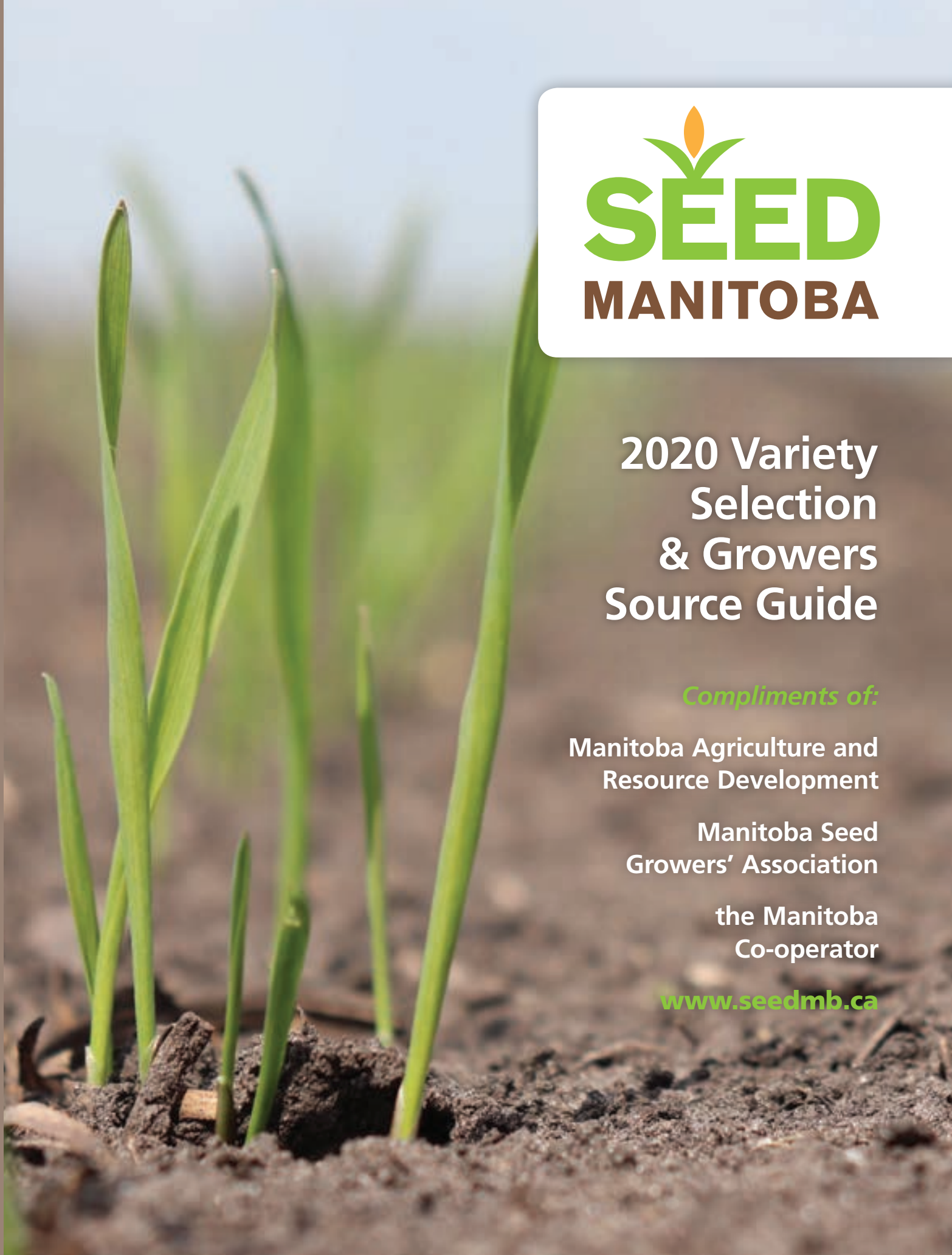

SEED MANITOBA

2020 Variety Selection & Growers Source Guide

Compliments of:

Manitoba Agriculture and Resource Development

Manitoba Seed Growers' Association

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The grower's list was prepared by CSGA and includes varieties eligible for sale in Canada and seed crops issued certificates as of November 6, 2019. CSGA, MSGA, MCVET assume no responsibility for errors or omissions. Data is provided for information purposes only. All users of the CSGA data use such data at their own risk. It is your right to ask for the official seed tags when purchasing seed as well as a copy of the mechanical purity and germination analysis tests. The pedigreed class code is listed after the growers' phone number. (S=Select; F=Foundation; R=Registered; and C=Certified.)

Crops are sorted alphabetically by town and grower (or company) name within variety within crop kind. '⊛' indicates the variety is protected by Plant Breeder's Rights, PBR'78 and 'Ⓤ' protected by PBR'91.

Cover photo by Kate Menold, Manitoba Wheat and Barley Growers Association

Manitoba Co-operator

Supplement to the Manitoba Co-operator November 28, 2019

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Minister's Message

Manitoba Agriculture and Resource Development is pleased to collaborate with the Manitoba Seed Growers Association and the Manitoba Cooperator to produce *Seed Manitoba* 2020. This guide continues to be a valuable tool to crop producers, helping them make decisions on seed varieties with information relevant to all growing regions within Manitoba.

Seed Manitoba is an important resource for spring seeding planning as it saves producers time and provides clear comparisons of seed variety performance and a list of where the seed can be found.

Primary agriculture is an important foundation to our economy. Crop producers play a key role in making agricultural products one of Manitoba's largest exports. Beyond export, crop production contributes to additional value and jobs through our province's $4.6 billion food processing industry and through the growing agriproducts industry.

This guide demonstrates the value of collaboration between efforts of producers, commodity groups, crop research contractors, Manitoba Crop Variety Evaluation Team and Manitoba Agriculture and Resource Development staff.

I wish much success in 2020 to all those involved in producing food.

Honourable Blaine Pedersen
Minister of Agriculture and Resource Development

President's Message

It is my pleasure, on behalf of the Manitoba Seed Growers' Association, to partner with Manitoba Agriculture and Resource Development, the MCVET team, the Manitoba Co-operator, Commodity groups and Industry, to provide Manitoba's producers with the 2020 edition of *Seed Manitoba*.

The MCVET team work closely with contractors and partners across the province to collect representative, third party, peer reviewed data for new varieties. This is provided inside this guide for producers to compare to their more familiar varieties when they are planning for the 2020 growing season.

This year, due to the hard work of our contractors and Manitoba Department of Agriculture and Resource Development staff, the data in this 2020 guide represents variety performance from a wide range of successful sites across the province, despite the growing season issues.

The Board of the Manitoba Seed Growers' appreciate the support from all the groups which come together collaboratively to contribute to this guide. We wish Manitoba's producers a successful 2020 growing season.

Andrew Ayre
President,
Manitoba Seed Growers' Association

THANK YOU TO MCVET SPONSORS AND SUPPORTERS IN 2019

MCVET gratefully recognizes the support and financial contribution of the following organizations:

- Manitoba Agriculture and Resource Development
- Manitoba Co-operator
- Manitoba Seed Growers' Association
- SeCan
- Manitoba Pulse & Soybean Growers
- Manitoba Wheat and Barley Growers Association
- CANTERRA SEEDS
- Winter Cereals Manitoba Inc.
- Alliance Seed

MCVET would also like to express its gratitude to:

Locally organized variety trials at Stonewall (SICTC), Portage la Prairie (CROP) and Beausejour (ASCIA).

Companies and individuals who performed seed quality analysis.

Bayer Crop Science for providing seed treatment.

SGS BioVision Seed Labs for conducting protein analysis on wheat and barley.

MCVET greatly appreciates the efforts of our site contractors:

- Ag-Quest Inc.
- Canada-Manitoba Crop Diversification Centres
- Crop Production Services
- DL Seeds Inc.
- ICMS Inc.
- James Richardson International Kelburn Farms
- Murphy et al. Inc.
- New Era Ag Technologies
- Solum Valley Biosciences
- Parkland Crop Diversification Foundation
- Prairies East Sustainable Agriculture Initiative
- Syngenta Canada Inc.
- University of Manitoba
- Westman Agricultural Diversification Organization

WELCOME TO SEED MANITOBA 2020

By Anastasia Kubinec
Seed Manitoba editor, Manitoba Agriculture and Resource Development

Welcome to *Seed Manitoba* 2020, the Variety Selection and Growers Source Guide for Manitoba producers. This guide is compliments of Manitoba Agriculture and Resource Development, Manitoba Seed Growers' Association and the Manitoba Co-operator and is a collaborative effort between industry, government and producers to provide third party variety performance information. Without the sponsors, supporters, site contractors and commodity groups that donate data, this publication would not be possible.

WHERE DOES THE DATA COME FROM?

Data is from small replicated plots, in trials grown across locations and years in Manitoba. The main data that is collected is yield and protein (wheat and barley only). Other agronomic information in the "Variety Description" tables is compiled from registration data submitted at the time the variety was registered. Information on some ratings, such as disease can change in the "Variety Description" table as commercial performance and reaction to disease races are better understood.

TESTING LOCATIONS AND SITE YEARS

Testing locations are chosen by the Manitoba Crop Variety Evaluation Team (MCVET) to represent the production area. For crops with Manitoba-wide adaptation, like Barley, Fall Rye, Oat, Spring and Winter Wheat, they are planted at all sites. Crops like Flax, Field Peas and lentils are only planted at locations where they are typically grown. Other crops like canola, corn, dry beans, soybeans and sunflowers are coordinated through their crop commodity associations and planted where they deem appropriate.

WHY IS THERE LESS DATA IN SEED MANITOBA 2020?

Small plot crop variety trials are at the mercy of Mother Nature, just like other crop production in Manitoba. With the unusually wet and white weather in September/October 2019, not all trails were harvested in time to be published in *Seed Manitoba* 2020. Luckily, all the data collected after the publication deadline is available at http://www.seedmb.ca/web-exclusives/

How *Seed Manitoba* 2020 and www.seedmb.ca can help your variety selection choices:

- It provides individual variety performance by location for yield to give 'local' performance as compared to the overall summary based on many years.
- It provides multiple year and location data comparisons. The on-line Variety Selection Tool at www.seedmb.ca can help you compare how the new variety does versus your tried/true variety.
- On-line resources — the paper publication and on-line information at www.seedmb.ca work together to provide producers, seed growers and seed retailers more insight into variety performance for appropriate variety selection for your location and your grain marketing purposes.

If you have any questions or concerns about the information in *Seed Manitoba*, please contact me at anastasia.kubinec@gov.mb.ca ■

PHOTO: KATE MENOLD, MANITOBA WHEAT AND BARLEY GROWERS ASSOCIATION

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SOYBEAN CYST NEMATODE IS IN MANITOBA — WHAT CAN YOU DO?

By Manitoba Agriculture and Resource Development

In 2019, four fields, one in each of the Rural Municipalities of Emerson-Franklin, Montcalm, Rhineland, and Norfolk-Treherne were confirmed to have Soybean Cyst Nematode. This confirmation was through Dr. Mario Tenuta, University of Manitoba. He and his students have been sampling commercial fields since 2012, looking for this pest in Manitoba soybeans.

WHAT IS SOYBEAN CYST NEMATODE?

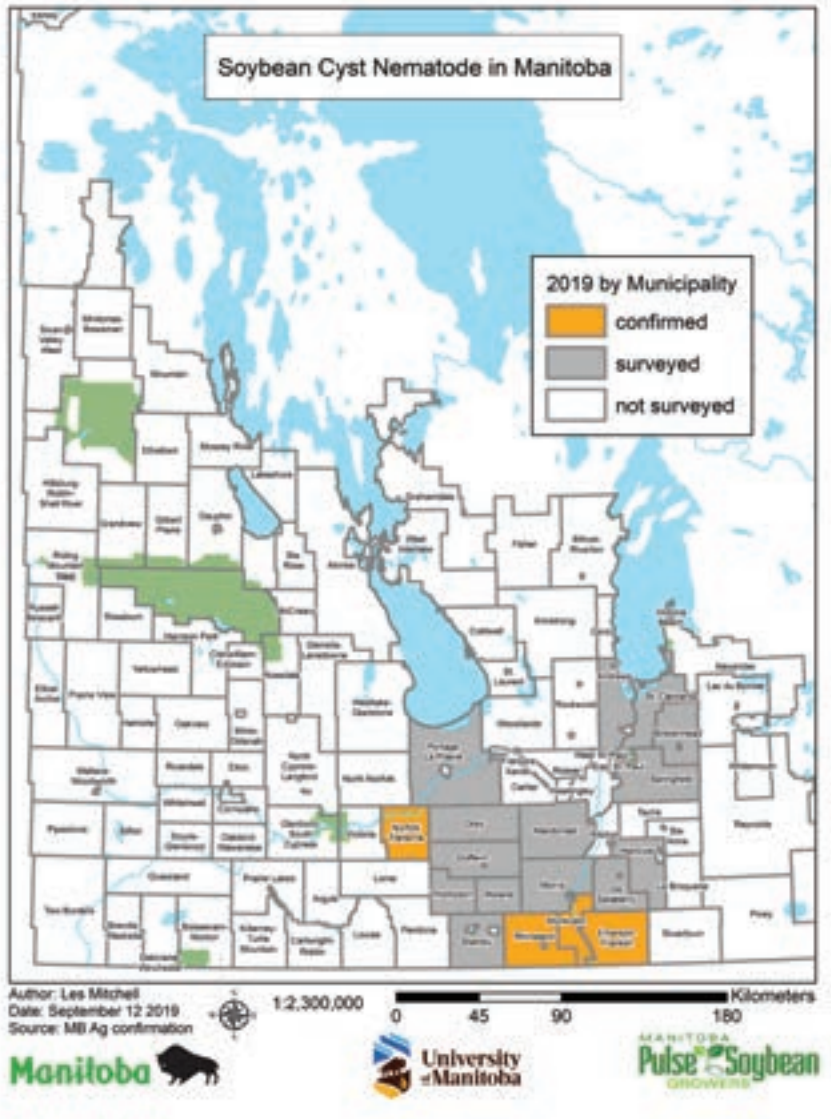
Soybean cyst nematode (Heterodera glycines) is a nematode — it feeds on soybean roots, causing yellowed leaves, stunted plants and yield loss. In the 2019 Manitoba confirmed fields, it was identified, but no economical damage was not observed.

WHAT TO LOOK FOR?

Soybean Cyst Nematode cysts on roots are tiny (<1 mm dia.) and just visible to the naked eye — so early detection seldom occurs and is not identified until pest levels are high enough to cause aboveground symptoms on soybeans. Above ground symptoms are yellowing leaves and stunted plants, typically in patches.

SCN has spread steadily throughout North America with soil movement on plant material, tillage equipment, vehicles and by wind or water movement. The arrival in Manitoba was expected, but spread and establishment can be reduced by preventing soil movement between fields.

Continued on next page »



Growers are also encouraged to use resistant varieties in Rural Municipalities with positive cases — see page 56 in Soybean tables for SCN Resistance information.

Continued from previous page

HOW TO REDUCE INFESTATION ON YOUR SOYBEANS

Reducing soil movement between fields and crop rotation are both tools to reduce establishment. Soybean growers should consider rotating with non-host crops for 2 to 3 years, which includes soybeans, edible beans and field peas. Growers are also encouraged to use resistant varieties in Rural Municipalities with positive cases — see page 56 in Soybean tables for SCN Resistance information.

This research is conducted by Ph.D. student, Nazanin Ghavami of the University of Manitoba and is a collaborative effort between the University, the Manitoba Pulse and Soybean Growers, and Manitoba Agriculture and Resource Development. This research is funded by the Manitoba Pulse and Soybean Growers, Manitoba Agriculture and Resource Development, and the Western Grains Research Foundation. Albert Tenuta of the Ontario Ministry of Agriculture, Food and Rural Affairs is a project collaborator.

Above ground symptoms of Soybean Cyst Nematode are yellowing leaves and stunted plants, typically in patches. PHOTO: ALBERT TENUTA

WATERHEMP IS NOW AN ISSUE IN MANITOBA

The inflorescence is a good way to differentiate amaranth species: redroot pigweed (left) and Powell amaranth (middle), male waterhemp (right).
PHOTOS: T.JONES, MANITOBA AGRICULTURE AND RESOURCE DEVELOPMENT

By Tammy Jones
Weed Specialist, Manitoba Agriculture and Resource Development

Pigweed has always been an issue in Manitoba bean production (edibles and soys). With Group 2 herbicide resistant redroot pigweed, that 'easy weed' has become harder to control, but we are also finding more species. The pigweed species that caught many by surprise in 2019, even though the threat was imminent: Waterhemp.

Waterhemp was confirmed in 4 new municipalities in Manitoba this summer. While plants have been sited in Manitoba in previous years, the severity of the infestations in 2019 were a significant concern, infesting a substantial number of acres.

WHY IS WATERHEMP AN ISSUE?

Yield Loss: Waterhemp will emerge throughout the growing season (April – August), typically after most other summer annual weeds have been sprayed. It will flourish when there is sunshine, as is often the case in row crops. Season-long competition by waterhemp (more than 20 plants/ft2) has been shown to reduce soybean yield by 44%. Waterhemp that emerged as late as the V5 stage in soybeans can reduce yields up to 10%.

Like most weeds, waterhemp seeds remain viable in the soil for several years.

Prolific Seed Producer: generally produces about 250,000 seeds/plant, although individual plants can produce more than 1 million seeds under optimal conditions. Like most weeds, waterhemp seeds remain viable in the soil for several years.

Multiple Mode of Action Herbicide Resistance: In the US, waterhemp has evolved resistance to at least seven herbicide classes, including Group 2, 4, 5, 9, 14, 15 & 27. Many populations exhibit multiple herbicide resistances that include several herbicide families. For example, Group 2 and 9 (e.g., ALS

inhibitors and glyphosate, respectively) resistance in waterhemp is fairly common. Waterhemp populations detected in Manitoba are suspected to be resistant to glyphosate, along with one or two other herbicide classes.

Tier 1 Weed Under The Noxious Weed Act: Tall Waterhemp is designated as a Tier 1 weed under Manitoba's Noxious Weed Act, meaning that the weed needs to be eradicated where it is found, as required by current Government of Manitoba legislation. This is the responsibility of whomever owns the land it has been found on. Waterhemp infestations identified in Manitoba in 2019 required significant hours of rogueing, mowing and spraying to destroy plant material. After the in-season control, it means years of monitoring and surveillance to ensure waterhemp has been eliminated.

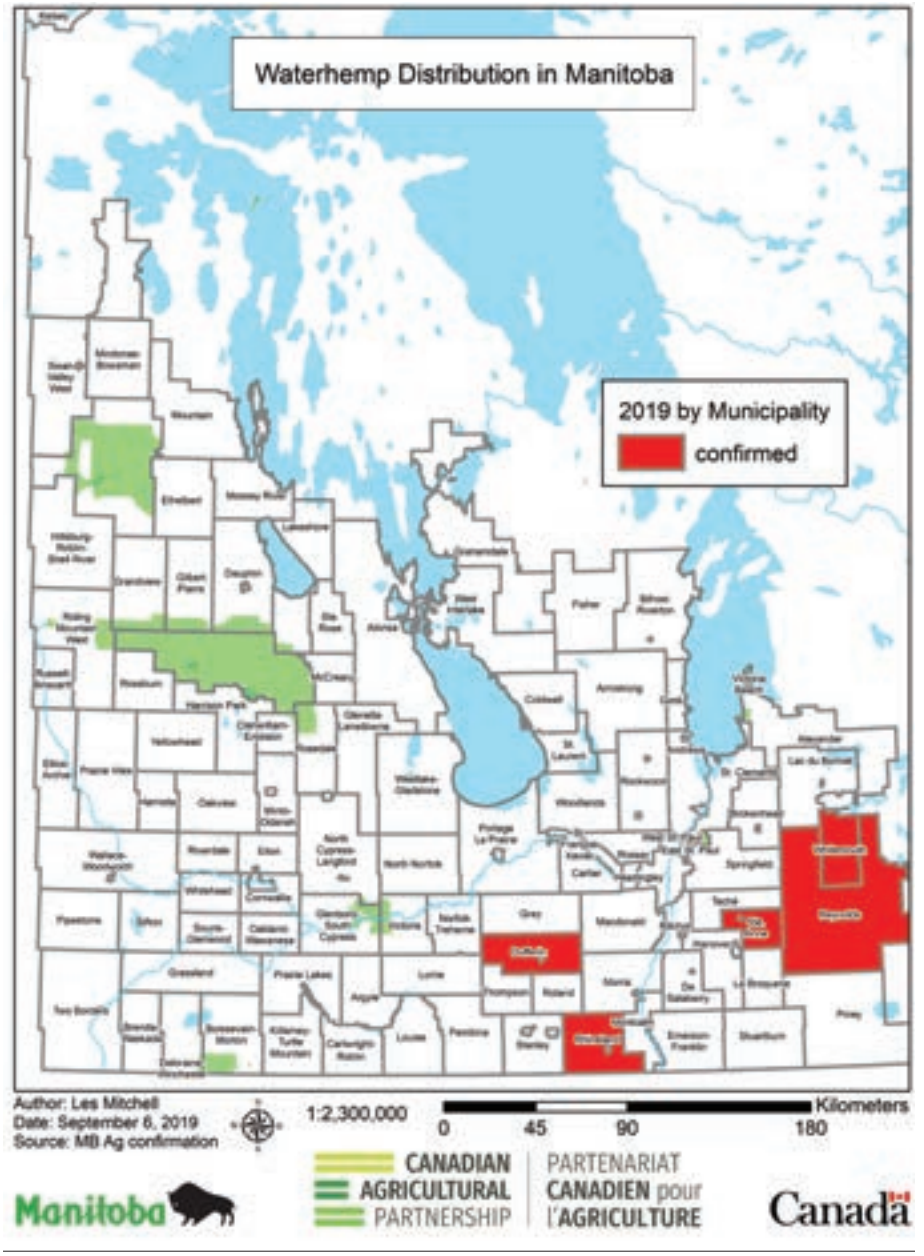
IDENTIFICATION

- oval to lance or spearhead shaped leaves, 3-6 inches long
- alternate leaf arrangement
- petiole is shorter than the length of the leaf blade
- hairless stem (vs. redroot pigweed having a hairy stem)
- typically grows 4-5 ft tall but can grow to more than 10 ft tall
- dioecious – meaning there are distinct male and female plants
- many small green flowers form an inflorescence in July-September
- the terminal inflorescence can be more than 1 ft long, with many wiry lateral branches

MANAGEMENT

With germination throughout the summer when there is sufficient sunlight, it is unlikely that one herbicide application will be effective for row crop situations. It is important to note that there are extremely limited post-emergent control options in edible beans and a few more options for soybeans as we see new herbicide tolerant traits commercialized. Even with these options, weed control must be done when the weeds are small, less than 10 cm or 4 inches. "Rescue treatments" of herbicides on waterhemp result in poor control, at best.

Crop canopy closure is key to reducing the germination and competition from waterhemp. That can be accomplished in a number of ways:

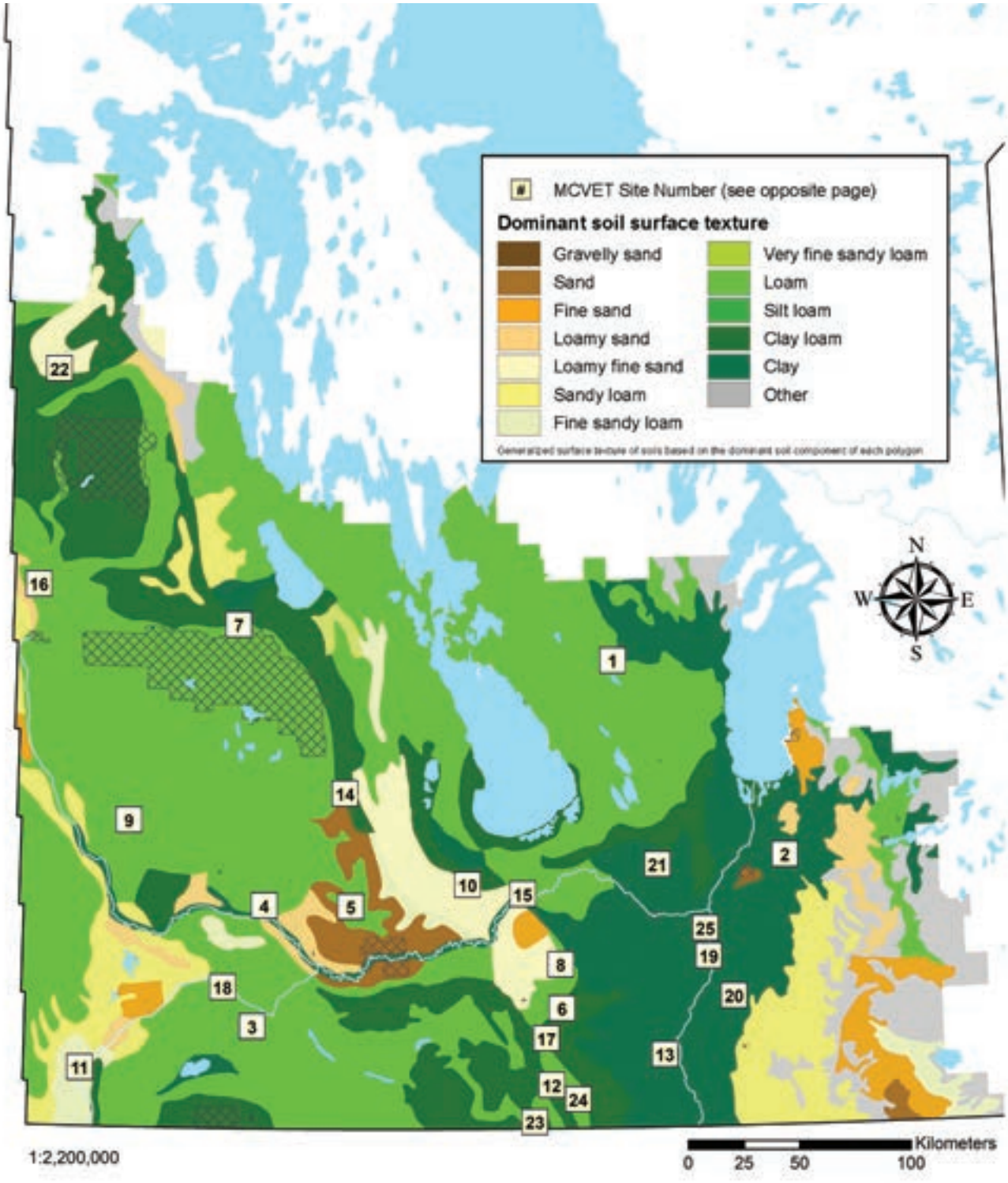


- Use of soil residual herbicides
- Narrow row spacings
- Inter-row cultivation
- Cover crops
- Increased seeding rates

These strategies, in addition to crop rotation, machinery sanitation to prevent seed spread and destruction of escaped weed patches will slow the spread of this significant weed. If a field becomes infested with waterhemp, Ontario counterparts estimate that weed control costs will increase by $45 to $60/acre. This is why eradication of waterhemp is the ultimate goal. ■

Hairs on stems help to identify redroot pigweed seedlings (bottom) from waterhemp (top).

2019 LOCATIONS OF VARIETY EVALUATION TRIALS



	Site Location	Contractor(s)	Soil Texture	Internal Soil Drainage	Precipitation[1]		Growing Degree Days[1]		Weather Station Used
					Actual (mm)	% of Normal	Actual	% of Normal	
1	**Arborg**	PESAI	clay	imperfect	263	81%	1506	103%	Arborg
2	**Beausejour**	PESAI	clay loam	imperfect	374	108%	1515	94%	Beausejour
3	**Boissevain**	Ag-Quest Inc.	loamy	imperfect	472	139%	1492	94%	Minto
4	**Brandon**	Agriculture & Agri-Food Canada	clay loam	well	406	129%	1525	100%	Brandon
5	**Carberry**	CMCDC	clay loam	well	457	145%	1511	99%	Carberry (EC)
6	**Carman**	University of Manitoba, Ag-Quest Inc.	loam	imperfect	355	109%	1653	99%	Carman
7	**Dauphin**	Ag-Quest Inc.	silty clay loam	imperfect	274	80%	1494	100%	Dauphin
8	**Elm Creek**	Ag-Quest Inc.	coarse loam	imperfect	354	108%	1670	100%	Elm Creek
9	**Hamiota**	Ag-Quest Inc.	clay loam	well	338	121%	1399	92%	Hamiota
10	**MacGregor**	Ag-Quest Inc.	coarse loam	imperfect	346	106%	1705	101%	Portage la Prairie
11	**Melita**	WADO	loamy	imperfect	413	142%	1604	96%	Melita
12	**Morden**	Agriculture & Agri-Food Canada	clay loam	well	391	118%	1721	97%	Morden
13	**Morris**	Ag-Quest Inc.	heavy clay	imperfect	430	133%	1658	98%	Morris
14	**Neepawa**	Syngenta	clay loam	well	339	100%	1449	91%	Mountainside
15	**Portage la Prairie**	CROP/ICMS Agriculture & Agri-Food Canada	sandy loam	imperfect	346	106%	1705	101%	Portage la Prairie
16	**Roblin**	PCDF	loamy	well	254	74%	1329	92%	Roblin
17	**Rosebank**	Crop Production Services	loam	imperfect	391	118%	1721	97%	Morden
18	**Souris**	Syngenta	clay loam	imperfect	473	150%	1516	100%	Souris
19	**St. Adolphe**	Murphy et al. Inc. Richardson / Kelburn Farms	heavy clay	imperfect	406	119%	1665	100%	St. Adolphe
20	**St. Pierre**	Ag-Quest Inc.	heavy clay	imperfect	182	152%	1642	101%	St. Pierre
21	**Stonewall**	Solum Valley Biosciences Inc.	clay loam	imperfect	336	102%	1597	98%	Stonewall
22	**Swan River**	New Era Ag Technologies	clay loam	imperfect	228	67%	1370	93%	Swan River
23	**Thornhill**	Ag Quest/ DL Seeds	loamy	well	396	119%	1444	81%	Windy Gates
24	**Winkler**	Agriculture & Agri-Food Canada	sandy loam	well	374	113%	1739	98%	Winkler
25	**Winnipeg**	University of Manitoba	silty clay	imperfect	360	105%	1648	99%	Winnipeg

[1] Weather data is reported from May 1st to October 1st and reflects the percentage of the normal accumulations as calculated using the long-term average for the past 30 years.

Seeding and harvest dates for individual trials can be found at the bottom of the Yield Comparisons Tables located in the respective Crop Sections.

As per MCVET, MCC, NSAC and MPSG protocol's, all sites are fertilized at levels to achieve maximum crop performance. Weed control is applied as required to achieve a relatively weed free area. Insecticides are applied as required, while fungicides are not applied to any trials.

Any questions related to the sites found in Seed Manitoba 2020 can be directed to the individuals listed below:

For Canola please contact Dane Froese at (204) 750-2840 or e-mail dane.froese@gov.mb.ca

For Grain Corn, please contact Daryl Rex at (204) 745-6776 or e-mail daryl.rex@canadasunflower.com

For Soybean and Dry Bean, please contact Dennis Lange at (204) 324-4383 or e-mail dennis.lange@gov.mb.ca

For all remaining crop types, please contact Chami Amarasinghe at (204) 823-2584 or e-mail chami.amarasinghe@gov.mb.ca

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Cereal Crops

Variety Description Key

The grey box at the bottom of each table displays the Grand Mean for both Yield (bu/acre) and Protein (%) and the corresponding LSD (Least Significant difference) value ($p < 0.05$). Varieties must differ by the LSD value ($p < 0.05$) to be considered significantly different from one another.

Except for the long term average yield and protein data, variety description information was obtained from the variety 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.

Long term yield data is from MCVET plots harvested from 2000 to 2019, while protein is from 2002 to 2019. Actual protein will depend on seasonal growing conditions and fertility levels.

"Resistance Level" Disease ratings: R = Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible; " - " = not available

"Resistance Level" Lodging and Sprouting ratings: VG = Very Good; G = Good; F = Fair, P = Poor; VP = Very Poor; " – " = not available.

Site Years Tested is the cumulative number of locations over the years that a variety has been tested. The more site years the more dependable the data.

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 2019 Yield and Protein Tables

Yields derived over two or more growing seasons are the best indicator of variety performance. 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 (bu/acre) = Least Significant Difference. Varieties must differ by the LSD value ($p < 0.05$) to be considered significantly different from one another.

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

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BARLEY

New for 2020

Variety	Type	Code	Breeder	Distributor	Seed Availability
AAC Goldman	Malting - 2 row	TR10214	AAFC - Brandon		
AB Advantage	Feed - 6 row	SR16511	Field Crop Development Centre, Alberta Agriculture & Forestry	SeCan	
CDC Churchill	Malting - 2 row	TR15155	Crop Development Centre	SeCan	

Comments:

Malting barley varieties are classified into two groups. The ***"Malting: Acceptance - Recommended"*** group are varieties with recommended market acceptance as listed in the Canadian Malt Barley Technical Centre (CMBTC) publication "2019/20 Recommended Malting Barley Varieties" on page 21. The category of "Malting: Other" includes varieties not currently recommended by the CMBTC but markets may exist.

The two-row malting varieties **CDC Goldstar**, **CDC PolarStar** and **CDC PlatinumStar** are available through closed loop, identity preserved programs.

The hulless variety **CDC Clear** is a malting type.

It is strongly recommended for producers to use a combination of the Canadian Food Inspection Agency's **List of Registered Varieties** (www.inspection.gc.ca) and the Canadian Grain Commission's **Variety Designation Lists** (www.grainscanada.gc.ca) to determine the registration and grade eligibility status of varieties.

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"We believe Conlon barley is still the variety you can depend on to consistently deliver low enough DON to feed hogs & it's your plumpest rolling barley! For best results choose Certified Seed."

Walter Smith

		Walter Smith	204-825-2000		
Avondale Seed Farm	204-877-3813	HB Agri-Seed Ltd.	204-523-7464	Rutherford Farms	204-467-5613
Boissevain Select Seeds	204-534-6846	James Farms	204-222-8785	R-Way Ag	866-398-9643
Catellier Seed Service	204-347-5588	Jeffries Seed Service	204-827-2102	Seine River Seed Farm	204-355-4495
Clearview Acres	204-748-2666	Manness Seeds	204-736-2622	Sierens Seed Service	204-744-2883
Court Seeds	204-386-2354	MB Seeds	204-746-4652	Swan Valley Seeds	204-734-2526
Durand Seeds	204-248-2268	Miller Agritec	204-267-2363	Triple "S" Seed	204-546-2590
Ellis Farm Supplies	204-824-2290	Nickel Bros	204-773-6734	Westman Aerial Spray	204-763-8998
Ens Quality Seed	204-325-4658	Pitura Seed Service	204-736-2849	Wheat City Seeds	204-727-3337
Friesen Seeds	204-746-8325	Pugh Seeds	204-274-2179	Wilson Seeds Ltd.	204-246-2119
Gagnon Seed Service	204-447-2118	Redsper Enterprises	204-328-5346	Zeghers Seed Farm	204-526-2145

BARLEY *(continued)*

Variety Descriptions

Category / Variety[1]	Site Years Tested	Yield (bu/acre)	Protein %	Maturity +/- 88 days	Height +/- 89 cm	Test Wt +/- 48.7 lb/bu	Rough or Smooth Awns	Resistance Level: Lodging	Loose Smut	Surface -borne Smut	Root Rot	Netted Net Blotch	Spotted Net Blotch	Spot Blotch	Stem[2] Rust	Fusarium[3] Head Blight
Malting: Acceptance - Recommended																
AAC Connect (2)	35	104	12.5	0	-3	-0.5	R	G	S	R	MS	I	MR	MR	MR	MR
AAC Synergy (2)	32	112	12.2	0	-3	-0.4	R	G	S	I	I	MR	R	R	MR	I
AC Metcalfe (2)	205	97	12.9	0	0	0	R	F	R	I	I	S	I	I	MR	I
CDC Bow (2)	44	105	12.1	1	3	0.5	R	G	S	I	MS	S	MR	I	MR	MS
CDC Copeland (2)	51	97	12.5	0	5	-0.5	R	F	MS	I	I	I	I	S	MR	I
Malting: Other																
CDC Churchill (2)	19	109	12.2	1	-5	-0.2	R	G	MS	MR	—	MR	MR	I	MR	MS
CDC Copper (2)	19	105	12.3	1	-5	-0.7	R	G	I	MR	MR	MR	MR	I	I	MS
CDC Fraser (2)	32	108	12.1	1	0	-0.7	R	G	R	MR	MS	MR	MR	MR	MR	I
AAC Goldman (2)	50	105	12.7	1	3	-0.4	R	G	MS	I	S	I	R	I	I	MR
CDC Goldstar (2)	14	104	12.4	0	0	0	R	G	I	R	S	I	MR	I	I	MS
CDC Kindersley (2)	34	103	12.7	-1	-3	0	R	G	S	R	I	MS	MR	I	MR	I
CDC Meredith (2)	42	103	12.5	2	-3	-2.1	R	F	R	MR	I	MS	R	MS	MR	I
CDC PlatinumStar (2)	18	99	12.2	0	3	-0.5	R	F	S	R	S	I	MR	S	I	MR
CDC PolarStar (2)	20	98	12.8	-1	0	-0.6	R	F	S	R	MS	S	MR	MS	S	MR
Bentley (2)	41	103	12.4	0	5	-0.8	R	G	MS	MR	MR	MS	R	I	MR	MS
Celebration (6W)	35	104	13.4	-1	5	0	S	G	R	R	MS	S	MR	MR	I	MS
Lacey (6W)	41	104	—	1	5	-0.7	S	G	I	MR	MR	S	I	MR	MR	S
LEGACY (6W)	36	105	—	-2	8	0	S	F	I	MR	MR	S	MR	MR	MR	MS
Lowe (2)	35	102	12.3	2	5	-0.4	R	G	R	R	I	I	MR	I	S	MR
Major (2)	35	108	12.6	0	-3	-0.7	R	G	R	MR	MS	I	MR	MR	MR	I
Newdale (2)	61	108	12.7	0	-3	-0.5	R	F	S	MR	MR	I	MR	I	MR	I
Sirish	48	101	12.3	1	-13	-0.3	—	VG	S	R	—	MS	MS	MS	S	MS
Stellar-ND (6W)	32	100	12.8	-2	5	0	R	G	MR	R	MS	S	I	MR	I	I
Tradition (6W)	59	105	13.0	2	10	0.8	S	F	S	MR	MR	S	I	MR	MR	S
Food and Feed																
AB Advantage (6)	18	109	12.9	1	15	0	S	VG	MR	I	—	MS	I	I	I	S
AB Cattlelac (6)	19	106	12.7	1	11	1.3	SS	VG	I	R	—	MS	MR	MR	I	S
AC Ranger (6F)	38	109	—	1	-8	0.1	S	G	MS	I	MR	I	MR	MR	MR	S
Altorado	32	111	12.3	0	-5	0.7	R	G	MR	MR	MR	S	I	S	MR	I
Amisk (6)	30	115	12.7	1	0	-2.3	SS	VG	S	MS	MS	I	MR	MR	MR	S
Brahma (2)	36	108	12.4	0	-5	0.5	R	G	MS	R	MR	S	I	S	MR	I
Breton (6F)	30	105	12.4	0	-5	0.8	S	G	MS	MR	I	I	MR	MR	MR	S
Canmore (2)	32	108	12.5	1	0	0.7	R	G	R	R	I	MS	MR	I	MS	I
CDC Austenson (2)	43	114	12.2	1	0	0.5	R	G	S	R	I	MS	R	MR	I	I
CDC Coalition (2)	39	104	12.5	1	5	0.8	R	VG	R	MR	I	S	MR	I	MR	I
CDC Cowboy (2F)	50	96	13.2	1	15	1.3	R	F	MS	MR	I	I	MR	I	MR	MR
CDC Maverick (2F)	29	96	13.5	1	10	5.4	S	F	S	R	I	I	MR	I	MR	MR
CDC YORKTON (6W)	12	111	—	0	13	-3	S	G	MS	MR	MR	I	MR	MR	MR	S
Champion (2)	44	111	12.3	0	0	0.8	R	G	S	R	MR	S	I	MS	I	I
Claymore (2)	44	116	12.1	0	0	-0.2	R	G	S	R	I	S	I	I	MR	I
CONLON (2)	88	94	12.9	-1	-3	0.8	S	G	I	I	I	I	MR	S	MR	MR
Desperado (6F)	44	106	12.7	1	5	2.5	S	G	MS	R	MR	S	MR	MR	MR	S
Gadsby (2)	29	100	13.0	0	8	0.1	R	F	R	R	I	MS	MR	S	MR	I
Muskwa (6)	31	105	12.7	0	-13	1.3	S	G	MS	R	MS	MS	MR	I	MR	S
Oreana (2)	44	110	11.9	2	-13	0.2	R	VG	S	R	I	S	MR	I	I	S
Sundre (6)	5	93	12.6	—		—	S	G	MS	R	MS	MS	I	I	I	S
Hulless																
CDC Ascent (2)	35	90	13.9	2	-3	8	R	G	MR	MR	I	S	MR	I	I	MR
CDC Carter (2)	35	92	13.3	1	0	8	R	F	R	R	S	I	MR	I	I	MR
CDC Clear (2)	29	97	12.6	2	5	9	R	F	R	R	I	MS	R	I	MR	MR
Varieties supported for registration by the PRCOB																
Malting: Other																
TR16629 (2)	6	106	12.9	3	5	0	R	G	MS	MR	—	MS	I	MS	MR	MR
Food and Feed																
SR17515 (6)	6	107	12.2	1	5	1	S	VG	—	MR	—	MS	I	I	R	S
SR17519 (6)	6	102	12.9	1	3	0.5	S	VG	—	R	—	MR	I	I	R	MS
TR17639 (2)	6	106	12.5	0	1	-0.2	R	G	MS	MR	—	I	I	MR	R	MR
GRAND MEAN		106	12.6													
LSD (0.05)		5	0.3													

1 Values in brackets indicate row and type: 2 = two-row; 6 = six-row; W = white aleurone (all others yellow); F = fodder.

2 Reactions given for old races of stem rust. All cultivars are susceptible to new race QCCJ. However, to date this has not caused widespread damage. Early seeding will generally reduce the likelihood of severe infection.

3 Fusarium head blight (FHB) infection is highly influenced by environment and heading date. Under high levels of the disease all varieties will sustain damage. Hulless barley typically has reduced levels of DON when compared to regular barley with similar levels of disease.

RANCONA® TRIO. THREE POWERFUL FUNGICIDES. ONE AMAZING SEED TREATMENT.

RANCONA® TRIO seed treatment for cereals takes disease protection and improved crop emergence to new levels. By combining three powerful fungicides that provide both contact and systemic activity, with the superior coverage and adhesion of RANCONA advanced flowable technology, you have a seed treatment that delivers more consistent protection under a wider range of conditions. Because when more seed treatment stays on the seed, you get more out of your seed treatment. To learn more, talk to your UPL representative or visit **ranconatrio.ca**.

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Rancona® Trio
seed treatment

BARLEY *(continued)*

Yield Comparisons

Variety	2019 Yield (bu/acre)												
	Arborg	Beausejour	Boissevain	Brandon	Dauphin	Hamiota	Melita	Neepawa	Roblin	Rosebank	Souris	St. Adolphe	Thornhill
Malting													
AC Metcalfe (2)	116	101	112	71	151	114	114	114	105	113	89	79	115
CDC Copper (2)Ω	133	111	119	79	155	117	107	115	104	122	112	89	125
CDC Churchill (2)Ω	125	117	126	83	150	126	119	121	115	130	115	81	130
SirishΩ	128	99	120	76	147	119	91	113	101	119	105	83	111
Food and Feed													
AB Advantage (6)Ω	125	102	113	74	157	124	123	120	126	137	112	—	132
AB Cattlelac (6)Ω	127	106	128	79	155	114	119	114	114	132	111	77	131
Varieties supported for registration by the PRCOB													
Malting													
TR16629 (2)	133	—	120	—	158	115	—	—	—	—	—	86	121
Food and Feed													
SR17515 (6)	143	—	119	—	165	117	—	—	—	—	—	73	131
SR17519 (6)	122	—	118	—	150	118	—	—	—	—	—	77	122
TR17639 (2)	130	—	126	—	156	123	—	—	—	—	—	79	128
SITE GRAND MEAN (bu/acre)	128	106	121	77	154	119	112	116	111	126	108	82	124
CV %	5.9	7.5	4.3	5.4	5.5	2.6	5.6	8.9	5.1	4.4	5.9	6.4	3.5
LSD (bu/acre)	12.8	14.5	8.9	7.6	14.5	5.3	11.5	18.9	10.3	10.3	11.7	8.9	7.4
Sign Diff	Yes	No	Yes	No	No	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Seeding Date	13-May	09-May	22-May	23-May	02-May	06-May	01-May	10-May	15-May	04-May	18-May	01-May	10-May
Harvest Date	19-Aug	21-Aug	30-Aug	30-Aug	09-Sep	30-Aug	16-Aug	20-Aug	19-Aug	07-Aug	17-Sep	23-Aug	30-Aug

Protein Comparisons

Variety	2019 Protein (%)												
	Arborg	Beausejour	Boissevain	Brandon	Dauphin	Hamiota	Melita	Neepawa	Roblin	Rosebank	Souris	St. Adolphe	Thornhill
Malting													
AC Metcalfe (2)	13.5	11.7	11.5	10.7	11.7	12.9	14.3	13.2	10.7	12.3	10.5	14.1	13.5
CDC Churchill (2)Ω	12.0	10.9	11.0	9.2	10.7	11.8	13.6	12.8	10.1	11.4	11.2	13.1	13.7
CDC Copper (2)Ω	12.2	11.7	11.0	10.3	11.2	12.4	13.9	12.8	9.8	11.5	10.4	12.4	13.5
SirishΩ	12.8	12.0	11.5	10.0	11.4	11.5	14.0	13.1	9.8	11.0	10.8	13.1	13.3
Food and Feed													
AB Advantage (6)Ω	12.8	13.1	12.8	11.5	11.5	11.3	13.6	13.2	9.9	11.5	12.6	—	13.6
AB Cattlelac (6)Ω	12.7	12.6	10.1	10.4	11.7	12.5	14.1	13.4	10.2	11.3	11.4	13.9	13.8
Varieties supported for registration by the PRCOB													
Malting													
TR16629 (2)	13.2	—	11.5	—	11.2	12.9	—	—	—	—	—	13.5	14.5
Food and Feed													
SR17515 (6)	12.0	—	10.9	—	10.1	11.1	—	—	—	—	—	13.4	13.8
SR17519 (6)	13.3	—	11.4	—	11.7	12.1	—	—	—	—	—	14.1	14.3
TR17639 (2)	12.7	—	10.9	—	11.3	12.3	—	—	—	—	—	12.8	13.7
SITE GRAND MEAN (%)	12.7	12.0	11.3	10.4	11.3	12.3	13.9	13.1	10.1	11.5	11.2	13.2	13.6

CMBTC™ CANADIAN MALTING BARLEY TECHNICAL CENTRE

2020-2021 RECOMMENDED MALTING BARLEY VARIETIES

The Canadian Malting Barley Technical Centre (CMBTC) recommended list is designed to provide producers with an indication of which malting barley varieties have the greatest potential for selection and marketing. Each variety on the recommended list has been pilot scale tested at the CMBTC and all exhibit good malting and brewing characteristics. All varieties on the list are registered with the Canadian Food Inspection Agency (CFIA).

RECOMMENDED VARIETIES

VARIETY	TYPE	MARKET COMMENTS	SEED DISTRIBUTOR
CDC Copeland	2 Row	Established Demand	SeCan
AC Metcalfe	2 Row	Established Demand*	SeCan
AAC Synergy	2 Row	Growing Demand	Syngenta
AAC Connect	2 Row	Growing Demand	CANTERRA SEEDS
CDC Bow	2 Row	Growing Demand	SeCan

* The North American malting and brewing industry is reducing its use of AC Metcalfe as they transition to newer varieties.

- There are marketing opportunities for **Newdale** (FP Genetics) and **Bentley** (CANTERRA SEEDS) in certain regions. Contact Canada Malting in Calgary for contracting opportunities.
- **CDC PlatinumStar** (CANTERRA SEEDS) is a closed-loop variety. Contact Prairie Malt in Biggar for contracting opportunities.
- Demand for six-row malting barley is limited. Contact Viterra in Regina for **Legacy** (FP Genetics) contracting opportunities. Contact Malteurop in Winnipeg for **Tradition** (FP Genetics) and **Celebration** (CANTERRA SEEDS) contracting opportunities.
- In Eastern Canada, **AC Metcalfe**, **Newdale** and **AAC Synergy** have had the greatest success in selection in recent years.

VARIETIES IN DEVELOPMENT

VARIETY	TYPE	SEED DISTRIBUTOR
CDC Fraser	2 Row	SeCan
Lowe	2 Row	SeCan
CDC Copper	2 Row	FP Genetics
CDC Churchill	2 Row	SeCan

- These newly registered varieties are undergoing seed propagation and commercial market development. Contact the seed distributor for opportunities to trial these promising new varieties.

The CMBTC and its members recommend:

- Talk with your grain company representative, local elevator operators, malting companies, or the representative seed company about opportunities in your area to grow and market two-row and six-row malting barley varieties.
- Use certified seed to ensure varietal purity, reduce disease incidence and increase the likelihood of selection for malt.

cmbtc.com

Canada

For inquiries please contact the CMBTC by email at cmbtc@cmbtc.com or call 204-984-4399

@MaltAcademy @Malt.Academy

OATS

New for 2020

Variety	Code	Breeder	Distributor	Seed Availability
CDC Endure	OT 3087	Crop Development Center	Alliance Seed	2021
CDC Skye	OT 3097	Crop Development Center	SeCan	

Comments:

There have been recent changes within the crown rust pathogen populations in Manitoba that has seen virulence developed on a number of oat varieties. Varieties that contain the Pc91 gene, including **AAC Justice**, **CDC Morrison**, **HiFi**, **Souris** and **Stainless**, have been redefined for crown rust resistance.

The variety **Summit**, which is postulated to carry different resistance genes, is also losing its resistance to virulent races in the Eastern Prairies; therefore, it has been redefined for crown rust resistance.

The varieties listed under the heading "**Varieties being tested for adaptability in Western Canada**" are lines which were supported for registration in Eastern Canada. Their performance is being evaluated to determine adaptability and resistance ratings to various agronomic and disease characteristics.

Producers are encouraged to check the "Preferred" or "Approved" lists available at most mills if they are selecting varieties for the milling market. These lists are updated as new genetics become available.

HiFi and **CDC Morrison** are exceptionally high in beta-glucan fibre and are available for contract identity preserved production.

The variety **AAC Kongsore** was selected for performance under organic growing conditions.

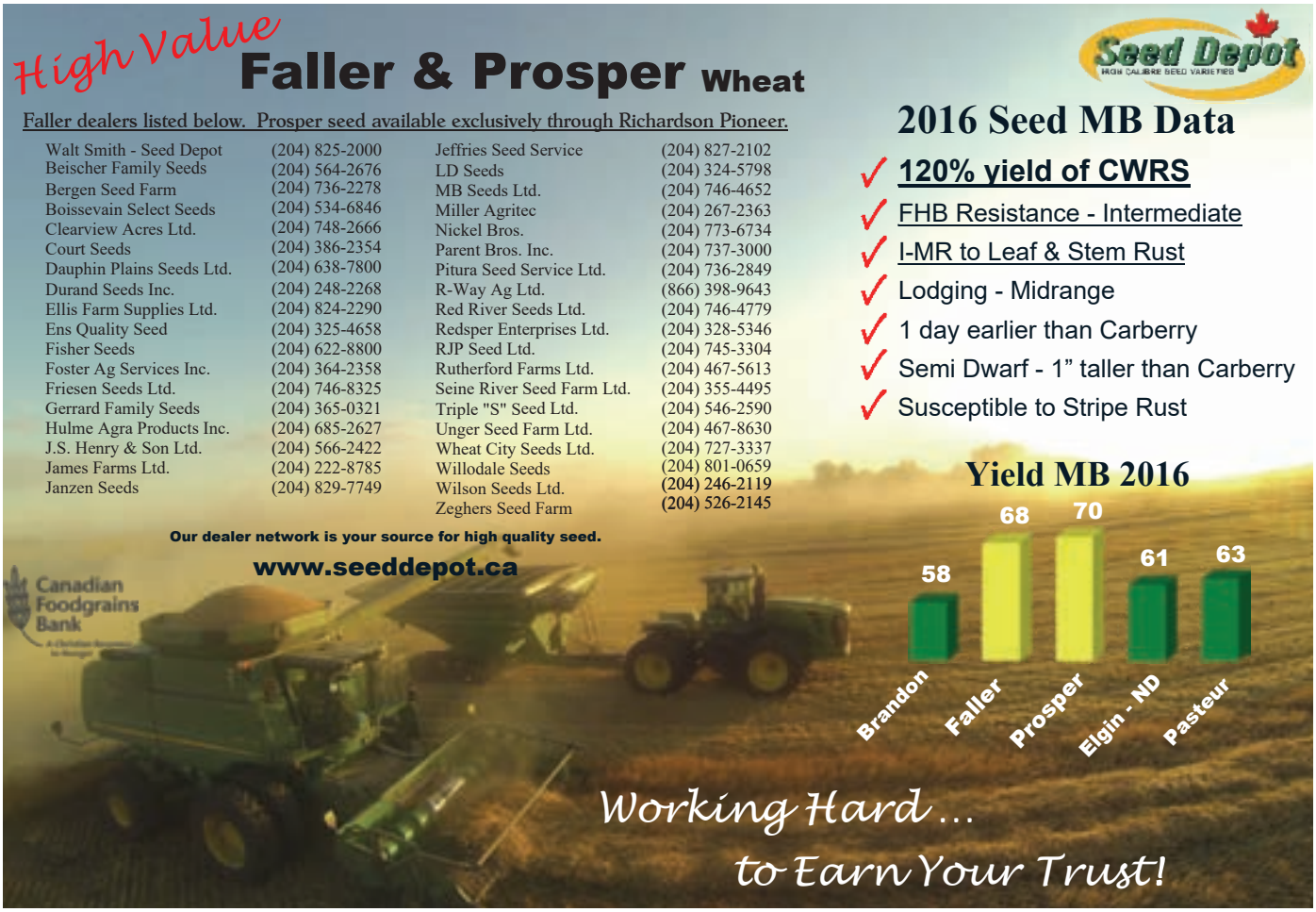
Variety Descriptions

Variety[1]	Site Years Tested	Yield bu/acre	Maturity +/- 96 days	Height +/- 84 cm	Test Wt +/- 39.3 lb/bu	Hull %	Hull Colour	Resistance to: Lodging	Smut	Crown Rust	Stem[2] Rust	BYD[3]
AAC Justice	37	154	0	5	0.5	22.8	White	G	R	I	I	I
AAC Kongsore	4	145	1	20	1.0	24.5	White/Light Grey	G	R	MS	I	R
AC Morgan	36	144	-1	15	-1.0	25.2	White	G	I	S	S	MS
CDC Arborg	25	155	-2	19	0.2	20.5	White	VG	R	I	S	S
CDC Big Brown	42	142	-1	3	0	20.4	Tan	G	R	R	MS	MS
CDC Dancer	40	137	-3	13	0.5	19.6	White	G	R	I	I	MS
CDC Endure	14	157	-1	13	-1.1	20.9	White	VG	R	MR	S	I
CDC Haymaker (F)	37	125	2	25	-1.0	22.0	White	G	MR	S	S	—
CDC Minstrel	46	146	0	8	-0.2	22.3	White	VG	R	MS	I	MS
CDC Morrison	13	134	-2	-3	-1.0	24.4	White	VG	R	MS	I	I
CDC Norseman	31	149	-3	5	-1.0	20.5	White	G	MS	MR	S	I
CDC Ruffian	39	150	0	0	-0.8	20.5	White	G	R	I	S	S
CDC Skye	6	138	-2	11	0.5	19.6	White	G	R	R	S	—
CS Camden	34	157	2	0	-1.5	21.1	White	VG	I	MS	S	S
Furlong	72	136	-1	20	0.5	20.3	Tan	G	R	S	I	MR
HiFi	62	144	-3	15	0	24.7	White	G	MS	I	I	MR
Jordan	52	146	2	8	-2.0	23.6	White	VG	R	I	I	MR
Leggett	144	142	0	0	0	23.0	White	G	R	R	I	MS
ORe3541M	25	141	-2	-2	0.6	23.3	White	VG	R	R	S	MS
ORe3542M	25	143	-1	-2	-1.1	24.4	White	VG	R	R	S	S
Pinnacle	50	153	3	10	-1.2	23.7	White	G	R	S	I	MS
Ronald	45	135	0	3	0	22.1	White	VG	R	S	I	MR
Souris	60	141	-4	0	0.5	20.9	White	G	R	MS	MR	MS
Stride	39	141	-2	13	0.6	23.7	White	VG	R	R	I	I
Summit	62	148	0	-3	0.5	20.8	White	G	R	I	I	I
Triactor	43	160	-1	8	-1.5	22.1	White	VG	I	MR	S	MS
Varieties being tested for adaptability in Western Canada												
Akina	41	155	-4	0	0.8	25.6	White	G	R	R	—	—
Bradley	30	140	2	8	—	21.7	White	G	R	MS	MS	MS
Kara	41	154	-3	-3	1.6	26.3	White	G	MR	MR	—	—
Kyron	14	153	-3	3	0.9	26.6	White	G	—	—	—	—
Varieties supported for registration												
CFA1502	14	157	1	1	1.0	28.0	White	G	—	MR	—	MR
OT2122	6	155	-2	11	-1.0	25.9	—	G	R	I	I	I
GRAND MEAN (bu/acre)		146										
LSD (bu/acre) (0.05)		8										

1 The letter 'F' indicates a forage type.
2 All varieties are susceptible to new stem rust races NA67 and NA76 and these races caused moderate damage to crops in the Red River Valley in 2001 and 2002. Early seeding will generally reduce the likelihood of severe infection.
3 BYD = Barley Yellow Dwarf - a viral disease carried and spread by aphids - early seeding will generally reduce the likelihood of severe infection.

Yield Comparisons

Variety	2019 Yield (bu/acre)									
	Arborg	Beausejour	Boissevain	Brandon	Dauphin	Hamiota	Melita	St. Adolphe	Stonewall	Thornhill
CDC Arborg	135	124	172	186	152	157	140	163	123	151
CDC Endure	112	130	195	202	174	172	151	150	127	171
CDC Minstrel	97		198		180	169		141		157
CDC Skye	91		178		159	170		132		135
ORe3541M	96	108	193	182	144	157	125	132	107	155
ORe3542M	94	111	192	171	154	150	117	154	109	156
Summit	109	114	190	202	166	152	143	133	111	165
Varieties being tested for adaptability in Western Canada										
Akina	108	130	184	207	163	166	159	143	110	171
Kara	134	126	198	196	171	161	155	146	112	164
Varieties supported for registration & being tested for adaptability in Western Canada										
CFA1502	135	134	208	214	159	170	142	139	120	166
OT2122	127		181		173	142		148		188
SITE GRAND MEAN (bu/acre)	113	122	190	195	163	161	141	144	115	161
CV %	6.2	5.6	4.5	3.9	3.6	3.3	5.2	6.9	3.3	5.8
LSD (bu/acre)	11.8	11.9	14.6	13	10	9	13	17	6.7	16
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	13-May	09-May	16-May	13-May	02-May	06-May	01-May	01-May	09-May	10-May
Harvest Date	30-Aug	21-Aug	05-Sep	29-Aug	09-Sep	30-Aug	20-Aug	22-Aug	22-Aug	30-Aug



SPRING WHEAT

New for 2020

Variety	Class	Code	Breeder	Distributor	Seed Availability
AAC Broadacres	CWRS	BW5028	AAFC - Swift Current	Proven Seed	
AAC Russell	CWRS	PT252	AAFC - Swift Current	FP Genetics/Nutrien	
CDC Ortona	CWRS	PT596	Crop Development Centre	Nutrien/Proven Seed	2020
Accelerate	CPS	HY2077	Limagrain Cereals Research Canada	CANTERRA SEEDS	2021
Bolles	CWRS	2015-10	University of Minnesota	Seed Depot	
Daybreak	CWRS	BW5056	Limagrain Cereals Research Canada	CANTERRA SEEDS	
Ellerslie	CWRS	PT784	University of Alberta	SeCan	
RedNet	CWRS	PT783	University of Alberta	SeedNet	
SY Gabbro	CWRS	BW1041	Syngenta	Syngenta	
SY Torach	CWRS	PT650	Syngenta	Alliance Seed	2020
Tracker	CWRS	PT785	University of Alberta	CANTERRA SEEDS	2021

Comments:

Midge tolerant varieties are designated by the letters 'VB', which stands for Varietal Blend. The varieties contain the Sm1 gene for tolerance. To manage against the build-up of midge resistance to the gene, an interspersed refuge is used commercially. More information on midge tolerant wheat varieties and interspersed refuge can be found at www.midgetolerantwheat.ca.

The varieties **CDC Hughes VB**, **CDC Landmark VB** and **CDC Adamant VB** have partial solid stems, **AAC Concord** has a solid stem, both of which can provide protection against the wheat stem sawfly.

The variety **AAC Tradition** was selected for performance under organic growing conditions.

Most varieties have been rated for their relative resistance to pre-harvest sprouting. Under wet post-maturity conditions varieties rated poor (P) would have reduced ability to retain Hagberg Falling Number values relative to those rated good (G) or very good (VG).

Producers are strongly encouraged to use the Canadian Grain Commision's **Variety Designation Lists** (www.grainscanada.gc.ca) that indicate the varieties belonging to each class of wheat in Canada, and the complete list of varieties being designated to another class effective August 1, 2019 and August 1, 2021.

For complete and up-to-date information on the **Canadian Wheat Class Modernization** initiative, visit CGC's website at http://www.grainscanada.gc.ca/consultations/classes-en.htm.

It is also recommended for producers to use the Canadian Food Inspection Agency's **List of Registered Varieties** (www.inspection.gc.ca) to determine registration status of varieties.

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SPRING WHEAT *(continued)*

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awned	Resistance Level: Lodging	Sprouting	Loose Smut	Common Bunt	Leaf[1] Spots	Stem Rust	Leaf Rust	Stripe Rust	Fusarium[2] Head Blight
Canada Western Red Spring															
5604HR CL	40	66	14.5	-1	10	Y	G	G	MS	I	MS	R	R	—	I
5605HR CL	32	67	14.7	1	10	Y	VG	F	R	MR	MS	MS	R	MR	MR
AAC Alida VB	33	68	14.6	2	6	Y	VG	VG	R	I	MS	R	R	MR	MR
AAC Bailey	28	55	14.9	-1	13	N	G	G	MS	MR	I	R	R	—	I
AAC Brandon	61	70	14.3	2	0	Y	VG	P	MR	S	I	R	R	MR	MR
AAC Broadacres	7	71	14.1	3	2	Y	VG	—	—	MR	—	R	R	MR	I
AAC Cameron VB	34	74	13.9	1	13	Y	G	F	S	R	I	MR	MR	S	I
AAC Connery	32	61	15.0	1	3	N	VG	G	MR	I	I	R	MR	R	MR
AAC Elie	45	68	14.3	2	-3	Y	VG	F	I	I	I	R	R	MR	I
AAC Jatharia VB	33	73	14.3	1	13	Y	G	G	S	MS	I	I	R	I	I
AAC LeRoy VB	20	71	14.3	0	7	Y	G	G	—	I	MS	MR	MR	MR	MR
AAC Magnet	20	69	14.3	0	8	Y	G	G	—	S	MS	R	R	I	MR
AAC Prevail VB	44	67	14.2	1	18	N	G	G	S	S	MS	MR	R	R	I
AAC Redberry	32	69	14.4	0	8	Y	G	G	R	I	MS	R	R	R	I
AAC Redwater	43	65	14.5	-2	8	Y	G	VG	MS	I	MS	R	R	MR	I
AAC Russell	7	70	14.3	2	4	Y	VG	—	—	MR	—	MR	R	R	MR
AAC Starbuck VB	20	73	14.4	1	1	Y	G	—	MR	S	S	I	MR	MR	MR
AAC Tisdale	32	68	15.2	1	8	Y	G	F	MR	MR	MS	R	R	S	MR
AAC Viewfield	52	71	14.4	3	-5	Y	VG	G	S	MR	I	R	MR	R	I
AAC W1876	32	62	15.1	3	3	Y	VG	F	I	I	MS	MR	R	I	I
AAC Warman VB	33	68	14.4	0	12	Y	G		MR	S	I	R	R	MS	MR
AAC Wheatland VB	20	74	14.3	1	0	Y	VG	—	R	MR	S	R	R	I	I
AC Domain	2	66	15.2	-2	10	N	VG	VG	R	I	S	R	I	MR	MS
Bolles	7	66	15.1	—	-1	Y	VG		—	S	—	MR	R	MR	I
Carberry	124	67	14.6	2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR
Cardale	30	68	14.5	2	3	Y	VG	G	I	MR	MS	R	R	S	MR
CDC Adamant VB	32	67	14.4	0	8	Y	F	F	S	S	MS	R	I	MS	I
CDC Bradwell	33	67	14.4	3	5	Y	VG	F	MR	R	MS	MR	R	MS	I
CDC Go	24	66	14.2	-1	8	Y	G	P	MS	I	S	R	I	MR	MS
CDC Hughes VB	33	68	14.6	1	3	Y	VG	VG	MR	MS	I	R	MR	I	I
CDC Landmark VB	40	68	14.5	0	3	Y	VG	G	MR	MS	I	R	MS	MR	I
CDC Ortona	7	68	14.5	-1	5	Y	VG	—	—	S	—	R	R	R	I
CDC Plentiful	42	65	14.6	-3	8	N	VG	P	R	I	I	R	R	MR	MR
CDC Stanley	34	67	14.5	0	10	N	G	G	MR	S	I	R	MR	I	MS
CDC Titanium VB	32	65	15.0	2	13	Y	G	P	MS	I	MS	I	R	R	MR
CDC Utmost VB	38	68	14.5	-1	10	N	G	G	MS	S	I	MR	R	I	MS
CDC VR Morris	42	68	14.6	0	13	N	G	P	I	I	I	MR	R	—	MR
Daybreak	7	71	14.2	2	4	Y	VG	—	—	S	—	R	MR	MR	I
Ellerslie	7	63	14.5	0	5	Y	VG	—	—	S	—	R	MR	R	I
Fieldstar VB	43	68	14.5	0	15	Y	F	VG	I	I	I	MR	R	MS	I
Glenn	174	67	14.4	2	8	Y	VG	F	I	I	I	R	R	MR	I
Goodeve VB	53	66	14.7	-2	10	N	VG	G	MR	S	MS	MR	MR	I	S
Infinity	25	64	15.0	-2	13	N	G	G	MR	MR	MS	MR	MR	MS	S
Muchmore	40	67	14.2	2	-3	Y	VG	G	MR	R	MS	R	R	MR	MS
Parata	20	67	14.7	-2	13	Y	G	—	MR	S	I	R	MR	MR	I
RedNet	7	66	14.6	3	16	Y	G	—	—	S	—	R	R	R	MR
Shaw VB	40	68	14.2	0	18	N	G	G	S	MR	MS	R	MR	I	MS
SY433	38	61	14.6	2	15	Y	G	VG	I	S	I	R	R	—	MR
SY479 VB	46	62	15.2	1	13	Y	VG	VG	MS	R	MS	I	R	S	I
SY Chert VB	26	68	14.0	-1	7	Y	G	—	R	R	MS	R	R	R	I
SY Gabbro	20	71	14.7	2	7	Y	VG	—	R	I	MS	MR	R	I	MR
SY Obsidian	26	68	14.2	1	3	Y	VG	—	R	MS	I	MR	R	MR	MS
SY Slate	32	69	14.9	1	10	Y	G	P	MS	S	MS	MR	R	MR	I
SY Sovite	32	63	14.4	1	8	Y	G	F	R	MS	MR	MR	R	R	MR
SY Torach	20	68	14.7	2	3	Y	VG	—	R	MS	MS	MR	R	MS	MR
Thorsby	30	63	14.9	-2	13	N	VG	F	I	S	MS	MR	R	R	I
Tracker	7	65	14.9	-2	4	Y	G	—	—	S	—	R	R	R	I
Vesper VB	40	70	14.4	0	10	Y	F	F	I	S	I	MR	R	S	I
Waskada	43	67	14.6	1	18	Y	F	VG	MR	R	MS	R	I	MS	MR

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awned	Resistance Level: Lodging	Sprouting	Loose Smut	Common Bunt	Leaf[1] Spots	Stem Rust	Leaf Rust	Stripe Rust	Fusarium[2] Head Blight
Canada Prairie Spring Red															
AAC Crossfield	34	74	13.5	2	0	Y	G	—	I	S	I	MR	R	R	I
AAC Crusader	16	74	13.4	0	-3	Y	G	VP	MR	I	MS	R	R	MR	I
AAC Entice	35	73	13.5	2	1	Y	G	—	MS	S	MS	R	R	R	I
AAC Foray VB	31	77	13.1	1	5	Y	VG	P	MS	I	MS	MR	R	I	I
AAC Goodwin	33	74	14.1	2	0	Y	VG	G	MS	I	I	I	R	R	I
AAC Penhold	44	74	13.8	1	-10	Y	VG	VG	I	R	I	MR	R	MR	MR
AAC Ryley	30	71	13.0	1	3	Y	G	G	I	R	MS	R	R	S	MS
AAC Tenacious VB	45	64	13.1	1	20	Y	F	G	R	MR	MS	MR	R	R	R
Accelerate	7	76	13.3	2	-2	Y	VG	—	—	S	—	R	R	R	I
CDC Terrain	33	70	13.4	0	10	Y	VG	G	MR	MR	I	MR	R	R	MS
Enchant VB	29	73	13.3	1	8	Y	G	VG	MR	R	MS	MR	R	S	S
SY Rowyn	34	74	13.5	1	-5	Y	VG	F	I	S	I	R	R	MR	MR
Canada Northern Hard Red															
AAC Concord	33	67	14.5	2	15	Y	G	F	I	MR	I	R	R	R	MS
AAC Tradition	33	66	14.2	4	5	Y	G	VG	MS	MR	I	R	MR	S	I
Elgin ND	41	77	14.0	2	10	Y	G	F	—	S	I	I	R	MR	I
Faller	47	82	12.9	1	3	Y	G	F	—	I	MS	I	MR	MS	I
Harvest	22	65	14.2	-1	8	N	VG	VG	MR	S	MS	R	MR	MR	S
KANE	92	66	14.4	1	8	Y	G	VG	MS	I	I	R	R	MR	I
Prosper	44	82	12.9	1	3	Y	G	F	—	I	I	MR	MR	S	I
Unity VB	53	70	14.2	0	13	Y	F	VG	MS	R	I	MR	R	MS	I
Canada Western Special Purpose															
AAC Awesome VB	33	88	11.4	4	10	Y	G	P	I	I	I	R	MR	R	I
AAC Innova	42	78	11.6	4	5	Y	F	VP	S	S	I	MR	R	R	S
AAC NRG097	31	73	12.4	5	3	y	VG	F	I	R	I	MR	R	S	I
AAC Proclaim	30	73	12.5	3	10	Y	F	G	MR	S	I	MR	R	MS	MR
Alderon	20	78	11.9	9	-5	—	VG	F	—	MS	I	MR	R	MR	—
CDC Throttle	19	81	12.5	2	5	Y	VG	P	MR	I	S	MR	MR	I	I
Charing VB	20	79	12.5	9	0	—	VG	G	—	—	MR	—	MR	R	—
Pasteur	39	78	12.9	7	5	N	VG	G	MS	S	I	MR	R	MR	I
Sparrow VB	20	81	12.5	8	0	—	VG	G	—	I	I	MR	R	MR	—
WFT603	32	75	12.4	5	10	Y	G	F	I	R	I	I	I	MR	MR
Canada Western Hard White Spring															
AAC Cirrus	13	68	14.7	1	3	Y	VG	F	R	I	I	MR	R	R	I
AAC Iceberg	42	62	13.9	0	3	Y	G	P	MS	MR	MS	R	R	I	I
AAC Whitefox	32	66	13.8	-2	8	N	G	F	MS	MS	MS	MR	MR	MS	I
CDC Whitewood	32	58	14.1	0	3	Y	VG	G	S	S	MS	MR	MR	I	I
Snowstar	37	67	13.4	-1	3	N	VG	G	MS	S	MS	R	MR	MS	MS
Whitehawk	33	60	13.7	-2	13	N	VG	G	I	MS	MS	I	R	MS	MS
Canada Western Soft White Spring															
AAC Chiffon	44	84	11.4	4	10	Y	F	VP	S	S	—	S	I	MR	S
AAC Indus VB	33	79	10.9	6	5	Y	VG	P	S	MS	MS	S	I	R	MS
AAC Paramount VB	34	83	11.4	4	8	Y	VG	P	MR	S	—	I	I	R	MS
AC Andrew	30	77	10.9	4	3	Y	VG	P	S	S	—	MR	MS	I	I
Sadash VB	35	76	10.7	4	8	Y	VG	P	I	S	—	MR	I	R	S
Canada Western Extra Strong															
Burnside	15	65	14.3	-1	18	N	G	G	R	I	MS	R	R	R	S
CDN Bison	38	70	13.7	1	8	Y	G	F	R	I	I	R	MR	—	I
Glencross VB	41	66	14.1	0	20	N	G	F	R	I	MS	R	MR	MR	S
Varieties supported for registration by the PRCWRT															
BW1064	7	68	14.3	2	11	Y	G	—	—	R	—	MR	R	S	I
BW5031	7	68	14.0	2	2	Y	VG	—	—	S	—	MR	MR	I	MS
CS11200104-11	7	70	14.3	3	-1	Y	VG	—	—	R	—	R	R	R	I
CS11200214-17	7	71	14.0	3	8	Y	VG	—	—	MS	—	R	R	R	MR
GP184	14	73	12.6	4	0	Y	G	—	—	R	MR	MR	R	I	I
GP205	7	78	12.1	4	3	Y	VG	—	—	I	—	R	MR	R	I
GP214	7	77	11.8	7	1	N	VG	—	—	I	—	R	R	R	I
HY2068	7	75	12.9	3	2	Y	VG	—	—	MS	—	R	R	S	I
PT 488	7	66	14.5	0	6	Y	VG	—	—	MR	—	R	MR	MR	MR
PT598	7	69	14.2	1	-4	Y	VG	—	—	MR	—	MR	R	MS	I
PT599	7	70	14.6	2	4	Y	VG	—	—	I	—	MR	R	MR	MR
PT652	7	69	14.8	1	9	Y	VG	—	—	MR	—	MR	R	I	I
GRAND MEAN		74	13.9												
LSD (bu/acre and %) (0.05)		4	0.4												

1 Leaf Spots rating is a combination of resistance to tan spot, spot blotch and septoria leaf disease complex.
2 Fusarium head blight (FHB) infection is highly influenced by genetics, environment and heading date. Under high levels of disease pressure, all varieties will experience yield and/or quality loss.

SPRING WHEAT *(continued)*

Yield Comparisons

Class/Variety	2019 Yield (bu/acre)												
	Arborg	Beausejour	Boissevain	Brandon	Dauphin	Hamiota	Melita	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill
Canada Western Red Spring													
AAC Alida VB	71	60	80	93	92	77	62	73	77	87	48	54	78
AAC Broadacres	72	—	88	—	93	84	—	—	—	—	53	—	83
AAC LeRoy VB	72	60	83	94	91	80	68	81	81	89	51	52	81
AAC Magnet	84	64	82	96	92	77	60	78	72	88	50	57	74
AAC Russell	64	—	85	—	91	85	—	—	—	—	50	—	80
AAC Starbuck VB	76	60	80	96	96	81	62	87	81	92	55	56	87
AAC Viewfield	76	—	72	—	96	78	—	—	—	—	49	—	89
AAC Warman VB	66	65	77	90	84	79	61	78	80	85	51	53	77
AAC Wheatland VB	82	64	92	100	94	79	67	85	80	91	49	63	81
Bolles	72	—	76	—	87	78	—	—	—	—	38	—	77
Carberry	65	60	68	85	91	79	61	72	75	75	50	52	74
CDC Landmark VB	69	—	85	—	86	80	—	—	—	—	49	—	76
CDC Ortona	79	—	71	—	90	70	—	—	—	—	53	—	79
Daybreak	78	—	74	—	93	88	—	—	—	—	55	—	79
Ellerslie	68	—	69	—	82	68	—	—	—	—	53	—	68
Parata	82	58	81	90	84	66	60	80	74	77	49	55	77
RedNet	70	—	74	—	89	72	—	—	—	—	54	—	75
SY Chert VB	72	65	82	89	87	78	70	79	78	82	51	50	69
SY Gabbro	74	67	72	86	91	79	64	78	81	83	54	55	86
SY Obsidian	78	63	77	87	94	79	63	83	78	90	58	57	75
SY Torach	79	62	75	84	94	76	62	79	77	85	50	53	79
Tracker	76	—	65	—	85	60	—	—	—	—	57	—	69
Canada Prairie Spring Red													
AAC Crossfield	76	68	81	94	99	86	70	85	84	96	54	54	86
AAC Entice	75	67	82	100	99	74	64	83	81	94	55	50	82
Accelerate	75	—	82	—	99	78	—	—	—	—	58	—	83
Canada Western Hard White Spring													
AAC Cirrus	63	—	75	—	86	74	—	—	—	—	50	—	86
Canada Western Soft White Spring													
AAC Paramount VB	92	74	100	104	113	72	72	96	81	93	61	63	84
Varieties supported for registration by the PRCWRT													
BW1064	70	—	86	—	91	73	—	—	—	—	53	—	84
BW5031	67	—	70	—	88	74	—	—	—	—	48	—	80
CS11200104-11	80	—	70	—	95	79	—	—	—	—	53	—	83
CS11200214-17	76	—	83	—	97	80	—	—	—	—	59	—	87
GP214	79	—	90	—	114	82	—	—	—	—	46	—	87
HY2068	86	—	83	—	103	79	—	—	—	—	60	—	89
PT488	71	—	72	—	87	70	—	—	—	—	53	—	74
PT598	82	—	72	—	91	66	—	—	—	—	54	—	84
PT599	82	—	78	—	93	76	—	—	—	—	56	—	78
PT652	71	—	82	—	90	78	—	—	—	—	55	—	74
SITE GRAND MEAN (bu/acre)	75	64	79	93	93	77	65	81	79	87	53	55	80
CV%	7.3	4.4	5.8	3.5	2.8	3.5	4.5	5.0	4.2	4.8	4.6	5.5	4.4
LSD (bu/acre)	8.8	4.7	7.5	5.5	4.2	4.4	4.9	6.9	5.6	6.9	3.9	5.0	5.7
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	13-May	09-May	22-May	14-May	02-May	06-May	30-Apr	10-May	04-May	18-May	01-May	09-May	10-May
Harvest Date	21-Aug	21-Aug	07-Sep	04-Sep	09-Sep	08-Sep	14-Aug	20-Aug	07-Aug	17-Sep	19-Aug	06-Sep	30-Aug

Protein Comparisons

Class/Variety	2019 Protein (%)												
	Arborg	Beausejour	Boissevain	Brandon	Dauphin	Hamiota	Melita	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill
Canada Western Red Spring													
AAC Alida VB	15.5	15.7	14.3	13.1	12.1	13.1	15.3	15.9	12.1	13.8	15.7	17.1	16.2
AAC Broadacres	16.1	—	12.9	—	11.7	12.3	—	—	—	—	15.3	—	15.8
AAC LeRoy VB	15.5	15.0	14.2	12.5	11.3	12.7	14.8	16.7	11.9	13.2	15.8	16.1	15.7
AAC Magnet	14.3	14.3	14.5	12.8	12.2	13.5	14.9	15.7	12.6	14.4	16.1	16.6	16.0
AAC Russell	15.6	—	14.0	—	11.9	13.1	—	—	—	—	16.0	—	15.6
AAC Starbuck VB	15.0	15.4	14.4	12.9	12.1	12.2	14.9	16.1	12.2	14.0	15.6	16.3	15.3
AAC Viewfield	15.0	—	15.0	—	11.3	13.1	—	—	—	—	16.1	16.7	15.3
AAC Warman VB	15.8	14.7	14.3	12.8	12.3	13.3	15.0	15.1	12.2	13.5	16.4	—	15.7
AAC Wheatland VB	15.2	14.6	14.5	12.5	11.6	13.1	15.2	16.0	12.0	12.6	16.7	16.0	14.9
Bolles	16.9	—	15.3	—	12.1	12.9	—	—	—	—	17.2	—	17.2
Carberry	15.8	14.5	15.0	13.3	12.0	13.0	14.7	15.6	12.6	14.3	16.6	16.5	15.7
CDC Landmark VB	15.9	—	14.0	—	12.3	12.9	—	—	—	—	16.5	—	15.8
CDC Ortona	15.0	—	15.3	—	12.0	14.4	—	—	—	—	15.3	—	15.4
Daybreak	14.9	—	14.6	—	11.7	12.7	—	—	—	—	16.0	—	15.8
Ellerslie	15.6	—	15.0	—	12.3	13.9	—	—	—	—	14.8	—	15.8
Parata	15.0	14.7	14.7	12.7	11.7	13.8	15.5	16.2	12.7	13.3	16.6	16.9	16.7
RedNet	16.3	—	14.7	—	11.9	13.4	—	—	—	—	16.0	—	15.6
SY Chert VB	15.0	14.5	13.6	12.3	11.9	12.8	15.0	15.3	13.1	12.7	15.6	16.0	15.2
SY Gabbro	15.0	15.5	14.4	13.6	12.0	13.7	15.8	15.8	12.3	14.6	15.8	—	16.1
SY Obsidian	14.7	14.9	14.2	12.6	12.2	13.7	15.3	15.6	11.5	13.5	15.6	16.3	15.5
SY Torach	15.0	15.1	14.5	13.2	11.8	13.1	15.4	15.4	12.0	13.6	16.1	16.2	15.8
Tracker	15.5	—	15.4	—	12.3	14.9	—	—	—	—	15.4	—	15.9
Canada Prairie Spring Red													
AAC Crossfield	15.1	14.2	13.4	12.4	12.2	12.1	14.1	15.2	11.3	12.1	15.9	15.8	14.5
AAC Entice	15.1	14.2	13.5	11.7	11.0	12.7	15.1	14.3	12.2	12.2	14.6	16.1	13.7
Accelerate	14.4	—	13.1	—	10.7	12.8	—	—	—	—	15.2	—	13.8
Canada Western Hard White Spring													
AAC Cirrus	16.0	—	13.9	—	11.8	14.0	—	—	—	—	16.4	—	15.7
Canada Western Soft White Spring													
AAC Paramount VB	11.4	11.5	10.4	9.0	9.2	11.9	12.8	11.7	10.4	10.4	12.9	12.9	11.6
Varieties supported for registration by the PRCWRT													
BW1064	14.8	—	14.0	—	12.0	13.2	—	—	—	—	15.8	—	15.7
BW5031	15.0	—	13.8	—	11.7	12.9	—	—	—	—	15.2	—	15.3
CS11200104-11	15.5	—	14.7	—	11.9	12.1	—	—	—	—	15.8	—	15.9
CS11200214-17	15.8	—	13.6	—	10.8	12.6	—	—	—	—	15.8	—	15.5
GP214	12.4	—	11.6	—	9.1	11.5	—	—	—	—	13.1	—	12.3
HY2068	13.1	—	12.8	—	11.1	12.6	—	—	—	—	13.9	—	13.8
PT488	15.4	—	14.9	—	11.9	13.7	—	—	—	—	15.4	—	15.9
PT598	14.6	—	14.3	—	11.6	13.7	—	—	—	—	15.6	—	15.2
PT599	15.3	—	14.8	—	11.7	13.9	—	—	—	—	15.8	—	15.8
PT652	16.0	—	14.2	—	12.6	13.3	—	—	—	—	17.0	—	16.2
SITE GRAND MEAN (%)	15.2	—	14.3	12.5	11.8	13.2	14.9	15.4	—	13.2	15.8	16.1	15.5

DURUM WHEAT

New for 2020

Variety	Class	Code	Breeder	Distributor	Seed Availability
AAC Grainland	CWAD	DT878	AAFC - Swift Current		

Comments:

Durum wheat was last tested in 2018.

The varieties **AAC Raymore**, **AAC Stronghold**, **CDC Fortitude** and **AAC Cabri** have solid stems with resistance to the wheat stem sawfly.

Midge tolerant varieties are designated by the letters 'VB', which stands for Varietal Blend. The varieties contain the Sm1 gene for tolerance. To manage against the build-up of midge resistance to the gene, an interspersed refuge is used commercially. More information on midge tolerant wheat varieties and interspersed refuge can be found at www.midgetolerantwheat.ca

Variety Descriptions

							Resistance Level:								
Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 101 days	Height +/- 89 cm	Spike Awned	Lodging	Sprouting	Loose Smut	Common Bunt	Leaf[1] Spots	Stem Rust	Leaf Rust	Stripe Rust	Fusarium Head Blight
AAC Cabri	9	65	14.1	1	3	Y	G	F	MR	R	I	MR	R	R	MS
AAC Congress	3	66	14.0	0	3	Y	G	F	MR	R	MS	MR	R	R	MS
AAC Current	14	59	14.4	1	4	Y	G	P	MS	MR	I	R	R	MR	MS
AAC Durafield	8	68	14.2	0	0	Y	G	F	S	R	I	R	R	MR	S
AAC Grainland	2	66	14.1	1	1	Y	G	—	R	R	MS	MR	R	R	MS
AAC Marchwell VB	14	63	14.4	0	0	Y	G	P	MR	R	MS	R	R	R	MS
AAC Raymore	14	62	14.4	0	0	Y	G	F	MS	MR	I	R	R	MR	S
AAC Spitfire	11	65	14.3	0	-2	Y	VG	F	MS	R	MS	R	R	R	S
AAC Stronghold	4	64	14.0	1	-2	Y	VG	G	R	I	I	R	R	MR	MS
AAC Succeed VB	4	67	14.2	-1	1	Y	G	—	R	R	MS	MR	R	I	MS
Brigade	29	72	13.3	2	6	Y	G	F	S	R	I	R	R	MR	MS
CDC Alloy	9	67	13.8	0	4	Y	G	F	I	R	MS	MR	R	R	MS
CDC Carbide VB	11	64	14.3	0	1	Y	G	P	MS	R	MS	R	R	R	MS
CDC Credence	2	67	13.9	1	6	Y	G	F	MR	R	I	MR	R	MR	MS
CDC Desire	6	59	14.1	-2	0	Y	G	G	MS	R	I	R	R	MR	S
CDC Dynamic	9	66	14.4	0	2	Y	G	F	I	R	I	MR	R	MR	MS
CDC Fortitude	14	66	14.2	1	-1	Y	VG	F	MS	R	MS	MR	R	R	MS
CDC Precision	9	68	13.8	0	4	Y	G	F	MS	R	MS	MR	R	R	MS
CDC Verona	21	64	14.1	2	1	Y	G	F	MS	R	MS	R	R	R	MS
CDC Vivid	14	60	14.3	0	0	Y	VG	F	I	R	I	R	R	MR	S
Enterprise	12	64	14.1	0	2	Y	F	G	MS	MR	I	R	R	R	MS
Eurostar	23	67	13.9	2	4	Y	F	F	S	R	I	R	R	R	MS
Strongfield	26	62	14.4	0	0	Y	G	F	S	MR	I	R	R	MR	S
Transcend	20	66	14.0	2	5	Y	G	G	S	R	I	R	R	R	MS
Varieties supported for registration by the PRCWRT															
DT881	2	68	13.9	1	-1	Y	G	—	R	R	I	R	R	I	MS
GRAND MEAN		65	14.1												
LSD (0.05)		4	0.5												

1 Leaf Spots rating is a combination of resistance to tan spot, spot blotch and septoria leaf disease complex.

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WINTER WHEAT

Comments:

AAC Icefield is a hard white winter wheat with registration in the Canada Western Experimental class.

Accipiter, **Broadview**, **CDC Falcon** and **Peregrine** are hard red kernel types, **Sunrise** is a soft red kernel type, and **CDC Ptarmigan** is a soft white kernel type.

Emerson is rated Resistant (R) to Fusarium Head Blight (FHB). If disease pressure is high, yield and/or quality can be reduced in non R-rated varieties, due to FHB.

AAC Elevate has resistance to wheat curl mite, the vector that transmits wheat streak mosaic virus. To preserve the effectiveness of the tolerance gene, agronomic practices eliminating the 'green bridge' of plant materia lthat serves as a reservoir for mites should be followed whenever possible.

Variety Descriptions

							Resistance Level:					
Class/Variety	Site Years Tested	Yield bu/acre	Height +/- 75 cm	Spike Awned	Relative[1] Maturity	Relative[2] Winter Hardiness	Lodging	Common Bunt	Stem Rust	Leaf Rust	Stripe Rust	Fusarium[3] Head Blight
Canada Western Red Winter												
AAC Elevate	37	81	8	Y	M	G	VG	MR	MR	I	MS	I
AAC Gateway	35	81	2	Y	M	F	VG	S	MR	I	MR	I
AAC Goldrush	19	81	10	Y	M	VG	G	S	MR	R	I	I
AAC Wildfire	19	89	10	Y	L	VG	G	MR	S	I	R	MR
CDC Buteo	86	80	16	Y	M	VG	F	S	I	I	S	MR
CDC Chase	30	85	19	Y	M	F	F	S	R	R	MR	MS
Emerson	40	82	11	Y	M	G	VG	S	R	I	MR	R
Flourish	35	83	5	Y	E	F	VG	MR	I	I	I	S
McClintock	59	78	19	Y	L	F	VG	S	R	MR	—	S
Moats	35	84	16	Y	E	G	F	MS	R	R	MR	S
Canada Western Special Purpose												
Accipiter	36	84	9	Y	M	G	VG	S	R	MR	S	MS
Broadview	38	82	6	Y	E	G	G	S	R	R	S	S
CDC Falcon	103	78	0	Y	E	F	VG	S	MR	MR	S	S
CDC Ptarmigan	38	83	18	N	M	G	F	S	S	S	S	I
Peregrine	36	86	22	Y	M	VG	F	S	I	MR	MR	I
Sunrise	38	87	14	Y	M	G	G	S	MR	MR	MR	MR
Canada Western Experimental												
AAC Icefield	19	85	5	Y	M	F	VG	S	R	MR	MR	I
Varieties supported for registration by the PRCWRT												
W520	30	89	8	Y	M	F	VG	I	R	R	R	I
W522	12	81	0	Y	E	F	G	S	R	R	I	I
W563	7	92	10	Y	M	G	VG	S	R	MR	R	MR
GRAND MEAN (bu/acre)		84										
LSD (bu/acre) (0.05)		4										

1 Maturity ratings: E = Early, M = Medium and L = Late. Varieties plus 2 to 4 days compared to CDC Falcon would be Medium (M) maturing. Varieties greater than 4 days compared to CDC Falcon would be rated as Late (L) maturing.

2 All registered varieties have similar (good) winter hardiness if seeded at the optimum date into standing stubble where good snow cover can be assured. For the newer varieties, there is limited information currently available. As these varieties are grown on more acres, a better understanding of relative winter hardiness will follow.

3 FHB infection is highly influenced by genetics, environment and heading date. Under high levels of disease pressure, all varieties will experience yield and/or quality loss.

Yield Comparisons

Class/Variety	2019 Yield (bu/acre)							
	Arborg	Boissevain	Carberry	Carman	Hamiota	Melita	Roblin	Winnipeg
Canada Western Red Winter								
AAC Elevate	95	50	57	60	77	53	115	98
AAC Goldrush	89	52	64	62	77	56	98	106
AAC Wildfire	89	52	65	71	86	57	123	114
Emerson	86	51	69	59	81	51	94	92
Canada Western Experimental								
AAC Icefield	96	47	66	58	77	57	116	90
Varieties supported for registration by the PRCWRT								
W520	90	56	68	61	89	55	105	115
W522	95	46	72	61	85	46	102	108
W563	102	64	75	73	93	68	124	106
SITE GRAND MEAN (bu/acre)	93	52	67	63	83	55	110	104
CV%	4.3	5.4	8.8	8.0	3.2	3.5	8.0	7.3
LSD (bu/acre)	7	5	10	7	4.7	3	16	10
Sig Diff	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
Seeding Date	05-Sep	19-Sep	30-Sep	12-Sep	14-Sep	11-Sep	17-Sep	06-Sep
Harvest Date	08-Aug	09-Aug	20-Aug	26-Jul	29-Aug	16-Aug	16-Aug	07-Aug

Protein Comparisons

Class/Variety	2019 Protein (%)							
	Arborg	Boissevain	Carberry	Carman	Hamiota	Melita	Roblin	Winnipeg
Canada Western Red Winter								
AAC Elevate	12.0	11.4	12.1	12.9	10.6	13.5	11.7	13.3
AAC Goldrush	13.1	11.2	13.0	13.6	10.9	14.5	12.0	13.0
AAC Wildfire	12.4	11.6	13.8	13.2	10.4	14.1	12.1	13.1
Emerson	13.7	12.3	12.8	14.7	11.4	15.0	13.5	14.9
Canada Western Experimental								
AAC Icefield	11.4	11.0	12.5	13.0	10.2	13.8	11.3	13.1
Varieties supported for registration by the PRCWRT								
W520	12.1	10.6	12.2	12.9	10.4	13.4	11.4	12.8
W522	12.2	11.5	14.3	12.9	10.7	13.9	12.1	12.5
W563	11.6	9.8	13.3	12.1	9.6	12.9	11.2	12.5
SITE GRAND MEAN (%)	12.3	11.2	13.0	13.2	10.5	13.9	11.9	13

FALL RYE

Comments:

The hybrid fall rye varieties **Brasetto**, **Guttino**, **KWS Bono**, **KWS Daniello**, and **KWS Gatano** have improved falling number. Typically, a falling number of 180 seconds or greater is preferred by the rye miling market. Falling number can be heavily influenced by moisture around harvest time.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Height +/- 104 cm	Relative[1] Maturity	Falling Number (Seconds)	Resistance Level: Lodging	Resistance Level: Ergot	Relative Winter Hardiness
Danko	29	93	—	—	—	—	—	F
Hazlet	57	98	3	0	152	G	MS	VG
Prima	25	92	13	-3	204	F	MS	VG
Hybrid Fall Rye								
Brasetto	30	115	-7	0	248	VG	MS	VG
Guttino	37	117	-9	0	292	VG	MS	VG
KWS Bono	29	114	-8	0	265	VG	MS	VG
KWS Daniello	12	112	-7	0	272	G	I	VG
KWS Gatano	12	115	-7	0	268	G	I	VG
GRAND MEAN (bu/acre)		107						
LSD (bu/acre) (0.05)		4						

1 Maturity ratings: Hazlet reaches maturity in approximately 219 days.

Yield Comparisons

Type/Variety	2019 Yield (bu/ac) Arborg	Boissevain	Carman	Carberry	Hamiota	Roblin	Rosebank	Winnipeg
Hazlet	107	55	70	71	77	92	57	67
Hybrid Fall Rye								
Guttino	118	56	86	86	100	116	76	72
KWS Bono	106	55	85	80	102	116	82	76
KWS Daniello	130	62	91	91	97	121	82	74
KWS Gatano	118	64	82	83	99	120	75	69
SITE GRAND MEAN (bu/acre)	116	58	83	82	95	113	74	72
CV%	3.9	6.8	6.0	13.6	1.4	4.2	3.5	12.2
LSD (bu/acre)	9	—	8	—	3	12	5	—
Sign Diff	Yes	No	Yes	No	Yes	Yes	Yes	No
Seeding Date	05-Sep	19-Sep	12-Sep	30-Sep	14-Sep	17-Sep	17-Sep	07-Sep
Harvest Date	08-Aug	09-Aug	31-Jul	20-Aug	29-Aug	16-Aug	26-Jul	09-Aug

Distributor Contacts for Listed Varieties in Seed Manitoba 2020

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.

BARLEY

Malting Acceptance - Recommended	
AAC Connect (2)	CANTERRA SEEDS
AAC Synergy (2)	Syngenta Seeds Canada Inc.
AC Metcalfe (2)	SeCan
CDC Bow (2)	SeCan
CDC Copeland (2)	SeCan
Malting: Other	
CDC Churchill (2)	SeCan
CDC Copper (2)	FP Genetics
CDC Fraser (2)	SeCan
CDC Goldman (2)	
CDC Goldstar (2)	CANTERRA SEEDS
CDC Kindersley (2)	SeCan
CDC Meredith (2)	SeCan
CDC PolarStar (2)	CANTERRA SEEDS
CDC PlatinumStar (2)	CANTERRA SEEDS
Bentley (2)	CANTERRA SEEDS
Celebration (6W)	CANTERRA SEEDS
Lacey (6W)	Alliance Seed
LEGACY (6W)	CPS Canada Inc./FP Genetics
Lowe	SeCan
Major (2)	Alliance Seed
Newdale (2)	FP Genetics
Sirish	Syngenta Seeds Canada Inc.
Stellar-ND (6W)	CANTERRA SEEDS
Tradition (6W)	CPS Canada Inc./FP Genetics
Food and Feed	
AB Advantage	SeCan
AB Catllelac (6)	Alliance Seed
AC Ranger (6F)	FP Genetics
Altorado	CPS Canada Inc.
Amisk (6)	SeCan
Brahma (2)	CPS Canada Inc.
Breton (6F)	Field Crop Development Centre
Canmore (2)	CANTERRA SEEDS
CDC Austenson (2)	SeCan
CDC Coalition (2)	CANTERRA SEEDS
CDC Cowboy (2F)	SeCan
CDC Maverick (2F)	SeCan
CDC YORKTON (6W)	CANTERRA SEEDS
Champion (2)	CPS Canada Inc.
Claymore (2)	CPS Canada Inc.
CONLON (2)	Seed Depot
Desperado (6F)	Alliance Seed
Gadsby (2)	SeCan
Muskwa (6)	SeedNet Inc.
Oreana (2)	CPS Canada Inc.
Sundre (6)	Mastin Seeds
Hulless	
CDC Ascent (2)	SeCan
CDC Carter (2)	SeCan
CDC Clear (2)	SeCan

OATS

AAC Kongsore	Grain Millers
AAC Justice	FP Genetics
AC Morgan	SeCan
CDC Arborg	FP Genetics
CDC Big Brown	SeCan
CDC Dancer	FP Genetics
CDC Endure	Alliance Seed
CDC Haymaker (F)	SeCan
CDC Minstrel	FP Genetics
CDC Morrison	CANTERRA SEEDS
CDC Norseman	SeCan
CDC Ruffian	FP Genetics
CDC Skye	SeCan
CS Camden	CANTERRA SEEDS
Furlong	CANTERRA SEEDS
HiFi	Seed Depot
Jordan	SeCan
Leggett	FP Genetics
ORe3541M	SeCan
ORe3542M	SeCan
Pinnacle	FP Genetics
Ronald	SeCan
Souris	Seed Depot
Stride	SeCan
Summit	FP Genetics
Triactor	CANTERRA SEEDS
Varieties being tested for adaptability in Western Canada	
Akina	La Coop Federee
Bradley	SeCan
Kara	La Coop Federee
Kyron	La Coop Federee

SPRING WHEAT

Canada Western Red Spring	
5604HR CL	Proven Seed
5605HR CL	Proven Seed
AAC Alida VB	SeCan
AAC Bailey	CANTERRA SEEDS
AAC Brandon	SeCan
AAC Broadacres	Proven Seed
AAC Cameron VB	CANTERRA SEEDS
AAC Connery	CANTERRA SEEDS
AAC Elie	Alliance Seed
AAC Jatharia VB	SeCan
AAC LeRoy	Alliance Seed
AAC Magnet	FP Genetics
AAC Prevail VB	Alliance Seed
AAC Redberry	Alliance Seed
AAC Redwater	SeCan
AAC Russel	FP Genetics / Proven Seed
AAC Starbuck VB	SeCan
AAC Tisdale	SeCan
AAC Viewfield	FP Genetics
AAC W1876	CANTERRA SEEDS
AAC Warman VB	SeCan
AAC Wheatland VB	SeCan
AC Domain	SeCan
Bolles	Seed Depot
Carberry	SeCan

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SPRING WHEAT

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CDC Bradwell	SeCan
CDC Go	Proven Seed
CDC Hughes VB	Proven Seed
CDC Landmark VB	FP Genetics Inc.
CDC Ortona	Proven Seed
CDC Plentiful	FP Genetics
CDC Stanley	Proven Seed
CDC Titanium VB	Proven Seed
CDC Utmost VB	FP Genetics
CDC VR Morris	Proven Seed
Daybreak	CANTERRA SEEDS
Ellerslie	
Fieldstar VB	SeCan
Glenn	CANTERRA SEEDS
Goodeve VB	Alliance Seed
Harvest	FP Genetics
Infinity	CANTERRA SEEDS
KANE	SeCan
Muchmore	FP Genetics
Parata	SeCan
Shaw VB	SeCan
RedNet	SeedNet Inc.
SY433	Cargill Ltd.
SY479 VB	Alliance Seed
SY637	Syngenta Canada Inc.
SY Chert VB	Syngenta Canada Inc.
SY Gabbro	Syngenta Canada Inc.
SY Obsidian	Syngenta Canada Inc.
SY Slate	Syngenta Canada Inc.
SY Sovite	Syngenta Canada Inc.
SY Torach	Syngenta Canada Inc.
Thorsby	CANTERRA SEEDS
Tracker	
Unity VB	SeCan
Vesper VB	SeCan
Waskada	SeCan
Canada Prairie Spring Red	
AAC Crossfield	CANTERRA SEEDS
AAC Crusader	CANTERRA SEEDS
AAC Entice	Proven Seed
AAC Foray VB	SeCan
AAC Goodwin	SeCan
AAC Penhold	SeCan
AAC Ryley	SeCan
AAC Tenacious VB	Alliance Seed
CDC Terrain	FP Genetics Inc.
Accelerate	CANTERRA SEEDS
Enchant VB	FP Genetics
SY995	Syngenta Canada Inc.
SY Rowyn	Alliance Seed
Canada Northern Hard Red	
AAC Concord	CANTERRA SEEDS
AAC Tradition	SeCan
Elgin ND	FP Genetics
Faller	Seed Depot
Prosper	Seed Depot
Canada Western Special Purpose	
AAC Awesome VB	SeCan
AAC Innova	Alliance Seed
AAC NRG097	CANTERRA SEEDS
AAC Proclaim	FP Genetics
Alderon	SeCan
CDC Throttle	Crop Development Centre
Charing VB	SeCan
Pasteur	SeCan
Sparrow VB	SeCan
WFT603	Western Feed Grains Development Co-op Ltd.
Canadian Western Hard White Spring	
AAC Cirrus	FP Genetics
AAC Iceberg	Alliance Seed
AAC Whitefox	SeCan
CDC Whitewood	SeCan
Snowstar	SeCan
Whitehawk	SeCan
Canada Western Soft White Spring	
AAC Chiffon	SeedNet Inc.
AAC Indus VB	SeCan
AAC Paramount VB	SeCan
AC Andrew	SeCan
Sadash VB	SeCan
Canada Western Extra Strong	
Burnside	Faurschou Farms Ltd. III
CDN Bison	Faurschou Farms Ltd. III
Glencross VB	Faurschou Farms Ltd. III

SPRING WHEAT

Canada Western Amber Durum	
AAC Cabri	SeCan
AAC Congress	CANTERRA SEEDS
AAC Current	Alliance Seed
AAC Durafield	SeCan
AAC Grainland	
AAC Marchwell VB	SeCan
AAC Raymore	SeCan
AAC Spitfire	SeCan
AAC Stronghold	SeCan
AAC Succeed VB	FP Geneetics
Brigade	Proven Seed
CDC Alloy	FP Genetics
CDC Carbide VB	Proven Seed
CDC Credence	CANTERRA SEEDS
CDC Desire	Syngenta Canada Inc.
CDC Dynamic	Proven Seed
CDC Fortitude	Proven Seed
CDC Precision	Alliance Seed
CDC Verona	Alliance Seed
CDC Vivid	Proven Seed
Enterprise	CANTERRA SEEDS
Eurostar	SeCan
Strongfield	SeCan
Transcend	FP Genetics

WINTER WHEAT

Canada Western Red Winter	
AAC Elevate	SeCan
AAC Gateway	Seed Depot
AAC Goldrush	FP Genetics
AAC Wildfire	SeCan
CDC Buteo	SeCan
CDC Chase	CANTERRA SEEDS
Emerson	CANTERRA SEEDS
Flourish	SeCan
McClintock	CANTERRA SEEDS
Moats	SeCan
Canada Western Special Purpose	
Accipiter	SeCan
Broadview	CANTERRA SEEDS
CDC Falcon	SeCan
CDC Ptarmigan	Western Ag
Peregrine	SeCan
Sunrise	Western Ag
Canada Western Experimental	
AAC Icefield	FP Genetics
FALL RYE	
Danko	FP Genetics
Hazlet	SeCan
Prima	SeCan

Hybrid Fall Rye

KWS Bono	FP Genetics
Brasetto	FP Genetics
Guttino	SeedNet Inc.

DISTRIBUTOR	PHONE NUMBER
AAFC - Brandon	1-204-578-6500
Alliance Seed	1-877-270-2890
CANTERRA SEEDS	1-866-744-4321
Cargill Ltd.	1-888-855-8558
Crop Development Centre	1-306-966-5855
Department of Plant Sciences, U of S	1-306-966-5855
Faurschou Farms Ltd. III	1-204-274-2159
Field Crop Development Centre	1-403-782-8039
FP Genetics	1-877-791-1045
La Coop Federee	1-514-384-6450
Mastin Seeds	1-403-556-2609
Proven Seed	1-855-569-9444
Richardson Pioneer	1-204-934-5166
SeCan	1-800-665-7333
Seed Depot	1-204-825-2000
SeedNet Inc.	1-403-715-9771
Syngenta Canada Inc.	1-877-964-3682
Syngenta Seeds Canada Inc.	1-877-964-3682
United Suppliers Canada	1-888-975-4769
Western Ag	1-844-435-9272
Western Feed Grains Development Co-op Ltd.	1-877-250-1552

BARLEY

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AAC CONNECT

		S	F	R	C
Decker; Murray, Donald H. & Ryan	204-764-2733	S	F	R	
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813				C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666				C

AAC SYNERGY

		S	F	R	C
Pilot Mound; Wallace, Brad & Joe	204-825-7246				C
Rosenort; Friesen, Rick	204-746-8325			R	
St. Leon; Pembina Co-Op	204-535-2598			R	C

AB CATTLELAC

		S	F	R	C
Plumas; Tonn, Todd	204-386-2206		F		
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			R	

AC METCALFE

		S	F	R	C
Binscarth; Cook, Gerry	204-532-2268				C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846				C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450				C

CANMORE

		S	F	R	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849				C
Morden; Wilson, James M.	204-246-2388				C
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363				C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	S			C
Warren; Riddell, Craig Thomas	204-227-5679		F		C

CDC AUSTENSON

		S	F	R	C
Arborg; Johnson, Reginald H., James G. & Tim G.	204-642-2570				C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846				C
Cromer; Bartel, Bob	204-662-4580				C
Crystal City; Buchanan, Kenneth S.& Dean K.	204-873-2661				C
Darlingford; Dudgeon, Gilbert Arthur	204-246-2357				C
Dauphin; Durston, Scott L.	204-638-5569				C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450			R	C
Inglis; Beischer, Derrick	204-564-2676				C

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		S	F	R	C
Mac Gregor; Hulme, Lorne	204-685-2627				C
Miniota; Walker, Alan Glen	204-567-3647			R	C
Newdale; Wareham, L.B. Shayne	204-849-2112				C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422				C
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363				C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354				C
Plumas; Tonn, Todd	204-386-2206	S	F	R	
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813				C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495				C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118				C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630			R	
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658			R	
Winnipeg; James, David G.	204-222-8785				C

CDC BOW

		S	F	R	C
Binscarth; Pizzey, Tim V.	204-683-2316				C
Kamsack; Fedoruk, Rod M.& Cathy	306-542-4235				C
Mather; Mc Lennan, Donald D.	204-529-2372			R	
Rosser; Mulligan, Kenneth	204-322-5373			R	
Swan River; Alford, Wayne G.	204-734-2526			R	

CDC COPELAND

		S	F	R	C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450				C
Oak Lake; Smith, Gerald R.& Leigh E.	204-855-3128			R	
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813				C
Rivers; Redsper Ent. Ltd.	204-328-5346				C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666			R	

CDC COPPER

		S	F	R	C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613		F		

CDC FRASER

		S	F	R	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846			R	

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CDC MAVERICK

Crystal City; Buchanan, Kenneth S.& Dean K.	204-873-2661	S	C
Inglis; Beischer, Derrick	204-564-2676		C
Warren; Riddell, Craig Thomas	204-227-5679	S	C

CELEBRATION

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566		C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613	R	
Mac Gregor; Hulme, Lorne	204-685-2627	R	
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813		C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118		C

CONLON

Grosse Isle; Rutherford, Rick (Mb)	204-467-5613		C
Morden; Wilson, James M.	204-246-2388		C
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363		C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212		C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354		C
Portage; Pugh, William G. & Victoria	204-274-2179		C
Rosenort; Friesen, Rick	204-746-8325		C
Somerset; Sierens, Joseph & Chris	204-744-2883		C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495		C
Teulon; Willis, Kyle	204-886-3102		C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658		C

LACEY

Mac Gregor; Hulme, Lorne	204-685-2627		C

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NEWDALE

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566		C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422		C
Russell; Woroneski, Frank M.	204-773-3262		C
Souris; Kohut, David Anton	204-483-3063	S F	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495		C

SIRISH

Arborg; Orbanski, Jason	204-378-2879		R

TRADITION

Minto; Ayre, Andrew	204-776-2333		C
Winnipeg; James, David G.	204-222-8785		R

OATS

CDC ARBORG

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566		R
Carman; Park, Robert J.	204-745-3304		R
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622		R
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613		R
Hamiota; Knight, Ronald M. & Jeff	204-764-2450		R
Killarney; Hird, Steven	204-523-7464		R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354		R

CDC BALER

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

CDC DANCER

Hamiota; Knight, Ronald M. & Jeff	204-764-2450		C

CDC ENDURE

Grosse Isle; Rutherford, Rick (Mb)	204-467-5613	S	
Homewood; Froebe, Bruce D. & Murray	204-745-6655	S	
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S	

CDC HAYMAKER

Carman; Menold, Ulrich & Lucas	204-745-2822		R
Crystal City; Buchanan, Kenneth S.& Dean K.	204-873-2661		C
Dauphin; Durston, Scott L.	204-638-5569		C
Dufrost; Catellier, Roger & Richard	204-746-4175		C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805		R
Inglis; Beischer, Derrick	204-564-2676		R C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495		C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118		R C
Swan River; Oberlin, George	204-734-2292		C
Warren; Riddell, Craig Thomas	204-227-5679	S F	
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658		C
Winnipeg; James, David G.	204-222-8785		C

CDC MORRISON

Morris; Dueck , Arthur	204-746-2026	S	C

CS CAMDEN

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566		C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846		C
Brandon; Wheat City Seeds Ltd.	204-727-3337		C
Carman; Krahn, Myron	204-745-1938		C
Decker; Murray, Donald H. & Ryan	204-764-2733		C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849		C
Fannystelle; Nadeau, Brian	204-436-2469		C
Glenboro; Jefferies, Ron & Cale	204-827-2102		C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613		R
Homewood; Froebe, Bruce D. & Murray	204-745-6655		R C
Lowe Farm; Sawatzky, Matt	204-746-2187		C
Mac Gregor; Hulme, Lorne	204-685-2627		R
Miniota; Walker, Alan Glen	204-567-3647		R

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Morris; Dueck , Arthur	204-746-2026	S	F		C
Morris; Hamblin, David & Lorraine	204-746-4779				C
Morris; Hamblin, Donald & Bradley	204-209-0506	S	F	R	
Morris; Mueller, Malte	204-746-2026				C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422			R	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354				C
Rosenort; Friesen, Rick	204-746-8325				C
Russell; Keating, Mark	204-773-3854				C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S	F	R	C
Somerset; Sierens, Joseph & Chris	204-744-2883				C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495				C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118			R	
Stonewall; Unger, Ronald K. & Darcy	204-467-8630			R	
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666		F	R	C
Warren; Riddell, Craig Thomas	204-227-5679			R	
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290			R	

FURLONG ♻

Mac Gregor; Hulme, Lorne	204-685-2627				C

ORE3541M ♀

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288				C
Binscarth; Pizzey, Tim V.	204-683-2316		F		
Brunkild; Kaminsky, William	204-795-6507			R	
Carman; Menold, Thomas	204-745-3377		F		
Carman; Menold, Ulrich & Lucas	204-745-2822		F		
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525			R	C
Fannystelle; Nadeau, Brian	204-436-2469				C
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268	S		R	
Portage; Sanderson, Garry	204-857-8406			R	
Rosenort; Friesen, Rick	204-746-8325				C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495			R	
Teulon; Willis, Kyle	204-886-3102			R	
Warren; Riddell, Craig Thomas	204-227-5679		F		
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658		F		

ORE3542M ♀

Altona; Fuchsmeier, Joni	204-324-3859			R	
Altona; Wiebe, Henry D. & Lloyd	204-324-8036	S	F	R	
Brandon; Wheat City Seeds Ltd.	204-727-3337			R	
Carman; Krahn, Myron	204-745-1938		F		
Carman; Menold, Ulrich & Lucas	204-745-2822		F		
Carman; Park, Robert J.	204-745-3304	S	F	R	
Dauphin; Durston, Scott L.	204-638-5569		F	R	
Deloraine; Bolduc, Ronald & Bell, A.J. & J.C.	204-747-4194			R	
Dufrost; Catellier, Patrick	204-347-5588				C
Dufrost; Catellier, Patrick Raymond	204-347-5503				C
Fannystelle; Nadeau, Brian	204-436-2469				C
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951			R	

OATS

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Holland; Patenaude, Donald & Robert	204-526-2391			R	
Homewood; Froebe, Bruce D. & Murray	204-745-6655			R	
Morris; Hamblin, David & Lorraine	204-746-4779			R	
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268	S	F		
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			R	
Pilot Mound; Wallace, Brad & Joe	204-825-7246				C
Rosenort; Friesen, Rick	204-746-8325			R	
Sanford; Bergen, Edward Harry & Tim	204-736-2278			R	
Somerset; Sierens, Joseph & Chris	204-744-2883			R	
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495			R	
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290			R	
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658		F	R	
Winnipeg; James, David G.	204-222-8785				C

PINNACLE ♻

Rosser; Krym, Lynden	204-467-5143			R	C

SOURIS ♻

Mac Gregor; Hulme, Lorne	204-685-2627				C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212				C

SUMMIT ♻

Binscarth; Pizzey, Tim V.	204-683-2316				C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846				C
Carman; Park, Robert J.	204-745-3304				C
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	S	F	R	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F	R	
Fannystelle; Nadeau, Brian	204-436-2469				C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613				C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450				C
Killarney; Chatham, Don, Linda & Cody	204-523-8412			R	C
Killarney; Hird, Steven	204-523-7464				C
Mac Gregor; Hulme, Lorne	204-685-2627				C
Manitou; Sanders, Andre O., Daniel & Dylan	204-242-2576				C
Morris; Hamblin, David & Lorraine	204-746-4779				C
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			R	
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212				C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354		F	R	C
Rosenort; Friesen, Lloyd	204-746-8198				C
Rosenort; Friesen, Rick	204-746-8325			R	
Somerset; Sierens, Joseph & Chris	204-744-2883			R	
Souris; Kohut, David Anton	204-483-3063			R	
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495				C
St. Claude; Rouire, Roland & Guy	204-379-2582				C
Swan River; Alford, Wayne G.	204-734-2526			R	
Winnipeg; James, David G.	204-222-8785				C

SPRING WHEAT

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AAC ALIDA VB ⊛ - AAC BRANDON

Binscarth; Pizzey, Tim V.	204-683-2316		R	
Foxwarren; Graham, George Arthur	204-683-2367	F		
Minto; Fraser, Rick G.	204-776-2047	F		
Oak River; Henry, Cameron & McLean Eric	204-566-2422	F	R	
Russell; Keating, Mark	204-773-3854		R	
Solsgirth; Nickel, James D. & John H. & Kevin J. & J. Gordon	204-842-3757		R	

AAC BRANDON ⊛

Altona; Sawatzky, John	204-324-4018			C
Altona; Wiebe, Henry D. & Lloyd	204-324-8036			C
Arborg; Timchishen, Donald Victor & Darcy	204-641-1288		R	C
Baldur; Desrochers, David Oscar	204-535-2090			C
Binscarth; Cook, Gerry	204-532-2268		R	C
Binscarth; Cook, Murray	204-532-2239		R	
Binscarth; Pizzey, Tim V.	204-683-2316	F		C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846			C
Boissevain; Latimer, Kevin B. & Duane E.	204-534-8318			C
Brandon; Wheat City Seeds Ltd.	204-727-3337		R	
Brandon; Whetter, Rodney & Darren	204-729-7059		R	
Brunkild; Kaminsky, William	204-795-6507			C
Carman; Krahn, Myron	204-745-1938			C
Carman; Menold, Thomas	204-745-3377			C
Carman; Menold, Ulrich & Lucas	204-745-2822		R	
Carman; Park, Robert J.	204-745-3304			C
Cromer; Bartel, Patrick	204-662-4466			C
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525			C
Darlingford; Dudgeon, Gilbert Arthur	204-246-2357			C
Dauphin; Fisher, Roderick Allan & Douglas James & Allison	204-622-8800			C
Dauphin; Kaleta, James & Debra	204-638-7800			C

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Deloraine; Bolduc, Ronald & Bell, A.J. & J.C.	204-747-4194				C
Domain; Manness, Clayton	204-736-2922				C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F	R	C
Dufrost; Catellier, Patrick Raymond	204-347-5503			R	
Elie; Lachance, J.B. Adrien & Paul M. & Lionel	204-353-2694				C
Elm Creek; Runne, James Armin	204-436-3321				C
Fannystelle; Nadeau, Brian	204-436-2469				C
Fisher Branch; Danelak, George & Harvey G.	204-372-6236				C
Foxwarren; Falloon, Larry	204-683-2247				C
Foxwarren; Graham, George Arthur	204-683-2367				C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805			R	C
Glenboro; Jefferies, Ron & Cale	204-827-2102				C
Grandview; Storey, R. Kip & Troy K.	204-638-2004				C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613				C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450				C
Holland; Patenaude, Donald & Robert	204-526-2391				C
Holland; Vigar, Murray & Gary	204-526-2108				C
Homewood; Froebe, Bruce D. & Murray	204-745-6655				C
Inglis; Beischer, Derrick	204-564-2676				C
Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696				C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012				C
Kenville; Carmichael, Hugh E.	204-734-3672			R	
Kenville; Carmichael, John A.	204-734-3913				C
Killarney; Chatham, Don, Linda & Cody	204-523-8412				C
Killarney; Hird, Steven	204-523-7464			R	
Lowe Farm; Sawatzky, Matt	204-746-2187			R	
Mac Gregor; Hulme, Lorne	204-685-2627			R	
Manitou; Sanders, Andre O., Daniel & Dylan	204-242-2576			R	
Mather; Mc Lennan, Donald D.	204-529-2372				C
Miniota; Walker, Alan Glen	204-567-3647				C
Minto; Ayre, Andrew	204-776-2333				C
Minto; Fraser, Rick G.	204-776-2047				C
Morden; Wilson, James M.	204-246-2388			R	C
Morris; Dueck , Arthur	204-746-2026				C
Morris; Hamblin, David & Lorraine	204-746-4779			R	C
Morris; Mueller, Malte	204-746-2026				C
Newdale; Wareham, L.B. Shayne	204-849-2112				C
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268			R	C
Oak Bluff; Gousseau, Marcel E.	204-895-1357				C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	S	F		C
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			R	C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212			R	C
Pilot Mound; Wallace, Brad & Joe	204-825-7246				C
Plum Coulee; Janzen, Ken & Ernie A.	204-829-7749			R	
Plumas; Court, Randolph A. & Tracy L.	204-386-2354				C
Plumas; Tonn, Todd	204-386-2206	S	F	R	
Portage; Askin, Raymond T. & Jeffrey S.	204-856-3483	S		R	
Portage; Sanderson, Garry	204-857-8406				C
Portage; Sissons, Blye	204-857-7341	S	F	R	
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813				C
Rivers; Krahn, Abe M., Ronald J. & Robert A.	204-761-8702				C
Rivers; Redsper Ent. Ltd.	204-328-5346				C

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Plant: 204-776-2047
Rick: 204-534-7458
Jay: 204-534-7722

3 NEW VARIETIES FOR 2020
RED SPRING WHEAT

AAC Brandon — A trusted standard wheat for the prairies. Very high yield, good protein, very good disease package, and an (MR) rating for FHB.

AAC Alida VB — Midge tolerant variety, very good lodging resistance, (MR) rating for FHB, grade retention, one day earlier than AAC Brandon, resistant to leaf & stem rust and loose smut. Yield as good as AAC Brandon or better. Very good sprouting resistance.

AC Starbuck VB — Midge Tolerant. Bigger yield than AC Brandon with same straw. FHB Rating & (MR), more protein.

AAC Wheatland VB — Midge Tolerant. Bigger yield than AC Brandon, with shorter, stronger straw, more protein, (1) Rating for FHB.

Yellow Peas — CDC Lewochko yellow pea. Excellent yield, protein and lodging rating, resistant to seed coat breakage.

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.

Rosenort; Friesen, Rick	204-746-8325			C
Rossburn; Mitchell, John	204-859-2431		R	C
Russell; Keating, Mark	204-773-3854			C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S	F	R
Solsgirth; Nickel, James D. & John H.& Kevin J. & J.Gordon	204-842-3757			C
Somerset; Sierens, Joseph & Chris	204-744-2883		F	R
Souris; Kohut, David Anton	204-483-3063			C
Souris; Kohut, Richard	204-725-5984			C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495			C
St. Claude; Rouire, Roland & Guy	204-379-2582			C
St. Joseph; Remillard, Aime J., Luc & Paul	204-737-2230			C
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208			C
St. Leon; Pembina Co-Op	204-535-2598		R	
Stonewall; Unger, Ronald K. & Darcy	204-467-8630		F	C
Swan River; Oberlin, George	204-734-2292			C
Treherne; Stinson, Gary Donald	204-723-2319			C
Virden; Hutchison, Barry	204-851-6157			C
Warren; Riddell, Craig Thomas	204-227-5679	S	R	
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290		R	C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658		F	C
Winnipeg; James, David G.	204-222-8785			C

AAC CAMERON VB ⓤ - CARBERRY

Dauphin; Kaleta, James & Debra	204-638-7800	S		C
Glenboro; Jefferies, Ron & Cale	204-827-2102			C
Grandview; Storey, R. Kip & Troy K.	204-638-2004			C
Killarney; Hird, Steven	204-523-7464			C
Morris; Hamblin, David & Lorraine	204-746-4779			C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			C
Rivers; Redsper Ent. Ltd.	204-328-5346			C
Rosenort; Friesen, Rick	204-746-8325			C

AAC ELIE ⊛

Altona; Fuchsmeier, Andreas	204-324-9685			C
Altona; Fuchsmeier, Joni	204-324-3859			C
Altona; Sawatzky, John	204-324-4018			C
Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566			C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846			C
Crandall; Doupe, Neil D.	204-562-3632			C
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525		R	
Deloraine; Bolduc, Ronald & Bell, A.J. & J.C.	204-747-4194			C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849			C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613			C
Holland; Kubinec, Anastasia	204-526-2776			C
Morris; Hamblin, David & Lorraine	204-746-4779			C
Oak River; Henry, Cameron & McLean, Eric	204-566-2422		R	
Plumas; Tonn, Todd	204-386-2206			C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666			C

SPRING WHEAT

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AAC GOODWIN ⓤ

Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951			C

AAC LEROY VB ⓤ - AAC REDBERRY

Crandall; Doupe, Neil D.	204-562-3632		R	
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525		R	

AAC PENHOLD ⓤ

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288			C
Carman; Park, Robert J.	204-745-3304		R	
Lowe Farm; Sawatzky, Matt	204-746-2187		R	
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495			C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658		F	

AAC REDBERRY ⓤ

Baldur; Desrochers, David Oscar	204-535-2090		R	C
Binscarth; Pizzey, Tim V.	204-683-2316			C
Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566			C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846			C
Crandall; Doupe, Neil D.	204-562-3632		R	
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525		F	C
Elphinstone; Gerrard, Jody	204-759-2213			C
Foxwarren; Falloon, A. Scott	204-683-2347		R	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805		R	C
Holland; Kubinec, Anastasia	204-526-2776			C
Miniota; Walker, Alan Glen	204-567-3647			C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422			C
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208			C
Swan River; Oberlin, George	204-734-2292			C

AAC REDWATER ⓤ

Binscarth; Pizzey, Tim V.	204-683-2316			C

AAC RUSSELL VB ⓤ - AAC BRANDON

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	S		

AAC STARBUCK VB ⓤ - AAC BRANDON

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	S	F	
Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	S	F	
Binscarth; Pizzey, Tim V.	204-683-2316	S	F	
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S	F	
Brandon; Wheat City Seeds Ltd.	204-727-3337		F	
Carman; Menold, Ulrich & Lucas	204-745-2822	S		
Crandall; Doupe, Neil D.	204-562-3632		F	
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525		F	
Dauphin; Kaleta, James & Debra	204-638-7800	S	F	
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622		F	

SPRING WHEAT

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Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F	
Dufrost; Catellier, Patrick Raymond	204-347-5503	S		
Minto; Fraser, A. Jay C.	204-776-7722	S	F	
Minto; Fraser, Rick G.	204-776-2047	S	F	
Morden; Wilson, James M.	204-246-2388		F	
Morris; Dueck , Arthur	204-746-2026	S		
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	S	F	
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			R
Pilot Mound; Wallace, Brad & Joe	204-825-7246		F	
Plumas; Court, Randolph A. & Tracy L.	204-386-2354		F	
Plumas; Tonn, Todd	204-386-2206	S	F	
Portage; Sissons, Blye	204-857-7341	S	F	
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	S	F	
Rivers; Redsper Ent. Ltd.	204-328-5346		F	
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S	F	
Somerset; Sierens, Joseph & Chris	204-744-2883	S	F	
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208		F	
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	S	F	
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666	S		
Warren; Riddell, Craig Thomas	204-227-5679	S	F	
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290		F	
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	S	F	

AAC TISDALE⊕

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R	
Dauphin; Kaleta, James & Debra	204-638-7800	F	C

SPRING WHEAT

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Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849			C
Dufrost; Catellier, Roger & Richard	204-746-4175		R	
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805			C
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951			C
Holland; Patenaude, Donald & Robert	204-526-2391			C
Homewood; Froebe, Bruce D. & Murray	204-745-6655			C
Kenville; Carmichael, John A.	204-734-3913			C
Manitou; Sanders, Andre O., Daniel & Dylan	204-242-2576		R	
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268		R	
Notre Dame; Durand, Leo	204-248-2372	F	R	
Rivers; Redsper Ent. Ltd.	204-328-5346		R	C
Somerset; Sierens, Joseph & Chris	204-744-2883		R	
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208		R	
Swan River; Oberlin, George	204-734-2292			C
Treherne; Stinson, Gary Donald	204-723-2319			C
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290			C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658		R	

AAC VIEWFIELD⊕

Baldur; Desrochers, David Oscar	204-535-2090			C
Cromer; Bartel, Blair	204-662-4484			C
Cromer; Bartel, Bob	204-662-4580			C
Dauphin; Kaleta, James & Debra	204-638-7800		R	C
Decker; Murray, Donald H. & Ryan	204-764-2733	S	F	R
Domain; Johnson, David & Don	204-746-0275			C
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	S	F	R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849		R	

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Cereal Package 2 (Barley) - $207 (GST included)
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Malt Barley Marketing Package - $88 (GST Included)
Malt Germ, Protein, Plump Test, Vomitoxin

Germination - $25 (GST included)
Soil Germination - $35 (GST included)
Vigour - $38 (GST included)
Clubroot - $95 (GST included)
Disease - please call for more info
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SPRING WHEAT

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Elphinstone; Gerrard, Jody	204-759-2213		C
Fannystelle; Nadeau, Brian	204-436-2469		C
Grandview; Storey, R. Kip & Troy K.	204-638-2004		C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613	R	
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	R	C
Inglis; Beischer, Derrick	204-564-2676		C
Killarney; Hird, Steven	204-523-7464		C
Minto; Ayre, Andrew	204-776-2333		C
Newdale; Wareham, L.B. Shayne	204-849-2112		C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	F	R
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363		C
Plumas; Tonn, Todd	204-386-2206		C
Rivers; Redsper Ent. Ltd.	204-328-5346		C
Rosenort; Friesen, Lloyd	204-746-8198	R	
Russell; Keating, Mark	204-773-3854		C
Souris; Kohut, David Anton	204-483-3063		C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118	R	
Swan River; Alford, Wayne G.	204-734-2526		C

AAC WARMAN VB - AAC TISDALE

Russell; Keating, Mark	204-773-3854	R	

AAC WHEATLAND VB - AAC BRANDON

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	S	F
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S	F
Brandon; Wheat City Seeds Ltd.	204-727-3337		F
Decker; Murray, Donald H. & Ryan	204-764-2733	S	F
Elphinstone; Gerrard, Jody	204-759-2213	R	
Foxwarren; Falloon, Larry	204-683-2247		F

SPRING WHEAT

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Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012		F
Mather; Mc Lennan, Donald D.	204-529-2372		F
Minto; Fraser, A. Jay C.	204-776-7722	S	F
Minto; Fraser, Rick G.	204-776-2047	S	F
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	S	F
Russell; Keating, Mark	204-773-3854		F
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208		F
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290	S	F

ACCELERATE

Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666	R

BOLLES

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Dauphin; Fisher, Roderick Allan & Douglas James & Allison	204-622-8800	C
Glenboro; Jefferies, Ron & Cale	204-827-2102	C
Homewood; Froebe, Bruce D. & Murray	204-745-6655	
Inglis; Beischer, Derrick	204-564-2676	C
Lowe Farm; Sawatzky, Matt	204-746-2187	C
Mac Gregor; Hulme, Lorne	204-685-2627	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Portage; Pugh, William G. & Victoria	204-274-2179	C
Russell; Keating, Mark	204-773-3854	C
Solsgirth; Nickel, James D. & John H.& Kevin J. & J.Gordon	204-842-3757	C
Teulon; Willis, Lyle	204-886-2948	C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666	C

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Bergen Seed Farm	204-736-2278	Jeffries Seed Service	204-827-2102	RJP Seed	204-745-3304
Boissevain Select Seeds	204-534-6846	Lachance Seeds	204-353-2694	Rutherford Farms	204-467-5613
Catellier Seed Service	204-347-5588	LD Seeds	204-324-5798	R-Way Ag	866-398-9643
Clearview Acres	204-748-2666	Manness Seeds	204-736-2622	Seine River Seed Farm	204-355-4495
Court Seeds	204-386-2354	MB Seeds	204-746-4652	Southern Seed	204-776-2333
Durand Seeds	204-248-2268	Miller Agritec	204-267-2363	Timchishen Seeds	204-376-5116
Friesen Seeds	204-746-8325	New Gen Seed Service	204-274-2417	Unger Seed Farm	204-467-8630
Gerrard Family Seeds	204-365-0321	Pitura Seed Service	204-736-2849	Wheat City Seeds	204-727-3337
Hulme Agra Products	204-685-2627	Red River Seeds	204-746-4779	Wilson Seeds	204-246-2119

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CARDALE ♻

Glenora; Penner, Curtis	204-535-2100	S		
Homewood; Froebe, Bruce D. & Murray	204-745-6655			C
Lowe Farm; Sawatzky, Matt	204-746-2187		F	
Mac Gregor; Hulme, Lorne	204-685-2627		R	
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268			C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212		R	
Portage; Pugh, William G. & Victoria	204-274-2179			C
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290			C

CDC LANDMARK VB ♀ - AAC VIEWFIELD

Binscarth; Pizzey, Tim V.	204-683-2316		F	
Inglis; Beischer, Derrick	204-564-2676			C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012			C
Russell; Keating, Mark	204-773-3854			C
Somerset; Sierens, Joseph & Chris	204-744-2883			C
Swan River; Alford, Wayne G.	204-734-2526		R	

CDC PLENTIFUL ♻

Binscarth; Pizzey, Tim V.	204-683-2316			C
Killarney; Chatham, Don, Linda & Cody	204-523-8412			C

CDC SILEX

Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	S		

DAYBREAK

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	R	C
Dufrost; Catellier, Patrick Raymond	204-347-5503			C
Dufrost; Catellier, Roger & Richard	204-746-4175		R	
Lowe Farm; Sawatzky, Matt	204-746-2187			C
Morden; Wilson, James M.	204-246-2388		R	C
Morris; Dueck , Arthur	204-746-2026		R	
Pilot Mound; Wallace, Brad & Joe	204-825-7246			C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813		R	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630			C

ELLERSLIE ♀

Russell; Woroneski, Frank M.	204-773-3262		F	

FALLER

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622			C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849			C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613			C
Mac Gregor; Hulme, Lorne	204-685-2627			C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422			C
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212			C
Plum Coulee; Janzen, Ken & Ernie A.	204-829-7749			C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354			C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630			C

PROSPER ♀

Grosse Isle; Rutherford, Rick (Mb)	204-467-5613			C
Morris; Hamblin, David & Lorraine	204-746-4779			C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212			C
Solsgirth; Nickel, James D. & John H.& Kevin J. & J.Gordon	204-842-3757			C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658			C
Winnipeg; James, David G.	204-222-8785			C

SNOWSTAR ♻

Homewood; Froebe, Bruce D. & Murray	204-745-6655			
Killarney; Chatham, Don, Linda & Cody	204-523-8412			C

SY GABBRO ♀

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

SPRING WHEAT

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SY ROWYN ♀

Crandall; Doupe, Neil D.	204-562-3632			C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F	R
Elphinstone; Gerrard, Jody	204-759-2213			C
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			C
Rosenort; Friesen, Lloyd	204-746-8198			C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495			C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666			C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew 204-325-4658				C

SY TORACH ♀

Altona; Fuchsmeier, Joni	204-324-3859			R
Elphinstone; Gerrard, Jody	204-759-2213			R
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805			R
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613			R
Manitou; Sanders, Andre O., Daniel & Dylan	204-242-2576	S	F	R
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			R
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666			R

WINTER WHEAT

AAC ELEVATE ♀

Plumas; Tonn, Todd	204-386-2206			C

AAC GATEWAY ♻

Dauphin; Kaleta, James & Debra	204-638-7800			R
Lowe Farm; Sawatzky, Matt	204-746-2187			R

EMERSON ♻

Dauphin; Kaleta, James & Debra	204-638-7800			R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849			C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495			C

SPRING RYE

GAZELLE

Morris; Hamblin, David & Lorraine	204-746-4779	S	F	

WINTER RYE

DANKO

Hamiota; Knight, Ronald M. & Jeff	204-764-2450		R	C
Souris; Kohut, David Anton	204-483-3063		R	

HAZLET

Brandon; Wheat City Seeds Ltd.	204-727-3337			C
Carman; Park, Robert J.	204-745-3304			C
Dauphin; Durston, Scott L.	204-638-5569		F	C
Holland; Patenaude, Donald & Robert	204-526-2391		R	C
Notre Dame; Durand, Leo	204-248-2372			C
St. Claude; Rouire, Roland & Guy	204-379-2582			C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	S		R

TRITICALE

AAC DELIGHT ♀

Stonewall; Gendzelevich, Ron & Carol	204-467-8877			R

ELEVATOR

Elm Creek; Runne, James Armin	204-436-3321			R

Oilseed Crops

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, actual number of days will depend on local climatic 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 2019 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.

Soybean Comments

For specific notes regarding the soybean tables, refer to the SOYBEAN COMMENTS at the top of page 54.

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CANOLA

Comments:

Variety decriptions summarize the performance of varieties tested in the 2019 Canola Performance Trials (CPT). Data provided by the CPT Committee. For more information visit www.canolaperformancetrials.ca.

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

Clubroot is a long-lived disease in the soil that can impact canola performance.Using clubroot resistant varietes in Rural Municipalities where clubroot has been found is highly recommended as a risk mitigation tool. To know for sure if your own fields have clubroot, soil testing is the only way to find out, prior to finding galls in the fields. See page 51 for the map indicating clubroot distribution in Manitoba.

Variety Description

		LONG Season Zone (6 trials)				MID Season Zone (5 trials)				
Distributor	Name	Yield (%L252)	Maturity (Days)	Lodging (1-5)	Height (inches)	Yield (%L252)	Maturity (Days)	Lodging (1-5)	Height (inches)	Disease[1] Tolerance
	Clearfield									
Pioneer Hi-Bred	46H75	96	93	1	49	—	—	—	—	BL
CANTERRA SEEDS	CS2500 CL	88	90	1	48	—	—	—	—	BL
	LSD (%)	***14***				—	—	—	—	
	Liberty Link									
BASF - InVigor	L230	90	91	1	47	96	101	2	50	BL
BASF - InVigor	L241C	91	94	1	49	95	103	1	51	BL/CR
BASF - InVigor	L252	100	95	1	48	100	104	2	52	BL
Pioneer Hi-Bred	P501L	92	93	1	48	97	102	2	51	BL/CR
	LSD (%)	***11***				***11***				
	Roundup Ready									
Pioneer Hi-Bred	45CM39	102	102	2	47	92	103	2	49	BL/CR
Pioneer Hi-Bred	45H33	89	89	1	49	88	103	2	54	BL
Pioneer Hi-Bred	45M35	100	100	2	48	95	103	2	53	
BrettYoung	6076 CR	95	94	1	50	93	105	2	55	BL/CR/S
BrettYoung	6090 RR	98	95	1	51	90	104	2	56	BL/CR
DEKALB	74-44 BL	89	91	1	43	83	101	2	48	BL
DEKALB	75-42 CR	93	92	1	62	84	101	2	50	BL/CR
DEKALB	75-65 RR	91	92	2	46	89	102	2	50	BL
WinField United Canada	CP20R3C	94	95	2	50	92	106	2	54	BL/CR
CANTERRA SEEDS	CS2300	99	97	1	51	91	106	2	56	BL
BREVANT seeds	D3155C	95	94	2	50	90	103	2	55	BL
Nutrien Ag Solutions	PV 540 G	100	95	1	49	88	105	2	53	BL
Nutrien Ag Solutions	PV 581 GC	98	95	2	49	92	105	2	55	BL/CR
	LSD (%)	***11***				***11***				
	TruFlex									
BrettYoung	BY 6207TF	93	100	1	51	96	108	1	57	BL/CR
CANTERRA SEEDS	CS 2600 CR-T	97	91	1	46	91	102	2	50	BL/CR
	LSD (%)	***13***				***21***				
CHECK MEAN L252 (bu/ac)		53				70				

* 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.

Data presented is based on harvest data received as of October 31, 2019.

CANOLA *(continued)*

Yield Comparisons

		2019 Yield (% L252)														
		LONG SEASON ZONE						MID SEASON ZONE								
Distributor	**Name**	**Elm Creek, MB**	**High Bluff, MB**	**Justice, MB**	**Lethbridge, AB (Irrigated)**	**Melita, MB**	**Redvers, SK**	**Dauphin, MB**	**Josephburg, AB**	**Killam, AB**	**Leduc, AB**	**Melfort, SK**	**North Battleford, SK**	**St. Paul, AB**	**Vegreville, SK**	**Veregin, SK**
	Clearfield															
Pioneer Hi-Bred	46H75	92	90	105	—	97	—	98	9	9	—	9	—	9	—	—
CANTERRA SEEDS	CS2500CL	78	85	95	—	96	—	91	9	9	—	9	—	9	—	—
	LSD (%)	***15***	***10***	***20***	***—***	***10***	***—***	***14***	***9***	***9***	***—***	***9***	***—***	***9***	***—***	***—***
	Liberty Link															
BASF - InVigor	L230	87	94	82	86	95	96	98	9	9	91	9	88	9	112	92
BASF - InVigor	L241C	85	94	85	98	93	89	89	9	9	80	9	93	9	122	94
BASF - InVigor	L252	100	100	100	100	100	100	100	9	9	100	9	100	9	100	100
Pioneer Hi-Bred	P501L	85	84	97	95	101	88	101	9	9	90	9	89	9	109	94
	LSD (%)	***10***	***10***	***6***	***21***	***10***	***10***	***8***	***9***	***9***	***11***	***9***	***13***	***9***	***17***	***7***
	Roundup Ready															
Pioneer Hi-Bred	45CM39	89	92	116	111	108	97	89	9	9	79	9	88	9	108	96
Pioneer Hi-Bred	45H33	76	90	94	97	87	90	72	9	9	82	9	89	9	104	96
Pioneer Hi-Bred	45M35	93	93	111	103	104	97	99	9	9	77	9	89	9	117	96
BrettYoung	6076 CR	87	87	95	103	103	93	86	9	9	77	9	87	9	119	95
BrettYoung	6090 RR	94	95	103	111	97	90	85	9	9	83	9	85	9	103	94
DEKALB	74-44 BL	79	88	94	92	95	84	67	9	9	77	9	81	9	99	92
DEKALB	75-42 CR	84	87	106	88	101	93	77	9	9	66	9	89	9	98	90
DEKALB	75-65 RR	85	82	109	92	100	78	83	9	9	79	9	88	9	105	90
WinField United Canada	CP20R3C	82	93	92	108	107	87	89	9	9	75	9	87	9	116	98
CANTERRA SEEDS	CS2300	93	94	99	111	105	92	91	9	9	74	9	82	9	114	94
BREVANT seeds	D3155C	88	94	95	99	99	95	84	9	9	82	9	90	9	94	99
DL Seeds	DL171680 RR	91	92	101	89	102	89	97	9	9	77	9	93	9	97	99
Nutrien Ag Solutions	PV 540 G	89	94	105	120	99	94	77	9	9	74	9	83	9	108	96
Nutrien Ag Solutions	PV 581 GC	87	96	111	99	100	93	82	9	9	83	9	86	9	110	98
	LSD (%)	***8***	***9***	***15***	***12***	***10***	***10***	***10***	***9***	***9***	***13***	***9***	***9***	***9***	***15***	***7***
	TruFlex															
BrettYoung	BY 6207TF	86	93	90	92	102	96	92	9	9	88	9	87	9	118	96
CANTERRA SEEDS	CS 2600 CR-T	92	91	106	91	101	102	98	9	9	82	9	86	9	97	94
	LSD (%)	***14***	***16***	***13***	***8***	***6***	***20***	***10***	***9***	***9***	***32***	***9***	***8***	***9***	***40***	***12***
CHECK MEAN L252 (bu/ac)		63	62	34	62	51	43	56	9	9	88	9	56	9	73	73
GRAND MEAN (bu/ac)		55	57	34	61	51	40	50	9	9	71	9	49	9	79	70
CV%		9.0	6.2	11.4	10.1	7.9	11.0	8.2	9.0	9.0	12.3	9.0	8.1	9.0	11.6	4.9

* Visit www.canolaperformancetrials.ca for more details.
Data presented is based on harvest data received as of October 31, 2019.

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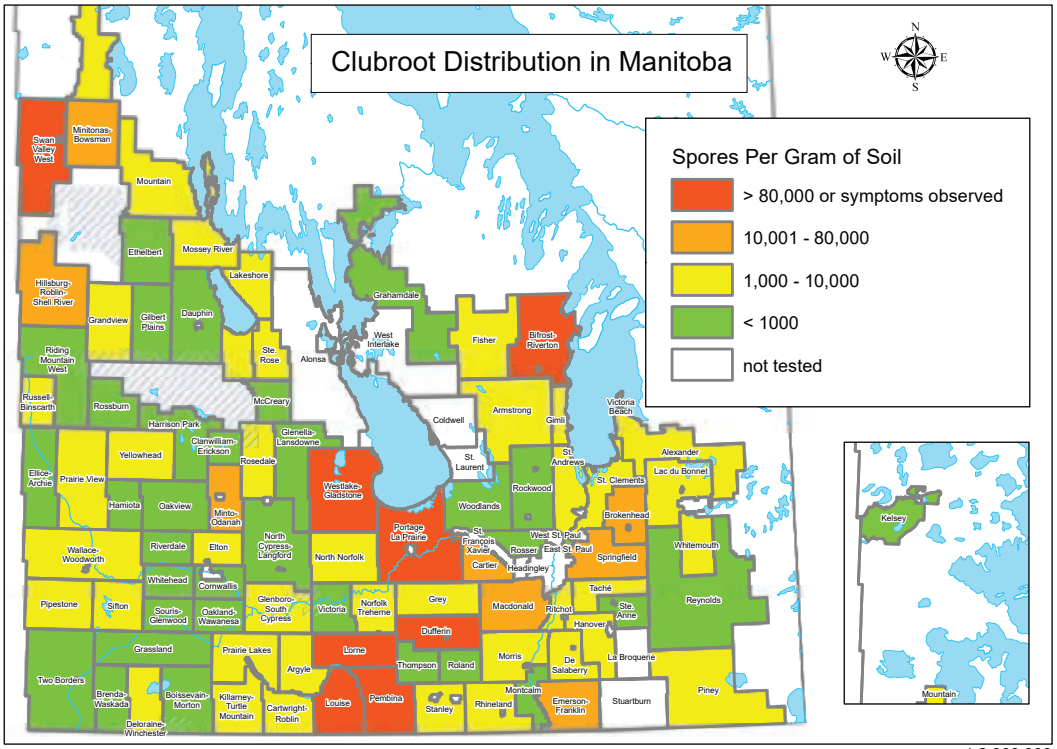
CLUBROOT RESISTANT CANOLA VARIETY LISTING

Company	Hybrid	Herbicide Tolerance[1]	Clubroot Resistance: Resistance Rating	Clubroot Resistance: Resistance Generation[2]	Blackleg Resistance	Pod Shatter Tolerance
BASF - InVigor	L241C	LL	R	1	R	
BASF - InVigor	L234PC	LL	R	2	R	Yes
BASF - InVigor	L255PC	LL	R	1	R	Yes
BASF - InVigor	L258HPC	LL	R	1	R	Yes
BASF - InVigor	LR344PC	LL/TF	R	1	R	Yes
BASF - InVigor	L345PC	LL	R	1	R	Yes
BASF - InVigor	L352C	LL	R	1	R	
BrettYoung	4187 RR	RR	R	1	R	
BrettYoung	6076 CR	RR	R	2	R	
BrettYoung	6090 CR	RR	R	1	R	Yes
BrettYoung	BY 5105 CL	CL	R	1	R	
BrettYoung	BY 6204TF	TF	R	1	R	
BrettYoung	BY 6207TF	TF	R	2	R	
BREVANT seeds	1024 RR	RR	R	1	R	
BREVANT seeds	1026 RR	RR	R	1	R	
BREVANT seeds	1028 RR	RR	R	1	R	
BREVANT seeds	2028 CL	CL	R	1	R	
BREVANT seeds	B3010M	LL	R	2	R	Yes
BREVANT seeds	B3011	LL	R	1	R	
BREVANT seeds	D3155C	RR	R	1		
Cargill - VICTORY	V12-3	RR	R	1	R	
Cargill - VICTORY	V14-1	RR	R	1	R	
Cargill - VICTORY	V24-1	RR	R	1	R	
Cargill - VICTORY	V25-1T	TF	R	1	R	
CANTERRA SEEDS	CS2000	RR	R	1	R	
CANTERRA SEEDS	CS2600 CR-T	TF	R	2	R	Yes
DEKALB	75-42 CR	RR	R	1	R	
DEKALB	DKTF 94 CR	TF	R	1	R	
DEKALB	DKTF 98 CR	TF	R	1	R	
Pioneer Hi-Bred	45CM39	RR	R	2	R	Yes
Pioneer Hi-Bred	45CS40	RR	R	1	R	
Pioneer Hi-Bred	45H33	RR	R	1	R	
Pioneer Hi-Bred	45H37	RR	R	1	R	
Pioneer Hi-Bred	P501L	LL	R	1	R	
Nutrien Ag Solutions	PV 580 GC	RR	R	1	R	
Nutrien Ag Solutions	PV 581 GC	RR	R	1	R	
Nutrien Ag Solutions	PV 585 GC	RR	R	1	R	
Nutrien Ag Solutions	PV 591 GCS	RR	R	1	R	
Nutrien Ag Solutions	PV 680 LC	LL	R	1	R	
Nutrien Ag Solutions	PV 780 TC	TF	R	1	R	
WinField United Canada	CP19R1C	RR	R	1	R	
WinField United Canada	CP20R3C	RR	R	2	R	

1 Herbicide tolerance trait, LL = Liberty Link, RR = Roundup Ready, TF = TruFlex Roundup Ready, CL = Clearfield Herbicide System
2 Second-generation clubroot genetic resistance may demonstrate an enhanced resistance to certain clubroot pathotypes.



Author: Les Mitchell
Date: October 28, 2019
Source: MB Ag Analysis (2009-2019)

1:2,300,000
0 25 50 100 Kilometers

FLAX

New for 2020

Variety	Code	Breeder	Distributor	Seed Availability
AAC Marvelous	FP2401	AAFC - Morden	FP Genetics	2020
CDC Rowland	FP2513	Crop Development Centre	SeCan	2022

Comments:

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

All varieties are immune to rust.

All varieties are susceptible to pasmo.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Maturity +/- 102 days	Height +/- 27 inches	Seed Color	Seed Size TSW	Oil Content	Oil Quality[1]: Iodine Number	Oil Quality[1]: ALA Content	Resistance Level: Lodging	Resistance Level: Fusarium Wilt
AAC Bravo	30	33	1	0	brown	6.4	44.6	194.0	60.2	G	MR
AAC Bright	6	33	2	0	yellow	5.6	48.8	192.1	56.2	G	MR
AAC Marvelous	11	35	2	0	brown	5.8	47.1	192.1	55.8	G	MR
AAC Prairie Sunshine	13	34	3	1	brown	5.3	47.7	192.5	56.5	VG	MR
CDC Bethune	129	34	0	0	brown	5.8	45.6	188.6	54.7	G	MR
CDC Buryu	18	33	1	1	brown	5.9	45.3	189.9	54.6	G	MR
CDC Dorado	6	33	-1	2	yellow	5.9	46.6	206.6	65.8	FG	MR
CDC Glas	24	35	1	1	brown	5.2	45.8	192.0	56.6	G	MR
CDC Neela	24	34	1	1	brown	5.7	45.5	194.4	59.1	G	MR
CDC Plava	21	34	-2	-1	brown	5.7	46.5	195.5	57.2	G	MR
CDC Rowland	11	35	4	0	brown	6.8	45.2	195.1	59.2	G	MR
CDC Sanctuary	27	35	3	1	brown	5.8	45.6	190.7	57.2	G	MR
CDC Sorrel	56	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
Prairie Sapphire	35	35	2	-1	brown	5.8	48.1	193.1	57.2	G	MR
Topaz	12	33	0	0	brown	5.8	45.9	188.2	54.4	G	MR
VT50	20	33	4	-2	yellow	5.1	47.1	209.4	67.6	VG	MR
WestLin 60	13	32	-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	21	33	3	-1	brown	5.4	47.0	192.8	57.0	VG	MR
GRAND MEAN (bu/ac)		34									
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 number which is calculated from the fatty acid composition of the seed. A higher iodine number 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	2019 Yield (bu/acre) Arborg	Boissevain	Roblin	Stonewall
AAC Bravo	32	37	42	21
AAC Bright	31	32	42	25
AAC Marvelous	36	41	41	25
AAC Prairie Sunshine	32	44	41	25
CDC Bethune	30	40	43	22
CDC Buryu	34	38	42	23
CDC Dorado	30	38	36	23
CDC Plava	29	42	39	22
CDC Rowland	35	41	45	25
VT50	30	—	38	22
WestLin 72	26	38	41	23
SITE GRAND MEAN (bu/ac)	31	39	41	23
CV%	5.1	10.3	6.0	5.1
LSD (bu/ac)	3	—	4	2
Sign Diff	Yes	No	Yes	Yes
Seeding Date	15-May	16-May	21-May	17-May
Harvest Date	17-Sep	17-Sep	24-Sep	06-Sep

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- AC Domain
- Muchmore
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SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

Maturity Notes:

1 Soybean varieties have been organized into 4 maturity zones - very early, early, mid and long season areas.

2 Maturity grouping is a ranking of maturity provided by seed suppliers. Rankings are assigned to assist growers in selecting varieties suited for their area.

3 Relative days to maturity is the number of days from seeding to plant maturity (95% of the pods on plant are mature with seeds rattling in the pods when plant is shaken). Expressed as + or - days from the check. Caution needed when using only one year data to evaluate maturity and yield. Using multiple years will provide a better indication on how a variety will mature with different growing seasons. Actual days to maturity for the check is found in the grey characteristics check box at the bottom of the table.

General Notes:

1 Roundup Ready and Conventional soybean varieties are evaluated separately, meaning direct comparison of varieties between different tables is not possible. All trials are solid seeded at 210,000 seeds/acre.

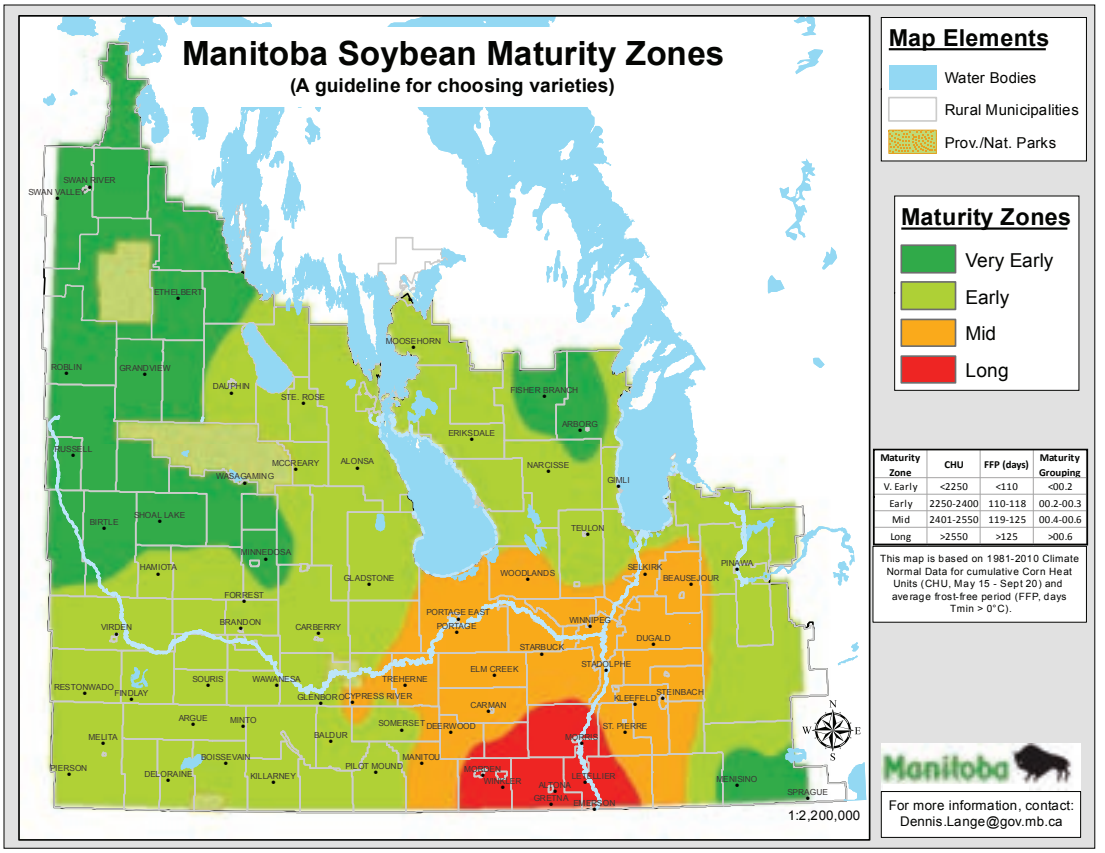
2 Hilum colour can range from Yellow (Y), Imperfect Yellow (IY), Grey (G), Brown (BR), Buff (BF), Tan(TN), Clear (CL), Impefect Black (IB) or Black (BL) and is solely a marketing issue. The hilum is the point on the soybean seed where it attaches to the pod.

3 Iron Deficiency Chlorosis (IDC) rating scores 1=green leaves, 2=yellowish leaves, 3=green veins with yellow leaves, 4=brown dead tissue between green veins, 5=severe chlorosis and a stunted growing point. Ratings were taken from a site prone to iron chlorosis over the last 3 years. IDC tolerant varieties are varieties with lower IDC Scores and perform better on soils prone to iron deficiency.

4 Iron Deficiency Chlorosis (IDC) grouping is used because varieties will have different visual rating scores from year to year. Numerical ratings which are close but are in different groupings will show similar symptoms. Both numerical ratings and groupings should be considered together when judging IDC. Tolerant=leaves stayed green, Semi Tolerant=leaves turn yellow then turn green, Susceptible= leaves went chlorotic and had dead patches on their leaves and were often stunted.

MANITOBA SOYBEAN MATURITY MAP

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



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WESTERN MANITOBA HERBICIDE-TOLERANT SOYBEANS

Comments:

The Western Manitoba Herbicide-Tolerant Soybean Variety trial data provided by the Manitoba Pulse & Soybean Growers

Variety Descriptions

Maturity Zone	Company Maturity Group	Variety	Yield % Check	Site Years Tested	Maturity (days) +/- Check[1]	IDC[2] Rating/Group	Resistance SCN[3]	Resistance PRR[4]	2019 Yield % of NSC Reston RR2Y Hamiota	2019 Yield % of NSC Reston RR2Y Melita
Very Early Season Zone	000.5	Amirani R2	87	2	-7	1.9 / ST	—	—	85	89
	000.7	B00071RX	79	2	-6	1.7 / T	—	1k	74	87
	000.6	NSC Leroy RR2Y	83	17	-6	2.2 / ST	—	—	79	77
	000.4	Varuna R2Ω	81	2	-5	1.9 / ST	—	—	84	77
	000.7	S0007-B7X	89	2	-4	1.7 / T	—	1c	84	95
	000.7	CP00719RX	80	2	-4	2.0 / ST	—	—	78	81
	000.8	NSC Watson RR2Y	96	22	-3	2.1 / ST	—	6	75	94
	000.5	NocomaR2Ω	95	12	-3	2.0 / ST	—	1c	88	84
	000.9	S0009-M2	99	22	-2	2.0 / ST	—	6	97	96
Early Season Zone	000.7	Fresco R2X	86	2	-1	2.2 / ST	—	1a	88	83
	000.5	TH890005 R2XN	85	7	0	1.8 / ST	Yes	1c,1k	87	95
	000.7	PS 00078 XRN	93	7	0	1.9 / ST	Yes	1c	93	88
	00.1	NSC Reston RR2Y	100	32	0	2.4 / S	—	1k	100	100
	00.1	PV 11s001 RR2	90	12	1	1.9 / ST	—	1c	85	90
	000.5	DKB0005-44	92	7	1	1.9 / ST	Yes	1c	95	93
	00.1	LS 001E020	81	2	2	1.7 / T	—	—	80	82
	00.3	S003-Z4X	104	2	2	1.8 / ST	—	1c	101	108
	00.1	Torro R2	97	12	2	2.2 / ST	—	—	92	92
	000.7	Karpo R2	105	2	2	2.2 / ST	—	—	103	109
	000.2	Notus R2	99	16	2	1.6 / T	—	1c	93	106
	000.8	LS TRI8XT	93	7	2	1.9 / ST	Yes	1c	86	86
	00.4	TH89004 R2X	100	2	2	1.8 / ST	—	1c	97	104
	000.9	RX000918	95	7	2	1.7 / T	Yes	1c	91	99
	00.3	RX Cedo	97	7	3	1.9 / ST	—	—	85	90
	00.6	Renuka R2X	102	2	3	1.7 / T	—	1c	99	107
	000.9	Fisher R2X	89	2	3	1.8 / ST	Yes	1k	84	95
	00.3	DKB003-29	98	11	3	1.7 / T	Yes	—	93	100
	00.1	P001A48X	98	2	3	1.7 / T	—	1c	92	105
	00.5	S006-W5	104	16	3	2.5 / S	—	1a,3a	93	103
	00.2	Devo R2X	89	2	3	1.8 / ST	—	—	92	86
	00.5	P005A83X	103	2	3	1.8 / ST	Yes	1c	97	110
	00.1	LS 001XT	100	7	3	1.7 / T	Yes	1k	87	95
	000.9	PV 15s0009 R2X	98	6	3	2.0 / ST	Yes	1c	88	97
	00.3	McLeod R2	104	31	3	1.8 / ST	—	—	91	106
	00.3	P003A97X	100	2	4	1.9 / ST	Yes	1k	93	109
	00.5	S007-Y4	108	26	4	2.0 ST	—	1c	100	117
	00.3	Dinero R2X	89	2	4	1.7 / T	—	—	81	100
	00.4	TH 32004R2Y	108	22	4	1.7 / T	—	1c	104	109
	00.3	Mahony R2	106	25	4	2.9 / S	—	—	100	111
	00.3	TH 87003 R2X	103	13	4	1.7 / T	Yes	1c	84	100
	00.1	Sunna R2X	100	6	4	1.7 / T	Yes	1c	90	102
	00.5	P005A27X	104	7	4	1.8 / ST	—	1c	91	108
	00.1	Prince R2X	93	6	4	1.7 / T	—	1k	81	112
Mid Season Zone	00.2	LS Solaire	102	16	5	2.3 / S	Yes	1c,1k	78	101
	00.3	NSC Newton RR2X	89	11	5	2.0 / ST	—	—	82	91
	00.7	P007A90RΩ	95	2	5	1.7 / T	Yes	1c	85	109
	00.3	PS 0044 XRN	99	12	5	1.8 / ST	Yes	1a,1k	97	102
	000.9	Akras R2	107	26	5	1.7 / T	—	1c	102	112
	00.3	B0030L1	97	2	5	1.9 / ST	—	—	90	107
	00.2	NSC Redvers RR2X	91	6	5	1.9 / ST	Yes	1c	86	110
	000.9	DKB0009-89	97	7	6	1.7 / T	Yes	1c,1k	93	97
	00.6	S006-M4X	99	2	6	1.9 / ST	—	1c	98	101
	00.6	P006A37X	110	6	6	1.8 / ST	—	1c	94	119
	00.5	Foote R2	101	11	6	1.8 / ST	—	1c	91	109
	00.6	RX Acron	95	2	6	1.8 / ST	Yes	—	89	102
	00.5	Kudo R2X	102	2	6	1.6 / T	—	—	98	107
	00.4	Bourke R2X	101	2	6	1.8 / ST	—	1k	97	106
	00.4	PV 16s004 R2X	100	6	8	1.9 / ST	Yes	1k	89	120
	00.4	CP00419RX	100	2	8	1.9 / ST	Yes	1k	89	115
	00.5	PV 10s005 RR2	104	11	9	1.9 / ST	—	—	64	111
	00.4	B0040L1	91	2	9	1.7 / T	—	—	81	104
	00.5	CP00519RX	93	2	9	1.8 / ST	Yes	1k	82	109

Maturity Zone	Company Maturity Group	Variety	Yield % Check	Site Years Tested	Maturity (days) +/- Check[1]	IDC[2] Rating Rating/Group	Resistance SCN[3]	Resistance PRR[4]	2019 Yield % of NSC Reston RR2Y Hamiota	2019 Yield % of NSC Reston RR2Y Melita
Experimental lines that are being tested / proposed for registration in Canada										
	000.5	NSC EXP0005X	86	2	-2	2.0 / ST	—	1a	84	88
	000.9	PV 19-S1	93	2	-1	1.9 / ST	—	6	96	87
	00.3	NSC EXP002E	78	2	3	2.0 / ST	—	—	77	79
	000.9	SVX0009X95	96	2	4	1.9 / ST	—	—	95	98
	00.6	PV 19-S2	92	2	5	2.0 / ST	Yes	1c	79	109
	00.5	EXP005B	107	2	6	2.0 / ST	Yes	1k	94	125
CHECK CHARACTERISTICS										
		NSC Reston RR2Y	51 bu/ac	32 site years	119 days	**NSC Reston RR2Y** (bu/ac)			51	38
						CV%			6.4	6.1
						LSD%			9	10
						Sign Diff.			Yes	Yes
						Seeding Date			16-May	13-May
						Harvest Date			17-Oct	25-Sep

1 Relative days to maturity based on multiple year average.
2 Iron Deficiency Chlorosis (IDC) Group; T=Tolerant, ST=Semi-Tolerant, S=Suceptible
3 SCN -Soybean Cyst Nematode Resistance
4 PRR-Phytophthora Resistant Genes

EASTERN MANITOBA CONVENTIONAL SOYBEANS

Comments:

The Conventional Soybean variety trial data was provided by Manitoba Pulse & Soybean Growers

Variety Descriptions

Maturity Zone	Company Maturity Group	Variety	Yield % Check	Site Years Tested	Maturity (days)[1] +/- of Check	Hilum Colour	IDC[2] Rating/Group
	000.3	AAC Dale	112	15	-3	Y	2.3 / S
Early	000.9	AAC Halli	101	30	-3	Y	2.1 / ST
Season	000.6	Siberia	112	2	-2	IY	2.0 / ST
Zone	**Experimental lines that are being tested / proposed for registration in Canada**						
	00.2	SVX17T000S1	98	11	-9	IY	2.1 / ST
	000.2	OT 16-01	108	15	-4	Y	1.7 / T
	00.2	OT 18-09	114	2	-2	Y	1.9 / ST
	00.3	Maxus	99	13	0	IY	2.1 / ST
	00.3	OAC Prudence	100	127	0	Y	1.6 / T
	00.5	OAC Morden	107	37	4	Y	2.0 / ST
	00.6	AAC Mandor	110	37	5	Y	2.2 / ST
	00.0	Kebek	99	8	5	Y	1.8 / ST
	00.8	DH401	98	8	6	IY	2.3 / S
	00.9	DH863	96	20	6	IY	2.3 / S
Mid	00.8	Meteor	101	8	6	IY	2.3 / S
Season	00.6	Opus	104	13	6	IY	2.2 / ST
Zone	**Experimental lines that are being tested / proposed for registration in Canada**						
	00.5	SVX17T00S15	112	8	-1	IY	2.3 / S
	00.2	SVX19T00S1	90	2	-1	IY	2.1 / ST
	00.7	SVX17T0S12	113	8	1	IY	1.9 / ST
	00.0	SC10-11.97	110	8	2	Y	2.0 / ST
	00.2	PR110196Z012	138	1	3	IY	2.3 / S
	00.6	OT 16-06	122	13	4	Y	2.4 / S
	00.5	DL 18.3001	103	2	4	BL	2.2 / ST
	000.8	PR110187Z017	117	1	6	IY	2.5 / S
	00.7	SEMS 14-142	132	1	6	Y	1.9 / ST
	00.8	OT 18-01	123	7	6	Y	2.0 / ST
	00.9	SVX17T0S15	109	2	6	IY	2.0 / ST
	00.7	SEMS 14-640	123	1	6	IY	2.3 / S
	000	SVX20T000S2	92	2	6	IY	2.3 / S
	00.5	Bennie	119	1	7	IY	2.1 / ST
	00.9	Jari	108	23	7	IY	2.0 / ST
	0.3	Astor	119	7	12	Y	2.0 / ST
Long	0.3	Panorama	115	7	14	Y	1.9 / ST
Season	**Experimental lines that are being tested / proposed for registration in Canada**						
Zone	00.0	PR110212Z046	126	1	7	IY	2.4 / S
	00.0	SC10-13.70	113	1	8	Y	2.0 / ST
	00.9	OT 18-14	136	7	8	Y	2.0 / ST
	0.1	SVX17T00S23	144	1	8	IY	2.0 / ST
	00.8	OT 18-12	124	7	8	Y	2.2 / ST
	00.0	SC11-70.B33	95	2	9	IY	2.3 / S
	00.0	SVX19T00S3	86	2	9	IY	2.1 / ST
	0.4	DL18.3005	156	1	10	BF	2.3 / S
	0.3	DL18.3004	134	1	11	CL	2.3 / S
	00.8	OT19-01	153	1	12	Y	2.0 / ST
	0.1	SVX20T0S11	121	1	17	IY	1.7 / T
CHECK CHARACTERISTICS							
OAC Prudence			48 bu/acre	127 site years	115 Days to maturity		

1 Maturity Ratings for 2019 are averaged across Carman, Morris, St. Adolphe
2 Iron Deficiency Chlorosis (IDC) Group; T=Tolerant, ST=Semi-Tolerant, S=Suceptible

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EASTERN MANITOBA CONVENTIONAL SOYBEANS

Yield Comparisons

Maturity Zone	Variety	2019 Yield % of OAC Prudence: Early Sites Arborg	2019 Yield % of OAC Prudence: Core Sites Carman
Early Season Zone	AAC Dale	109	115
	AAC Halli(Ω)	103	97
	Siberia	113	110
	Experimental lines that are being tested / proposed for registration in Canada		
	SVX17T000S1	111	104
	OT 16-01	98	116
	OT 18-09	109	119
Mid Season Zone	Maxus	—	117
	OAC Prudence	100	100
	OAC Morden(Ω)	—	128
	AAC Mandor	131	120
	Kebek	83	115
	DH401	76	119
	DH863	—	114
	Meteor	95	109
	Opus	—	107
	Experimental lines that are being tested / proposed for registration in Canada		
	SVX17T00S15	100	109
	SVX19T00S1	80	102
	SVX17T0S12	98	116
	SC10-11.97	92	119
	PR110196Z012	—	138
	OT 16-06	—	125
	DL 18.3001	106	100
	PR110187Z017	—	117
	SEMS 14-142	—	132
	OT 18-01	—	127
	SVX17T0S15	92	130
	SEMS 14-640	—	123
	SVX20T000S2	87	98
Long Season Zone	Bennie	—	119
	Jari	—	120
	Astor	—	139
	Panorama	—	127
	Experimental lines that are being tested / proposed for registration in Canada		
	PR110212Z046	—	126
	SC10-13.70	—	113
	OT 18-14	—	144
	SVX17T00S23	—	144
	OT 18-12	—	140
	SC11-70.B33	83	110
	SVX19T00S3	54	125
	DL18.3005	—	156
	DL18.3004	—	134
	OT19-01	—	153
	SVX20T0S11	—	121
Check Characteristics	**OAC Prudence** (bu/acre)	29	36
	CV%	11.4	7.5
	LSD%	18	15
	Sign Diff.	Yes	Yes
	Seeding Date	21-May	23-May
	Harvest Date	08-Oct	08-Oct

WESTERN MANITOBA CONVENTIONAL SOYBEAN

Comments:

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

Variety Descriptions

Maturity Zone	Variety	Yield % Check	Site Years Tested	Hilum Colour	Maturity (days)[1] + / - of Check		2019 Yield % OAC Prudence Melita	2019 Yield % OAC Prudence Swan RIver
Early-Mid Season	AAC Edward	89	2	IY	-6		98	79
	AAC Halli	93	2	Y	-2		94	91
	OAC Prudence	100	7	Y	0		100	100
	AAC Dale	106	2	Y	0		100	112
	Siberia	98	2	IY	0		102	94
	Maxus	92	4	IY	2		98	84
Zone	**Experimental lines that are being tested / proposed for registration in Canada**							
	PR110187Z017	105	2	IY	3		111	98
	PR110212Z046	104	2	IY	6*		109	98
CHECK CHARACTERISTICS						**OAC Prudence** (bu/ac)	39	31
	OAC Prudence (bu/ac)	36 bu/acre	7 site years		118 days	CV%	5.1	8.2
						LSD%	9	14
						Sign Diff	Yes	Yes
						Seeding Date	13-May	24-May
						Harvest Date	25-Sep	11-Oct

1 Maturity Rating locations - Melita and Swan River. Actual maturity will depend on seasonal growing conditions.
* Did not fully mature in Swan River

EASTERN MANITOBA HERBICIDE-TOLERANT SOYBEANS

Variety Descriptions

Maturity Zone	Company Maturity Group	Variety	Type[1]	Yield % Check	Site Years Tested	Maturity (days)[2] +/- of Check	Hilum Colour	IDC[3] Rating/Group	Resistance SCN[4]	Resistance PRR[5]
Very Early Season Zone	000.8	LS TRI8XT	R2X	86	2	-10	BL	1.9 / ST	Yes	1c
	000.5	NocomaR2Ω	R2Y	94	12	-9	BL	2.0 / ST	—	1c
	000.9	S0009-M2	R2Y	89	12	-9	IY	2.0 / ST	—	6
	00.4	TH89004 R2X	R2X	94	2	-8	BR	1.8 / ST	—	1c
	000.7	PS 00078 XRN	R2X	95	8	-7	BL	1.9 / ST	Yes	1c
	00.2	Devo R2X	R2X	94	8	-6	BR	1.8 / ST	—	—
	000.9	RX000918	R2X	103	2	-6	BL	1.7 / T	Yes	1c
Early Season Zone	00.1	P001A48X	R2X	99	2	-5	TN	1.7 / T	—	1c
	00.1	PV 11s001 RR2	R2Y	90	12	-5	Y	1.9 / ST	—	1c
	000.7	Karpo R2	R2Y	104	2	-5	GR	2.2 / ST	—	—
	00.2	RX00218	R2X	89	8	-5	BR	1.9 / ST	—	—
	000.2	Notus R2	R2Y	103	8	-5	BL	1.6 / T	—	1c
	00.3	P003A97X	R2X	99	2	-5	GR	1.9 / ST	Yes	1k
	00.1	Torro R2	R2Y	100	12	-5	BL	2.2 / ST	—	—
	00.2	NSC Redvers RR2X	R2X	97	2	-4	BL	1.9 / ST	Yes	1c
	000.9	PV 15s0009 R2X	R2X	99	8	-4	BL	2.0 / ST	Yes	1c
	00.4	NSC Culross RR2X	R2X	98	2	-3	BL	1.7 / T	—	1c
	00.1	LS 001XT	R2X	105	8	-3	BL	1.7 / T	Yes	1k
	00.5	Lono R2Ω	R2Y	107	8	-3	Y	2.0 / ST	—	1c
Mid Season Zone	00.3	Dinero R2X	R2X	97	8	-2	IY	1.7 / T	—	—
	00.4	TH 32004R2Y	R2Y	102	2	-2	BL	1.7 / T	—	1c
	00.1	Prince R2X	R2X	94	8	-2	BL	1.7 / T	—	1k
	00.6	S006-M4X	R2X	98	8	-2	IY	1.9 / ST	—	1c
	00.5	S007-Y4	R2Y	103	12	-2	IY	2.0 ST	—	1c
	00.5	P005A83X	R2X	104	2	-1	BL	1.8 / ST	Yes	1c
	00.5	S006-W5	R2X	96	12	-1	IY	2.5 / S	—	1a,3a
	00.3	Mahony R2	R2Y	99	12	-1	BL	2.9 / S	—	—
	000.9	Akras R2	R2Y	107	12	-1	BL	1.7 / T	—	1c
	00.3	B0030L1	R2Y	93	2	-1	BR	1.9 / ST	—	—
	00.5	P005A27X	R2X	106	8	-1	BR	1.8 / ST	—	1c
	00.1	Sunna R2X	R2X	104	8	0	GR	1.7 / T	Yes	1c
	00.7	P007A90RΩ	RR1	100	13	0	BL	1.7 / T	Yes	1c
	00.4	Bourke R2X	R2X	106	8	0	BL	1.8 / ST	—	1k
	00.3	DKB003-29	R2X	99	12	0	BL	1.7 / T	Yes	—
	00.6	NSC Sperling RR2Y	R2Y	107	8	0	IY	1.7 / T	—	1a
	00.6	PS 0068 XR	R2X	104	5	0	BL	1.8 / ST	—	1c
	00.5	Foote R2	R2X	95	12	0	IY	1.8 / ST	—	1c
	00.3	TH 33003R2Y	R2Y	100	13	1	BR	1.9 / ST	—	1c
	00.3	PS 0044 XRN	R2X	96	12	1	BL	1.8 / ST	Yes	1a,1k
	00.5	Gray R2	R2Y	98	10	1	BL	1.9 / ST	—	1c
	00.6	P006A37X	R2X	107	8	1	BR	1.8 / ST	—	1c
	00.6	Dugaldo R2X	R2X	100	10	1	IY	2.1 / ST	—	1c,1a,6
	00.5	TH 33005R2Y	R2Y	100	8	1	IB	1.9 / ST	—	1c
	00.3	TH 87003 R2X	R2X	100	12	1	BL	1.7 / T	Yes	1c
	00.4	B0040L1	R2Y	94	8	2	BR	1.7 / T	—	—
	00.7	P007A08X	R2X	114	2	2	GR	1.8 / ST	—	1c
	00.5	Barker R2X	R2X	103	10	2	BL	1.8 / ST	Yes	1k
	00.4	PV 16s004 R2X	R2X	100	8	2	BL	1.9 / ST	Yes	1k
	00.5	DKB005-52	R2X	100	13	2	BL	1.8 / ST	Yes	1c
	00.6	DKB006-99	R2X	102	6	2	BL	1.8 / ST	Yes	3a

Maturity Zone	Company Maturity Group	Variety	Type[1]	Yield % Check	Site Years Tested	Maturity (days)[2] +/- of Check	Hilum Colour	IDC[3] Rating/Group	Resistance SCN[4]	Resistance PRR[5]
	00.8	PV 14s008 RR2	R2Y	104	8	3	IY	1.7 / T	—	—
	00.5	LS Eclipse	R2Y	106	5	3	BL	2.2 / ST	Yes	1c
	00.7	TH 88007R2X	R2X	102	9	3	BL	1.8 / ST	—	1c
	00.6	B0066L1	R2Y	96	2	3	Y	1.9 / ST	Yes	1k
	00.7	RX00797	R2X	100	11	4	BL	1.7 / T	Yes	1c
	00.5	TH 88005R2XN	R2X	100	9	4	BL	1.8 / ST	Yes	1c
	00.7	PV 12s007 R2X	R2X	103	12	4	BL	1.8 / ST	—	—
	00.9	NSC Jordan RR2Y	R2Y	108	5	4	BL	2.1 / ST	—	1c
Long	00.7	PS 0074 R2	R2Y	108	10	4	BR	1.7 / T	—	—
Season	00.7	LS 007XT	R2X	113	5	4	BL	1.8 / ST	—	1c
Zone	00.6	DKB006-29	R2X	102	11	5	BL	1.7 / T	—	1k
	00.8	NSC Winkler RR2X	R2X	111	5	5	BL	1.8 / ST	Yes	1c
	00.9	P00A49X	R2X	102	5	5	BR	1.7 / T	Yes	1c
	00.5	PV 10s005 RR2	R2Y	108	12	5	BL	1.9 / ST	—	—
	00.5	LS Mistral	R2Y	107	9	5	BL	1.7 / T	—	1c
	00.6	PRO 2525R2	R2Y	103	10	5	BL	1.7 / T	—	—
	00.9	NSC Aubigny RR2X	R2X	103	1	6	BL	1.6 / T	Yes	1k
	0.1	Hydra R2	R2Y	105	5	6	BL	2.1 / ST	—	1k
	00.8	PRO 03X74	R2X	112	5	7	BR	1.7 / T	—	1c
	00.8	Astro R2	R2Y	113	5	7	BL	1.7 / T	—	1k
	00.9	P00A75X	R2X	116	1	7	IB	1.7 / T	—	1k
	00.9	PRO 2535R2	R2Y	110	5	8	BL	1.7 / T	—	1k
	00.5	Vidar R2X	R2X	102	7	9	BL	1.7 / T	Yes	1c
	00.9	TH89009 R2XN	R2X	121	1	9	BL	1.6 / T	Yes	1k
	00.9	PRO 2625 R2	R2Y	112	5	14	BL	1.7 / T	—	—
	Experimental lines that are being tested / proposed for registration in Canada									
	00.6	PV 19-S2	R2X	97	1	4	IB	2.0 / ST	Yes	1c
CHECK CHARACTERISTICS										
		P007A90R		44 bu/acre	13 site years	115 days				

1 R2X - Xtend technology, R2Y - Roundup-Ready 2 technology, RR1 - Roundup Ready 1 technology
2 Maturity Ratings are averaged across Carman, Morris, Portage, St. Adolphe sites over multiple years
3 Iron Deficiency Chlorosis (IDC) Group; T=Tolerant, ST=Semi-Tolerant, S=Susceptible
4 SCN -Soybean Cyst Nematode Resistance
5 PRR-Phytophthora Resistant Genes

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- Add your thoughts and share your solutions with fellow farmers.

EASTERN MANITOBA HERBICIDE-TOLERANT SOYBEANS

Yield Comparisons

Maturity Zone	Variety	2019 Yield: % of P007A90R Early Site Arborg	Core Site Carman
Very Early Season Zone	LS TRI8XT	92	81
	NocomaR2Ω	99	91
	S0009-M2	101	82
	TH89004 R2X	101	88
	PS 00078 XRN	92	94
	Devo R2X	90	77
	RX000918	111	95
Early Season Zone	P001A48X	105	92
	PV 11s001 RR2	95	73
	Karpo R2	103	106
	RX00218	88	82
	Notus R2	110	104
	P003A97X	108	90
	Torro R2	100	87
	NSC Redvers RR2X	95	98
	PV 15s0009 R2X	102	97
	NSC Culross RR2X	104	92
	LS 001XT	105	98
	Lono R2Ω	117	100
Mid Season Zone	Dinero R2X	96	87
	TH 32004R2Y	104	100
	Prince R2X	94	97
	S006-M4X	103	101
	S007-Y4	118	100
	P005A83X	112	96
	S006-W5	89	96
	Mahony R2	92	95
	Akras R2	130	105
	B0030L1	94	92
	P005A27XΩ	103	105
	Sunna R2X	112	94
	P007A90RΩ	100	100
	Bourke R2X	105	100
	DKB003-29	91	97
	NSC Sperling RR2Y	117	104
	PS 0068 XR	—	89
	Foote R2	88	103
	TH 33003R2Y	102	99
	PS 0044 XRN	101	98
	Gray R2	—	102
	P006A37X	109	110
	Dugaldo R2X	—	102
	TH 33005R2Y	92	103
	TH 87003 R2X	99	94
	B0040L1	92	100
	P007A08X	117	110
	Barker R2X	—	96
	PV 16s004 R2X	100	102
	DKB005-52	95	95
	DKB006-99	80	104

Maturity Zone	Variety		2019 Yield: % of P007A90R Early Site Arborg	Core Site Carman
	PV 14s008 RR2		—	116
	LS Eclipse		—	105
	TH 88007R2X		—	109
	B0066L1		78	115
	RX00797		99	97
	TH 88005R2XN		—	95
	PV 12s007 R2X		—	106
	NSC Jordan RR2Y		—	108
Long Season Zone	PS 0074 R2		—	113
	LS 007XT		—	107
	DKB006-29		83	108
	NSC Winkler RR2X		—	110
	P00A49X		—	112
	PV 10s005 RR2		—	114
	LS Mistral		—	116
	PRO 2525R2		—	99
	NSC Aubigny RR2X		—	103
	Hydra R2Ω		—	108
	PRO 03X74		—	113
	Astro R2		—	116
	P00A75X		—	116
	PRO 2535R2		—	113
	Vidar R2X		—	109
	TH89009 R2XN		—	121
	PRO 2625 R2		—	120
Experimental lines that are being tested / proposed for registration in Canada				
	PV 19-S2		—	97
Check Characteristics		P007A90R (bu/ac)	41	38
		CV%	8.2	6.4
		LSD%	13	10
		Sign Diff	Yes	Yes
		Seeding Date	21-May	23-May
		Harvest Date	09-Oct	08-Oct

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SUNFLOWERS - NON-OIL TYPE

Comments:

These varieties were tested and data provided by the National Sunflower Association of Canada Inc. (NSAC)

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

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

Variety Descriptions

Company	Hybrid	Genetic Traits[1]	Site Years	Yield % Check	Maturity (days to R9)	Height (inches)	2019 Seed Sizing (%)[2] >22/64	>20/64	<20/64
NuSeed Americas	6946 DMR	DM	24	100	0	0	67	23	10
NuSeed Americas	Panther DMR	DM	32	99	1	-3	71	20	9
Experimental lines being tested/proposed for registration in Canada									
NSAC	EX 43400	ExSun	1	82	0	2	69	23	7
NSAC	EX 88647	ExSun	1	80	-2	0	87	11	3
	CHECK CHARACTERISTICS								
	6946 DMR		24 site years	3191 lb/ac	121 days	68 inches			

1 Genetic traits include CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.
2 Totals may not add to 100% due to rounding.

Site Comparisons

Hybrid	Dakota Plains Yield (lb/ac)	Maturity[1]	Test Wt (lb/bu A)
6946 DMR	3519	128	24.0
Panther DMR	3167	129	23.4
Experimental lines being tested/proposed for registration in Canada			
EX 43400	2898	128	24.0
EX 88647	2821	126	23.7
Site Average (lb/ac)	3101	128	23.8
CV%	9.5		
Sign Diff	No		
LSD (0.05)	—		
Planting Date	28-May		
Desiccation Date	—		
Harvest Date	19-Oct		

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

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*Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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SUNFLOWERS - OIL TYPE

Comments:

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

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

Variety Descriptions

Company	Variety[1]	Herbicide Tolerance	Site Years	YIELD % check	Maturity (days to R9)	Height (inches)	% Oil	Oil Type[2]	Sizing (%) (>16/64)	Test Weight
Dow Seed	8H288CLDM	CL / DM	10	91	2	-5	—	HO	—	31.4
NuSeed Americas	N4HM354 DMR	CL / DM	11	104	-1	-2	—	NS	—	34.3
NuSeed Americas	Talon	ExSun	14	96	-2	-4	—	NS	—	29.5
DuPont Pioneer	P63HE60	ExSun / DM	11	95	-2	1	—	HO	—	33.3
DuPont Pioneer	P63ME70	ExSun / DM	16	100	0	0	—	NS	—	31.0
DuPont Pioneer	P63ME80	ExSun / DM	15	94	1	0	—	NS	—	32.4
Experimental lines being tested/proposed for registration in Canada										
NuSeed Americas	N4HE302	ExSun	5	86	-3	2	—	HO	—	30.4
NuSeed Americas	N5LM307	ExSun	1	105	0	-6	—	CO	—	29.1
	CHECK CHARACTERISTICS									
	P63ME70		16 site years	3365 lb/ac	124 days	69 inches				

1 Genetic traits include CL = Clearfield tolerance; ExSun = Express tolerance; DM = Downy Mildew Resistance.
2 Oil Type include NS=NuSun; HO=High Oleic; CO=ConOil

Site Comparisons

	Dakota Plains		
Hybrid	Yield (lb/ac)	Maturity[1] (days to R9)	Test Wt (lb/bu A)
N4HM354 DMR	3179	127	34.8
Talon	3302	128	29.8
P63HE60	3588	128	34.6
P63ME70	3374	128	31.3
Experimental lines being tested/proposed for registration in Canada			
N4HE302	3406	130	31.5
N5LM307	3549	128	29.1
Site Average (lb/ac)	3400	128	31.9
CV%	5.7		
Sign Diff	No		
LSD (0.05)	—		
Planting Date	28-May		
Desiccation Date	—		
Harvest Date	19-Oct		

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

Distributor Contacts for Listed Varieties in Seed Manitoba 2020

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

Prairie Sapphire	Alliance Seed
Topaz	Alliance Seed
CDC Neela	CANTERRA SEEDS
Lightning	CANTERRA SEEDS
AAC Bravo	FP Genetics
AAC Marvelous	FP Genetics
VT50	Nutrien Ag Solutions
WestLin 60	Nutrien Ag Solutions
WestLin 70	Nutrien Ag Solutions
WestLin 71	Nutrien Ag Solutions
WestLin 72	Nutrien Ag Solutions
AAC Bright	SeCan
AAC Prairie Sunshine	SeCan
CDC Bethune	SeCan
CDC Buryu	SeCan
CDC Glas	SeCan
CDC Plava	SeCan
CDC Rowland	SeCan
CDC Sanctuary	SeCan
CDC Sorrel	SeCan
Hanley	SeCan
CDC Dorado	SeedNet Inc.

CONVENTIONAL SOYBEANS

Jari	Brett Young
Bennie	Brett Young
AAC Halli	Interlake.org Inc.
Maxus	Prograin
Opus	Prograin
AAC Edward	SeCan
OAC Morden	SeCan
OAC Prudence	SeCan
AAC Mandor	Sevita International
Astor	Sevita International
DH401	Sevita International
DH863	Sevita International
Meteor	Sevita International
Panorama	Sevita International
Siberia	Prograin
Fjord	SG CERESCO
Kebeck	SG CERESCO

ROUNDUP READY SOYBEANS

Akras R2	BrettYoung
Amirani R2	BrettYoung
Hydra R2	BrettYoung
Karpo R2	BrettYoung
Lono R2	BrettYoung
Nocoma R2	BrettYoung
Notus R2	BrettYoung
Renuka R2X	BrettYoung

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ROUNDUP READY SOYBEANS

Karpo R2	BrettYoung
Mani R2X	BrettYoung
Nocoma R2	BrettYoung
Notus R2	BrettYoung
Renuka R2X	BrettYoung
RX Acron	BrettYoung
RX Cedo	BrettYoung
Sunna R2X	BrettYoung
Varuna R2	BrettYoung
Vidar R2X	BrettYoung
B00071RX	BREVANT seeds
B0030L1	BREVANT seeds
B0040L1	BREVANT seeds
B0066L1	BREVANT seeds
RX00218	CROPLAN
RX00797	CROPLAN
RX000918	CROPLAN
RX0247	CROPLAN
23-60 RY	DEKALB
24-10 RY	DEKALB
25-10 RY	DEKALB
DKB0005-44	DEKALB
DKB0009-89	DEKALB
DKB002-32	DEKALB
DKB003-29	DEKALB
DKB005-52	DEKALB
DKB006-29	DEKALB
DKB006-99	DEKALB
LS 001XT	Delmar Commodities
LS 004XT	Delmar Commodities
LS 007XT	Delmar Commodities
LS 003R24N	Delmar Commodities
LS Eclipse	Delmar Commodities
LS Mistral	Delmar Commodities
LS Solaire	Delmar Commodities
LS TRI8XT	Delmar Commodities
NSC Aubigny RR2X	Northstar Genetics Manitoba
NSC Culross RR2X	Northstar Genetics Manitoba
NSC Jordan RR2Y	Northstar Genetics Manitoba
NSC Leroy RR2Y	Northstar Genetics Manitoba
NSC Newton RR2X	Northstar Genetics Manitoba
NSC Redvers RR2X	Northstar Genetics Manitoba
NSC Reston RR2Y	Northstar Genetics Manitoba
NSC Sperling RR2Y	Northstar Genetics Manitoba
NSC Watson RR2Y	Northstar Genetics Manitoba
NSC Winkler RR2X	Northstar Genetics Manitoba
PV 10s005 RR2	Nutrien Ag Solutions
PV 11s001 RR2	Nutrien Ag Solutions
PV 12s007 R2X	Nutrien Ag Solutions
PV 14s008 RR2	Nutrien Ag Solutions
PV 15s0009 R2X	Nutrien Ag Solutions
PV 16s004 R2X	Nutrien Ag Solutions
PV 18s0009R2X	Nutrien Ag Solutions
PV 19s006R2X	Nutrien Ag Solutions
B0030L1	Pioneer Hi-Bred
B0040L1	Pioneer Hi-Bred
B0011RX	Pioneer Hi-Bred
B0066L1	Pioneer Hi-Bred
B00071RX	Pioneer Hi-Bred
P00A75X	Pioneer Hi-Bred
P001A48X	Pioneer Hi-Bred
P002A63R	Pioneer Hi-Bred
P003A97X	Pioneer Hi-Bred
P005A27X	Pioneer Hi-Bred
P005A83X	Pioneer Hi-Bred
P006A37X	Pioneer Hi-Bred
P006A37X	Pioneer Hi-Bred
P006T46RΩ	Pioneer Hi-Bred
P007A08X	Pioneer Hi-Bred
P007A90RΩ	Pioneer Hi-Bred
P00A49X	Pioneer Hi-Bred
P000A52R	Pioneer Hi-Bred
P0007A73X	Pioneer Hi-Bred
PS 00078 XRN	PRIDE Seeds
PS 0044 XRN	PRIDE Seeds
PS 0068 XR	PRIDE Seeds
PS 0074 R2	PRIDE Seeds

ROUNDUP READY SOYBEANS

Devo R2X	Prograin Inc.
Dinero R2X	Prograin Inc.
Dugaldo R2X	Prograin Inc.
Elmo E3	Prograin Inc.
Fresco R2X	Prograin Inc.
Kudo R2X	Prograin Inc.
Torro R2	Prograin Inc.
Barker R2X	SeCan
Barron R2X	SeCan
Bourke R2X	SeCan
Fisher R2X	SeCan
Foote R2	SeCan
Gray R2	SeCan
Mahony R2	SeCan
McLeod R2	SeCan
Prince R2X	SeCan
PRO 03X74	Sevita International
PRO 2525R2	Sevita International
PRO 2535R2	Sevita International
PRO 2625 R2	Sevita International
S0007-B7X	Syngenta Canada
S0009-M2	Syngenta Canada
S003-Z4X	Syngenta Canada
S006-M4X	Syngenta Canada
S006-W5	Syngenta Canada
S007-Y4	Syngenta Canada
S008-N2	Syngenta Canada
Astro R2	Thunder Seeds Canada
TH 32004R2Y	Thunder Seeds Canada
TH 33003R2Y	Thunder Seeds Canada
TH 33005R2Y	Thunder Seeds Canada
TH 34006R2Y	Thunder Seeds Canada
TH 87003R2X	Thunder Seeds Canada
TH 88005R2XN	Thunder Seeds Canada
TH 88007R2X	Thunder Seeds Canada
TH 89004R2X	Thunder Seeds Canada
TH 89005R2XN	Thunder Seeds Canada
TH 89009R2XN	Thunder Seeds Canada

SUNFLOWERS

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

DISTRIBUTOR	PHONE NUMBER
Agriculture and Agri Food Canada	1-613-759-1610
Alliance Seed	1-877-270-2890
BASF	1-877-371-2273
Bayer CropScience	1-888-283-6847
Brett Young	1-800-665-5015
BREVANT seeds	1-800-265-7403
CANTERRA SEEDS	1-877-744-4321
Cargill Ltd.	1-888-855-8558
CHS Sunflower	1-701-484-5313
CROPLAN	1-306-249-5112
DEKALB	1-800-667-4944
Delmar Commodities	1-888-974-7246
FP Genetics	1-877-791-1045
Interlake.org Inc.	1-204-641-0230
North Star Genetics Manitoba	1-204-262-2425
Nuseed Americas Inc	1-877-841-7447
Nutrien Ag Solutions	1-204-435-2063
Pioneer Hi-Bred	1-306- 385-3001
Prograin Inc.	1-800-817-3732
PRIDE Seeds	1-800-265-5280
Quarry Seed Ltd.	1-888-274-9243
SeCan	1-800-665-7333
SeedNet Inc.	1-403-715-9771
Sevita International	1-613-989-5400
SG CERESCO	1-450-454-2727
Syngenta Canada Inc.	1-877-964-3682
Thunder Seeds Canada	1-306 213 8888

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

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	R

AAC MARVELOUS

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	S F

AC NUGGET

Oakbank; Smith, Howard Grant & Greg	204-444-3908	C

CDC BETHUNE

Domain; Manness, Clayton	204-736-2922	C
Oak Lake; Smith, Gerald R.& Leigh E.	204-855-3128	C
Souris; Kohut, David Anton	204-483-3063	C

CDC GLAS

Carman; Menold, Thomas	204-745-3377	C
Crystal City; Buchanan, Kenneth S.& Dean K.	204-873-2661	C
Deloraine; Raes, Tony & Mark	204-747-4219	R
Dufrost; Catellier, Roger & Richard	204-746-4175	R
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268	S F R
Pilot Mound; Wallace, Brad & Joe	204-825-7246	C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	R

FLAX

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CDC NEELA

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

CDC PLAVA

Binscarth; Cook, Murray	204-532-2239	R
Foxwarren; Graham, George Arthur	204-683-2367	R

CDC SORREL

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	R
Portage; Pugh, William G. & Victoria	204-274-2179	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	F C

LIGHTNING

Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290	R

TOPAZ

Crandall; Doupe, Neil D.	204-562-3632	R
Elphinstone; Gerrard, Jody	204-759-2213	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	R

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CENTENNIAL

Binscarth; Pizzey, Tim V.	204-683-2316	F

CUTLASS

Binscarth; Pizzey, Tim V.	204-683-2316	C

SOYBEANS

AAC HALLI ⊛ ⓟ

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

AAC MANDOR

Carman; Menold, Ulrich & Lucas	204-745-2822	S

AKRAS R2

Carman; Park, Robert J.	204-745-3304	R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C

BARKER R2X

Carman; Park, Robert J.	204-745-3304	C
Oak Bluff; Anseeuw , Mark J.	204-895-8375	C
Portage; Askin, Raymond T. & Jeffrey S.	204-856-3483	S F R
Winnipeg; James, David G.	204-222-8785	C

BISHOP R2

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

SOYBEANS

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.

BOURKE R2X

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	R
Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	R
Morden; Wilson, James M.	204-246-2388	R
Portage; Askin, Raymond T. & Jeffrey S.	204-856-3483	R
Warren; Riddell, Craig Thomas	204-227-5679	S F R
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290	C
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	R

CP000719RX

Rosenort; Friesen, Rick	204-746-8325	S F

CP00419RX

Rosenort; Friesen, Rick	204-746-8325	S F

CP00519RX

Rosenort; Friesen, Rick	204-746-8325	S F

FISHER R2X

Dauphin; Kaleta, James & Debra	204-638-7800	C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118	C

FOOTE R2

Brandon; Wheat City Seeds Ltd.	204-727-3337	R
Dauphin; Kaleta, James & Debra	204-638-7800	C
Portage; Pugh, William G. & Victoria	204-274-2179	C

GRAY R2

Carman; Park, Robert J.	204-745-3304	S F C

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KARPO R2⊛

Carman; Park, Robert J.	204-745-3304	S	F	R
Oak Lake; Smith, Gerald R.& Leigh E.	204-855-3128			R

MAHONY R2

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288			C
Boissevain; Latimer, Kevin B. & Duane E.	204-534-8318			C
Brandon; Wheat City Seeds Ltd.	204-727-3337			C
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525			C
Dauphin; Kaleta, James & Debra	204-638-7800			C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			C
Rivers; Redsper Ent. Ltd.	204-328-5346			C
Warren; Riddell, Craig Thomas	204-227-5679		R	
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290			C

MCLEOD R2

St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495			C

MERRITT R2X

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288		F	
Dauphin; Kaleta, James & Debra	204-638-7800	S	F	
Dufrost; Catellier, Patrick Raymond	204-347-5503	S	F	
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666	S	F	
Warren; Riddell, Craig Thomas	204-227-5679	S	F	

NOCOMA R2⊛

Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			C

SOYBEANS

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NS EXP 006 R2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622		F	
Homewood; Froebe, Bruce D. & Murray	204-745-6655	S		C

NSC AUBIGNY RR2X

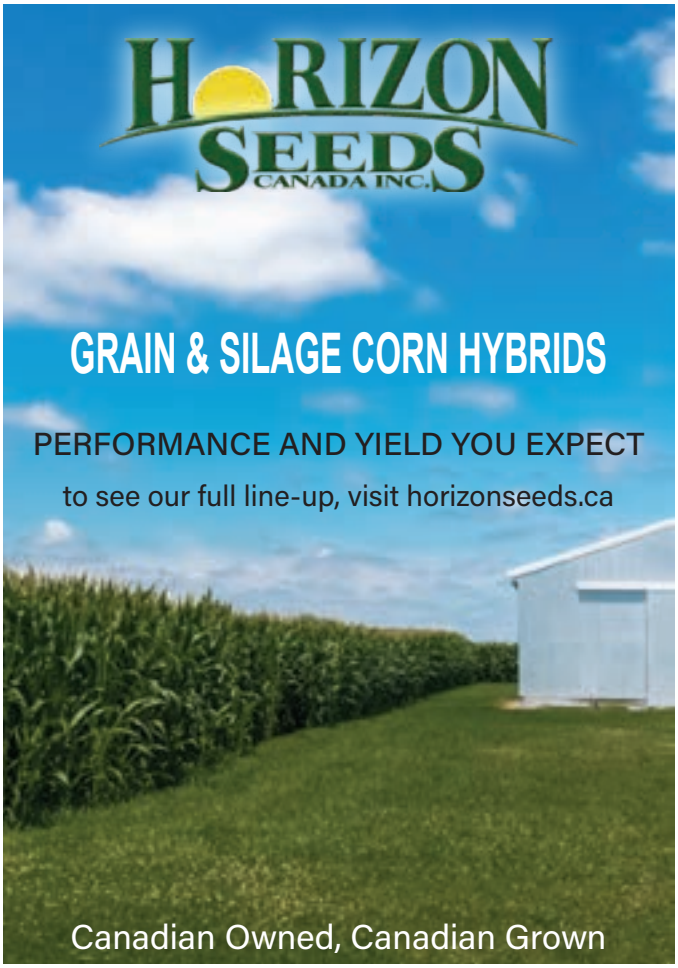
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622			R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F	
Rosenort; Friesen, Rick	204-746-8325	S	F	

NSC CULROSS RR2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622			R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F	R
Fannystelle; Nadeau, Brian	204-436-2469			R
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951			R
Rosenort; Friesen, Rick	204-746-8325	S	F	
St. Claude; Rouire, Roland & Guy	204-379-2582			R

NSC GLADSTONE RR2Y

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622			C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613			C
Rosenort; Friesen, Rick	204-746-8325		R	
St. Claude; Rouire, Roland & Guy	204-379-2582			C



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NSC JORDAN RR2Y

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

NSC LEROY RR2Y

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566			C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212			C

NSC NEWTON RR2X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849			C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613		R	
Homewood; Froebe, Bruce D. & Murray	204-745-6655			C
Rosenort; Friesen, Rick	204-746-8325			C
St. Claude; Rouire, Roland & Guy	204-379-2582			C

NSC REDVERS RR2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622		R	
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849		R	
Fannystelle; Nadeau, Brian	204-436-2469			C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613	S	F	C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212			C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354			C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			C
Somerset; Sierens, Joseph & Chris	204-744-2883			C
St. Claude; Rouire, Roland & Guy	204-379-2582			C

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NSC RICHER RR2Y

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622			C
Homewood; Froebe, Bruce D. & Murray	204-745-6655			C
Rosenort; Friesen, Rick	204-746-8325			C

NSC SPERLING RR2Y

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622			C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849		R	
Fannystelle; Nadeau, Brian	204-436-2469		R	
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613			C
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951			C
Homewood; Froebe, Bruce D. & Murray	204-745-6655			C
Portage; Ronald, Kelly	204-857-7437		R	
Rosenort; Friesen, Rick	204-746-8325	S	F	C

NSC WATSON RR2Y

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566			C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F R	C
Fannystelle; Nadeau, Brian	204-436-2469			C
Grosse Isle; Rutherford, Rick (Mb)	204-467-5613		R	C
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951			C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422			C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354			C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			C
Rosenort; Friesen, Rick	204-746-8325			C
Somerset; Sierens, Joseph & Chris	204-744-2883			C
St. Claude; Rouire, Roland & Guy	204-379-2582			C

NSC WINKLER RR2X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S	F R	
Fannystelle; Nadeau, Brian	204-436-2469		R	
Rosenort; Friesen, Rick	204-746-8325		R	

OAC CARMAN

Carman; Menold, Ulrich & Lucas	204-745-2822	S	F	

OAC MORDEN ⓤ

Carman; Menold, Ulrich & Lucas	204-745-2822	S	F	

OAC PRUDENCE

Carman; Menold, Ulrich & Lucas	204-745-2822	S	F	

PRINCE R2X

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288		R	
Brandon; Wheat City Seeds Ltd.	204-727-3337		R	
Carman; Park, Robert J.	204-745-3304		R	
Dauphin; Kaleta, James & Debra	204-638-7800		F R	
Morden; Wilson, James M.	204-246-2388		F R	
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			C
Portage; Askin, Raymond T. & Jeffrey S.	204-856-3483	S	F	C
Rivers; Redsper Ent. Ltd.	204-328-5346			C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118		R	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630		F	
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666	S	F	C
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290			C

RX000918

Rosenort; Friesen, Rick	204-746-8325	S	F R	

RX00218

Rosenort; Friesen, Rick	204-746-8325	S	F	

RX00797

Rosenort; Friesen, Rick	204-746-8325		R	

SUNNA R2X

Carman; Park, Robert J.	204-745-3304		R	

TH 33005R2Y

Morris; Dueck , Arthur	204-746-2026	S		

Pulse Crops

Variety Description Key

A "CHECK CHARACTERISTICS" box has been placed at the bottom of each table to display the long term yield, site years, maturity and any other check attributes.

Except for the long-term average yield, variety description information 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 climatic conditions and to some extent on management practices.

"Resistance Level" ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor; "n/a" = 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 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

TKW (Thousand Kernel Weight) is the weight in grams of 1000 seeds.

Key to 2019 Yield Tables

Yields derived over two or more growing seasons are the best indicator of variety performance. For new varieties, the 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.

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FABABEANS

Comments:

The fababean variety trial was tested by MCVET and partially sponsored by the Manitoba Pulse & Soybean Growers.

Traditionally tannin fababean with tan coloured seed coats and coloured flowers contain tannins and can't be fed directly to livestock.

Zero tannin fababeans have white seed coats and flowers and can be fed directly to livestock.

Variety Descriptions

Class/Variety	% of Check	Site Years Tested	Days to Maturity[1]	TKW (g)	2019 Yield % Check Variety Roblin	2019 Yield % Check Variety Stonewall
Colored Flower (Tannin)						
Fabelle	100	1	105	533	100	100
CHECK CHARACTERISTICS						
Fabelle (tannin)	3791 lbs/ac	3 Site Years	105	**Fabelle** (lbs/acre)	4334	1920
				CV%	10.9	8.1
				LSD (%)	18	13
				Sign Diff	Yes	Yes
White Flower (Zero Tannin)						
DL Tesoro	113	2	110	511	120	99
Snowbird	100	15	104	495	100	100
DL Rico	86	2	109	566	75	107
CHECK CHARACTERISTICS						
Snowbird (zero tannin)	4896 lbs/ac	15 Site Years	104	**Snowbird** (lbs/acre)	3385	1862
				CV%	14.9	7.1
				LSD (%)	24	12
				Sign Diff	Yes	Yes
				Seeding Date	07-May	13-May
				Harvest Date	09-Oct	08-Sep

1 Maturity ratings are based on days until swathing, but will vary depending on seeding date.

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FIELD BEANS - MANITOBA NARROW ROW ADAPTATION TRIALS

Comments:

Long term yield data and days to maturity are Manitoba Pulse & Soybeans Growers (MPSG) Trials grown in 10 to 12 inch row spacing.

More detailed measurements from the trials are available to MPSG members and will be distributed in the December Special Edition of the Pulse Beat magazine.

Days to maturity is critical. Do not select a variety that will not mature in time, under normal growing conditions. Early fall frost severely affects yield and quality.

Variety Descriptions

Bean Class	Variety	Years Tested 2019	2018	2017	Yield % Check	Site Years Tested	Maturity[1] (days) +/- Check
Small Seeded Types					**% Envoy**		**+/- Envoy**
Black	CDC Blackstrap	x	x	x	126	20	-5
Black	Black Tails	x			173	2	5
Black	CDC Jet	x	x	x	110	44	2
Black	CDC SuperJet	x	x	x	118	23	1
Black	Eclipse	x	x		126	8	4
Black	Zenith	x	x		115	4	4
Black	Zorro		x		87	2	3
Black	OAC Vortex	x			164	2	7
Navy	AAC Argosy		x		114	2	4
Navy	AAC Shock	x	x	x	124	7	3
Navy	Blizzard		x		112	2	2
Navy	Bolt	x	x	x	107	11	3
Navy	Envoy	x	x	x	100	53	0
Navy	Indi	x	x		123	4	3
Navy	Nautica		x		113	4	6
Navy	Portage	x	x	x	102	20	1
Navy	T9905	x	x	x	115	9	6
Varieties that are registered in the US or being tested or proposed for registration in Canada							
Navy	16-6	x			153	2	9
Navy	3458-7	x	x	x	108	17	-4
Navy	S09-27C	x			118	2	0
Large Seeded Types					**% Windbreaker**		**+/- Windbreaker**
Pinto	SV6139GR	x		x	104	5	0
Pinto	SV6533GR	x			94	2	0
Pinto	Windbreaker	x	x	x	100	12	0
FDJ	CDC Ray	x	x	x	96	7	5

CHECK CHARACTERISTICS				
Bean Grouping	**Check Varieties**	**Yield (lbs/ac)**	**Site Years**	**Days to Maturity**
Small seeded	Envoy	1910	53	98
Large seeded	Windbreaker	2348	12	100

1 Maturity data provided to compare relative differences among varieties - actual maturity will vary depending on seasonal growing conditions.

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FIELD BEANS - WIDE ROW TRIALS

Comments:

Long term yield data and days to maturity are from Manitoba Pulse & Soybean Growers (MPSG) trials.

Individual site and more detailed measurements from these trials are available to MPSG members and distributed free in the Winter Edition of the Manitoba Pulse Beat to all MPSG members in good standing.

Results are from row crop trials located at Morden, Portage, Carman, and Winkler sites.

Variety Descriptions

MARKET CLASS/Variety	Years tested 2019	2018	2017	Yield % of Check	Site Years Tested	Maturity[1] (days) +/- Check
NAVY				**% of T9905**		**+/- T9905**
AAC Argosy		x	x	103	8	-2
AAC Shock		x		99	4	-4
Bolt		x	x	92	15	-2
Indi	x	x	x	100	24	-3
Lightning			x	90	26	-3
Medalist	x			96	2	2
Nautica		x	x	90	14	-1
Portage	x	x	x	91	32	-5
T9905	x	x	x	100	32	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
15094	x			100	2	0
15095	x			109	2	4
S09-27C	x			86	2	-4
NA196			x	94	6	-2
PINTO				**% of Windbreaker**		**+/- Windbreaker**
La Paz	x	x		98	17	4
Monterrey	x		x	107	16	2
SV6139GR	x		x	103	21	-2
SV6533GR	x			97	9	-1
Vibrant	x	x	x	106	13	-2
Windbreaker	x	x	x	100	52	0
Cowboy	x			121	2	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
18-283	x			97	2	2
18-376	x			104	2	1
18-456	x			94	2	1
11278	x			104	6	-1
ND Palomino	x			114	2	2
Radiant 12324			x	104	7	-2

MARKET CLASS/Variety	Years tested 2019	2018	2017	Yield % of Check	Site Years Tested	Maturity[1] (days) +/- Check
BLACK				**% of Eclipse**		**+/- Eclipse**
Ace	x			84	2	-2
Black Tails	x			90	2	0
CDC Blackstrap		x	x	89	13	-5
CDC Jet		x	x	88	39	-1
CDC Superjet		x	x	87	27	-1
Eclipse	x	x	x	100	41	0
Zenith	x	x		96	6	3
Zorro		x		90	4	4
Varieties that are registered in the US or being tested or proposed for registration in Canada						
W11-02-152	x			83	2	0
13489			x	108	6	1
13505		x	x	99	8	0
GTS1103		x	x	94	12	2
H76BK6			x	92	4	1
PINK				**% of Floyd**		**+ / - Floyd**
Floyd	x	x	x	100	27	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
GNS 13-796				107	3	3
Rosetta			x	118	7	6
CRANBERRY				**% of Etna**		**+/- Etna**
AAC Scotty	x	x		111	14	5
Cran 09			x	102	50	0
Etna	x	x	x	100	55	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
CR312-8			x	113	5	2
CR10875	x			92	2	-1
Krimson	x	x	x	100	18	-1
SV3709GC	x			109	6	-4
GREAT NORTHERN				**% of Pink Panther**		**+/- of Pink Panther**
Aries	x			139	10	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
13151		x		122	3	-2
13172		x		136	3	-1
14164		x		129	3	-3
Beryl R		x		112	32	-2
Powderhorn	x	x	x	133	8	-3
DARK RED KIDNEY				**% of Pink Panther**		**+/- of Pink Panther**
Red Hawk	x			67	15	4
Dynasty		x		104	3	7
Montcalm	x	x		81	5	6
LIGHT RED KIDNEY				**% of Pink Panther**		**+/- of Pink Panther**
Big Red	x	x	x	99	21	0
Pink Panther	x	x	x	100	53	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
09363			x	96	5	-3

Check Varieties		First Year Tested	Yield lbs/ac	Site Years Tested	Maturity (days)
Eclipse	Black	2005	2481	41	97
Etna	Cranberry	2007	1757	55	99
Floyd	Pink	2005	2400	27	92
Pink Panther	Light Red Kidney	2001	1972	53	99
T9905	Navy	2009	2389	30	100
Windbreaker	Pinto	2002	2652	52	94

1 Annual weather variations will impact the actual number of days it takes a variety to fully mature varies from year to year. Choosing a variety that needs a longer growing season than your farm has, increases your risk of frost damage and lower returns.

LENTILS

Comments:

The lentil variety trial is coordinated with the Saskatchewan Regional Variety testing program, therefore the seed source are same as used in Saskatchewan trials.

The lentil variety trial was tested by MCVET and partially sponsored by the Manitoba Pulse & Soybean Growers

Clearfield lentils are tolerant to the herbicide Odyssey. These varieties are easily identified by the "CL" designation at the end of the name.

Variety Descriptions

Market Class	Variety	Maturity[1] Rating	Yield % Check	Site Years Tested	Cotyledon Colour	Seed Wt (TKW) Grams	Resistance Level: Ascochyta Blight	Resistance Level: Anthracnose Race 1	2019 Yield: % CDC Maxim: Hamiota	2019 Yield: % CDC Maxim: Melita
Small green	CDC Imvincible CL	Early	84	20	Yellow	35	G	G	86	91
	CDC Kermit	Early/Med	99	4	Yellow	34	G	G	88	97
Extra Small green	CDC Asterix	Early	94	9	Yellow	26	G	F		
Medium green	CDC Imigreen CL	Medium	63	11	Yellow	63	G	F	—	—
Large green	CDC Greenland	Med/Late	63	10	Yellow	64	G	VP	—	—
	CDC Greenstar	Med/Late	88	9	Yellow	73	G	F	63	99
	CDC Impower CL	Medium	70	14	Yellow	74	G	P	69	84
	CDC Lima CL	Early/Med	85	2	Yellow	74	G	P	78	92
French green	CDC Peridot CL	Early	78	11	Yellow	40	G	P	—	—
	CDC Marble	Early/Med	103	9	Yellow	32	F	G	—	—
Extra small red	CDC Imp CL	Early/Med	86	2	Red	30	G	G	75	100
	CDC Rosebud	Early	87	10	Red	29	G	G	—	—
	CDC Rosie	Early/Med	87	6	Red	30	G	G	—	—
	CDC Roxy	Early/Med	93	4	Red	32	G	G	86	94
	CDC Ruby	Early	92	2	Red	29	G	G	—	—
Small red	CDC Coral	Early/Med	87	2	Red	37	G	G	80	94
	CDC Dazil CL	Early/Med	95	12	Red	35	G	F	86	98
	CDC Imax CL	Medium	84	20	Red	50	G	G	64	99
	CDC Impulse CL	Earl/med	102	5	Red	44	G	G	88	104
	CDC Maxim CL	Early/Med	100	22	Red	40	G	G	100	100
	CDC Nimble CL	Early/Med	98	2	Red	38	G	G	91	106
	CDC Proclaim CL	Early/Med	104	6	Red	40	G	G	97	112
	CDC Redmoon	Early/Med	107	6	Red	41	G	G	101	109
	CDC Scarlet	Early/Med	100	11	Red	36	G	F	85	96
Green Cotyledon	CDC QG-2	Early/Med	85	7	Green	33	F	G	—	—
	CDC QG-3 CL	Early/Med	74	4	Green	46	F	G	51	81
Large red	CDC-KR I	Medium	79	12	Red	56	G	G	—	—
	CDC KR2 CL	Medium	104	3	Red	55	G	G	110	111
Spanish Brown	CDC SB-3 CL	Early	75	2	Yellow	38	F	G	—	—
CHECK CHARACTERISTICS							**CDC Maxim (lbs/ac)**		3213	2847
CDC Maxim			3073 lbs/ac	22 site years			CV%		7.7	3.9
							LSD (%)		11	6
							Sign Diff		Yes	Yes
							Seeding Date		06-May	08-May
							Harvest Date		30-Aug	20-Aug

1 Ratings determined in Saskatchewan and may not be accurate under wetter growing conditions present in Manitoba

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FIELD PEAS

Comments:

The Field Pea variety trial is coordinated with the Saskatchewan Regional Variety testing program. Seed source is same as used in Saskatchewan trials.

Variety Descriptions

						Resistance Level to:							
										Seed Coat			
Variety	Yield % Check	Site Years Tested	Relative Maturity	Relative Vine Length	Seed Size (TKW)	Lodging	Powdery Mildew	Mycos-phaerella blight	Fusarium[1] Wilt	Green[2]	Breakage	Dimpling[3]	Bleaching
Yellow													
AAC Aberdeen	109	7	M	M	240	VG	VG	F	F	n/a	F	n/a	n/a
AAC Ardill	101	29	M	M	240	G	VG	F	G	n/a	G	n/a	n/a
AAC Asher	105	6	M	S	260	G	VG	F	F	n/a	n/a	n/a	n/a
AAC Carver	108	23	M	L	240	G	VG	F	F	n/a	G	n/a	n/a
AAC Chrome	111	19	M	M	240	G	VG	F	F	n/a	n/a	n/a	n/a
AAC Delhi	104	7	M	M	290	G	VG	F	F	n/a	n/a	n/a	n/a
AAC Lacombe	103	27	M	L	270	G	VG	F	F	F	F	G	n/a
Agassiz	102	66	M	M	230	G	VG	F	F	G	G	F	n/a
CDC Amarillo	104	29	M	M	230	VG	VG	F	G	G	F	F	n/a
CDC Athabasca	99	13	M	L	300	VG	VG	F	G	G	F	F	n/a
CDC Canary	100	13	E	L	230	VG	VG	F	F	F	G	F	n/a
CDC Inca	107	27	M	L	230	G	VG	F	F	F	G	G	n/a
CDC Lewochko	106	13	M	L	230	VG	VG	F	F	G	G	G	n/a
CDC Meadow	100	79	E	M	220	G	VG	F	F	G	G	G	n/a
CDC Saffron	101	43	M	M	250	G	VG	F	F	G	G	F	n/a
CDC Spectrum	100	13	M	L	240	VG	G	F	F	G	G	G	n/a
Green													
AAC Comfort	100	17	M	M	260	G	VG	F	F	n/a	n/a	n/a	G
CDC Forest	105	13	M	L	230	G	VG	F	F	n/a	G	G	G
CDC Greenwater	100	28	L	M	220	G	VG	F	G	n/a	VG	G	G
CDC Limerick	99	28	L	M	210	VG	VG	F	F	n/a	VG	G	G
CDC Spruce	101	13	M	L	240	G	VG	F	F	n/a	F	F	G
CDC Striker	90	83	M	M	230	VG	P	F	G	n/a	VG	G	G
Maple													
CDC Blazer	100	7	M	M	190	G	VG	F	n/a	n/a	G	VG	n/a
AAC Liscard	95	11	M	M	180	G	VG	F	n/a	n/a	n/a	n/a	n/a
Forage													
CDC Jasper	82	7	M	L	180	G	VG	F	n/a	n/a	G	G	n/a
DL Goldeye	75	7	M	L	160	VP	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DL Lacross	90	7	M	L	190	G	n/a	n/a	n/a	n/a	n/a	n/a	n/a
LSD (.05)	6												
CHECK CHARACTERISTICS													
CDC Meadow	72 bu/ac		95 days	34 inches									

1 Varieties which show good disease tolerance to one strain of Fusarium wilt may be susceptible to other strains.
2 Green seed coats: G = 0-10%; F = 11-25%
3 Seed coat dimpling rating : VG = 0-5%; G = 6-20%; F = 21-50%

Yield Comparisons

	2019 Yield % CDC Meadow						
Variety	**Arborg**	**Boissevain**	**Hamiota**	**Melita**	**Morden**	**Portage**	**Swan River**
Yellow							
AAC Aberdeen	132	117	124	97	123	138	129
AAC Ardill	120	111	120	100	114	95	128
AAC Carver	94	106	120	104	120	123	109
AAC Chrome	122	110	115	103	106	143	134
AAC Delhi	108	117	108	112	112	129	120
AAC Lacombe	121	110	100	92	110	92	136
Agassiz	114	100	116	94	109	115	110
CDC Amarillo	96	110	116	93	115	117	99
CDC Athabasca	92	112	122	95	107	111	124
CDC Canary	106	113	115	107	104	108	94
CDC Inca	89	117	128	108	123	105	108
CDC Lewochko	128	108	103	90	110	110	132
CDC Meadow	100	100	100	100	100	100	100
CDC Saffron	101	99	114	106	106	116	90
CDC Spectrum	107	102	112	94	110	110	118
Green							
AAC Comfort	119	101	110	91	113	143	124
CDC Forest	110	106	120	94	115	116	138
CDC Greenwater	108	110	108	100	105	97	109
CDC Limerick	100	110	112	92	111	112	93
CDC Spruce	112	113	117	97	124	103	120
CDC Striker	75	100	110	95	97	103	73
Maple							
CDC Blazer	101	107	110	91	106	111	119
AAC Liscard	101	110	109	93	108	110	100
Forage							
CDC Jasper	76	74	84	82	100	72	81
DL Goldeye	76	77	91	70	85	76	70
DL Lacross	73	95	92	86	104	99	110
CDC Meadow (bu/ac)	74	85	52	75	56	52	46
CV %	8.0	6.1	7.9	4.9	7.1	7.5	8.0
LSD (%)	14	11	14	9	13	13	14
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	13-May	10-May	06-May	06-May	06-May	21-May	13-May
Harvest Date	30-Aug	08-Sep	29-Aug	19-Sep	09-Aug	23-Aug	29-Aug

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Distributor Contacts for Listed Varieties in Seed Manitoba 2020

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.

FABABEANS

DL Tesoro	Ridell Seed Co.
DL Rico	Prairie Fava
Florent	Scoular Company Canada Inc.
Snowbird	Cyre Seed Farms

FIELD BEANS

NAVY	
AAC Argosy	Various Bean Dealers
AAC Shock	Various Bean Dealers
Blizzard	Various Bean Dealers
Bolt	Hensall District Coop
Cargo	Various Bean Dealers
Envoy	Various Bean Dealers
Fathom	University of Guelph
Indi	ADM- Seed West
Lightning	Hensall District Coop
Medalist	ADM- Seed West
Nautica	Hensall District Coop
OAC Spark	University of Guelph
Portage	CANTERRA SEEDS
SV1893GH	CANTERRA SEEDS
T9903	Treasure Valley Seed Company
T9905	Treasure Valley Seed Company
PINTO	
Cowboy	ADM- Seed West
La Paz	ADM- Seed West
Monterrey	ADM- Seed West
SV6139GR	CANTERRA SEEDS
SV6533GR	CANTERRA SEEDS
Vibrant	ADM- Seed West
Windbreaker	CANTERRA SEEDS
PINK	
Floyd	ADM- Seed West
BLACK	
Ace	ADM- Seed West
Black Tails	Treasure Valley Seed Company
CDC Blackstrap	Ben Martens Charlois & Seed
CDC Jet	Ben Martens Charlois & Seed
CDC SuperJet	Ben Martens Charlois & Seed
Eclipse	Scoular Company Canada Inc.
Zenith	Treasure Valley Seed Company
Zorro	Treasure Valley Seed Company
CRANBERRY	
AAC Scotty	Agriculture and Agri-Food Canada
Etna	Various Bean Dealers
Dark Red Kidney	
Dynasty	University of Guelph
Montcalm	Various Bean Dealers
Red Hawk	Various Bean Dealers
Great Northern	
Aries	ADM- Seed West
Light Red Kidney	
Big Red	Various Bean Dealers
Pink Panther	Various Bean Dealers
FLOR DE JUNIO	
CDC Ray	University of Saskatchewan

LENTILS

CDC Asterix	Saskatchewan Pulse Growers
CDC Coral	Saskatchewan Pulse Growers
CDC Dazil	Saskatchewan Pulse Growers
CDC Greenland	Saskatchewan Pulse Growers
CDC Greenstar	Saskatchewan Pulse Growers
CDC Imax CL	Saskatchewan Pulse Growers
CDC Imigreen CL	Saskatchewan Pulse Growers
CDC Imp CL	Saskatchewan Pulse Growers
CDC Impower CL	Saskatchewan Pulse Growers
CDC Imvincible CL	Saskatchewan Pulse Growers
CDC KR2	Saskatchewan Pulse Growers
CDC Lima CL	Saskatchewan Pulse Growers
CDC Marble	Saskatchewan Pulse Growers

LENTILS

CDC Maxim CL	Saskatchewan Pulse Growers
CDC Nimble CL	Saskatchewan Pulse Growers
CDC Peridot CL	Saskatchewan Pulse Growers
CDC Proclaim	Saskatchewan Pulse Growers
CDC QG-2	Saskatchewan Pulse Growers
CDC QG-3 CL	Saskatchewan Pulse Growers
CDC Rosebud	Saskatchewan Pulse Growers
CDC SB-3 CL	Saskatchewan Pulse Growers
CDC Rosie	Saskatchewan Pulse Growers
CDC Ruby	Saskatchewan Pulse Growers
CDC KR-1	Saskcan Pulse Trading
CDC Impulse CL	SeCan
CDC Kermit	SeCan
CDC Redmoon	SeCan
CDC Roxy	SeCan
CDC Scarlet	Saskatchewan Pulse Growers

FIELD PEAS

AAC Asher	Agriculture and Agri-Food Canada
AAC Aberdeen	Alliance Seeds
AAC Carver	CANTERRA SEEDS
AAC Comfort	CANTERRA SEEDS
Agassiz	CANTERRA SEEDS
AAC Radius	Columbia Seeds
AAC Royce	Columbia Seeds
DL Goldeye	DL Seeds
DL Lacross	DL Seeds
AAC Chrome	FP Genetics
CDC Amarillo	Saskatchewan Pulse Growers
CDC Dakota	Saskatchewan Pulse Growers
CDC Golden	Saskatchewan Pulse Growers
CDC Greenwater	Saskatchewan Pulse Growers
CDC Inca	Saskatchewan Pulse Growers
CDC Leroy	Saskatchewan Pulse Growers
CDC Limerick	Saskatchewan Pulse Growers
CDC Meadow	Saskatchewan Pulse Growers
CDC Saffron	Saskatchewan Pulse Growers
CDC Striker	Saskatchewan Pulse Growers
CDC Forest	SeCan
CDC Athabasca	SeCan
CDC Canary	SeCan
CDC Lewochko	SeCan
CDC Spectrum	SeCan
CDC Spruce	SeCan
CDC Jasper	SeCan
AAC Delhi	SeedNet Inc
AAC Lacombe	SeedNet Inc
AAC Ardill	Wagon Wheel Seed Corp.
AAC Liscard	Wagon Wheel Seed Corp.

DISTRIBUTOR	PHONE NUMBER
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Agriculture and Agri-Food Canada	1-613-773-1000
Alliance Seed	1-877-270-2890
Ben Martens Charolais & Seed	1-204-534-6952
DL Seeds	1-204-331-3611
CANTERRA SEEDS	1-877-439-7333
Columbia Seeds	1-403-654-2158
Cyre Seed Farms	1-780-349-4775
University of Saskatchewan	1-306-966-5855
FP Genetics	1-877-791-1045
Hensall District Coop	1-204-295-3938
Prairie Fava	1-204-721-4715
Ridell Seed Co.	1-204-227-5671
Scoular Company Canada Inc.	1-204-829-2326
Saskatchewan Pulse Growers	1-306-668-5556
SeCan	1-800-665-7333
SeedNet Inc.	1-403-715-9771
Treasure Valley Seed Company	1-218-791-6159
Wagon Wheel Seed Corporation	1-306-896-2647

Growers List

FABABEANS

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.

DL RICO

Glenboro; Jefferies, Ron & Cale	204-827-2102	S	F	

DL TESORO

Warren; Riddell, Craig Thomas	204-227-5679	S	F	R

SNOWBIRD

Swan River; Badowski, Dennis	204-734-6222	C

TABASCO

Warren; Riddell, Craig Thomas	204-227-5679	R	C

FIELD BEANS

AC OLE

Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	R

CDC BLACKSTRAP

Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952	C

SV6139GR

Portage; Sissons, Blye	204-857-7341	C

WINDBREAKER

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	C
Portage; Sissons, Blye	204-857-7341	C

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AAC CARVER

Altona; Wiebe, Henry D. & Lloyd	204-324-8036		R	C
Boissevain; Peters, Edwin & Darren	204-534-7920			C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849			C
Dufrost; Catellier, Patrick Raymond	204-347-5503		R	
Glenboro; Jefferies, Ron & Cale	204-827-2102	S	R	C
Holland; Patenaude, Donald & Robert	204-526-2391		R	
Oakville; Miller, Andrea & Ens, Chris & Hofer, Don & Chabot, Steven	204-267-2363			C
Pilot Mound; Wallace, Brad & Joe	204-825-7246		R	
Portage; Munro, Clarke Allan & Jared Cory & Trevor Clarke	204-857-8272		R	
Rivers; Redsper Ent. Ltd.	204-328-5346			C
Rosenort; Friesen, Rick	204-746-8325			C
Russell; Keating, Mark	204-773-3854			C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S	F	
Stonewall; Unger, Ronald K. & Darcy	204-467-8630		R	
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	S		C

AAC CHROME

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846		R	
Carman; Park, Robert J.	204-745-3304		R	
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	S	F	R

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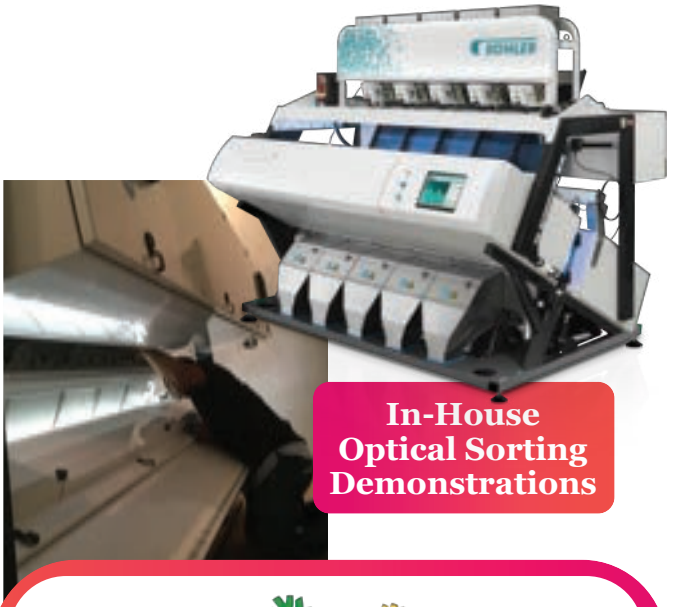

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Elphinstone; Gerrard, Jody	204-759-2213			R
Hamiota; Knight, Ronald M. & Jeff	204-764-2450			R
Killarney; Hird, Steven	204-523-7464			R
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212			R
Russell; Keating, Mark	204-773-3854			R

AAC LACOMBE⊛

Altona; Sawatzky, John	204-324-4018			C
Boissevain; Froese, Wesley A.J. & Heide, George	204-534-7324			C
Foxwarren; Falloon, A. Scott	204-683-2347			C
Inglis; Beischer, Derrick	204-564-2676			C
Mather; Mc Lennan, Donald D.	204-529-2372			C

ABARTH⊛

Inglis; Beischer, Derrick	204-564-2676			C
Russell; Keating, Mark	204-773-3854			C

CDC AMARILLO

Brandon; Wheat City Seeds Ltd.	204-727-3337		F	
Brandon; Whetter, Rodney & Darren	204-729-7059	S		R
Bruxelles; Devos, Daryl	204-526-2040			R
Decker; Murray, Donald H. & Ryan	204-764-2733			C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450			C
Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696			R
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012			R
Miniota; Walker, Alan Glen	204-567-3647			C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813			C
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208			C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth & Brittany	204-748-7666			C

CDC GREENWATER

Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952			C

CDC INCA⊛

Brandon; Wheat City Seeds Ltd.	204-727-3337			R
Brandon; Whetter, Rodney & Darren	204-729-7059	S	F	
Foxwarren; Graham, George Arthur	204-683-2367	S		R
Portage la Prairie; Faurschou, Glenn	204-856-6633			R

CDC JASPER⊛

Dauphin; Durston, Scott L.	204-638-5569	S	F	C

CDC LEWOCHKO⊛

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	S	F	
Minto; Fraser, Rick G.	204-776-2047		F	
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208		F	
Winkler; Ens, Abram E.& Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	204-325-4658	S	F	

CDC MEADOW

Hamiota; Knight, Ronald M. & Jeff	204-764-2450		R	C
Holland; Kubinec, Anastasia	204-526-2776			C
Holland; Patenaude, Donald & Robert	204-526-2391			C
Rivers; Krahn, Abe M., Ronald J. & Robert A.	204-761-8702			C

CDC SPECTRUM⊛

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

DL DELICIOUS⊛

Binscarth; Pizzey, Tim V.	204-683-2316	S	F	

DL GOLDEYE⊛

Warren; Riddell, Craig Thomas	204-227-5679	S		R

Special Crops

Variety Description Key

A "CHECK CHARACTERISTICS" box has been placed at the bottom of each table to display the long term yield, number of site years and any other check attributes information.

Except for the long term average yield, variety description information for buckwheat was obtained from the variety registration trials.

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

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.

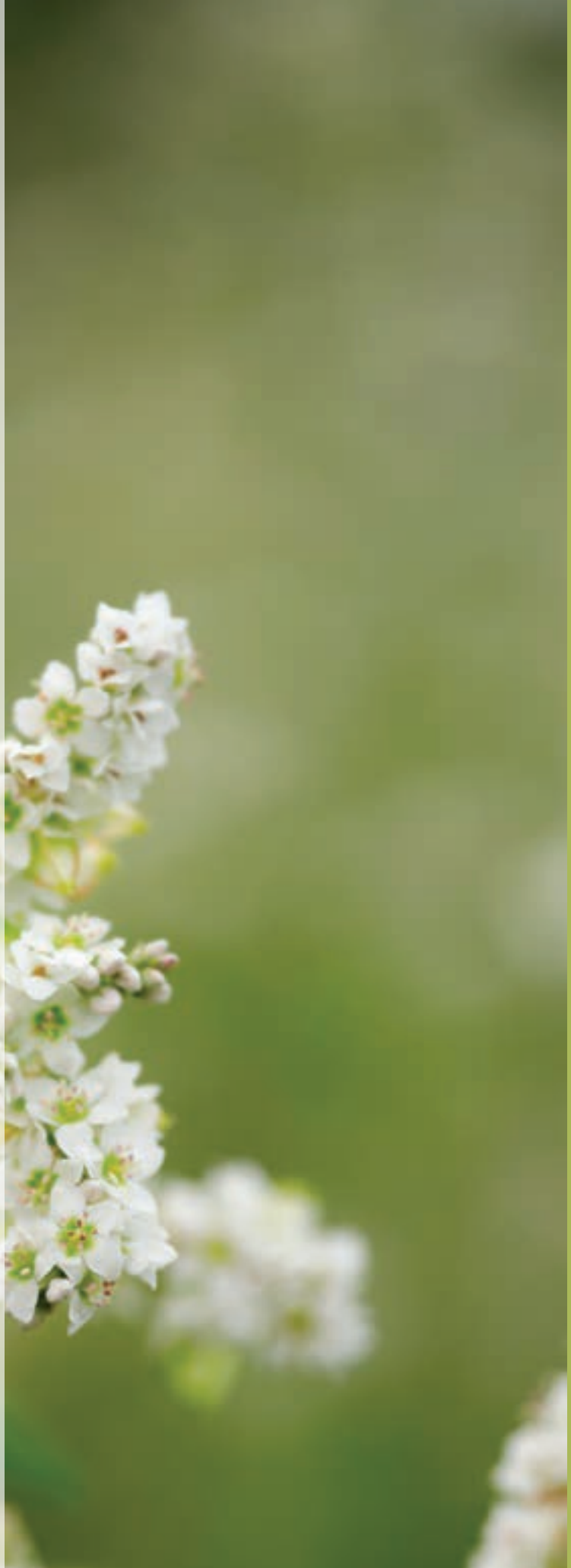
Key to 2019 Yield Tables

Yields derived over two or more growing seasons are the best indicator of variety performance. For new varieties, "2019 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 value to be considered significantly different from one another.

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



Manitoba Agriculture Variety Guide

BUCKWHEAT

Comments:

Buckwheat testing by MCVET last occurred in 2017.

Days to 50% bloom is approximately 46 days after seeding for all varieties listed.

Variety Descriptions

Variety	Yield % Check	Site Years Tested		2017 Yield % of Koma Dauphin	Hamiota
AC Manisoba	115	21		—	—
AC Springfield	116	23		114	120
Horizon	123	14		111	116
Koma	100	23		100	100
Koto	120	23		113	128
Mancan	108	21		—	—
Manor	111	4		—	—
CHECK CHARACTERISTICS			**Koma** (bu/acre)	46	43
Koma	31	23	CV%	5.1	8.9
	bu/acre	site years	LSD	—	—
			Sign Diff	No	No
			Seeding Date	09-Jun	09-Jun
			Harvest Date	10-Oct	11-Oct

GRAIN CORN

Comments:

The 2019 grain corn hybrid trial was tested and the data donated by the Manitoba Corn Committee. The data presented is for one year only. Use with caution.

All hybrids were evaluated at a plant population of 32,000 plants per acre. Plots are planted at a higher rate and thinned to achieve the target population.

Yields are corrected to 15.5% moisture content.

The Manitoba Corn Committee publishes the annual results along with more detailed lab analysis in their brochure. The brochure is available by calling the Manitoba Corn Growers Association office at 204-745-6661 or visiting their website at https://manitobacorn.ca/manitoba-corn-committee.

DUE TO WET FALL CONDITIONS, GRAIN CORN DATA WAS NOT AVAILABLE AT THE TIME OF PUBLICATION

DATA IS AVAILABLE AT http://www.seedmb.ca/web-exclusives/ & Manitoba Corn Growers website

MORE THAN SEED

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INDUSTRIAL HEMP

Comments:

A licence from Health Canada is required to grow Industrial Hemp.

The requirement for THC testing for most varieties has been eliminated. THC testing is remains a requirement for cultivators of pedigreed seed.

As per the Industrial Hemp Regulations, industrial hemp varieties must be approved for commercial cultivation under licence for the current crop year. Please refer to Health Canada's "List of Approved Cultivars for the 2019 Growing Season" report prior to seeding.

Please note that the Industrial Hemp Regulations requires that all seed planted for the production of industrial hemp in Canada must be of pedigreed status (Certified or better).

For more information, please refer to Health Canada's website at www.healthcanada.gc.ca/hemp.

Variety Descriptions

Variety	Yield % Check	Site Years Tested		2019 Yield: % of CRS-1 Arborg	Roblin
Anka	80	15		—	94
Canda	107	26		—	—
CFX-2	96	25		91	—
CRS-1	100	27		100	100
Grandi	94	9		89	—
Judy	76	5		67	99
Katani	85	11		88	86
Silesia	76	19		—	—
X-59	101	21		113	91
CHECK CHARACTERISTICS			**CRS-1** (lb/acre)	1060	529
CRS-1	1200	27	CV%	10.2	16.0
	lb/acre	site years	LSD%	14	13
			Sign Diff	Yes	Yes
			Seeding Date	22-May	10-Jun
			Harvest Date	17-Sep	02-Oct

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Distributor Contacts for Listed Varieties in Seed Manitoba 2020

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.

BUCKWHEAT

AC Manisoba	SeCan
AC Springfield	Springfield Mills Inc.
Horizon	Mancan Genetics Ltd.
Koma	Springfield Mills Inc./Fisher Seeds/ Durand Seeds
Koto	Fisher Seeds
Mancan	Public
Manor	Public

GRAIN CORN

- see Grain Corn table for specific hybrids, then check Distributor table below for phone number -

INDUSTRIAL HEMP

Anka	Ontario Hemp Alliance
Canda	Parkland Industrial Hemp Growers Coop Ltd.
CFX-2	Hemp Genetics International Inc.
CRS-1	Hemp Genetics International Inc.
Grandi	Hemp Genetics International Inc.
Judy	Parkland Industrial Hemp Growers Coop Ltd.
Katani	Hemp Genetics International Inc.
Silesia	Alberta Innovates Technology Futures
X59	Terramax

DISTRIBUTOR	PHONE NUMBER
Alberta Innovates Technology Futures	1-780-632-8436
Nutrien Ag Solutions	1-403-652-5820
Delmar Commodities (Legend Seeds)	1-204-331-3696
DLF Pickseed Canada Inc. (PICKSEED)	1-204-633-0088
Corteva AgriScienceTM, Agriculture Division of Dow DuPont	1-800-667-3852
DuPont Pioneer (Pioneer)	1-800-265-9435
Durand Seeds	1-204-248-2268
Elite (BrettYoung)	1-800-665-5015
Fisher Seeds Ltd.	1-204-622-8800
Hemp Genetics International Inc.	1-604-607-4953
Hemp Oil Canada Inc.	1-800-289-4367
Horizon Seeds Canada ULC	1-855-983-7255
Maizex Seeds Inc.	1-877-682-1720
Mancan Genetics Ltd.	1-204-822-4396
Monsanto Canada Inc. (DEKALB)	1-800-667-4944
Northstar Seed Ltd.	1-800-430-5955
NorthStar Genetics Ltd.	1-204-262-2425
Ontario Hemp Alliance	1-613-281-2734
Parkland Industrial Hemp Growers Coop Ltd.	1-204-629-4367
PhytoGene Resources Inc.	1-613-240-4120
PRIDE Seeds	1-800-265-5280
SeCan	1-800-665-7333
Springfield Mills Inc.	1-204-362-1524
Thunder Seed Inc. (Thunder Seeds)	1-204-750-2192
Terramax	1-306-699-7368

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Growers List

BUCKWHEAT

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.

HORIZON
Winkler; Walkof, Karl D. ..... 204-325-4669 R

KOMA
Dauphin; Fisher, Roderick Allan & Douglas James & Allison ..... 204-622-8800 R
Notre Dame; Durand, Gabriel A. & Marc ..... 204-248-2268 F

MANCAN
Notre Dame; Durand, Gabriel A. & Marc ..... 204-248-2268 R C

INDUSTRIAL HEMP

ANGIE
Dauphin; Parkland Industrial Hemp Growers ..... 204-629-4367 F

CANMA
Ste. Agathe; Fresh Hemp Foods Ltd. (Fhf) ..... 204-882-2480 F R C

INDUSTRIAL HEMP

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.

CFX-2
Saskatoon; Hemp Genetics International Inc. ..... 604-882-4936 C

CRS-1
Saskatoon; Hemp Genetics International Inc. ..... 604-882-4936 C

FINOLA
Ste. Agathe; Fresh Hemp Foods Ltd. (Fhf) ..... 204-882-2480 C

GRANMA
Ste. Agathe; Fresh Hemp Foods Ltd. (Fhf) ..... 204-882-2480 R

HEMPNUT
Dauphin; Fisher, Roderick Allan & Douglas James & Allison ..... 204-622-8800 C

PETERA
Dauphin; Parkland Industrial Hemp Growers ..... 204-629-4367 F

QUIDA
Dauphin; Parkland Industrial Hemp Growers ..... 204-629-4367 F

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Forage Crops

Key to 2019 Yield or Quality 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.

Forage Variety Registration Changes

Amendments to the Seeds Act, Seeds Regulations are now in effect that streamline the variety registration process for forage varieties.

Forage crops are moved to Part III of Schedule III of the Seeds Regulations. Recommending Committees are no longer required for the registration of forage crop varieties, since the testing and merit requirements are removed. Registration still requires a standard application package to enable the CFIA to continue to protect health and safety, prevent fraud, and facilitate seed certification.

Manitoba Agriculture Variety Guide

FORAGE ADAPTATION & COMPARISON GUIDE

LEGUMES

Forage	Use	Longevity	Winter Hardiness	Tolerance to:			Preferred Climate and Growing Conditions
				Drought	Flooding	Salinity	
Alfalfa	Hay & Pasture	Long	Good	Good	Low	Low to Moderate	Wildely adapted to most Manitoba soils but will not tolerate areas that have periodic flooding.
Aliske Clover	Hay & Pastre	Short	Fair	Poor	Moderate	Low	Low-lying moist areas.
Birdsfoot Trefoil	Pasture	Long	Good	Moderate	High	Low to Moderate	Moist areas.
Cicer Milkvetch	Pasture	Long	Good	Moderate to High	Low	Moderate	Widely adapted but exhibits its creeding habit best on more coarse textured soils.
Red Clover	Hay & Pasture	Short	Poor	Low	High	Low	Best suited to humid areas with moderate temperatures.
Sainfoin	Pasture	Long	Fair	High	Low	Low	Best on brown and dark brown soil areas. In very dry areas it yields poorly. Does well on thin gravelly soils.
Sweet Clover	Hay & Pasture	2-years	Fair	Moderate to High	Low	Moderate	Especially productive on fertile soils.

TAME GRASSES

Altai Wild Ryegrass	Pasture	Long	Excellent	High	Low	Very High	Loam & clay soils best, but grows on a wide range of soils. Doesn't appear adapted to Manitoba conditions.
Annual (Italian) Ryegrass	Hay & Pasture	Short annual 1 year	Poor	Low	High	Low	Produces best on soils of medium to high fertility and grows best with adequate moisture.
Creeping Foxtail	Pasture	Long	Good	Low	High	Moderate	Adapted to areas where reed canarygrass grows well and soil moisture is continually available.
Creeping Red Fescue	Pasture Lawn	Long	Excellent	Moderate	Moderate	Low	Does best in high rainfall areas. Will grow in wide range of soil types.
Crested Wheatrass	Hay & Pasture	Long	Excellent	Moderate to High	Low	Low to Moderate	Adapted to dry areas with good soils but will also establish on lighter soils.
Dahurian Wild Ryegrass	Pasture	Short	Good	Moderate	Low	High	Adapted to all soil zones.
Intermediate Wheatgrass	Hay & Pasture	Short to Medium	Good	Moderate to High	Low	Low	Well drained soils with ample moisture.

Forage	Use	Longevity	Winter Hardiness	Tolerance to:			Preferred Climate and Growing Conditions
				Drought	Flooding	Salinity	
Kentucky Blue Grass	Pasture Lawn	Long	Excellent	Moderate	Moderate	Low	Prefers cool and humid. Grows on most soils.
Meadow Bromegrass	Hay & Pasture	Long	Good	High	Low	Low	Grows well on most soils where Smooth Brome does well.
Meadow Fescue	Pasture	Short - Medium	Good	Moderate	High	Low to Moderate	Prefers soil with good moisture and good drainage.
Meadow Foxtail	Pasture	Long	Good	Low	High	Low	Prefers cool moist conditions, high water table.
Orchard Grass	Hay & Pasture	Short	Fair	Moderate	Low to Moderate	Low	Prefers moist conditions. Sandy soils are too dry for good growth unless inhigh rainfall area.
Perenial Ryegrass	Hay & Pasture	Short	Poor	Low	Low	Low	Needs high precipitation and fertility for high yields. Adapted to wide range of soils.
Pubescent Wheatgrass	Hay & Pasture	Medium	Good	Moderate to High	Low	Low to Moderate	Widely adaptable to precipitation, temperature, elevation, and low fertility soil.
Russian Wild Ryegrass	Pasture	Long	Excellent	Very High	Low	Very High	Can be grown on a wide range of soils. Most productive on fertile loams.
Smooth Bromegrass	Hay & Pasture	Long	Excellent	Moderate	Moderate	Low to Moderate	Well adapted to all soils in Manitoba.
Tall Fescue	Pasture	Medium	Good	Moderate	Moderate to High	High	Variety of soils. Does well on wet, poorly drained soils.
Tall Wheatgrass	Hay & Pasture	Medium	Excellent	Low	High	High	Adapted to saline and imperfectly drained alkali soils.
Timothy	Hay & Pasture	Medium	Good	Low	High	Low	Cool moist areas with good drainage.

NATIVE GRASSES

Awned Wheatgrass	Hay & Pasture	Medium	Good	Moderate	Moderate	Low to Moderate	Prefers moderately sandy to loam soils with good moisture and drainage. Found in moist flats, meadows and low growing bushes.
Big Bluestem	Pasture	Long	Good	Low to Moderate	Moderate	Low to Moderate	Grows under a wide range of conditions.
Green Needlegrass	Pasture	Long	Good	High	Moderate	Low to Moderate	Performs best on medium to heavy textured soils. Prefers moist sites with good drainage.
Little Bluestem	Pasture	Long	Good	High	Low	Moderate	Sandy, gravelly soils with shallow water table or where snow accumulates. Common on prairie upland.
Northern Wheatgrass	Pasture	Long	Good	Very High	Moderate	Moderate	Prefers medium to coarse textured soil.
Prairie Cord Grass	Hay & Riparian	Long	Good	Low to Moderate	High	Low to Moderate	Wide range of soils (sand to clay) - does best on seasonally dry areas, marsh edges, wet meadows, drainageways.
Reed Canarygrass	Hay & Pasture	Long	Good	Moderate	Very High	Low	Moist cool climate. Poorly drained areas subject to temporary flooding.
Side Oats Grama	Hay & Pasture	Long	Good	Moderate to High	Low	Low to Moderate	Adapted to a range of soils. Performs best on fine textured soils. Found on rocky ridges, open grasslands and hillsides.
Slender Wheatgrass	Hay & Pasture	Medium	Good	Moderate	Moderate	High	Widely adapted - prefers sandy loams.
Switch Grass	Pasture	Medium	Fair	Low	Moderate	Moderate	It has potential for good summer pasture when enough moisture. Grows best on loam and sandy loams.
Western Wheatgrass	Hay & Pasture	Long	Excellent	High	Moderate to High	High	Widely adapted - prefers heavy moderately alkaline soil. Tolerates periodic flooding.

Source: Manitoba Agriculture, Food and Rural Development — Forage Adaptation & Comparison Guide

SILAGE CORN

Comments:

The silage corn hybrid trial was tested and the data provided by the Manitoba Corn Committee.

The data presented is for one year only. Use with caution.

All hybrids were evaluated at a plant population of 32,000 plants per acre. Plots are planted at a higher rate and thinned to achieve the target population.

				Elm Creek						
CHU[1]	Hybrid	Technology/ Genetic Traits[2]	Distributor	65% Yield (Mt/ac)	Moisture[3] (%)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre[4] (lbs/ac)	Beef/Acre[5] (lbs/ac)
2100	NS 72-521 VT2PRIB	VT2PRIB	NorthStar Genetics	20.0	65.5	73.9	23.2	41.9	25218	1893
2100	TH6875 VT2P	VT2P	Thunder Seed	20.0	69.2	67.5	29.2	52.9	20944	1731
2125	PS 2210VT2P RIB	GENVT2P	DLF Pickseed	21.0	69.9	74.0	23.1	41.9	21296	1991
2150	AS1017RR EDF	RR2	PRIDE Seeds	22.5	67.8	75.9	21.3	39.6	27926	2193
2150	TH4076 HDRR	RR2	Thunder Seed	21.7	70.1	71.6	25.3	46.2	23822	1993
2200	PS 2320RR	RR2	DLF Pickseed	19.7	70.7	76.6	20.6	39.0	21294	1937
2200	Rustler	GT	Greenfield Genetics	18.3	71.5	71.9	25.0	46.7	20595	1689
2200	MS 7420 R	RR2	Maizex Seeds	26.6	61.7	72.5	24.5	45.3	33245	2475
2225	TH7578 VT2P	VT2P	Thunder Seed	18.3	68.6	70.7	26.2	46.8	22143	1660
2250	HZ 1885	Agrisure 3010	Horizon Seeds	19.7	71.5	74.6	22.5	41.2	24146	1883
2250	TH4126 RR	RR2	Thunder Seed	21.0	67.3	73.8	23.3	42.8	25969	1991
2275	PS 2333RR	RR2	DLF Pickseed	25.6	65.1	74.8	22.3	42.0	24471	2460
2275	PV 61079RIB	VT2P	Proven Seed	19.3	69.3	73.5	23.6	43.7	22720	1823
2300	2123VT2P/RIB	VT2P	CROPLAN	20.7	68.2	75.2	21.9	40.5	25919	1998
2300	PS 2420RR	RR2	DLF Pickseed	21.7	67.0	73.9	23.1	41.9	24417	2062
2300	14T	GT	Greenfield Genetics	21.7	70.1	69.7	27.1	49.8	22637	1941
2300	LR 99S77 RR	RR	Legend Seeds	21.3	70.7	70.5	26.4	46.6	26110	1930
2300	E49K32 R	VT2P	Maizex Seeds	18.2	71.5	77.2	20.1	39.1	21951	1799
2300	A4646G2 RIB	VT2P	PRIDE Seeds	20.0	71.6	77.0	20.3	38.0	23117	1973
2300	A4705HMRR	RR2	PRIDE Seeds	21.0	67.6	72.4	24.5	45.7	25602	1955
2300	PV 61180RIB	VT2P	Proven Seed	21.8	70.1	73.7	23.3	41.4	24748	2062
2325	QS 1881 GT	GT	Quarry Seed	20.0	71.2	71.0	25.9	48.9	21724	1819
2350	17X	3010	Greenfield Genetics	24.9	68.2	71.1	25.8	49.4	28219	2270
2350	Caliber	GT	Greenfield Genetics	19.4	71.1	70.4	26.5	50.3	21161	1749
2350	HZ 675	Agrisure 3010	Horizon Seeds	24.3	71.0	75.5	21.7	39.9	26718	2354
2350	LR 9579 RR	RR	Legend Seeds	19.6	69.2	74.0	23.1	42.9	21061	1860
2350	NSG 84-266	RR	NorthStar Genetics	25.9	68.6	75.8	21.3	41.2	28480	2524
2350	AS1027RR EDF	RR2	PRIDE Seeds	26.2	68.4	71.1	25.8	46.9	35164	2394
2350	TH6081 3220	Agrisure Viptera3220 EZR	Thunder Seed	22.0	68.5	72.2	24.7	45.8	27671	2042
2375	HZ 1912	Agrisure 3120 EZR	Horizon Seeds	20.6	69.6	74.8	22.4	42.5	24449	1979
2375	HX J102Y	Agrisure Viptera3220A EZR	Horizon Seeds	18.2	71.4	71.8	25.1	45.6	20121	1677
2375	AS1037RR EDF	RR2	PRIDE Seeds	21.6	71.7	74.1	23.0	42.5	25237	2050
2400	Legacy	GT	Greenfield Genetics	21.7	70.1	69.7	27.1	50.2	23432	1942
2400	NSG 89S-932	RR	NorthStar Genetics	20.7	74.6	66.2	30.4	53.9	24019	1761
2400	A4939G2 RIB	VT2P	PRIDE Seeds	20.9	70.2	74.2	22.9	41.0	28296	1988
2400	AS1047RR EDF	RR2	PRIDE Seeds	23.9	73.8	69.5	27.3	49.8	27073	2130
2400	PV 62282RIB	VT2P	Proven Seed	24.6	64.8	76.4	20.8	38.7	24491	2410
2425	LR 9081 GT	GT	Legend Seeds	24.2	65.0	73.7	23.3	43.5	26675	2287
2450	2288VT2P/RIB	VT2P	CROPLAN	20.8	67.1	73.2	23.8	43.0	25002	1954
2450	DKC32-12RIB	VT2P	DEKALB	23.4	68.5	75.0	22.1	41.3	28555	2249
2450	PS ExSeed LF RR	RR2	DLF Pickseed	24.2	67.2	69.8	27.0	51.0	25100	2164
2450	HZ 2220	Agrisure 3010	Horizon Seeds	23.1	69.4	69.0	27.7	47.0	27597	2043
2450	HZ 2534	Agrisure Viptera3220 EZR	Horizon Seeds	28.2	62.2	72.7	24.3	45.1	36148	2632
2475	PS 2552RR	RR2	DLF Pickseed	20.0	73.0	74.2	22.9	42.5	19719	1908
2500	PV 62384RIB	VT2P	Proven Seed	19.5	71.1	72.9	24.1	44.5	18296	1826
2575	DKC34-57RIB	VT2P	DEKALB	20.0	71.6	75.1	22.1	39.9	24304	1930
2575	LR 9886 VT2PRIB	VT2PRIB	Legend Seeds	22.6	71.9	68.5	28.2	50.4	25850	1989
2600	HZ 797GT	Agrisure GT	Horizon Seeds	27.1	70.1	71.7	25.2	44.7	31981	2495
2600	EXLF18-93R	RR2	Maizex Seeds	24.7	69.4	64.3	32.2	58.5	23516	2035
2600	NSG 94S-961	RR	NorthStar Genetics	22.9	73.6	64.4	32.1	57.9	23403	1894
2625	2587VT2P/RIB	VT2P	CROPLAN	23.2	68.2	72.2	24.8	44.3	28181	2151
2675	2845VT2P/RIB	VT2P	CROPLAN	21.2	72.1	73.0	24.0	44.0	24314	1983
2700	Prime	3010	Greenfield Genetics	28.0	69.3	70.3	26.6	49.7	27808	2522
2700	LR 9090 VIP3220EZREF	VIP3220 EZREF	Legend Seeds	23.3	72.8	69.0	27.7	49.4	26315	2061
2725	LNG 9091 RR	RR	Legend Seeds	22.7	74.4	64.8	31.7	56.4	21469	1888
			Site Averages	22.1	69.6					
			CV	13.25	4.65					
			Sign Diff	Yes	Yes					
			LSD	4.7	5.2					
			Planting Date	11-May						
			Harvest Date	06-Sep						

1 Each company assigns a corn heat unit (CHU) rating to each of their hybrids. The CHU rating is a measure of relative maturity and is one criteria for choosing a hybrid which is suitable for your growing region.

2 The Canadian Seed Trade Association (CSTA) website provides a database for corn hybrids available in Canada, https://seedinnovation.ca/corn-hybrids-database.

Yields are corrected to 65% moisture content.

The Manitoba Corn Committee publishes the annual results along with more detailed lab analysis in their brochure. The brochure is available by calling the Manitoba Corn Growers Association office at 204-745-6661 or visiting their website at https://manitobacorn.ca/manitoba-corn-committee.

St. Pierre										
65% Yield (Mt/ac)	Moisture[3] (%)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre[4] (lbs/ac)	Beef/Acre[5] (lbs/ac)	CHU[1]	Hybrid	Technology/ Genetic Traits[2]	Distributor
17.9	67.7	74.4	22.7	42.6	17219	1705	2100	NS 72-521 VT2PRIB	VT2PRIB	NorthStar Genetics
14.2	74.9	70.3	26.5	49.6	11549	1284	2100	TH6875 VT2P	VT2P	Thunder Seed
16.3	74.1	71.1	25.8	47.6	16916	1490	2125	PS 2210VT2P RIB	GENVT2P	DLF Pickseed
18.6	71.1	74.0	23.0	43.9	19614	1767	2150	AS1017RR EDF	RR2	PRIDE Seeds
16.2	75.4	69.5	27.3	49.0	15502	1441	2150	TH4076 HDRR	RR2	Thunder Seed
15.3	73.4	69.0	27.8	49.3	14684	1354	2200	PS 2320RR	RR2	DLF Pickseed
14.1	73.7	70.4	26.4	47.4	14744	1274	2200	Rustler	GT	Greenfield Genetics
17.8	70.7	73.9	23.2	41.2	18787	1686	2200	MS 7420 R	RR2	Maizex Seeds
15.7	73.0	68.0	28.7	49.6	12811	1368	2225	TH7578 VT2P	VT2P	Thunder Seed
14.4	76.4	74.0	23.0	45.2	15227	1365	2250	HZ 1885	Agrisure 3010	Horizon Seeds
16.1	75.1	68.3	28.4	49.2	15555	1412	2250	TH4126 RR	RR2	Thunder Seed
19.7	71.9	72.0	24.9	46.9	19519	1824	2275	PS 2333RR	RR2	DLF Pickseed
18.1	72.1	74.1	23.0	45.2	17063	1719	2275	PV 61079RIB	VT2P	Proven Seed
15.2	73.2	73.6	23.5	44.2	14662	1432	2300	2123VT2P/RIB	VT2P	CROPLAN
16.1	74.3	71.4	25.5	46.6	15364	1473	2300	PS 2420RR	RR2	DLF Pickseed
16.0	75.2	65.7	30.8	54.2	15555	1350	2300	14T	GT	Greenfield Genetics
14.2	74.9	68.9	27.9	51.2	12719	1258	2300	LR 99S77 RR	RR	Legend Seeds
18.0	73.6	72.5	24.4	43.9	17658	1673	2300	E49K32 R	VT2P	Maizex Seeds
15.9	76.7	68.8	28.0	50.3	13261	1403	2300	A4646G2 RIB	VT2P	PRIDE Seeds
18.6	71.6	72.6	24.4	44.3	20110	1733	2300	A4705HMRR	RR2	PRIDE Seeds
19.5	71.7	72.7	24.2	45.1	19185	1818	2300	PV 61180RIB	VT2P	Proven Seed
16.0	72.2	66.8	29.8	53.0	15246	1368	2325	QS 1881 GT	GT	Quarry Seed
17.8	75.1	65.5	31.0	54.1	13902	1494	2350	17X	3010	Greenfield Genetics
16.5	74.3	69.1	27.7	50.0	15311	1465	2350	Caliber	GT	Greenfield Genetics
15.2	78.6	65.4	31.1	54.8	16556	1273	2350	HZ 675	Agrisure 3010	Horizon Seeds
16.9	74.3	69.7	27.1	47.6	17571	1513	2350	LR 9579 RR	RR	Legend Seeds
18.9	74.3	74.3	22.8	43.5	16330	1798	2350	NSG 84-266	RR	NorthStar Genetics
17.8	71.8	70.6	26.2	47.4	16365	1613	2350	AS1027RR EDF	RR2	PRIDE Seeds
19.0	72.5	71.1	25.8	49.0	14973	1735	2350	TH6081 3220	Agrisure Viptera3220 EZR	Thunder Seed
17.3	73.3	73.9	23.1	44.8	18194	1644	2375	HZ 1912	Agrisure 3120 EZR	Horizon Seeds
15.6	73.4	69.3	27.5	49.4	14695	1387	2375	HX J102Y	Agrisure Viptera3220A EZR	Horizon Seeds
21.2	71.9	72.6	24.4	45.2	19032	1977	2375	AS1037RR EDF	RR2	PRIDE Seeds
17.0	74.8	64.9	31.6	54.8	11733	1413	2400	Legacy	GT	Greenfield Genetics
17.1	76.1	62.3	34.0	58.1	12578	1368	2400	NSG 89S-932	RR	NorthStar Genetics
15.4	75.1	69.8	27.0	45.2	16385	1378	2400	A4939G2 RIB	VT2P	PRIDE Seeds
18.8	75.8	68.2	28.5	51.5	16495	1647	2400	AS1047RR EDF	RR2	PRIDE Seeds
17.2	73.5	71.2	25.7	47.0	16321	1575	2400	PV 62282RIB	VT2P	Proven Seed
15.1	74.3	68.6	28.1	50.7	14318	1333	2425	LR 9081 GT	GT	Legend Seeds
18.9	73.0	72.0	25.0	43.9	18423	1743	2450	2288VT2P/RIB	VT2P	CROPLAN
17.4	73.7	67.9	28.8	51.5	16948	1518	2450	DKC32-12RIB	VT2P	DEKALB
17.3	77.3	65.0	31.5	54.9	16067	1440	2450	PS ExSeed LF RR	RR2	DLF Pickseed
22.3	70.6	66.7	29.9	52.4	23271	1905	2450	HZ 2220	Agrisure 3010	Horizon Seeds
19.2	72.9	71.6	25.4	47.7	16836	1760	2450	HZ 2534	Agrisure Viptera3220 EZR	Horizon Seeds
17.1	74.8	70.0	26.8	48.6	16093	1533	2475	PS 2552RR	RR2	DLF Pickseed
16.9	75.9	70.4	26.5	48.9	14199	1529	2500	PV 62384RIB	VT2P	Proven Seed
17.2	76.4	68.7	28.0	49.6	18335	1513	2575	DKC34-57RIB	VT2P	DEKALB
17.7	77.4	65.5	31.1	55.1	15028	1490	2575	LR 9886 VT2PRIB	VT2PRIB	Legend Seeds
19.4	74.4	71.1	25.8	48.3	16532	1769	2600	HZ 797GT	Agrisure GT	Horizon Seeds
17.4	78.1	59.4	36.7	59.9	12120	1327	2600	EXLF18-93R	RR2	Maizex Seeds
20.8	78.0	66.2	30.4	54.5	11287	1765	2600	NSG 94S-961	RR	NorthStar Genetics
19.0	74.7	70.6	26.2	48.3	16090	1722	2625	2587VT2P/RIB	VT2P	CROPLAN
18.2	75.1	66.6	30.0	47.8	15083	1553	2675	2845VT2P/RIB	VT2P	CROPLAN
18.7	76.7	69.9	26.9	48.0	14351	1677	2700	Prime	3010	Greenfield Genetics
19.0	77.8	62.5	33.8	57.4	9850	1526	2700	LR 9090 VIP3220EZREF	VIP3220 EZREF	Legend Seeds
16.3	77.6	65.9	30.6	54.2	9757	1379	2725	LNG 9091 RR	RR	Legend Seeds
17.3	74.3		**Site Averages**							
9.96	3.03		CV							
Yes	Yes		Sign Diff							
2.8	3.7		LSD							
14-May			**Planting Date**							
17-Sep			**Harvest Date**							

3 Moisture content at harvest.
4 Milk per Acre was calculated using Milk 2006, a model developed by the University of Wisconsin Extension Service.
5 Beef per acre was calculated on the assumption that one pound of beef is produced for every six pounds of TDN.

Distributor Contacts for Listed Varieties in Seed Manitoba 2020

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.

DISTRIBUTOR CONTACTS — Forage Seed

Blight Native Seeds	1-204-267-2686
BrettYoung	1-800-665-5015
Canterra Seeds	1-877-439-7333
Dyck Forages and Grasses Ltd.	1-888-204-1000
Federated Coops Ltd.	1-306-664-1700
Interlake Forage Seeds	1-800-990-1390
Northstar Seed Ltd.	1-800-430-5955
Nutrien Ag Solutions	1-403-652-5820
Oldenburg Inc.	1-204-348-2294
Pickseed Canada	1-800-263-7425
Pioneer Hi-Bred Ltd.	1-800-265-9435
Prairie Habitats	1-204-467-9371
Progressive Seeds Ltd.	1-403-782-6169
Public Variety	Contact Manitoba Agriculture
S.S. Johnson Seeds	1-800-363-9442
SeCan	1-800-665-7333
Vandaele Seeds Ltd.	1-204-665-2384

DISTRIBUTOR CONTACTS — Corn Silage

Bayer CropScience Canada Inc.	DEKALB	1-800-667-4944
Delmar Commodities	Legend Seeds	1-888-974-7246
DLF Pickseed Canada Inc.	PICKSEED	1-204-633-0088
Fraser Seeds Ltd	Greenfield Genetics	1-604-857-3355
Horizon Seeds Canada Inc.	Horizon Seeds	1-855-983-7255
Maizex Seeds Inc.	Maizex Seeds	1-877-682-1720
NorthStar Genetics	NorthStar Genetics	1-204-262-2425
Nutrien Ag Solutions	Proven Seed	1-403-652-5820
PRIDE Seeds		1-800-265-5280
Quarry Seed		1-888-274-9243
Thunder Seed Canada Inc.	Thunder Seed	1-204-750-2192
WinField United Canada	CROPLAN	1-888-975-4769

Growers List

ALFALFA

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.

3010

Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952	C

4020MF

Starbuck; Shirtliff, Greg	204-735-2270	C

54Q14

Fisher Branch; Gregory, Lee R. & Adam	204-372-6720	C

ALGONQUIN

Hilbre; Hickman, Wallace	204-449-2095	C
Hilbre; Linde, Eric	204-449-2149	C
Hodgson; Shergold, Carla	204-372-6490	C

DYNAMO

Miami; Steppler, Ryan	204-750-2618	C

FG 59W205

Starbuck; Shirtliff, Greg	204-735-2270	C

POWER 4.2

Broad Valley; Woloshyn, Richard R.	204-372-6029	C

STRONGHOLD

Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952	C

SW4107

Fisher Branch; Gregory, Lee R. & Adam	204-372-6720	C

CANARYGRASS

CDC CIBO

Dufrost; Catellier, Patrick Raymond	204-347-5503	C

BIRDSFOOT TREFOIL

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.

BRUCE

Fisher Branch; Gregory, Lee R. & Adam	204-372-6720	C

LEO

Beausejour; Murash, Darrin	204-265-3303	C
Fisher Branch; Cymbalisty, Glenn	204-801-1062	C
Fisher Branch; Plishka, William	204-372-6895	C
Fisher Branch; Podaima, Lloyd	204-280-0122	C
Fisher Branch; Podaima, Mel J.	204-396-7905	C
Fisher Branch; Podaima, Ryan	204-372-6885	C
Fisher Branch; Shepell, Christopher M.W.	204-372-6844	C

RYEGRASS

AUBADE

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	C

BIG BANG

Oak Lake; Smith, Gerald R.& Leigh E.	204-855-3128	F	C

TIMOTHY

CLIMAX

Broad Valley; Hnatiuk, Johnny David	204-372-6748	C
Fisher Branch; Stewart, Dustin	204-724-2330	C

GLACIER

Stead; Kintop, Dennis Lloyd	204-635-2600	C

PROMESSE

Lac Du Bonnet; Brincheski, Robert John	204-345-2858	C

SUMMERGRAZE

Dauphin; Fisher, Roderick Allan & Douglas James & Allison	204-622-8800	C

TIFFANY

Arborg; S.S. Johnson Seeds Limited	204-376-5228	C

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Altona; LD Seed Company 204-304-0048
Altona; Sawatzky Seed Farms Inc. 204-324-4018
Altona; Wesmar Farms Ltd. 204-324-4097
Arborg; Burak Seeds 204-364-2480
Arborg; Floyd Farms Inc. 204-364-2308
Arborg; Foster Ag Services 204-364-2358
Arborg; Midlake Specialty Food Products 204-376-2824
Arborg; Nutrien Ag Solutions (Canada) Inc. 204-376-5990
Arborg; Paterson Grain 204-376-5353
Arborg; S.S. Johnson Seeds Ltd. 204-376-5228
Arborg; Timchishen Seeds 204-641-1288
Arnaud; GJ Chemical Co. Ltd. 204-427-2337
Ashville; Intermountain Ag Supply 204-648-3089
Baldur; David Desrochers 204-535-2090
Baldur; Pembina Co-op 204-535-2598
Beausejour; Bangert Farms Ltd. 204-268-1268
Beausejour; Delmar Commodities Ltd. 204-268-9797
Beausejour; Northland Applicators Ltd. 204-268-5135
Beausejour; Nutrien Ag Solutions (Canada) Inc. 204-268-3497
Beausejour; Parrish & Heimbecker Ltd. 204-268-4811
Binscarth; Inland Seed Corp. 204-683-2316

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Binscarth; Paterson Grain 204-532-2461
Boissevain; Armstrong Seeds 204-534-2566
Boissevain; Boissevain Select Seeds Ltd. 204-534-6846
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20/20 Seed Labs (Winnipeg) 3487 Pembina Hwy. Winnipeg, Manitoba R3V 1A4	**Shari Lafreniere** Tel: 1-877-420-2099 Fax: 1-888-900-1810 Shari@2020seedlabs.ca	Purity and germination of all crop kinds in Grade Tables I to XI (except Orchardgrass) and XVI to XX	None	
Accu-Test Seed Lab Box 579 2nd Ave. E Rivers, Manitoba R0K 1X0	**Dorothy Gerrard** Tel: (204) 328-5313 Fax: (204) 328-7400 dgerrard@redsper.ca	Purity and germination of all crop kinds in Grade Tables I to XI (except Orchardgrass) and XIII to XX	None	Pulses: Anthracnose, Botrytis Vomitoxin, Ascochyta spp.
SGS BioVision (Winnipeg) 930-167 Lombard Ave. Winnipeg, Manitoba R3B 0V3	**Ken Penner** **Sharon Khan** Tel: 204-942-8857 Fax: 204-942-8599 sharon.khan@sgs.com	Purity and germination of all crop kinds in Grade Tables I to XI (except Orchardgrass) and XIII to XX	See BioVision Edmonton Lab	Grain analysis, Vomitoxin Herbicide tolerance testing in RR Canola and LL Canola and RR Soybeans
Integrity Seed Lab Ltd. 8040 Park Royale Way Winnipeg, Manitoba R3V 1L5	**Glen Green** Tel: (204) 774-1882 info@integrityseedlab.com g.green@integrityseedlab.com	Purity and germination of all crop kinds in Grade Tables I to XI (except Orchardgrass) and XIII to XX	None	Herbicide tolerance testing in RR Canola and LL Canola and RR Soybeans Cereals: Vomitoxin
Saskatchewan				
AG Seed Lab Box 998 Carrot River, Saskatchewan S0E 0L0	**Loretta Buhler** Tel: (306) 768-3335 Fax: (306) 768-2169 agseedlab@sasktel.net	Purity and germination of all crop kinds in Grade Tables I to XX	Barley for True Loose Smut	Cereals: Fusarium. Pulses: Ascochyta, Anthracnose, Botrytus, Sclerotinia Canola: Blackleg, Alternaria, Sclerotinia
Discovery Seed Lab 450 Melville St. Saskatoon, Saskatchewan S7J 4M2	**Shirley Baraniski** Tel: (306) 249-4484 Fax: (306) 249-4434 sbaraniski@seedtesting.com	Purity and germination of all crop kinds in Grade Tables I to XI (except Orchardgrass) and XIII to XX	Barley for True Loose Smut	Flax: Triffid detection Cereals: Vomitoxin, Ochratoxin, fusarium, root rots, Wheat Midge Refuge testing, variety identification (Wheat & Barley) Pulses: Ascochyta, Anthracnose, Botrytis, Sclerotinia Canola: Blackleg, Alternaria, Sclerotinia Herbicide tolerance testing in RR Canola and LL Canola and RR Soybeans, clubroot (plant & soil) Clearfield confirm
Lendon Seed Lab 147 Hodsman Road Regina, Saskatchewa S4N 5W5	**Tej Prasad** Tel: (306) 585-7333 Fax: (306) 585-7337 lendon.seeds@gmail.com	Purity and germination of all crop kinds in Grade Tables I to VII and XVIII	None	
Prairie Diagnostic Seed Lab Inc. 1105 Railway Ave. E Weyburn, Saskatchewan S4H 3H5	**Bonnie Ernst** Tel: (306) 842-7375 Fax: (306) 842-7376 pdsl@sasktel.net	Purity and germination of all crop kinds in Grade Tables I to VII	Barley for True Loose Smut	
Seed Solutions Seed Labs Inc. Box 1420 Swift Current, Saskatchewan S9H 3G6	**Shanna Stolhandske-Dale** Tel: (306) 741-9309 Fax: (306) 773-4460 seedsolutions@xplornet.com	Purity: none Germination: Crop kinds in Grade Tables I to VI	Barley for True Loose Smut	
Alberta				
20/20 Seed Labs Inc. (AB) 507-11th Ave Nisku, Alberta T9E 7N5	**Carey Matthiessen** Tel: (780) 955-3435 Fax: (780) 955-3428 carey@2020seedlabs.ca	Purity and germination of all crop kinds in Grade Tables I to XX	Barley for True Loose Smut	Flax: Triffid detection Pulses: Ascochyta spp.
SGS BioVision (Sherwood Park) 280 Portage Close, Unit 310, Sherwood Park, Alberta T8H 2R6	**Terry McIntee** Tel: 1-800-952-5407 Fax: (866) 589-7051 terry.mcintee@sgs.com	Purity and germination of all crop kinds in Grade Tables I to XI (except Orchardgrass) and XIII to XX	Barley for True Loose Smut	Flax: Triffid detection CLEARFIELD confirm in wheat & lentils Cereals: Fusarium spp., Root Rot, Fungal Scan. Pulses: Botrytis, Anthracnose, Ascochyta spp. Canola: Blackleg Varietal Identification in barley & wheat
SGS BioVision (Grande Prairie) 10136 - 128 Ave., Unit 106 Grande Praire, Alberta T8V 1E9	**Michele Kulba** Tel: 1-877-532-8889 Fax: (780) 513-0115 michele.kulba@sgs.com	Purity and germination of all crop kinds in Grade Tables I to XX	None	
Precision Seed Testing Box 210 Beaverlodge, Alberta T0H 0C0	**Sherry Corvalan** Tel: (780) 354-2259 Fax: (780) 354-8955 precisionseed@xplornet.com	Purity: Crop kinds in Grade Tables I to VI, VIII to XI (except orchardgrass), XII to XV. Germination: Crop kinds in Grade Tables I to XI (except orchardgrass) XIII to XV	None	Cereals: Fusarium, Pulses: Ascochyta spp. Canola: Blackleg
Seed Check Technologies Inc. 101, 5906 - 50th Street Leduc, Alberta T9E 0R6	**Morgan Webb** Tel: (780) 980-8324 Fax: (780) 980-8375 morgan@seedcheck.net	Purity and germination of all crop kinds in Grade Tables I to XX	Barley for True Loose Smut	Fusarium, Blackleg, Alternaria, Sclerotinia, Ascochyta, Anthracnose, Botrytis, Root rot, Dome test, Herbicide tolerance, 1000 Seed weight, Vigour, Tetrazolium, Moisture, Clearfield of Lentil.

*Source: Canadian Food Inspection Agency, September 27, 2019

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NEW InVigor® L352C	InVigor L352C offers yield potential that exceeds InVigor L252. It is suitable for all growing zones and is ideal for growers that prefer to swath.	**108.6%** of the checks (InVigor 5440 and Pioneer 45H29) in 2017/2018 WCC/RRC trials **104%** of InVigor L252 (n=28 trials, 2018)	Half-day later than InVigor L252	First generation clubroot resistance[2] Rated R - for Blackleg
NEW InVigor® choice LR344PC	InVigor Choice LR344PC, the first InVigor Choice hybrid, has both the LibertyLink® technology system and TruFlex™ canola with Roundup Ready® Technology. You have the option to use Liberty® herbicide or Roundup WeatherMAX® herbicide on your canola.	**104.1%** of the new checks (InVigor L233P and Pioneer 45H33) in 2018 WCC/RRC trials **103.6%** of InVigor L233P (n=12 trials, 2018)	Over one day earlier than InVigor L252	Patented Pod Shatter Reduction First generation clubroot resistance[2] Dual herbicide trait systems: LibertyLink technology system and TruFlex™ canola with Roundup Ready® Technology Rated R - for Blackleg
InVigor® L233P	InVigor L233P was grown on more acres in Western Canada than any other canola hybrid in 2019[3]. This early-maturing, high-yielding hybrid provides exceptional harvest flexibility for growers looking to straight cut or delay swath. Winner of 2017 and 2018 Canola 100 contest.	**108.8%** of checks (InVigor 5440 and Pioneer 45H29) in 2014/2015 WCC/RRC registration trials	Over three days earlier than the average of checks	Patented Pod Shatter Reduction Rated R - for Blackleg
InVigor® L234PC	With both the patented Pod Shatter Reduction technology and second generation clubroot resistance, InVigor L234PC offers outstanding yield potential and strong standability similar to InVigor L233P. This hybrid is a great fit for growers in known clubroot-affected areas.	**104%** of the checks (InVigor 5440 and Pioneer 45H29) in 2017 WCC/RRC registration trials	Three days earlier than the average of checks	Patented Pod Shatter Reduction Second generation clubroot resistance[2] Rated R - for Blackleg
InVigor® L255PC	InVigor L255PC is a medium-height hybrid that has separated itself from others due to its very impressive standability and performance. It is well suited for growers in mid- to long growing zones.	**109%** of checks (InVigor 5440 and Pioneer 45H29) in 2016 WCC/RRC registration trials	One-and-a-half days later than the average of checks	Patented Pod Shatter Reduction First generation clubroot resistance[2] Rated R - for Blackleg
InVigor® L241C	You can expect strong standability and high yields from this mid-maturing hybrid that's well suited to all clubroot-affected regions. InVigor L241C won the 2016 Canola 100 contest with a yield of 81.43 bu/ac.	**102%** of checks (InVigor 5440 and Pioneer 45H29) in 2012/2013 WCC/RRC registration trials	One day earlier than the average of checks	First generation clubroot resistance[2] Rated R - for Blackleg
InVigor® L252	A consistent top performer, InVigor L252 continues to offer incredible yield performance and strong standability with mid-season maturity. InVigor L252 won the 2018 third-party Canola Performance Trials (CPTs) for the sixth straight year (average of all growing zones in small plot swath trials).	**110%** of checks (InVigor 5440 and Pioneer 45H29) in 2011/2012 WCC/RRC registration trials	One day later than the average of checks	Rated R - for Blackleg
InVigor® L230	Early-maturing InVigor L230 displays outstanding yield potential with excellent standability. This hybrid is ideal for growers who prefer an early-maturing hybrid that consistently performs.	**103.9%** of checks (InVigor 5440 and Pioneer 45H29) in 2014/2015 WCC/RRC registration trials	Over three days earlier than the average of checks	Rated R - for Blackleg

[1] Western Canadian Canola/Rapeseed Recommending Committee (WCC/RRC) trials.
[2] InVigor L345PC, InVigor L352C, InVigor Choice LR344PC, InVigor L255PC and InVigor L241C all contain the same clubroot resistance profile. InVigor L234PC contains this resistance profile plus second generation clubroot resistance to additional emerging clubroot pathotypes to help combat the evolving clubroot pathotypes.
[3] 2019 BPI (Business Planning Information) Data.

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