID Zone		
	bu/ac	% of 73-75RR	Sites	bu/ac	% of 73-75RR	Sites
Liberty Tolerant						
5440	48	104	13	50	111*	21
L130	48	105*	20	49	108*	38
L252	51	111*	22	49	108*	35
L261	48	104*	22	49	108*	27
Roundup Tolerant						
Canterra 1990	47	103	6	47	105*	18
73-75 RR	46	100	30	45	100	59
74-44 BL	48	105*	22	47	105*	39
74-54 RR	47	102	23	46	102	41

The "*" besides the number indicates that the mean was significantly different than 73-75 RR (paired, two-tailed t-test)

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	Yield	126%	127%
	Blackleg	R	R
Standability	Excellent	Very Good	

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CANOLA PERFORMANCE TRIAL — Long and Mid Season Zone Plot Location Data

Variety (B.napus)	LONG SEASON ZONE					MID SEASON ZONE													
	High Bluff, MB	Morden, MB	Rosebank, MB	Teulon, MB	Coaldale, AB	Dauphin, MB	Aberdeen, SK	Foam Lake, SK	Melfort, SK	North Battleford, SK	Saskatoon, SK	Swift Current, SK	Wakaw, SK	Yorkton, SK	Forestburg, AB	Lamont, AB	Tofield, AB	Vermillion, AB	Vulcan, AB
Clearfield Tolerant																			
5525 CL	87	93	89	98	98	83	86	89	102	105	87	83	96	94	81	94	101	93	90
VR 9560 CL *	89	94	95	112	96	85	102	102	109	114	97	86	96	109	81	97	101	106	88
LSD (%)	8.6	20.3	11.0	5.1	8.5	17.1	18.4	12.8	4.2	9.0	5.3	13.4	7.4	15.9	11.5	6.6	30.5	29.3	4.9
Liberty Tolerant																			
5440	100	107	90	109	104	93	90	107	126	117	102	91	100	107	97	106	114	106	106
L130	103	103	92	104	99	87	87	103	116	111	102	85	103	101	96	110	101	111	92
L252	111	109	107	122	117	109	101	113	125	126	111	92	97	115	106	113	105	100	101
L261	105	110	96	126	94	98	95	115	132	124	108	80	109	121	101	113	115	94	90
LSD (%)	7.7	12.4	7.7	8.4	14.6	7.7	11.4	2.7	6.1	8.2	5.7	10.7	13.8	5.7	11.0	9.7	7.6	26.1	9.4
Roundup Tolerant																			
6044 RR	91	108	94	93	98	93	86	87	112	104	97	86	102	92	103	95	105	98	97
6060 RR	94	104	90	87	100	85	85	95	112	108	96	85	111	101	98	89	108	97	83
6064 RR	97	105	88	99	101	99	94	103	120	109	94	91	109	102	107	93	109	106	87
Canterra 1990	99	100	97	96	103	96	96	92	113	105	97	96	115	98	113	94	111	107	94
V12-1*	96	108	97	104	100	94	104	100	108	109	105	83	111	102	108	103	106	107	97
V12-2*	101	103	90	91	94	79	85	87	97	100	91	84	98	90	99	95	108	102	86
SY4157	101	116	102	107	99	93	104	110	114	117	101	85	115	103	106	102	123	112	91
SY4114	102	91	101	95	88	90	87	98	98	102	94	91	93	100	99	97	109	104	105
SY4135	99	103	99	89	89	84	95	94	95	107	90	92	93	94	103	94	97	87	99
VR 9562 GC	103	105	101	100	93	102	99	110	116	105	103	94	105	105	101	95	114	109	110
73-75 RR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
74-44 BL	100	109	103	87	105	101	93	91	99	107	89	85	100	95	102	96	116	109	87
74-54 RR	101	101	101	103	100	101	93	98	101	101	102	88	100	108	100	94	115	102	106
Varieties that have been supported for registration																			
CS2000	100	109	99	99	94	95	92	102	121	120	103	85	115	104	99	94	110	105	98
09H7763	101	109	107	102	97	88	98	101	106	114	103	74	99	106	108	101	126	96	80
08H0004	103	110	80	114	97	87	95	107	127	112	97	81	96	105	109	90	114	102	84
11DL30318	100	103	100	93	94	90	95	97	104	104	98	77	97	95	100	95	107	94	102
13DL30323	100	112	102	105	114	100	100	111	121	119	104	92	111	110	111	100	126	124	105
VT-SN 11-2786	101	111	99	94	86	92	102	95	105	103	98	95	103	97	102	97	113	112	97
LSD (%)	6.5	9.0	8.3	10.2	12.9	12.5	10.7	8.1	8.5	6.6	6.5	12.9	15.6	5.5	4.2	6.7	15.1	14.2	13.6
73-75RR (bu/ac)	81	69	98	60	91	65	30	73	59	62	89	37	45	82	55	77	66	44	31
GRAND MEAN (bu/ac)	81	70	94	65	95	60	28	73	66	68	88	33	46	84	55	76	72	46	29
CV%	4.6	7.2	6.3	6.8	4.6	8.6	7.9	6.7	5.1	4.3	4.4	10.6	10.6	4.4	8.0	5.5	7.8	10.9	9.9

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

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CANOLA PERFORMANCE TRIAL — Field Scale Trial Location Data — *Manitoba only*

	2014 Yield: % of 73-75 RR																			
	LONG SEASON ZONE														MID SEASON ZONE					
	Bagot	Gretna	Howden	Killarney	Melita	Miami	Oakbluff	Petersfield	Pilot Mound	Roblin 1	Roblin 2	Roblin 3	Russell	Somerset	St. Adolph	Swan Lake	Westbourne	Arborg 1	Arborg 2	Swan River
Liberty Tolerant																				
5440	117	116			97		107	97	81		92		112		109					93
L130	124	108		95	106		104	103	80	110	88	103	112	94				107		90
L252	120	117	104	98	102		111	104	154	110		112	111	113	113			104		103
L261	117	115	105	104	89		107	101	101	103		102	108	91	110					100
Roundup Tolerant																				
Canterra 1990														109					109	
73-75 RR	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
74-44 BL			102	103	97	111				103	103	108	106	114	101	111	95	110	103	
74-54 RR	121		96	101		101			117	112	103	111		101		101	86	98	98	99
73-75 RR (bu/ac)	47	52	47	42	39	47	45	55	32	54	50	52	47	52	48	50	32	56	52	48

FLAX

New for 2015

Varieties that are being tested or proposed for registration				
Variety	Code	Breeder	Distributor	Seed Availability
FP2376☺	FP2376	Crop Production Services	Crop Production Services	2015
FP2385☺	FP2385	Crop Development Centre	Secan	2018

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.

The Canadian Grains Commission advises that the oilseed flax variety CDC Valour will be deregistered effective August 1, 2015 and

CDC Arras, Flanders and **Somme** deregistered effective August 1, 2017.



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FLAX (continued)

Variety Descriptions

Variety	Site	Yield bu/acre	Maturity	Height	Seed Color	Seed Size TKW	Oil Content	Oil Quality ¹ :		Resistance to:		
	Years Tested		+/- 102 days	+/- 27 inches				Iodine Number	ALA Content	Lodging	Fusarium Wilt	Powdery Mildew
AAC Bravo	12	32	1	0	brown	6.4	44.6	194.0	60.2	G	MR	MR
AC Carnduff	6	32	0	-1	brown	5.6	44.7	192.3	57.0	VG	MR	MR
AC Emerson	30	32	-2	-1	brown	6.4	43.8	196.1	59.3	G	R	R
AC Watson	3	31	-2	-2	brown	6.2	44.4	192.7	57.1	VG	MR	R
CDC Arras	13	32	0	-2	brown	6.1	45.2	189.2	54.4	G	MR	MS
CDC Bethune	110	34	0	0	brown	5.8	45.6	188.6	54.7	G	MR	MR
CDC Glas	12	35	1	1	brown	5.2	45.8	192.0	56.6	G	MR	MR
CDC Neela	12	33	1	1	brown	5.7	45.5	194.4	59.1	G	MR	MR
CDC Sanctuary	23	34	3	1	brown	5.8	45.6	190.7	57.2	G	MR	MR
CDC Sorrel	50	34	1	1	brown	6.4	45.1	192.7	57.8	F	MR	MR
Flanders	1	33	1	-2	brown	5.3	45.4	191.9	57.2	F	MR	MR
Hanley	69	32	-2	-2	brown	5.7	44.7	197.7	58.6	VG	R	MR
Lightning	40	33	1	-2	brown	6.0	47.6	192.5	56.1	G	MR	R
Macbeth	29	34	0	-1	brown	6.2	47.7	193.1	56.7	G	R	MR
NorLin	50	32	0	-1	brown	5.7	43.5	189.7	56.7	VG	MR	MS
VT50	3	32	4	-2	yellow	5.1	47.1	209.4	67.6	VG	MR	MR
Prairie Blue	68	34	1	-1	brown	5.2	46.3	192.2	57.3	VG	MR	MR
Prairie Grande	40	33	-2	-4	brown	5.8	45.6	192.9	57.5	G	MR	MR
Prairie Sapphire	34	35	2	-1	brown	5.8	48.1	193.1	57.2	G	MR	MR
Prairie Thunder	47	33	0	-3	brown	5.9	45.3	194.7	57.9	G	R	MR
Taurus	39	33	0	-1	brown	5.6	45.6	187.0	53.9	VG	MR	R
Vimy	4	32	1	0	brown	6.1	45.0	191.9	57.6	F	MR	MS
Westlin 70	12	32	2	2	brown	6.4	45.8	194.5	61.9	G	MR	R
Westlin 71	8	34	2	-2	brown	5.6	47.5	198.1	61.2	G	MR	MS
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	MR
FP2376	3	33	3	-1	brown	5.4	47.0	192.8	57.0	VG	MR	MR
FP2385	3	34	-2	-1	brown	5.7	46.5	195.5	57.2	G	MR	MR
GRAND MEAN (bu/ac)		33										
LSD (0.05)		1.9										

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	2014 Average Yield (bu/ac)	2014 Yield (bu/acre)		
		Hamiota	Roblin	Rosebank
AAC Bravo	42	42	48	35
CDC Bethune	41	40	52	32
CDC Glas	46	46	58	34
CDC Neela	43	44	52	34
CDC Sanctuary	37	36	44	32
VT50	43	37	60	30
Prairie Sapphire	43	43	53	34
Westlin 70	42	42	50	34
Westlin 71	45	41	60	36
Varieties that have been supported for registration				
FP2376	45	45	57	33
FP2385	46	45	61	31
SITE GRAND MEAN (bu/ac)		42	54	33
CV%		6.6	7.8	5.7
LSD (bu/ac)		5	7	—
Sign Diff		Yes	Yes	No
Seeding Date		17-May	24-May	09-May
Harvest Date		21-Sep	07-Oct	15-Oct

The Cereal Seed Experts



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MUSTARD

Comments:

All varieties are rated resistant tolerance to blackleg.

Data from the 1999-2012 Cop-operative Mustard Test and has been approved for publication by the Prairie Recommending Committee for Oilseeds (PRCO).

Variety Descriptions¹

Variety	Site Years Tested	Yield % Check	Days to Maturity +/- Check	Height +/- Check	Seed Weight (g/1000)	Mucilage ¹ cS* ml/g	Volatile Oil ² (mol/g seed)	Fixed Oil % Seed	Protein % Seed
Yellow - Sinapis alba % of AC Pennant									
AC Pennant	14	100	0	0	92	44.7	—	29.5	34.3
Adante	14	101	1	6	93	55.7	—	28.4	35.1
Oriental - Brassica juncea % of Cutlass									
Cutlass	14	100	0	0	91	—	11.6	41.0	29.1
Forge	14	97	1	10	92	—	12.2	38.9	29.6
AC Vulcan	14	98	0	1	91	—	12.4	40.6	29.5
Brown - Brassica juncea % of Duchess									
Duchess	14	100	0	0	92	—	9.5	38.1	28.7
Amigo3	5	92	2	0	94	—	13.6	34.7	30.3
Centennial Brown	14	101	0	4	92	—	10.3	36.3	30.1
CHECK CHARACTERISTICS									
Yellow - AC Pennant	14	1755	92	96					
Oriental - Cutlass	14	2083	91	115					
Brown - Duchess	14	1932	92	113					
	site years	lb/ac	days	cm					

¹ Mucilage in yellow mustard is a measurement of viscosity of aqueous extracts from seed.

² Volatile oil = allyl glucosinolate

³ Data from 2008-2012 Co-operative Mustard Test

SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

Please Note: Experimental Lines that are being tested in Manitoba

Due to recent changes for the requirements for registration for soybeans, lines which are not registered will be listed under this category

Maturity Notes: Always Use More Than 1 Criteria to Evaluate Maturity.

- Soybean varieties have been organized into 3 maturity zones - short, mid and long season areas. Although there are no variety restrictions, the short season grouping is meant to be a starting point for new growers in the outer production areas. The long season group is targeted for the southern Manitoba generally south of Highway 23, with the mid season grouping making up the bulk of the production area in between the short and long season area.
- Company Crop Heat Unit ratings are assigned to assist growers select varieties suitable for their area. Unfortunately Company Heat Unit ratings do not always reflect the actual maturity in Manitoba. Growers should never rely on just 1 criteria for judging maturity. Experimental lines are not assigned a HU rating until they become registered.
- Maturity grouping is a ranking of maturity provide by seed suppliers. These rankings are assigned to varieties to assist growers to select varieties suited for their area. For future years, maturity grouping will be used instead of CHU Ranking.
- Relative days to maturity (dtm) 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:

- Roundup Ready and Conventional soybean varieties are evaluated separately from Roundup Ready type varieties, meaning direct comparison of varieties between different tables is not possible. All trials are solid seeded at 210,000 plants/acre.
- Hilum colour can range from Yellow (Y), ImperfectYellow (IY), Grey (G), Brown (BR), Buff (BF), Tan (TN) or Black (BL) and is solely a marketing issue. The hilum is the point on the soybean seed where it attaches to the pod.
- 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.
- 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.
- 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 4 sites prone to iron chlorosis over the last 2 years. IDC tolerant varieties are varieties with lower IDC Scores and perform better on soils prone to iron deficiency.
- 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.

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WESTERN MANITOBA SOYBEAN ADAPTATION TRIAL

Comments:

The Adaptation Soybean variety trial was tested and the data donated by the Manitoba Pulse Growers Association.

In 2014, trials were located at Boissevain, Carberry, Hamiota, and Roblin.

Variety Descriptions

Variety	Maturity Grouping	Company Heat Units	Yield % Check	Site Years Tested	Relative Day to Maturity ¹ +/- Check			2014 Yield: % of 23-10RY			
					AVERAGE	2014	2013	Boissevain	Hamiota	Roblin	Carberry
P001T34R☼	000	2300	77	8	-7	-6	-7	72	68	77	73
P002T04R☼	00.2	2325	99	4	-3	-3	—	94	105	117	87
NSC Moosomin RR2Y	000	2300	95	8	-3	-3	-2	83	101	99	86
TH 33003R2Y	00.3	2400	105	9	0	3	-2	105	117	87	108
NSC Anola RR2Y	00.2	2350	110	8	0	3	-2	114	125	92	113
23-10RY	00.1	2325	100	15	0	0	0	100	100	100	100
NSC Reston RR2Y	00.1	2325	99	9	2	2	2	100	97	92	106
LS002R24N	00.2	2375	109	8	1	2	0	110	105	97	109
TH 32004R2Y	00.4	2425	113	14	2	3	1	112	122	89	113
NSC Gladstone RR2Y	00.4	2375	107	8	2	4	0	109	104	88	105
900Y61☼	00.6	2425	100	14	3	3	2	100	112	79	102
LS 002R23	00.2	2375	105	9	2	4	1	97	108	87	104
23-60RY	00.3	2375	107	8	1	-2	5	113	110	96	110
PS 0035 NR2	00.3	2375	106	8	2	3	1	114	111	91	107
McLeod R2	00.3	2375	108	9	2	4	0	113	99	91	111
NSC Tilston RR2Y	00.4	2375	107	9	3	5	0	103	112	101	100
Pekko R2	00.3	2325	98	14	3	5	1	89	118	105	113
Bishop R2	00.2	2350	99	9	2	3	0	83	101	122	101
S007-Y4	00.7	2350	117	4	4	4	—	113	122	118	116
900Y71☼	00.7	2450	102	14	3	5	1	108	116	80	101
Akras R2	00.9	2375	111	4	5	5	—	102	122	99	122
Notus R2	00.6	2300	94	4	4	4	—	95	93	81	103
Vito R2	00.3	2350	95	9	4	6	2	82	97	74	103
LS 003R24N	00.3	2350	101	4	5	5	—	106	96	97	102
TH 33005R2Y	00.5	2450	108	8	5	7	3	99	111	65	121
Hero R2	00.4	2375	103	4	6	6	—	108	119	76	105
Sampsa R2	00.8	2425	100	14	6	7	5	113	122	98	108
TH 35002R2Y	00.2	2375	84	4	5	5	—	79	102	47	104
HS 006RYS24	00.6	2450	100	10	6	6	—	100	105	90	103
HS 007RY32	00.7	2500	106	5	6	6	—	127	124	81	113
24-10RY	00.5	2425	102	10	7	7	—	109	112	85	124
Experimental Lines that are being tested in Manitoba											
MKZ613A3			100	4	3	5	—	100	114	70	111
MK913A4			99	4	1	1	—	88	104	91	114
CFS13.2.01 R2			110	4	7	7	—	93	116	113	122
LS NorthWester			108	4	1	1	—	106	110	98	115
SC 2350R2			115	4	5	5	—	118	113	104	120
CHECK CHARACTERISTICS						23-10RY (bu/acre)		66	46	49	65
23-10 RY			51	15	131	127	135	CV%	5.6	6.7	7.0
			bu/ acre	site years	days to maturity			LSD%	9	11	10
						Sign Diff			Yes	Yes	Yes
						Seeding Date			21-May	17-May	27-May
						Harvest Date			17-Oct	14-Oct	14-Oct
											26-May
											09-Oct

¹ Maturity Based on Data from Boissevain, Hamiota, Roblin

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NATTO SOYBEANS

Comments:

Natto soybeans were last tested in 2012.

OAC Prudence is not a natto type soybean; it is used as a check to determine the yield potential of natto type soybeans compared to conventional soybeans. The Natto Soybean variety trial was tested and the data was donated by Manitoba Pulse Growers Association.

Variety Descriptions

												2012 Yield: % of OAC Prudence						
Manitoba Variety Grouping	Company Heat Unit	Variety	Relative Days to Maturity +/- Check				Yield % Check	Site Years Tested	Lodging	Seeds/lbs	IDC Rating (1-5)	Carman	St. Adolphe	Morris	Rosebank	Morden		
			Average	2012	2011	2010												
Short Season	2375	AC QGC 12N	-8	—	-7	-9	77	40	2.8	5200	2.3	—	—	—	—	—		
Mid Season	2475	OAC Prudence	0	0	0	0	100	49	1.7	2300	1.6	100	100	100	100	100		
Varities that have been supported for registration																		
		Colibri	0	—	3	—	81	22	1.2	7350	—	—	—	—	—	—		
		OT 08-05	0	1	1	3	91	20	2.3	4300	—	106	104	92	86	89		
CHECK CHARACTERISTICS												OAC Prudence (bu/acre)						
OAC Prudence			115	114	106	125	49	49	CV%			3.9	4.8	6.1	6.5	6.9		
			days to maturity				bu/acre	site years			LSD%			8	9	10	10	12
											Sign Diff			Yes	Yes	Yes	Yes	Yes

1 Lodging and maturity ratings (1-5) were averaged across the Morris, St. Adophe and Carman sites.

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CONVENTIONAL SOYBEANS

Comments:

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

Variety Descriptions

Manitoba Variety	Company Heat		Relative Days to Maturity ¹ + / - Check				Yield %	Site Years	Hilum	Relative	Lodging ²	
Zones	Unit	Variety	Average	2014	2013	2012	Check	Tested	Colour	Seeds/lb	Clay Soil	Loam Soil
Short Season Zone	2400	AAC Edward (OT11-01)	-4	-4	-2	-5	103	13	IY	2640	1.0	1.0
		Experimental Lines that are being tested in Manitoba										
		EXP 700	-6	-6	—	—	77	6	Y	2900	1.0	1.0
		OT13-07	-3	-3	—	—	99	6	Y	2340	1.0	1.0
		OT13-05	-2	-2	—	—	91	6	Y	2930	1.0	1.0
Mid - Long	2450	OAC Prudence	0	0	0	0	100	95	Y	2655	1.0	1.0
	2400	AAC Mandor	3	4	3	1	108	26	Y	2467	1.0	1.0
Season Zone		Experimental Lines that are being tested in Manitoba										
		OT13-08	3	3	—	—	104	6	IY	2690	1.0	1.0
		SeCan 11-05C	3	5	5	0	106	20	Y	3128	1.0	1.0
		OT11-03	5	5	5	5	107	14	Y	2455	1.0	1.0
		OAC 11-02C	6	8	6	4	110	8	Y	2400	1.0	1.0
		JARI	8	8	—	—	108	6	IY	2481	1.0	1.0
		OT13-04	9	9	—	—	107	6	Y	2750	1.0	1.0
CHECK CHARACTERISTICS												
OAC Prudence			114	115	114	114	49	95				
			Days to maturity				bu/acre	site years				

¹ Maturity Ratings for 2014 are average across Carman, Morris, St. Adolphe

² Lodging ratings are average across Loams(Carman) Clays (St. Adolphe, Morris)

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CONVENTIONAL SOYBEANS (continued)

Yield Comparisons

		2014 Yield: % of OAC Prudence									
		2014 Average Yield	Site Years Tested	Early Sites		Core Sites				Late Sites	
				Arborg	Stonewall	Carman	Morris	Portage	St. Adolphe	Rosebank	Morden
Manitoba Variety Zone	Variety										
Short Season Zone	AAC Edward (OT11-01)	95	6	82	96	98	92	107	98	—	—
	Experimental Lines that are being tested in Manitoba										
	EXP 700	77	6	75	66	59	85	89	86	—	—
	OT13-07	99	6	86	104	103	95	106	108	—	—
	OT13-05	91	6	88	101	84	100	86	88	—	—
Mid - Long Season Zone	OAC Prudence	100	8	100	100	100	100	100	100	100	100
	AAC Mandor	113	6	103	132	116	116	105	116	—	—
Season Zone	Experimental Lines that are being tested in Manitoba										
	OT13-08	104	6	—	—	109	97	102	110	100	106
	SeCan 11-05C	102	6	88	117	118	96	91	110	—	—
	OT11-03	96	6	—	—	90	107	79	86	103	107
	OT11-02C	96	6	—	—	105	114	71	94	95	97
	JARI	108	6	107	122	134	104	77	108	—	—
	OT13-04	107	6	—	—	109	105	94	118	100	117
Check Characteristics OAC Prudence (bu/acre)				57	29	43	46	43	45	49	48
CV %				13.3	7.1	8.4	4.6	7.6	4.7	4.7	5.1
LSD %				23	13	14	8	13	8	9	10
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
		Seeding Date		23-May	23-May	22-May	24-May	04-Jun	29-May	27-May	23-May
		Harvest date		15-Oct	10-Oct	02-Oct	07-Oct	17-Oct	08-Oct	15-Oct	01-Oct

ROUNDUP READY SOYBEANS

New for 2015

Variety	Previous Code	Distributor	Seed Availability
23-60RY	FLZ612A4	DEKALB	2014
Akras R2	CFS12.3.02 R2	Brett Young	2015
Hero R2	SC2380 R2	Secan	2014
LS002R24N	LS002R24N	Delmar Commodities	2014
LS005R24	LS005R24	Delmar Commodities	2014
Notus R2	AURA R2	Brett Young	2015
NSC Gladstone RR2Y	NSC Gladstone RR2Y	Northstar Genetics Manitoba	2014
NSC Sanford R2Y	009G12A1	Northstar Genetics Manitoba	2014
P002T04R☼	P002T04R	DuPont Pioneer	2014
P008T22R2☼	PH13001	DuPont Pioneer	2014
P008T70R☼	PH13003	DuPont Pioneer	2014
PRO 2525R2	PRO 2525R2	Sevita International	2014
PRO 2535R2	PRO 2535R2	Sevita International	2014
PS 0035 NR2	EXP00313R2	PRIDE Seeds	2014
S00-N6	S00-N6	Syngenta Canada	2014
TH 33005R2Y	TH 33005R2Y	Quarry Seed Ltd.	2014
TH 34006R2Y	TH 34006R2Y	Quarry Seed Ltd.	2014
TH 35002R2Y	TH 35002R2Y	Quarry Seed Ltd.	2014

Variety Descriptions

Manitoba Variety Zones	Company		Variety	Type ¹	Relative Days to Maturity ² + / - Check				Yield % Check	Site Years Tested	Hilum Colour	Relative Seeds/lb	Lodging ³		IDC ⁴ Rating		
	Heat	Maturity															
	Unit	Grouping											Clay	Loam	(1-5)	Grouping	Notes ⁵
Short Season Zone	2300	000	P001T34R☼	RR1	-10	-11	-12	-8	68	18	BR	3138	1.0	1.0	2.1	ST	—
	2300	000	NSC Moosomin RR2Y	R2Y	-7	-6	-8	—	82	13	BR	3200	1.0	1.0	2.3	ST	—
	2325	00.2	P002T04R☼	RR1	-7	-7	—	—	76	7	TN	3059	1.0	1.0	2.4	S	1k
	2325	00.1	23-10RY	R2Y	-5	-6	-4	-4	95	25	BL	2313	1.0	1.0	1.8	ST	1c
	2325	00.3	Pekko R2	R2Y	-4	-3	-5	-5	96	23	BL	2402	1.0	1.0	1.8	ST	—
	2325	00.1	NSC Reston RR2Y	R2Y	-4	-4	-5	-4	96	19	BL	3369	1.0	1.0	2.7	S	1k
	2350	00.2	Bishop R2	R2Y	-4	-4	-4	-3	93	24	IY	2614	1.0	1.0	2.4	S	—
	2350	00.7	S007-Y4	R2Y	-4	-3	-4	—	108	13	IY	2841	1.0	1.0	1.8	ST	1c
	2375	00.3	23-60RY	R2Y	-3	-3	-3	—	103	13	BL	2440	1.0	1.0	1.7	T	—
	2375	00.3	PS 0035 NR2	R2Y	-3	-2	-3	—	102	13	BL	2550	1.0	1.0	1.8	ST	SCN
	2425	00.4	TH 32004R2Y	R2Y	-2	-1	-4	-1	104	25	BL	3200	1.0	1.0	1.8	ST	1c
	2375	00.2	LS 002R24N	R2Y	-2	-2	-2	—	104	13	BL	2796	1.0	1.0	1.8	ST	SCN
	2350	00.2	NSC Anola RR2Y	R2Y	-2	0	-4	-1	102	23	BL	2720	1.0	1.0	1.8	ST	1c
	2375	00.2	LS 002R23	R2Y	-2	-2	-2	-1	97	19	BL	2796	1.0	1.3	1.8	ST	—
	2375	00.2	TH 35002R2Y	R2Y	-2	-2	—	—	92	7	BL	2970	1.0	1.0	1.6	T	—
Experimental Lines that are being tested in Manitoba																	
			MKZ913A4	R2Y	-5	-5	—	—	95	7	BL	2536	1.0	1.0	1.9	ST	—
			MKZ613A3	R2Y	-4	-4	—	—	97	7	BL	2751	1.0	1.0	1.7	T	—
			PH 14001	RR1	-3	-3	—	—	85	7	BL	2562	1.0	1.0	NT	NT	1c
			LS Northwester	R2Y	-3	-3	—	—	93	7	BL	2450	1.0	1.3	1.9	ST	—
			SC2350	R2Y	-3	-3	—	—	109	7	BL	2110	1.0	1.0	2.6	S	—
			PH 14003	RR1	-3	-3	—	—	83	7	BR	3433	1.0	1.0	NT	NT	1c
Mid Season Zone	2375	00.3	McLeod R2	R2Y	-1	-2	-2	0	102	19	BL	2268	1.0	1.0	1.6	T	—
	2400	00.6	S00-N6	R2Y	-1	-2	0	—	101	13	BL	2507	1.0	1.0	2.2	ST	—
	2375	00.4	NSC Gladstone RR2Y	R2Y	-1	-1	-1	—	100	13	BL	2570	1.0	1.3	2.0	ST	—
	2300	00.6	Notus R2	R2Y	-1	-1	—	—	93	7	BL	2122	1.0	1.0	1.6	T	—
	2350	00.3	Vito R2	R2Y	-1	0	-1	-1	96	23	GR	3366	1.0	1.0	1.9	ST	1k
	2375	00.9	Akras R2	R2Y	-1	0	-2	0	104	18	BL	2183	1.0	1.0	1.6	T	—
	2375	00.4	NSC Libau RR2Y	R2Y	-1	-1	0	-1	99	25	BL	2886	1.0	1.0	1.8	ST	1c
	2350	00.3	LS 003R24N	R2Y	-1	-1	0	—	101	7	BL	2583	1.0	1.0	1.7	T	—
	2475	00.6	Chadburn R2	R2Y	0	1	-1	-1	100	26	BL	2612	1.0	1.0	1.5	T	—
	2400	00.3	TH 33003 R2Y	R2Y	0	1	-2	0	100	22	BR	3000	1.0	1.0	2.1	ST	1c
	2375	00.4	NSC Tilston RR2Y	R2Y	0	0	-1	1	100	23	BL	2810	1.0	1.0	1.8	ST	—
	2400	00.4	004R21	R2Y	0	0	0	0	100	31	BL	2938	1.0	1.0	1.5	T	1a
	2450	00.5	TH 33005R2Y	R2Y	0	2	-2	1	112	19	BL	2800	1.0	1.0	1.8	ST	1c,1k
	2425	00.8	Samps R2	R2Y	0	0	0	1	105	21	BL	2270	1.0	1.0	2.0	ST	1c
	2475	00.6	TH 34006R2Y	R2Y	1	1	0	—	107	12	IB	2500	1.0	1.0	2.0	ST	—
	2425	00.5	24-10RY	R2Y	1	2	0	0	105	31	BL	2948	1.0	1.0	1.9	ST	1k
	2450	00.5	Gray R2	R2Y	1	1	0	1	100	19	BL	2662	1.0	1.0	1.9	ST	1c
	2450	00.5	PRO 2525R2	R2Y	1	1	—	—	114	7	BL	2101	1.0	1.2	1.7	T	1c
	2425	00.6	900Y61PBR	RR1	1	2	-1	2	94	25	BR	2468	1.0	1.0	1.5	T	1c
	2450	00.6	HS 006RYS24	R2Y	1	1	1	1	101	24	BL	2900	1.0	1.0	1.6	T	SCN
	2475	00.8	P008T70R☼	RR1	1	1	1	—	110	13	BR	2396	1.0	1.0	1.8	ST	1k
	2425	00.5	NSC Sanford R2Y	R2Y	1	2	0	—	105	13	GR	2650	1.0	1.7	2.0	ST	—
	2450	00.7	900Y71 PBR	RR1	1	2	1	1	97	25	IY	2502	1.0	1.0	1.7	T	1c
	2375	00.4	Hero R2	R2Y	2	2	1	—	100	13	BL	2075	1.0	1.5	2.2	ST	1c
Experimental Lines that are being tested in Manitoba																	
			EXP 00813BNR2	R2Y	-1	-1	—	—	107	6	IY	2700	1.0	1.0	1.7	T	—
			PH 14002	RR1	-1	—	—	—	94	7	BR	2799	1.0	—	NT	NT	1c
			FLZ612A3	R2Y	0	0	—	—	99	7	BL	2404	1.0	1.0	1.6	T	—
			CFS13.2.01 R2	R2Y	0	2	-1	—	107	13	Y	2508	1.0	1.0	1.9	ST	—

ROUNDUP READY SOYBEANS (continued)

Manitoba Variety	Company		Maturity	Variety	Type ¹	Relative Days to Maturity ²				Yield %	Site Years	Hilum Colour	Relative Seeds/lb	Lodging ³		IDC ⁴		
	Heat	Unit				+ / - Check								Clay	Loam	Rating (1-5)	Grouping	Notes ⁵
Zones	Unit	Grouping				Average	2014	2013	2012	Check	Tested							
Long	2500	00.7	HS 007RY32	R2Y	1	0	2	2	114	12	BL	2950	1.0	1.0	1.8	ST	1c,1k	
	2475	00.8	P008T22R2☺	R2Y	2	2	2	—	104	13	TN	2329	1.0	1.0	1.5	T	1c	
	2475	00.7	24-61RY	R2Y	3	2	3	—	105	12	BL	2751	1.0	1.0	1.6	T	1c	
	2500	00.8	PS 0074 R2	R2Y	3	4	1	3	113	17	BR	2900	1.0	2.0	1.6	T	—	
	2475	00.7	NSC Richer RR2Y	R2Y	3	3	2	3	110	22	BL	3390	1.0	1.3	1.5	T	1c	
Season	2475	00.5	LS 005R22	R2Y	3	2	3	3	104	17	BL	2344	1.0	1.0	1.8	ST	—	
	2450	00.6	NSC Niverville RR2Y	R2Y	3	4	2	2	112	17	BL	3690	1.0	1.2	1.6	T	SCN,1c	
Zone	2500	00.7	LS 007R22	R2Y	3	3	2	4	110	17	BL	2725	1.0	1.8	2.0	ST	—	
	2500	00.9	S00-T9	R2Y	3	4	1	4	114	17	BL	2302	1.0	1.0	1.6	T	1k	
	2475	00.5	LS 005R24	R2Y	3	2	4	—	110	12	BL	2755	1.0	1.8	1.7	ST	—	
	2475	00.8	PS 0083 R2	R2Y	3	3	3	3	97	22	BL	2600	1.0	1.0	2.5	S	—	
	2500	00.8	Currie R2	R2Y	4	4	5	3	109	23	BL	2594	1.0	1.0	1.8	ST	1k	
	2475	00.9	25-10RY	R2Y	4	4	4	5	110	20	BL	2630	1.0	1.3	1.9	ST	1c	
	2525	00.7	Astro R2	R2Y	6	6	6	5	115	20	BL	2800	1.0	1.7	1.8	ST	1k	
	2575	00.9	PRO 2535R2	R2Y	7	7	—	—	117	6	BL	2402	1.0	2.0	1.6	T	1k	
	Experimental Lines that are being tested in Manitoba																	
				NSC Arnaud RR2Y	R2Y	2	2	—	—	114	6	BL	2720	1.0	1.7	2.0	ST	—
			CFS12.5.01 R2	R2Y	4	4	—	—	109	6	BL	2281	1.0	1.2	2.0	ST	—	
			NSC EXP 1319 R2	R2Y	4	4	—	—	108	6	BL	2440	1.0	1.3	3.2	S	—	
			CFS13.3.01 R2	R2Y	5	5	—	—	116	6	BL	2259	1.0	1.0	NT	NT	—	
CHECK CHARACTERISTICS																		
004R21						117	117	120	115	50	31							
						days to maturity				bu/acre		site years						

1 R2Y Indicates Genuity Roundup Ready 2 Yield Soybeans

2 Maturity Ratings for 2014 are average across Carman, Morris, St. Adolphe

3 Lodging ratings are average across Loams(Carman) Clays (St. Adolphe, Morris)

4 Iron Deficiency Chlorosis (IDC) Groupings- These ratings determined at a separate trial near Winnipeg that is prone to IDC. S=Susceptible, ST=Semi-Tolerant, T=Tolerant, NT=Not Tested.

5 Notes 2a, 1c, etc. Phytophthora Resistance genes, SCN=Soybean Cyst Nematode Resistance

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ROUNDUP READY SOYBEANS (continued)

Yield Comparisons

Manitoba Variety Zone		Variety	2014 Average Yield	Site Years Tested	2014 Yield: % of 004R21								
					Early Sites			Core Sites				Late Sites	
					Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank
Short Season Zone	P001T34R☼	55	7	50	59	43	54	48	69	64	—	—	
	NSC Moosomin RR2Y	81	7	74	57	81	92	82	85	98	—	—	
	P002T04R☼	76	7	74	58	70	66	76	100	89	—	—	
	23-10RY	92	7	100	84	80	97	90	99	89	—	—	
	Pekko R2	97	7	96	84	104	85	101	97	114	—	—	
	NSC Reston RR2Y	86	7	74	64	91	86	93	99	100	—	—	
	Bishop R2	91	7	99	68	90	95	93	91	101	—	—	
	S007-Y4	112	7	115	112	106	113	107	107	121	—	—	
	23-60RY	105	7	100	94	107	103	109	115	111	—	—	
	PS 0035 NR2	105	7	97	98	103	108	108	105	115	—	—	
	TH 32004R2Y	99	7	95	88	101	103	101	95	114	—	—	
	LS 002R24N	107	7	113	101	95	112	110	97	117	—	—	
	NSC Anola RR2Y	100	7	91	108	96	96	103	101	109	—	—	
	LS 002R23	90	7	92	70	92	88	95	95	95	—	—	
	TH 35002R2Y	92	7	85	77	93	93	102	86	104	—	—	
	Experimental Lines that are being tested in Manitoba												
	MKZ913A4	95	7	92	81	102	99	91	94	109	—	—	
	MKZ613A3	97	7	93	94	98	99	102	90	103	—	—	
	PH 14001	85	7	74	75	78	95	83	90	99	—	—	
	LS NorthWester	93	7	87	92	92	85	99	91	105	—	—	
	SC2350	109	7	114	94	96	112	106	113	124	—	—	
	PH 14003	83	7	69	62	81	90	89	98	92	—	—	
	Mid Season Zone	McLeod R2	98	7	94	81	95	103	103	98	113	—	—
		S00-N6	102	7	103	104	97	104	107	102	99	—	—
		NSC Gladstone RR2Y	100	7	80	105	99	104	103	100	111	—	—
Notus R2		93	7	83	71	85	104	104	92	111	—	—	
Vito R2		94	7	94	85	99	86	96	98	104	—	—	
Akras R2		104	7	106	91	100	104	98	109	121	—	—	
NSC Libau RR2Y		97	7	86	99	97	92	100	98	107	—	—	
LS 003R24N		101	7	89	95	101	113	111	88	112	—	—	
Chadburn R2		101	7	86	105	98	104	103	99	112	—	—	
TH 33003R2Y		97	7	91	88	100	109	99	90	102	—	—	
NSC Tilston RR2Y		99	7	107	87	93	113	95	92	106	—	—	
004R21		100	9	100	100	100	100	100	100	100	100	100	
TH 33005R2Y		109	7	105	100	108	115	110	102	119	—	—	
Sampsa R2		103	7	88	96	112	106	113	86	127	—	—	
TH 34006R2Y		109	6	—	—	—	111	112	104	112	111	105	
24-10RY		106	9	91	102	107	109	106	90	112	115	120	
Gray R2		98	7	89	94	93	98	109	101	101	—	—	
PRO 2525R2		114	7	110	115	102	118	121	106	124	—	—	
900Y61PBR		88	7	88	77	81	94	94	83	94	—	—	
HS 006RYS24		96	7	79	86	94	114	101	96	104	—	—	
P008T70R☼		106	7	111	88	115	92	113	116	111	—	—	
NSC Sanford R2Y		106	7	95	102	100	106	117	102	120	—	—	
900Y71 PBR		94	7	98	87	95	94	92	95	98	—	—	
Hero R2		102	7	99	92	96	116	98	95	115	—	—	
Experimental Lines that are being tested in Manitoba													
EXP 00813BNR2	107	6	—	—	—	97	108	105	110	116	106		
PH 14002	94	7	81	81	96	99	96	104	104	—	—		
FLZ612A3	99	7	98	88	94	100	107	96	108	—	—		
CFS13.2.01 R2	109	7	122	100	102	110	105	106	115	—	—		

Manitoba Variety Zone Variety		2014 Average Yield	Site Years Tested	2014 Yield: % of 004R21								
				Early Sites			Core Sites				Late Sites	
				Arborg	Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank
Long Season Zone	HS 007RY32	115	6	—	—	—	119	107	107	124	114	119
	P008T22R2	103	7	98	87	101	109	111	110	105	—	—
	24-61RY	106	6	—	—	—	116	106	96	108	103	105
	PS 0074 R2	124	6	—	—	—	112	115	111	122	140	138
	NSC Richer RR2Y	113	6	—	—	—	110	113	92	112	125	119
	LS 005R22	109	6	—	—	—	104	106	99	117	112	115
	NSC Niverville RR2Y	114	6	—	—	—	121	106	90	114	121	126
	LS 007R22	114	6	—	—	—	107	126	91	122	122	116
	S00-T9	114	6	—	—	—	103	118	107	123	116	121
	LS 005R24	109	6	—	—	—	111	115	92	104	121	107
	PS 0083 R2	93	6	—	—	—	78	94	73	87	112	103
	Currie R2	113	6	—	—	—	103	119	88	116	131	114
	25-10RY	119	6	—	—	—	118	116	115	119	118	126
	Astro R2	122	6	—	—	—	113	121	103	126	133	131
	PRO 2535R2	117	6	—	—	—	116	119	92	115	132	125
Experimental Lines that are being tested in Manitoba												
	NSC Arnaud RR2Y	114	6	—	—	—	113	112	92	121	122	121
	CFS12.5.01 R2	109	6	—	—	—	104	110	75	117	126	116
	NSC EXP 1319 R2	108	6	—	—	—	119	102	81	115	113	112
	CFS13.3.01 R2	116	6	—	—	—	117	109	101	119	120	126
Check Characteristics 004R21 (bu/acre)				51	44	42	52	47	47	43	61	58
CV%				10.1	9.9	5.9	6.1	3.9	8.9	6.1	7.4	6.6
LSD%				16	16	10	10	6	14	10	12	11
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date				23-May	24-May	23-May	22-May	24-May	04-Jun	29-May	23-May	27-May
Harvest Date				15-Oct	22-Oct	10-Oct	02-Oct	07-Oct	17-Oct	08-Oct	01-Oct	15-Oct



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SUNFLOWERS — Non-Oil Type

Comments:

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

Data is based on the 2011-2013 long-term NSAC sunflower testing database, no trials were harvested in 2014.

Disease Management:

All sunflowers currently available are susceptible to sclerotinia and all varieties presented in SEED MANITOBA 2015 have shown susceptibility to the sunflower rust strains present in Manitoba, as tested by Morden AAFC. Environmental conditions, presence of inoculum from previously infected crops will increase risk of crop infection. Losses from both rust and sclerotinia can reduce yields, test weight and can cause grading factor issues. To manage sclerotinia and rust, use of fungicides in combination with good agronomic practices such as lengthened crop rotations between sunflower crops (both sclerotinia and rust) and between other sclerotinia susceptible crops and sunflowers both 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. Again, lengthened crop rotations between sunflower crops will reduce the inoculum in the soil and reduce potential for infection.

Variety Descriptions

Company	Variety	Herbicide Tolerance	DMR*	Site Years Tested	Yield % Check	Days to Maturity	Height (inches)	Seed Sizing		
								>22/64 inch	>20/64 inch	Medium
NuSeed America	6946	—	N	9	95	2	0	35	34	22
NuSeed America	6946 DMR	—	Y	12	100	0	0	32	31	28
NuSeed America	6950	—	N	10	102	3	2	31	32	29
NuSeed America	Jaguar	CL	N	9	95	3	0	61	24	12
NuSeed America	Jaguar DMR	CL	Y	6	103	0	4	62	23	11
NuSeed America	Panther DMR	—	Y	9	92	0	-1	46	32	24
CHS Sunflowers	RH400 CL	CL	N	12	96	3	4	44	31	17
NuSeed America	Sundance DMR	—	Y	6	96	3	5	26	27	39
Experimental lines being tested/proposed for registration in Canada										
NSAC	EX 711	—	N	3	90	1	4	22	30	37
NSAC	EX 730	—	N	3	85	3	-3	54	16	21
NSAC	EX 753	—	N	3	101	2	0	46	24	23
NSAC	EX 755	—	N	3	93	2	5	26	27	38
NSAC	EX 5255	—	N	3	77	2	6	46	16	26
NSAC	EX 8211	—	N	3	89	3	6	51	17	23
NSAC	EX 8230	—	N	3	64	2	-2	57	12	21
NSAC	EX 8253	—	N	6	80	5	2	64	8	18
NSAC	EX 8255	—	N	3	93	4	7	30	23	34
NSAC	EX 9011	—	N	3	84	1	-1	25	35	31
NuSeed America	NHW12739	—	Y	3	88	-2	2	72	8	14
NuSeed America	NSK12N069	—	Y	3	94	3	6	23	29	40
CHS Sunflowers	RH1130EX	ExSun	N	3	99	8	6	70	6	16
NuSeed America	X9180 EX DMR	ExSun	Y	7	98	3	3	42	32	50
CHECK CHARACTERISTICS				12	3428	119	69			
6496 DMR				site years	lb/ac	days	inches			

*DMR indicates Downy Mildew Resistance, but with changes in races and prolonged wet conditions, symptoms in field may still be observed.

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SUNFLOWERS — Oil Type

Variety Descriptions

Company	Variety	Herbicide Tolerance	DMR*	Site Years	Yield % Check	Days to Maturity	Height (inches)	% Oil	Oil Type
Syngenta Canada	3495 NS/CL/DM	CL	Y	7	101	1	-2	-2.0	NS
Pioneer Hi-Bred	63N82	ExSun	N	4	87	4	-2	0.6	NS
NuSeed America	Cobalt II	CL	Y	7	90	3	-6	-1.8	HO
NuSeed America	Defender Plus	—	Y	5	88	-3	-7	-2.6	NS
NuSeed America	Falcon EX	ExSun	N	9	92	2	-6	0.0	NS
NuSeed America	Talon	ExSun	N	4	96	0	-5	-3.3	NS
Pioneer Hi-Bred	P63ME70	ExSun	Y	9	100	0	0	0.0	NS
Pioneer Hi-Bred	P63ME80	ExSun	Y	9	96	3	1	-0.4	NS
Experimental lines are being tested/proposed for registration in Canada									
NuSeed America	NLK12S069	ExSun	N	4	101	0	1	-6.3	NS
CHECK CHARACTERISTICS									
P63ME70				9 site years	3699 lb/ac	124 days	70 inches	43 %	

*DMR indicates Downy Mildew Resistance, but with changes in races and prolonged wet conditions, symptoms in field may still be observed.

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Distributor Contacts for Varieties in Seed Manitoba 2015

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CANOLA

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

FLAX

AAC Bravo	FP Genetics
AC Carnduff	SeCan
AC Emerson	SeCan
AC Watson	Crop Production Services (CPS)
CDC Arras	FP Genetics
CDC Bethune	SeCan
CDC Glas	SeCan
CDC Neela	CANTERRA SEEDS
CDC Sanctuary	SeCan
CDC Sorrel	SeCan
Flanders	SeCan
Hanley	SeCan
Lightning	CANTERRA SEEDS
Macbeth	Crop Production Services (CPS)
NorLin	SeCan
NuLin VT 50	Crop Production Services (CPS)
Prairie Blue	SeCan
Prairie Grande	SeCan
Prairie Sapphire	Alliance Seed
Prairie Thunder	CANTERRA SEEDS
Taurus	FP Genetics
Vimy	SeCan
Westlin 70	Crop Production Services (CPS)
Westlin 71	Crop Production Services (CPS)

MUSTARD

Sinapis alba	
AC Base	Trade
Andante	Trade
Brassica juncea	
AC Vulcan	Trade
Amigo	Trade
Cutlass	Trade
Duchess	Crop Production Services (CPS)
Forge	Crop Production Services (CPS)

CONVENTIONAL SOYBEANS

OAC PRUDENCE	SeCan
DH404	Sevita International
DH863	Sevita International

NATTO SOYBEANS

AC QGC 12N	Quarry Seeds Ltd.
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ROUNDUP READY SOYBEANS

004R21	Delmar Commodities
23-10RY	DEKALB
23-60RY	DEKALB
24-10RY	DEKALB
24-61RY	DEKALB
25-10RY	DEKALB
900Y61	DuPont Pioneer
900Y71	DuPont Pioneer
Akras R2	Brett Young
Astro R2	Quarry Seeds Ltd.
Bishop R2	SeCan
Chadburn R2	SeCan
Currie R2	SeCan
Gray R2	SeCan
HS 006RYS24	Hyland Seeds
HS 007RY32	Hyland Seeds
LS 002R23	Delmar Commodities
LS 003R24N	Delmar Commodities

ROUNDUP READY SOYBEANS

LS 005R22	Delmar Commodities
LS 005R24	Delmar Commodities
LS 007R22	Delmar Commodities
McLeod R2	SeCan
Notus R2	Brett Young
NSC Anola RR2Y	North Star Genetics Manitoba
NSC Gladstone RR2Y	North Star Genetics Manitoba
NSC Libau RR2Y	North Star Genetics Manitoba
NSC Moosomin RR2Y	North Star Genetics Manitoba
NSC Niverville RR2Y	North Star Genetics Manitoba
NSC Reston RR2Y	North Star Genetics Manitoba
NSC Richer RR2Y	North Star Genetics Manitoba
NSC Sanford R2Y	North Star Genetics Manitoba
NSC Tilston RR2Y	North Star Genetics Manitoba
P001T34R	DuPont Pioneer
P002T04R	DuPont Pioneer
P008T22R2	DuPont Pioneer
P008T70R	DuPont Pioneer
Pekko R2	Brett Young
PRO 2525R2	Sevita International
PRO 2535R2	Sevita International
PS 0035 R2	PRIDE Seeds
PS 0074 R2	PRIDE Seeds
PS 0083 R2	PRIDE Seeds
S007-Y4	Syngenta Canada
S00-N6	Syngenta Canada
S00-T9	Syngenta Canada
Sampsa R2	Brett Young
TH 33003 R2Y	Quarry Seeds Ltd.
TH 33004R2Y	Quarry Seeds Ltd.
TH 33005R2Y	Quarry Seeds Ltd.
TH 34006R2Y	Quarry Seeds Ltd.
TH 35002R2Y	Quarry Seeds Ltd.
Vito R2	North Star Genetics Manitoba

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.....	1-877-439-7333
Cargill Ltd.	1-888-855-8558
CHS Sunflower	1-701-484-5313
DEKALB.....	1-800-667-4944
Delmar Commodities	1-888-974-7246
FP Genetics	1-877-791-1045
Hyland Seeds	1-800-265-7403
LA COOP FEDEREE.....	1-450-799-2326
North Star Genetics Manitoba	1-701-454-6427
DuPont Pioneer.....	1-800-265-9435
PRIDE Seeds.....	1-800-265-5280
Crop Production Service (CPS).....	1-306-569-5027
Quarry Seeds Ltd.....	1-888-274-9243
SeCan.....	1-800-665-7333
Nuseed Americas Inc	1-877-841-7447
Sevita International	1-613-989-5400
Syngenta Canada Inc.....	1-877-964-3682

Growers List



CANOLA

S=Select; F=Foundation; R=Registered; C=Certified; ☼ Indicates Plant Breeders' Rights protected. Other varieties may have PBR protection pending.

1918
Winnipeg; Canterra Seeds Ltd. 204-988-9750 C

AC EXCEL
Wawanesa; Ellis, Warren P. & Simon..... 204-824-2290 C

FLAX

AAC BRAVO ☼
Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S F R
Souris; Kohut, Anton..... 204-483-2004 R

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

LIGHTNING ☼
Somerset; Sierens, Joseph & Chris 204-744-2883 R

PRAIRIE SAPPHIRE ☼
Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 C
Winnipeg; Alliance Seed Corporation..... 204-272-2890 R

WESTLIN 70
Virde; Heaman, Douglas J., Walter, Robert, Kenneth,
Brett & Brittany 204-748-2666 C

SOYBEANS

S=Select; F=Foundation; R=Registered; C=Certified; ☼ Indicates Plant Breeders' Rights protected. Other varieties may have PBR protection pending.

004R21
Winkler; Delmar Commodity Ltd. (Mb Acct) C

23-10RY
Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C

24-10RY
Tillsonburg; Monsanto Canada Inc. (Mb Acct) 519-688-9888 C

900Y61 ☼
Chatham; Pioneer Hi-Bred Production L.P. (Soybeans - Mb) 800-265-0554 R
Grosse Isle; Rutherford, Rick 204-467-5613 S F R

AKRAS R2
St. Norbert; Brett-Young Seeds Limited..... 204-261-7932 S F

ASTRO R2
Morris; Dueck, Arthur 204-746-2026 R C
Stonewall; Quarry Grain Commodities Inc. 204-467-8877 C

BISHOP R2
Arborg; Timchishen, Donald Victor & Darcy 204 376-5116 S C

CHADBURN R2
Morris; Hamblin, Donald & Bradley 204 209-0506 C
Whittemouth; Klepatz, Wayne..... 204-348-2294 C



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- Destoners

- Bean/Pea Polishers

- Aspiration Machinery

Precision Air-Screen Seed Cleaners

VistaSort Color Sorters

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RR Varieties

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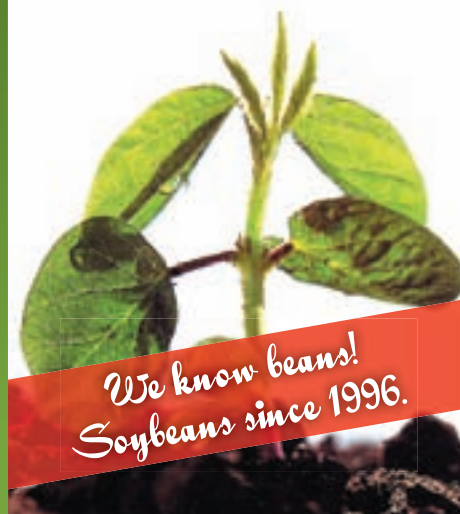


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