



2021 Variety Selection & Growers Source Guide

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F=Foundation; R=Registered; and C=Certified.)

Crops are sorted alphabetically by town and grower
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November 26, 2020

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Minister's Message



As the Minister of Agriculture and Resource Development, I am pleased to work with the Manitoba Seed Growers' Association and the Manitoba Cooperator to produce the 2021 edition of *Seed Manitoba*. This guide is an important tool for crop producers, providing valuable information on crop variety performance across all growing regions of Manitoba.

Having choice in varieties is important. *Seed Manitoba* helps to make decisions easier by providing clear comparisons of variety characteristics and performance across regions as well as a list of where seed can be found.

Agriculture continues to be one of Manitoba's most important industries to our economy and our communities. Crop producers play a key role in making agricultural products one of Manitoba's largest exports. Crop production also contributes to additional value, economic impact and jobs through our province's \$5 billion food processing and a strong agri-products industry.

This guide is made possible by the collaborative efforts of producers, commodity groups, crop research contractors, Manitoba Crop Variety Evaluation Team, and Manitoba Agriculture and Resource Development staff.

I wish everyone a successful 2021 growing season.

Honourable Blaine Pedersen

Minister of Agriculture and Resource Development

President's Message



The Manitoba Seed Growers' Association is proud to be associated with the 29th edition of *Seed Manitoba*.

Seed Manitoba has been, and continues to be, one of the most widely used tools for variety selection by farmers in Manitoba. The success of this publication results in part from the cooperative efforts of various industry related representatives and specialists who make up the Manitoba Crop Variety Evaluation Team

(MCVET). I would like to recognize the combined efforts of Manitoba Agriculture and Resource Development, the Manitoba Cooperator, and Industry partners who all play a part in delivering this valuable resource into Manitoba's agricultural producer's mailboxes every November.

As you review the variety trial results within this guide to decide which varieties are right for your operation, remember that your local seed grower can often provide added, regional insight on how new varieties compare having grown them alongside the established varieties in the years of seed increase leading up to commercial release.

I urge you to also take a moment to read the editorial content. Articles published in this guide reflect agronomic and policy issues facing Manitoba's Agricultural industry and are selected specifically to focus on issues we are facing at the moment.

The board of the Manitoba Seed Growers' Association are proud to be part of this publication, and it is our wish that as farmers are making important decisions for the 2021 growing season, the resources in this guide will be a critical source of information.

Daniel Sanders
President,

Manitoba Seed Growers' Association

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MCVET would also like to express its gratitude to:

South Interlake Crop Testing Committee (SICTC) and Crop Research Organization Portage (CROP) for locally organized variety trials

MCVET greatly appreciates the efforts of our site contractors and service providers:

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WELCOME TO SEED MANITOBA 2021

By Anne Kirk

*Seed Manitoba editor,
Manitoba Agriculture and Resource Development*

Welcome to *Seed Manitoba 2021*, 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. *Seed Manitoba* is a collaborative effort between industry, government and producers to provide third party variety performance information. This publication would not be possible without the sponsors, supporters, site contractors and commodity groups that donate data.

WHERE DOES THE DATA COME FROM?

Data is from replicated small plot trials grown across locations and years in Manitoba. The main data collected is yield and protein (wheat and barley only). Other agronomic information in the "Variety Description" tables is compiled from data submitted at the time the variety was registered. Some ratings in the "Variety Description" table, such as disease resistance, can change 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. Crops with wide adaptation such as barley, fall rye, oat, spring and winter wheat, 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.

HOW CAN SEED MANITOBA AND WWW.SEEDMB.CA HELP WITH VARIETY SELECTION?

Seed Manitoba provides unbiased replicated data, giving producers, seed growers, and seed retailers more insight into variety performance. Yield data is displayed by location to show local performance as well as summarized across locations and years. The on-line variety selection tool at www.seedmb.ca allows comparisons over multiple years and locations, which helps compare a new variety to your tried and true variety.

Any questions or concerns on *Seed Manitoba* can be directed to me at anne.kirk@gov.mb.ca. ■



PHOTO: ANNE KIRK, MANITOBA AGRICULTURE AND RESOURCE DEVELOPMENT



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FARM-MADE SEED ROYALTIES COULD PUSH OPEN-ACCESS VARIETIES OUT

The CFIA is asking whether farmers should have a say when a variety owner wants to de-register it

By Allan Dawson

Co-operator staff

The push to charge royalties on farm-saved seed is putting the process for deregistering varieties under new scrutiny during seed regulation modernization consultations now underway.

Royalty proponents have said repeatedly that farmers who don't want to pay an end point or trailing royalty on new varieties will have options to avoid them by continuing to save and grow seed from varieties that aren't protected under plant breeder's rights or otherwise limited by contract.

However, current regulations that allow the variety's owner to unilaterally cancel a variety's registration are raising doubts about those assurances.

While a farmer could still save and grow seed from a cancelled variety, he or she would, in all likelihood, only receive the lowest grade possible if it was delivered to the elevator. As well, buying or selling that variety for seed would become illegal.

The Canadian Food Inspection Agency (CFIA) is asking whether variety de-registrations should follow a broader criteria.

"We want to hear from everyone involved with seeds, everyone who has a stake in the regulations, whether or not it is appropriate for registrants to cancel registrations for varieties that still have value and are wanted by producers," Wendy Jahn, national manager of CFIA's Seeds Section and Canada's variety registration registrar wrote in an emailed response to questions.

"There may be stakeholder consensus that criteria should be met before a variety can be removed from the marketplace by the registrant," she said.

WHO DECIDES?

In other words, should farmers or end-users have a say?



Canola seed. PHOTO: CANOLA COUNCIL OF CANADA

"Farmers and other companies are free to express their opinions of course but they currently have no influence on the cancellation," she said.

Breeder de-registration is the most common path a variety would follow to obsolescence. The other path would be at the discretion of the CFIA registrar for "cause."

There are legitimate reasons to cancel a variety's registration, such as if a variety poses a risk to markets, seed industry officials say. However, that discretion is rarely used.

The debate over royalties on new varieties of farm-saved cereal seed has shed new light on the growing list of models used by the seed industry to recoup the cost of varietal development.

Farmers already pay royalties to plant breeders when they buy certified seed under plant breeders' rights. Canada signed onto to the international treaty on plant

breeders' rights called UPOV 91 in 2015, which increases the scope of Plant Breeders' Rights over the first treaty UPOV 78.

But those provisions do not prevent farmers from exercising their "privilege" to save and re-use seed.

Farmers also contribute through provincial checkoffs on cereals. But many in the seed industry have argued that's not enough to keep public and private breeders developing new and better varieties.

Variety use agreements are now commonly used to contractually restrict farmer from replanting seed they've purchased.

Hybrids make saving seed from last year's crop to replant non-viable.

NEW INCENTIVES

Cancelling the registration of open-pollinated or non-protected varieties is another way seed developers can transition farmers



to newer varieties. The imposition of royalties on new varieties creates an incentive to do just that.

Under seed legislation the rules around unregistered and cancelled varieties are the same, and farmers should be aware of the potential liability they can pose. (See sidebar)

Even though the registrant can cancel their variety registration, there is a process (see sidebar), which includes providing three years notice, except for hybrid canola, which requires just one year. (The variety registration cancellation list is here: <https://www.inspection.gc.ca/plant-varieties/variety-registration/registered-varieties-and-cancellations/registration-cancellations/eng/1410971290935/1410971291748>)

“Producers typically do not save seed from hybrid crops, so three years is not needed to ensure seed stores are all used,” Jahn wrote.

Advance notice allows time to flush seed of the pending cancelled variety from the marketplace, reducing the risk to farmers of being unable to sell that crop. (See sidebar)

There are 317 varieties in the cancellation queue starting from 2016 until September 2020.

“Out of the 317 variety cancellations listed on the CFIA website, there are no wheat varieties, 23 oat varieties, and nine barley varieties, for a total of 32 cereal varieties, listed for cancellation between now and August 1, 2022,” Jahn wrote.

Seed industry officials are adamant that as long as there’s commercial demand, variety registrations won’t be cancelled.

However, past experiences suggest farmers should be wary.

The patent expired on Roundup Ready 1 soybeans August 2011. That freed up seed companies to sell certified Roundup Ready 1 soybean seed to farmers unencumbered by an agreement prohibiting them from saving seed for subsequent plantings.

But few did. As one company official acknowledged at the time, it was more profitable to sell varieties that blocked farmers from planting saved seed.

PAST EXPERIENCES

In canola, CFIA’s Varieties of Crop Kinds Registered in Canada database https://www.inspection.gc.ca/active/netapp/regvar/regvar_lookupe.aspx shows a total of 162 open-pollinated spring brassica napus canolas have had their registrations cancelled.

The CFIA says it is unclear how many of the 140 open-pollinated varieties still registered are still on the market. Anecdotally, some farmers say they are hard to find. At least two of the registered open-pollinated varieties still being advertised for sale come with restrictions on saving the seed.

“We have no way of knowing what is available in terms of common seed sales,” Jahn wrote.

The vast majority of canola seed purchased by Western Canadian farmers are hybrid varieties so saving seed isn’t an option.

CFIA’s database shows 43 napus hybrids have had their registrations cancelled, while 247 have a national registration. (Another 42 have contract (four) and interim (38) registration.)

Wheat is the focus of the new royalty debate. It is the most planted annual crop in Western Canada, and much of it is sown with saved seed.

Of the 463 wheats registered in Canada, 13 that were covered by some form of Plant Breeders’ Rights have had their registrations cancelled, Jahn wrote.

More **SEED ROYALTIES** on page 10 »

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“This represents 1.24 per cent of the varieties of wheat available for sale in Canada,” she added.

However, until one of those proposed royalties is implemented arguably there’s no incentive to cancel any wheat registrations.

Canadian seed regulations go back to 1905, and while they have been tweaked, there hasn’t been a holistic review for many years, Jahn wrote.

CONSULTATIONS UNDERWAY

Those who want to help influence changes in the regulations can do so through the Seed Regulatory Modernization Working Group, task teams feeding into the working group, and by participating in opportunities for broad-based consultation, she wrote.

The working group, which started meeting in September, is part of the Agriculture and Agri-Food Canada value chain round tables. It includes members of the seed industry, producer associations, full-value chain commodity organizations, public breeders and other interest groups. It will develop recommendations for regulatory change.

The group will assign a number of task teams to take a deep dive into different parts of the regulatory framework and come up with options for change, Jahn wrote.

“These task teams will include additional stakeholder members outside of the working groups so there will be the opportunity to include wide input into the development of regulatory amendment options,” she wrote.

There will also be broad-based stakeholder engagement early in the process.

A survey this winter will ask:

- What are the benefits of the current regulatory seed system?
- What are the opportunities for change and what issues need to be addressed?
- What is the comfort with further industry delivery of regulatory services?

A second broad engagement on the options and recommendation for changes will be held, Jahn wrote.

Formal consultation on proposed regulatory changes will include publication in the Canada Gazette parts I and II.

“As we modernize the regulations, it’s important to hear from everyone with a stake in them.” ■

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HOW VARIETY ‘DEREGISTERING’ PROCESS WORKS NOW

By **Allan Dawson**

Co-operator staff

The Canadian Food Inspection Agency (CFIA) says the following is the process for cancelling a crop variety registration:

- 1) A request from the registrant is received by the Variety Registration Office (VRO).
- 2) The requester is asked for written assurance that seed stocks of the variety are removed, or will be removed, by the end of the three year notification of intent to cancel period. Three years notice is given, except for hybrid canola, to protect farmers from delivering an unregistered variety to Canada’s grain elevators.
- 3) CFIA posts the cancellation notification list on its website (<http://www.inspection.gc.ca/plants/variety-registration/registered-varieties-and-cancellations/registration-cancellations/eng/1410971290935/1410971291748>)

In addition, notice that a registration is being cancelled is sent to interested parties, including the registrant, Canadian Grain Commission (CGC), the Canadian Seed Growers Association, and CFIA staff.

CFIA and the CGC have developed communications protocol, which includes the CGC notifying farmers through Canada’s grain elevator network and other channels.

“If the CFIA is approached by an interested party — e.g. a farmer or an independent seed dealer — expressing an interest in a variety slated for cancellation, we (CFIA) put them in touch with the registrant of that variety in order to explore possible licensing arrangements,” a CFIA official wrote in an email. ■

PARTICIPANTS IN SEED REGULATION MODERNIZATION PROCESS

These are the member organizations contributing to the Seed Regulatory Modernization Working Group:

SEED INDUSTRY:

- 1) Canadian Seed Trade Association (CSTA)
- 2) Canadian Seed Growers Association (CSGA)
- 3) Canadian Seed Institute (CSI)
- 4) Commercial Seed Analysts Association of Canada (CSAAC)
- 5) Authorized Seed Crop Inspection Services (ASCIS)
- 6) Canadian Plant Technology Agency (CPTA)

PRODUCER GROUPS:

- 1) Canadian Federation of Agriculture (CFA)

- 2) Grain Growers of Canada (GGA)
- 3) Union des Producteurs Agricoles (UPA) or Producteur de Grains du Québec (PGQ)

VALUE CHAIN GROUPS:

- 1) Pulse Canada
- 2) Cereals Canada
- 3) Canadian Horticultural Council
- 4) Canadian Potato Council

PUBLIC BREEDERS:

- 1) Crop Development Centre (University of Saskatchewan)
- 2) Agriculture and Agri-Food Canada

OTHER:

- 1) SeedChange
- 2) Canadian Organic Trade Association

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LEGALITIES, LIABILITY AROUND CANCELLED VARIETIES

While it's illegal to sell the seed of a cancelled variety, farmers can continue to grow and sell them

By Allan Dawson

Co-operator staff

It's illegal under Canadian seed regulations to sell seed of an unregistered or cancelled (deregistered) variety.

Given that three years notice is required before a registered variety can be cancelled so seed can be flushed from the marketplace, and that farmers must sign a declaration at the elevator saying they are delivering registered varieties, one might assume growing and selling unregistered or cancelled varieties would be illegal too.

It's not, Remi Gosselin, the Canadian Grain Commission's head of communications, said in an interview Sept. 25.

However, it's not risk-free.

The key is to declare what is being delivered and to talk with buyers ahead of time, Wade Sobkowich, executive director of the Western Grain Elevator Association, said in an interview Oct. 5.

Farmers who deliver unregistered or cancelled varieties will receive the lowest grade for the intended class, Gosselin said.

"But there is nothing that prevents elevators from purchasing that grain on spec (specifications), and to pay for the quality value," he said.

While that's true, Sobkowich warned "more likely than not, the price is going to reflect the price for the lowest grade," but added, "but that's not necessarily true in all cases."

Knowing what farmers are delivering is one of the pillars of Canada's grain quality control system, especially for milling wheat. Wheat delivered into the bulk handling system is segregated by class. It ensures end-users get what they want, while keeping segregation costs down.

If unregistered or cancelled varieties get into the wrong bin they have the potential to downgrade not only that bin, but an entire ship, which could result in thousands of dol-



Remi Gosselin. PHOTO: ALLAN DAWSON

lars in damages, which a farmer might be on the hook for.

That's the risk of buying common seed, Manitoba Agriculture and Resource Development pulse crop specialist Dennis Lange warned during an interview Oct. 6.

"The only way to really know what you've got is to buy certified seed," he said.

Crop insurance data shows in 2019 Manitoba farmers insured more than 50,000 acres of Roundup Ready 1 (RR1) soybeans whose registrations were cancelled — 21,333 acres of ISIS and 30,051 acres of PS 00027.

While farmers can legally grow and sell both, they should inform buyers to allow for proper segregation and avoiding potential liability.

Another consideration is where seed from a cancelled variety came from.

It wasn't certified because there is no certified seed for cancelled varieties.

While farmers can grow and sell a cancelled variety, it's illegal for someone to

sell a cancelled variety for seed, Wendy Jahn, national manager of Canadian Food Inspection Agency's (CFIA) Seeds Section, and Canada's variety registration registrar, wrote in an email.

"When it comes to variety cancellation, in addition to complaints received, inspectors also monitor online seed sale advertisements to watch for non-compliant seed," she wrote. "Enforcement (under seed regulations by the CFIA) would likely include actions such as warning letters and potential detention of seed."

That raises questions about whether the seed from cancelled soybean varieties was purchased legally to begin with.

"There were a limited number of people who had purchased a couple of (RR1) varieties that actually met that requirement (that allowed them to save that seed after the patent on the RR1 trait expired in 2011)," Lorne Hadley, executive director of the Canadian Plant Technology Agency, which polices Plant Breeders' Rights, said in an interview Oct. 5.

"There are still Roundup Ready 1 soybeans available on the market today, but most of them would come with a single-use requirement — you're only going to use them once (and not save and plant seed)."

Unlike ISIS and PS 0027, they are registered.

"If deregistered, and a farmer sold it into the system without declaring it was cancelled, the farmer could be liable," he added.

It's important for farmers to know what varieties they are growing and selling, Komie Hossini, a spokesman for Bayer wrote in an email Oct. 8.

"Our goal is to help growers not only get the most out of the system that works best in their operation, but also help them make the best choices for success," he wrote. "This includes clarifying any uncertainties they may have in the seeds they choose to grow. It's also important for growers to know that we're not in a position to provide legal advice on the matter of RR1... soybean seeds. ■"

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CROP ROTATION AND DISEASE MANAGEMENT

Simply adding crops to your rotation isn't a silver bullet for disease

David Kaminski

Field Crop Pathologist
Manitoba Agriculture and Resource Development

Across Manitoba, producers are relying on three major field crops: canola, wheat and soybean. Based on harvested acreage in 2019 (Yield Manitoba), these three crops made up 80 per cent of the annual field crop area. But there are other crops with enough production to merit tracking by MASC in Yield Manitoba: oats, corn, barley, dry beans, field pea, sunflower and flax. None of these crops is threatening to displace the top three. But let us consider the pros and cons, from a disease risk reduction standpoint, of adding other crops to our seeding choices.

Is crop rotation a cure-all or a “silver bullet”? In a word, no.

When might rotation not be a successful strategy? Whenever the pathogen has a very wide host range.

First, we should examine which diseases are the most damaging in terms of losses and/or cost of intervention. Next, which are the biggest looming threats to reliance on each of the major crops?

CANOLA

Let us start with canola. It makes up more than 35 per cent of the annual crop acreage in Manitoba, so it's being grown, on average, once every three years. Averages can be misleading; in Risk Area 3, on the west side of southern Manitoba, the proportion is higher, 42 per cent. And we know that there are some Rural Municipalities where that figure is well over 60 per cent; there canola is being grown twice in a three-year cycle. Is that sustainable?

Sclerotinia stem rot: Sclerotinia stem rot is a fungal disease that is built for long-term survival. It thrives in wet seasons and leaves behind tough little structures (sclerotia) that can last up to three years in the soil, apart from a host crop. Rotation alone



Leaf lesions of blackleg (red arrow) and Sclerotinia (blue arrows)

Canola makes up more than 35 per cent of the annual crop acreage in Manitoba, so it's being grown, on average, once every three years.

cannot eliminate the threat of this disease because it infects virtually all of the broad-leaf crops. Fortunately for canola, we have a variety of fungicides that can protect the plants when infection risk is high.

Rotation is most important when sexual recombination is happening, as it does with the organisms that cause blackleg and clubroot.

Blackleg: Blackleg has a bigger impact the shorter the rotation. It's a true stubble-borne disease and it survives on the woody stem base, which takes a long time to break down. With blackleg, by growing the crop too frequently, you might also be unconsciously selecting for pathotypes that can overcome built-in resistance to the pathogen.

Clubroot: The looming threat to canola production is clubroot. This soil-borne disease has long-lived, thick-walled resting spores. You can easily spread the pathogen from field to field on soil clinging to equipment or vehicles.

If there's an upside to both blackleg and clubroot, it is that they are both specific to the one host crop (and a few related weed species). The longer one can stretch the crop interval between canola crops, the less chance that they'll become a persistent problem, allowing breeders to stay ahead in the development of resistant cultivars. One should consider “making room” for other crops in the rotation.

CEREALS

Fusarium head blight: Fusarium head blight (FHB) has been a perennial issue in wheat since the early 90's. There has been significant improvement in varietal resistance; however, fungicides only suppress the disease. When the occurrence of heat and humidity coincide with the crop's flowering period, the combination of varietal resistance and fungicide use may still be overcome by the disease. Unfortunately, the main organism of concern in Manitoba, *Fusarium graminearum*, has a rather wide host range. It has recently been shown to cause root rots in pulse crops such as field peas and dry beans. Corn and other small grain cereals are also susceptible to *F. graminearum*. Thus, rotation is not a dependable management tool in the battle against FHB.

Leaf diseases: What about leaf diseases on wheat? Some, like leaf rust, have no possibility of surviving in the absence of a living host. The spores that cause infection are blown into our region from the south; crop history has no impact on the severity of disease. Tan spot and Septoria, on the other hand, are stubble-borne diseases that will be reduced by lengthening the rotation. Other cereals such as barley and oats are not really hosts. The most common leaf disease on barley is net blotch and the most common leaf disease on oats is bacterial blight. Both are only likely to cause an impact when these crops are grown in short rotation.



Early symptoms of clubroot on side roots of canola

PULSE CROPS

Field peas: Field peas have experienced an increase in acres because of a market trend to using pea protein. The agronomic advantages of peas in rotation include less reliance on fertilizer nitrogen and improved soil tilth. There are several diseases that require a significant break — the ascochyta blight complex and a root rot known as *Aphanomyces*. Experience in Saskatchewan suggests that more than 4 years may be needed to break down its resting spores.

Soybean: Soybeans have some real advantages as a rotational crop. One of the major advantages is in weed management — glyphosate-tolerant cultivars allow for the management of many weed spe-

cies, particularly perennials, which are not easily controlled in wheat or canola. Leaf diseases that appear regularly in provincial surveys (bacterial blight, brown spot, and downy mildew) do not generally warrant fungicide application. The one disease that is troublesome in wetter cycles, and under short rotation intervals, is a root rot called *Phytophthora*. Also, looking across the border where soybeans have been grown longer we know that soybean cyst nematode (SCN) has become a debilitating soil-borne issue over time. It has recently been found in Manitoba. Managing SCN will require methods much like those used to combat the spread of clubroot. If and when SCN is on your doorstep, it's time to opt for SCN-resistant varieties. ■

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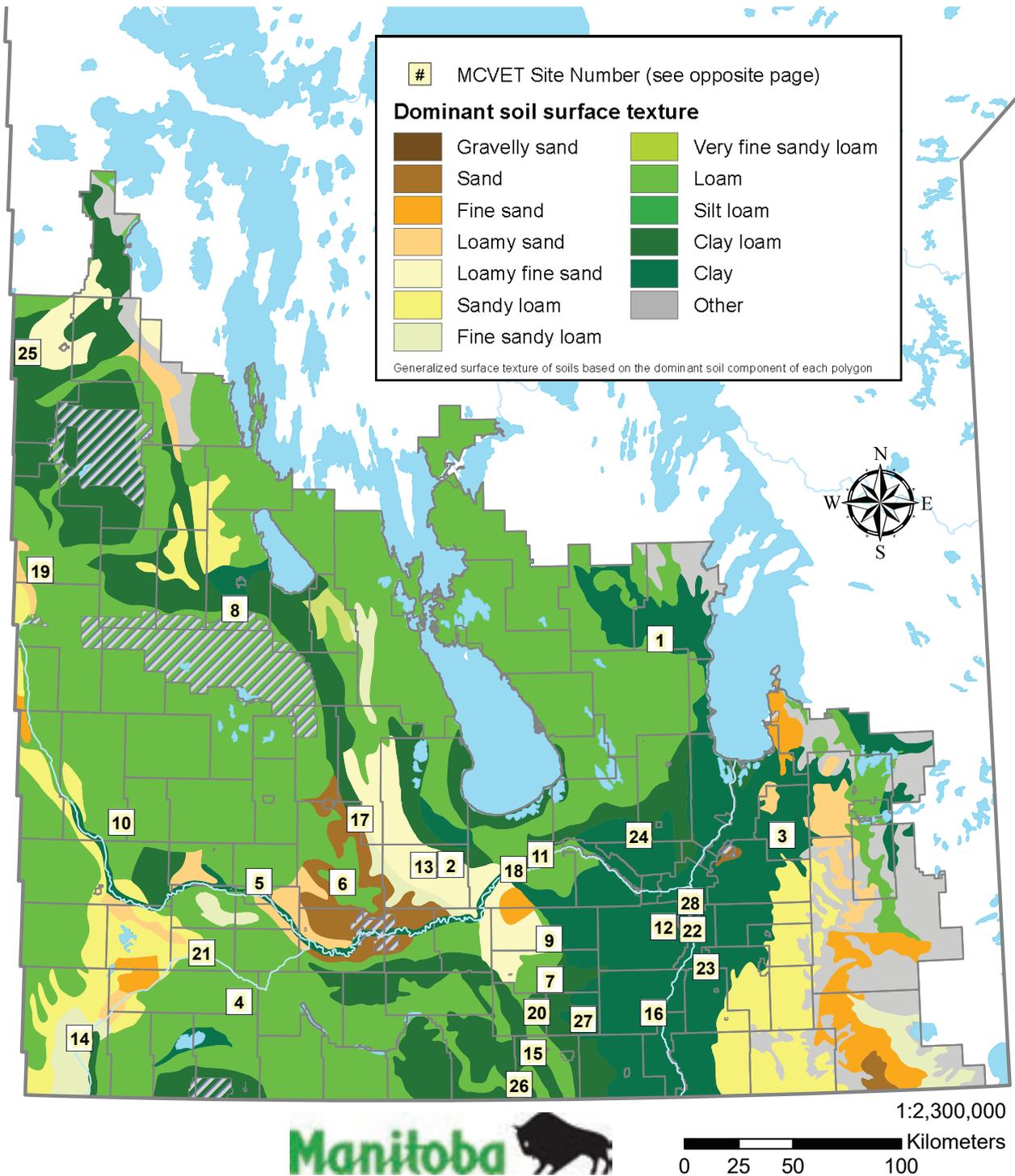
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2020 LOCATIONS OF VARIETY EVALUATION TRIALS



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	212	65%	1600	109%	Arborg
2 Bagot	Ag-Quest Inc.	sandy loam	imperfect	171	52%	1673	98%	Bagot
3 Beausejour	PESAI	clay loam	imperfect	290	83%	1667	103%	Beausejour
4 Boissevain	Ag-Quest Inc.	loamy	imperfect	234	77%	1737	103%	Minto
5 Brandon	Agriculture & Agri-Food Canada	clay loam	well	340	108%	1653	108%	Brandon
6 Carberry	CMCDC	clay loam	well	250	79%	1630	107%	Carberry (EC)
7 Carman	University of Manitoba, Ag-Quest Inc.	loam	imperfect	201	61%	1720	103%	Carman
8 Dauphin	Ag-Quest Inc.	silty clay loam	imperfect	314	91%	1614	107%	Dauphin
9 Elm Creek	Ag-Quest Inc.	coarse loam	imperfect	187	57%	1787	107%	Elm Creek
10 Hamiota	Ag-Quest Inc.	clay loam	well	238	85%	1534	101%	Hamiota
11 High Bluff	BASF	loamy	imperfect	199	61%	1812	107%	Portage la Prairie
12 La Salle	Haplotech	clay	imperfect	215	63%	1750	105%	St. Adolphe
13 MacGregor	Ag-Quest Inc.	coarse loam	imperfect	199	61%	1812	107%	Portage la Prairie
14 Melita	WADO	loamy	imperfect	188	64%	1709	102%	Melita
15 Morden	DL Seeds Inc. DuPont Pioneer	clay loam	well	195	58%	1836	104%	Morden
16 Morris	Ag-Quest Inc.	heavy clay	imperfect	319	98%	1729	102%	Morris
17 Neepawa	ICMS	clay loam	well	250	73%	1575	99%	Neepawa
18 Portage la Prairie	CROP/ICMS Ag-Quest Inc.	sandy loam	imperfect	199	61%	1812	107%	Portage la Prairie
19 Roblin	PCDF	loamy	well	253	84%	1424	102%	Roblin
20 Rosebank	Nutrien	loamy	imperfect	195	58%	1836	104%	Morden
21 Souris	AgQuest Inc.	loamy	imperfect	248	79%	1657	109%	Souris
22 St. Adolphe	Richardson	heavy clay	imperfect	215	63%	1750	105%	St. Adolphe
23 St. Pierre	Ag-Quest Inc.	heavy clay	imperfect	309	97%	1757	108%	St. Pierre
24 Stonewall	Solum Valley Biosciences Inc.	clay loam	imperfect	236	71%	1719	105%	Stonewall
25 Swan River	New Era Ag Technologies	clay loam	imperfect	251	74%	1503	102%	Swan River
26 Thornhill	Ag-Quest Inc.	loamy	well	243	73%	1587	89%	Windy Gates
27 Winkler	Ag-Quest Inc., Maizex	sandy loam	well	226	68%	1851	104%	Winkler
28 Winnipeg	University of Manitoba	silty clay	imperfect	204	60%	1732	104%	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, MSPG, CHTA, and CPT 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 2021 can be directed to the individuals listed below:

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

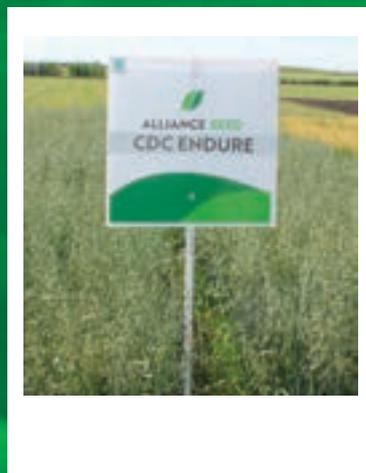
For Grain Corn and Sunflowers, please contact Daryl Rex at (204) 745-6776 or e-mail daryl@mbcropalliance.ca

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 2002 to 2020, while protein is from 2004 to 2020. 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 Breeders Rights legislation that complies with UPOV 1978.

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

Key to 2020 Yield & Protein Tables

Yields derived over 2 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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Manitoba Agriculture Variety Guide

BARLEY

New for 2021

Variety	Type	Code	Breeder	Distributor	Seed Availability
AB BrewNet	Malting - 2 Row	TR16629	Patricia Juskiw, FCDC	SeedNet	2023
AB Wrangler	Food and Feed - 2 Row	TR17639	Patricia Juskiw, FCDC	Canterra Seeds	
AB Tofield	Food and Feed - 6 Row	SR17515	Joseph Nyachiro, FCDC	SeCan	2022
Esma	Food and Feed - 2 Row	SC18-032RB	Ackermann Saatzzucht GmbH & Co. KG	SeCan	2021
KWS Kellie	Food and Feed - 2 Row	SC18-042RB	KWS LOCHOW GMBH	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 “2020/21 Recommended Malting Barley Varieties” on page 26. 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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- ✓ Earliest Maturity
- ✓ Best ratings for Fusarium
- ✓ Shorter straw with good lodging rating



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

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)⓪	41	106	12.4	0	-3	-0.5	R	G	S	R	MS	I	MR	MR	MR	MR	MR
AAC Synergy (2)⓪	44	113	12.2	0	-2	-0.4	R	G	S	I	I	MR	R	R	MR	I	I
AC Metcalfe (2)	217	97	12.9	0	0	0	R	F	R	I	I	S	I	I	MR	I	I
CDC Bow (2)⓪	50	105	12.1	1	3	0.5	R	G	S	I	MS	S	MR	I	MR	MS	MS
CDC Copeland (2)	51	98	12.4	0	5	-0.5	R	F	MS	I	I	I	I	S	MR	I	I
CDC Fraser (2)⓪	38	108	12.1	1	0	-0.7	R	G	R	MR	MS	MR	MR	MR	MR	MR	I
Malting: Other																	
AAC Goldman (2)⓪	56	107	12.6	1	3	-0.4	R	F	MS	I	S	I	R	I	I	MR	MR
AB BrewNet (2)⓪	18	108	12.8	3	5	0	—	G	MS	MR	—	MS	I	I	MR	MR	MR
Bentley (2)⓪	41	103	12.4	0	5	-0.8	R	G	MS	MR	I	MS	R	I	MR	I	I
CDC Churchill (2)⓪	31	110	12.2	1	-5	-0.2	R	G	MS	MR	—	MR	MR	I	MR	MS	MS
CDC Copper (2)⓪	31	106	12.3	1	-5	-0.7	R	G	I	MR	MR	MR	MR	I	I	MS	MS
CDC Goldstar (2)⓪	14	105	12.4	0	0	0	R	G	I	R	S	I	MR	I	I	MS	MS
CDC Kindersley (2)⓪	34	103	12.6	-1	-3	0	R	G	S	R	I	MS	MR	I	MR	I	I
CDC Meredith (2)⓪	42	103	12.4	2	-3	-2.1	R	F	R	MR	I	MS	R	MS	MR	I	I
CDC PlatinumStar (2)⓪	18	100	12.2	0	3	-0.5	R	F	S	R	S	I	MR	S	I	MR	MR
CDC Polarstar (2)⓪	20	99	12.8	-1	0	-0.6	R	F	S	R	MS	S	MR	MS	S	MR	MR
Celebration (6W)⓪	35	104	13.4	-1	5	0	S	G	R	R	MS	S	MR	MR	I	MS	MS
Lacey (6W)	41	104	—	1	5	-0.7	S	G	I	MR	MR	S	I	MR	MR	S	S
LEGACY (6W)	36	106	—	-2	8	0	S	F	I	MR	MR	S	MR	MR	MR	MS	MS
Lowe (2)⓪	35	103	12.3	2	5	-0.4	R	G	R	R	—	I	MR	I	S	MR	MR
Newdale (2)⓪	61	109	12.6	0	-3	-0.5	R	F	S	MR	MR	I	MR	I	MR	I	I
Sirish⓪	48	103	12.3	1	-13	-0.3	—	VG	S	R	—	MS	MS	MS	S	MS	MS
Stellar-ND (6W)	32	100	12.8	-2	5	0	R	G	MR	R	MS	S	I	MR	I	I	I
Tradition (6W)	59	105	13.0	2	10	0.8	S	F	S	MR	MR	S	I	MR	MR	S	S
Food and Feed																	
AB Advantage (6)⓪	30	107	13.2	1	15	0	S	VG	MR	I	—	MS	I	I	I	S	S
AB Cattlelac (6)⓪	31	110	12.8	1	11	1.3	SS	VG	I	R	—	MS	MR	MR	I	S	S
AB Tofield (6)⓪	18	111	12.1	1	5	1	S	VG	—	MR	—	MS	I	I	R	S	S
AB Wrangler (2)⓪	18	108	12.3	0	1	-0.2	R	F	MS	MR	—	I	I	MR	R	MR	MR
AC Ranger (6F)	38	109	—	1	-8	0.1	S	G	MS	I	MR	I	MR	MR	MR	S	S
Altorado⓪	32	111	12.2	0	-5	0.7	R	G	MR	MR	MR	S	I	S	MR	I	I
Amisk (6)⓪	30	116	12.6	1	0	-2.3	SS	VG	S	MS	MS	I	MR	MR	MR	S	S
Brahma (2)⓪	36	109	12.4	0	-5	0.5	R	G	MS	R	MR	S	I	S	MR	I	I
Breton (6F)	30	106	12.3	0	-5	0.8	S	G	MS	MR	I	I	MR	MR	MR	S	S
Canmore (2)⓪	33	109	12.4	1	0	0.7	R	G	R	R	I	MS	MR	I	MS	I	I
CDC Austenson (2)⓪	44	114	12.2	1	0	0.5	R	G	S	R	I	MS	R	MR	I	I	I
CDC Coalition (2)⓪	39	105	12.4	1	5	0.8	R	VG	R	MR	I	S	MR	I	MR	I	I
CDC Cowboy (2F)⓪	50	96	13.1	1	15	1.3	R	F	MS	MR	I	I	MR	I	MR	MR	MR
CDC Maverick (2F)⓪	29	97	13.4	1	10	5.4	S	F	S	R	I	I	MR	I	MR	MR	MR
CDC YORKTON (6W)	12	112	—	0	13	-3	S	G	MS	MR	MR	I	MR	MR	MR	S	S
Champion (2)⓪	44	111	12.3	0	0	0.8	R	G	S	R	—	S	I	MS	I	I	I
Claymore (2)⓪	44	117	12.0	0	0	-0.2	R	G	S	R	I	S	I	MS	MR	MR	MR
CONLON (2)⓪	88	94	12.8	-1	-3	0.8	S	G	I	I	I	I	MR	S	MR	MR	MR
Desperado (6F)⓪	44	106	12.7	1	5	2.5	S	G	MS	R	MR	S	MR	MR	MR	S	S
Oreana (2)⓪	44	111	11.8	2	-13	0.2	R	G	S	R	I	S	MR	I	I	S	S
Hulless																	
CDC Ascent (2)⓪	35	91	13.8	2	-3	8	R	G	MR	MR	I	S	MR	I	I	MR	MR
CDC Clear (2)⓪	29	97	12.6	2	5	9	R	F	R	R	I	MS	R	I	MR	MR	MR
Varieties being tested for adaptability in Western Canada																	
Esma (2)⓪	8	109	12.2	1	-10	-0.4	—	G	—	—	—	—	—	—	—	—	—
KWS Kellie (2)⓪	7	97	12.1	1	-11	-1.5	—	P	—	—	—	—	—	—	—	—	—
Varieties supported for registration by the PRCOB																	
Malting: Other																	
TR17635 (2)	7	108	12.3	2	4	-0.6	—	F	I	R	—	MS	MS	I	I	MR	MR
Food and Feed																	
FB209 (2F)	7	106	12.4	1	7	-0.3	S	F	I	MR	—	MS	MR	MS	MR	MR	MR
SR17519 (6)	6	104	12.9	1	3	0.5	S	VG	—	R	—	MR	I	I	R	MS	MS
SR18524 (6)	7	107	12.5	2	-4	0.3	S	G	—	R	—	MR	I	MR	MR	S	S
TR16742 (2)	7	104	12.3	0	0	-0.5	—	G	MS	R	—	R	MR	MR	R	I	I
TR18645 (2)	7	117	12.6	0	4	-0.4	—	G	—	R	—	MR	I	I	R	I	I
TR18647 (2)	7	105	12.4	1	4	0	—	G	—	R	—	I	I	I	MR	MR	MR
GRAND MEAN		108	12.5														
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.

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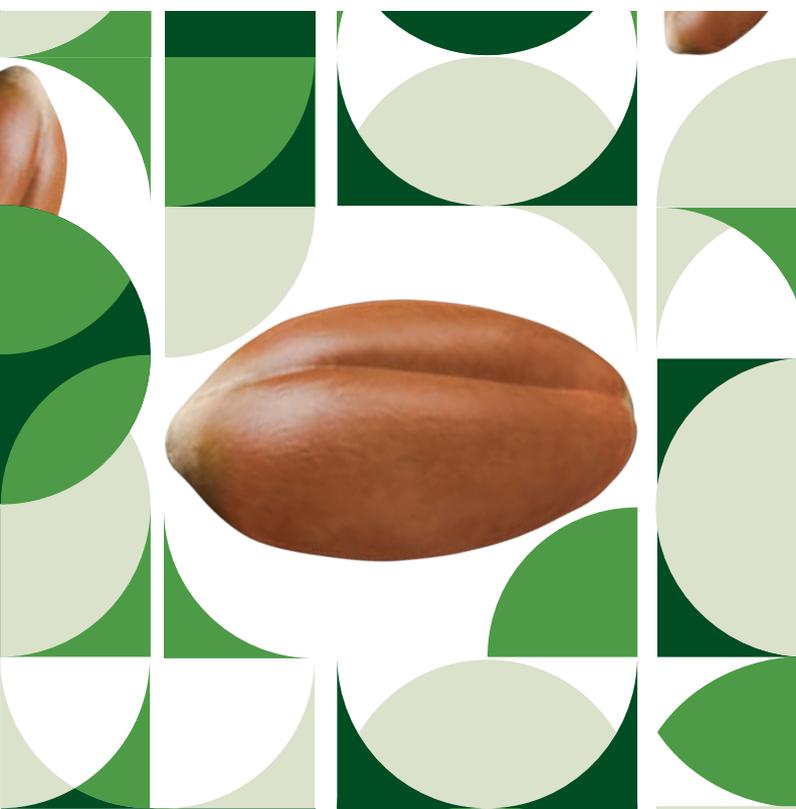
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BARLEY (continued)
Yield Comparisons

Variety	2020 Yield (bu/acre)											
	Arborg	Boisevain	Dauphin	Hamiota	Melita	Neepawa	Portage	Roblin	Rosebank	St. Adolphe	Stonewall	Thornhill
Malting												
AAC Connect (2)⓪	—	101	—	149	95	—	156	—	118	135	—	—
AAC Goldman (2)⓪	—	101	—	138	98	—	153	—	125	134	—	—
AAC Synergy (2)⓪	118	101	153	150	98	176	147	103	120	141	109	104
AB BrewNet (2)⓪	119	101	137	140	91	155	146	111	123	137	104	108
AC Metcalfe (2)	107	93	119	127	91	147	140	91	113	125	101	97
CDC Bow (2)⓪	—	94	—	135	85	—	140	—	123	111	—	—
CDC Churchill (2)⓪	124	97	150	148	98	164	152	96	125	123	103	112
CDC Copper (2)⓪	114	100	147	139	99	158	124	92	128	142	101	89
CDC Fraser (2)⓪	—	95	—	140	90	—	136	—	117	125	—	—
Food and Feed												
AB Advantage (6)⓪	108	89	130	126	68	150	157	117	127	117	107	110
AB Cattelac (6)⓪	126	106	153	144	99	168	171	118	141	135	100	104
AB Tofield (6)⓪	115	104	148	144	88	169	187	116	135	125	102	103
AB Wrangler (2)⓪	124	100	147	140	101	148	141	97	119	129	103	94
Varieties being tested for adaptability in Western Canada												
Esma (2)⓪	133	102	138	132	—	—	139	—	—	138	109	100
KWS Coralie (2)	116	120	126	113	—	—	126	—	—	143	—	84
KWS Kellie (2)⓪	118	101	114	117	—	—	125	—	—	151	—	59
Varieties supported for registration by the PRCOB												
Malting												
TR17635 (2)	109	100	149	143	—	—	140	—	—	145	—	96
Food and Feed												
FB209 (2F)	112	98	140	125	—	—	136	—	—	156	—	93
SR18524 (6)	114	106	147	137	—	—	128	—	—	123	—	106
TR16742 (2)	122	101	130	125	—	—	143	—	—	128	—	97
TR18645 (2)	128	112	155	148	—	—	167	—	—	146	—	106
TR18647 (2)	124	98	134	137	—	—	141	—	—	131	—	94
SITE GRAND MEAN (bu/acre)	118	101	140	136	92	159	145	105	124	134	103	98
CV %	4.3	5.7	2.8	3.8	3.5	4.7	5.6	4.1	5.4	4.7	3.8	6.3
LSD (bu/acre)	8	10	7	9	6	13	13	8	11	10	7	10
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	12-May	30-May	06-May	07-May	19-May	22-May	28-May	12-May	26-May	11-May	21-May	27-May
Harvest Date	17-Aug	01-Sep	26-Aug	25-Aug	11-Aug	26-Aug	21-Aug	21-Aug	20-Aug	18-Aug	20-Aug	16-Sep

Protein Comparisons

Variety	2020 Protein (%)											
	Arborg	Boissevain	Dauphin	Hamiota	Melita	Neepawa	Portage	Roblin	Rosebank	St. Adolphe	Stonewall	Thornhill
Malting												
AAC Connect (2)†	—	9.4	—	11.6	9.4	—	13.6	—	12.3	13.1	—	—
AAC Goldman (2)†	—	8.4	—	11.5	9.6	—	13	—	12.6	13.1	—	—
AAC Synergy (2)‡	13.4	8.9	11.7	11.5	9.9	12.5	14.1	11.8	12.2	12.9	11.9	13.3
AB BrewNet (2)†	14.1	8.6	12.6	12.2	10.1	13.5	15.5	12.5	12.6	14	11.3	14.3
AC Metcalfe (2)	14.3	9.6	12.6	12.3	10.2	13.3	15	12.8	12.8	13.9	12.4	14.1
CDC Bow (2)†	—	8.7	—	11.8	10.5	—	14.3	—	11.9	13.8	—	—
CDC Churchill (2)†	13	8.7	11.7	11.5	9	12.5	13.8	12.6	12.3	13.4	11.4	13.3
CDC Copper (2)†	13.7	8.8	11.8	11.6	9.3	12.7	14.5	12.6	11.9	13.2	11.7	13.5
CDC Fraser (2)†	—	9.5	—	11.7	9.3	—	13.6	—	12	13.2	—	—
Food and Feed												
AB Advantage (6)†	14	10.5	13.2	13.2	12.7	15.2	14.2	12.5	14.6	14.5	11.6	13.3
AB Cattelac (6)†	14.4	9.9	12.8	12.5	9.9	13.1	14.8	12.6	12.8	13.3	11.9	14.6
AB Tofield (6)†	13.3	9.0	12.0	11.4	9.5	13.3	13.6	11.4	12.7	13.9	10.4	13.0
AB Wrangler (2)†	13.5	8.8	12.0	11.8	9	12.3	14.5	12.4	12.2	13.1	11.6	13.9
Varieties being tested for adaptability in Western Canada												
Esma (2)†	12.4	9.0	11.6	11.5	—	—	13.8	—	—	13.4	11.3	13.8
KWS Coralie (2)	12.1	8.8	11.3	11.2	—	—	13	—	—	12.6	—	12.9
KWS Kellie (2)†	12.5	8.8	11.7	11.5	—	—	13.6	—	—	13.4	—	13.0
Varieties supported for registration by the PRCOB												
Malting												
TR17635 (2)	14.1	8.9	11.4	11.7	—	—	14.6	—	—	13.5	—	12.6
Food and Feed												
FB209 (2F)	13.5	9.2	11.4	11.6	—	—	15.4	—	—	12.8	—	13.6
SR18524 (6)	14.1	8.9	11.5	12.0	—	—	14.4	—	—	13.8	—	13.3
TR16742 (2)	13.1	8.9	11.8	11.8	—	—	14.3	—	—	13.2	—	13.2
TR18645 (2)	13.8	9.2	12.0	11.7	—	—	14.5	—	—	14.4	—	13.0
TR18647 (2)	13.4	9.8	11.9	11.7	—	—	13.8	—	—	13.4	—	13.1
SITE GRAND MEAN (%)	13.5	9.1	11.9	11.8	9.9	13.2	14.2	12.4	12.5	13.5	11.6	13.4



CWRS

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THE CANADIAN MALTING BARLEY TECHNICAL CENTRE (CMBTC) RECOMMENDED LIST provides 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).

VARIETIES RECOMMENDED

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

In addition to the varieties listed, there are also contracting opportunities for the following:

- › **Bentley, Celebration** and **CDC PlatinumStar** (CANTERRA SEEDS)
- › **Legacy, Newdale, Tradition** (FP Genetics)
- › **Cerveza** (Mastin Seeds)
- › **Low**e (SeCan)

The CMBTC recommends that producers have a contract for all barley varieties being grown for malt

VARIETIES IN DEVELOPMENT

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

VARIETY	TYPE	SEED DISTRIBUTOR
CDC Churchill	2 Row	SeCan
CDC Copper	2 Row	FP Genetics
AAC Goldman	2 Row	Sollio Cooperative Group
AB BrewNet	2 Row	SeedNet

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 malting barley.

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AAC Magnet CWRS Wheat

Early maturing CWRS wheat with very strong resistance to FHB. In registration trials, displayed the lowest DON compared to checks and field observed maturity has been up to five days earlier than other CWRS varieties.

AAC Profit Yellow Pea

The highest yielding pea in the black soil zone for customers who are looking to fill their bins with big volumes of the highest protein peas that food processors are looking for.

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A strong leaf disease package, short straw and good standability. This dual purpose barley has yields that rival popular feed varieties making it an excellent choice for both malt and feed markets.

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CDC Copper was developed at the Crop Development Centre, University of Saskatchewan

OATS

New for 2021

Variety AAC Douglas	Code OT2122	Breeder AAFC - Brandon	Distributor SeCan	Seed Availability 2023
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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**, and **Souris**, 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.

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 Douglas	16	159	-2	3	-1.0	25.9	White	G	R	MR	I	I
AAC Justice	37	155	0	5	0.5	22.8	White	G	R	I	I	I
AAC Kongsore	4	146	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	35	156	-2	19	0.2	20.5	White	VG	R	I	S	S
CDC Big Brown	42	143	-1	3	0	20.4	Tan	G	R	R	MS	MS
CDC Dancer	40	138	-3	13	0.5	19.6	White	G	R	I	I	MS
CDC Endure	24	161	-1	13	-1.1	20.9	White	VG	R	MR	S	I
CDC Haymaker (F)	37	127	2	25	-1.0	22.0	White	G	MR	S	S	—
CDC Morrison	13	134	-2	-3	-1.0	24.4	White	VG	R	MS	I	I
CDC Norseman	31	151	-3	5	-1.0	20.5	White	G	MS	MR	S	I
CDC Ruffian	39	151	0	0	-0.8	20.5	White	G	R	I	S	S
CDC Skye	16	145	-2	11	0.5	19.6	White	G	R	R	S	—
CS Camden	34	159	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	145	-3	15	0	24.7	White	G	MS	I	I	MR
Jordan	52	147	2	8	-2.0	23.6	White	VG	R	I	I	MR
Leggett	144	143	0	0	0	23.0	White	G	R	R	I	MS
ORe3541M	35	140	-2	-2	0.6	23.3	White	VG	R	R	S	MS
ORe3542M	35	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	136	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	143	-2	13	0.6	23.7	White	VG	R	R	I	I
Summit	72	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 supported for registration												
CFA1502	24	160	1	1	1.0	28.0	White	G	—	MR	—	MR
GRAND MEAN (bu/acre)		146										
LSD (bu/acre) (0.05)		7										

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	2020 Yield (bu/acre)									
	Arborg	Beausejour	Brandon	Dauphin	Hamiota	Melita	Roblin	St. Adolphe	Stonewall	Thornhill
AAC Douglas	179	160	165	194	216	156	183	184	146	153
CDC Arborg	189	152	173	177	214	163	167	190	158	140
CDC Endure	191	158	186	181	213	167	180	187	155	155
CDC Skye	177	162	139	178	203	159	153	174	131	132
ORe3541M	171	137	154	123	197	154	152	158	117	118
ORe3542M	164	138	145	143	201	163	148	157	128	126
Summit	185	138	169	170	185	159	157	168	127	133
Varieties supported for registration & being tested for adaptability in Western Canada										
CFA1502	183	152	168	200	212	157	170	195	146	157
SITE GRAND MEAN (bu/acre)	180	150	162	171	205	160	164	177	139	139
CV %	6.5	7.0	6.3	4.9	2.0	3.6	7.3	3.8	3.9	5.3
LSD (bu/acre)	—	—	18	15	7	—	21	12	10	13
Sign Diff	No	No	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes
Seeding Date	12-May	18-May	29-May	06-May	07-May	06-May	12-May	11-May	21-May	27-May
Harvest Date	18-Aug	21-Aug	08-Sep	26-Aug	25-Aug	17-Aug	09-Sep	19-Aug	20-Aug	16-Sep

High Value

Faller & Prosper wheat



2016 Seed MB Data

- ✓ **120% yield of CWRS**
- ✓ **FHB Resistance - Intermediate**
- ✓ **I-MR to Leaf & Stem Rust**
- ✓ **Lodging - Midrange**
- ✓ **1 day earlier than Carberry**
- ✓ **Semi Dwarf - 1" taller than Carberry**
- ✓ **Susceptible to Stripe Rust**

Faller dealers listed below. Prosper seed available exclusively through Richardson Pioneer.

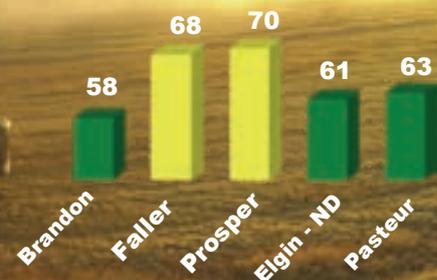
Walt Smith - Seed Depot	(204) 825-2000	Jeffries Seed Service	(204) 827-2102
Beischer Family Seeds	(204) 564-2676	LD Seeds	(204) 324-5798
Bergen Seed Farm	(204) 736-2278	MB Seeds Ltd.	(204) 746-4652
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Hulme Agra Products Inc.	(204) 685-2627	Unger Seed Farm Ltd.	(204) 467-8630
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Janzen Seeds	(204) 829-7749	Wilson Seeds Ltd.	(204) 246-2119
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Yield MB 2016



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SPRING WHEAT

New for 2021

Variety	Class	Code	Breeder	Distributor	Seed Availability
AAC Broadacres VB ^⓪	CWRS	BW5028	AAFC - Swift Current	Nutrien Ag Solutions	2021
AAC Hodge VB ^⓪	CWRS	BW1069	AAFC - Brandon	FP Genetics	
AAC Russell VB ^⓪	CWRS	PT252	AAFC - Swift Current	FP Genetics	
AAC Redstar ^⓪	CWRS	PT488	AAFC - Brandon	SeCan	2022
CDC Reign ^⓪	CPSR	HY2062	Crop Development Centre	FP Genetics	
CDC SKRush ^⓪	CWRS	PT599	Crop Development Centre	SeCan	2022
Jake ^⓪	CWRS	PT782	University of Alberta	Canterra	
SY Brawn ^⓪	CWRS	PT652	Syngenta	Nutrien Ag Solutions	2024
SY Natron ^⓪	CWRS	BW1064	Syngenta		
WPB Whistler ^⓪	CWSP	GP214	Wiersum Plantbreeding	SeCan	2020

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^⓪**, **CDC Landmark VB^⓪** and **CDC Adamant VB^⓪** have partial solid stems, **AAC Concord^⓪** 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).

The Canadian Grain Commission (CGC) has stated effective August 1, 2021, five spring wheat varieties from the Canada Western Red Spring (CWRS) will be designated to the Canada Northern Hard Red (CNHR) class. Varieties published in Seed Manitoba 2021 that will be impacted are the CWRS varieties **5605HR CL^⓪**, **AAC Redwater^⓪**, **AC Domain**, **Muchmore^⓪**, and **Vesper^⓪**.

Producers are strongly encouraged to use the Canadian Grain Commission'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, 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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#1 CWRS
Acres
2016

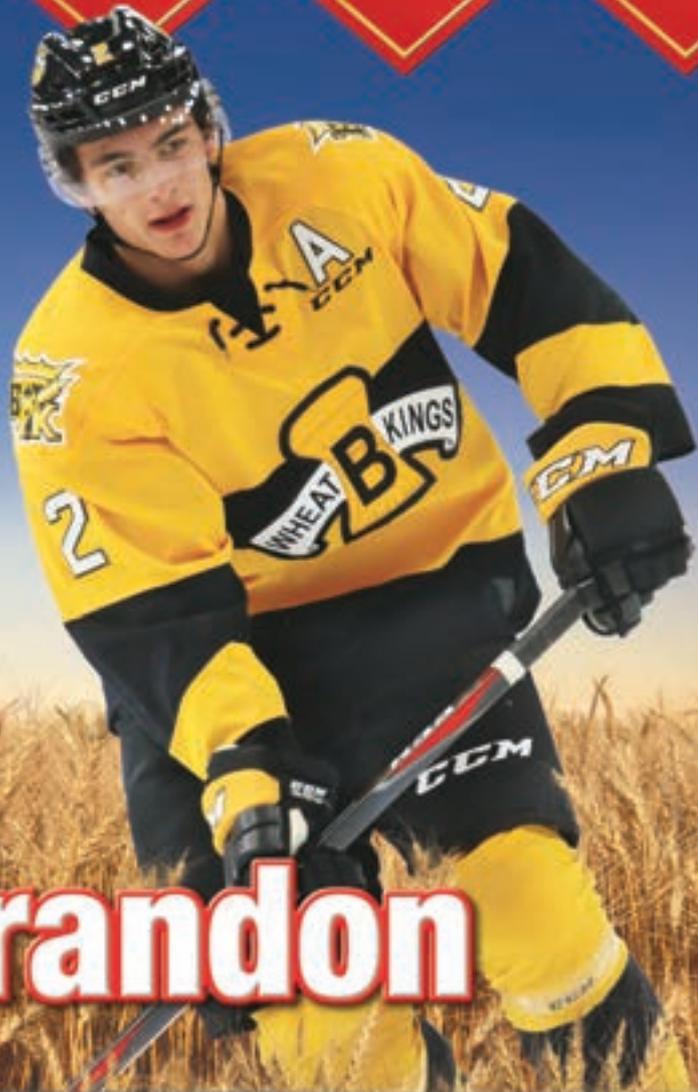
#1 CWRS
Acres
2017

#1 CWRS
Acres
2018

#1 CWRS
Acres
2019

#1 CWRS
Acres
2020

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AAC Brandon

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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	68	14.5	-1	10	Y	G	G	MS	I	MS	R	R	—	I	
5605HR CL☼	32	68	14.7	1	10	Y	VG	F	R	MR	MS	MS	R	MR	MR	
AAC Alida VB☼	33	70	14.6	2	6	Y	VG	VG	R	I	MS	R	R	MR	MR	
AAC Brandon☼	74	71	14.3	2	0	Y	VG	P	MR	S	I	R	R	MR	MR	
AAC Broadacres VB☼	20	74	14.4	3	6	Y	VG	F	—	MR	—	R	R	MR	I	
AAC Cameron VB☼	34	75	13.9	1	13	Y	G	F	S	R	I	MR	MR	S	I	
AAC Connery☼	32	63	15.0	1	3	N	VG	G	MR	I	I	R	MR	R	MR	
AAC Elie☼	45	70	14.4	2	-3	Y	VG	F	I	I	I	R	R	MR	I	
AAC Hodge VB☼	6	77	14.2	2	8	Y	VG	G	MS	R	R	R	R	R	MR	
AAC Jatharia VB☼	33	75	14.4	1	13	Y	G	G	S	MS	I	I	R	I	I	
AAC LeRoy VB☼	33	74	14.4	0	7	Y	G	G	—	I	MS	MR	MR	MR	MR	
AAC Magnet☼	33	70	14.5	0	8	Y	G	G	—	S	MS	R	R	I	MR	
AAC Prevail VB☼	44	68	14.2	1	18	N	G	G	S	S	MS	MR	R	R	I	
AAC Redberry☼	45	70	14.4	0	8	Y	G	G	R	I	MS	R	R	R	I	
AAC Redstar☼	20	70	14.5	0	6	Y	VG	—	—	MR	—	R	MR	MR	MR	
AAC Redwater☼	43	66	14.6	-2	8	Y	G	VG	MS	I	MS	R	R	MR	I	
AAC Russell VB☼	20	72	14.5	2	4	Y	VG	F	—	MR	—	MR	R	R	MR	
AAC Starbuck VB☼	33	75	14.6	1	1	Y	G	F	MR	S	S	I	MR	MR	MR	
AAC Tisdale☼	32	69	15.2	1	8	Y	G	F	MR	MR	MS	R	R	S	MR	
AAC Viewfield☼	52	72	14.4	3	-5	Y	VG	G	S	MR	I	R	MR	R	I	
AAC W1876☼	32	63	15.2	3	3	Y	VG	F	I	I	MS	MR	R	I	I	
AAC Warman VB☼	33	70	14.5	0	12	Y	G	F	MR	S	I	R	R	MS	MR	
AAC Wheatland VB☼	33	75	14.4	1	0	Y	VG	G	R	MR	S	R	R	I	I	
AC Domain	1	69	14.7	-2	10	N	VG	VG	R	I	S	R	I	MR	MS	
Bolles☼	20	70	15.5	—	-1	Y	VG	—	—	S	—	MR	R	MR	I	
Carberry☼	137	68	14.5	2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR	
Cardale☼	30	69	14.5	2	3	Y	VG	G	I	MR	MS	R	R	S	MR	
CDC Adamant VB☼	32	69	14.4	0	8	Y	F	F	S	S	MS	R	I	MS	I	
CDC Bradwell☼	33	68	14.4	3	5	Y	VG	F	MR	R	MS	MR	R	MS	I	
CDC Go	14	64	14.1	-1	8	Y	G	P	MS	I	S	R	I	MR	MS	
CDC Hughes VB☼	33	70	14.6	1	3	Y	VG	VG	MR	MS	I	R	MR	I	I	
CDC Landmark VB☼	40	70	14.6	0	3	Y	VG	G	MR	MS	I	R	MS	MR	I	
CDC Ortona☼	20	69	14.6	-1	5	Y	VG	G	—	S	—	R	R	R	I	
CDC Plentiful☼	42	66	14.6	-3	8	N	VG	P	R	I	I	R	R	MR	MR	
CDC SKRush☼	20	73	14.6	2	4	Y	VG	—	—	I	—	MR	R	MR	MR	
CDC Stanley☼	34	68	14.5	0	10	N	G	G	MR	S	I	R	MR	I	MS	
CDC Titanium VB☼	32	66	15.0	2	13	Y	G	P	MS	I	MS	I	R	R	MR	
CDC Utmost VB☼	38	69	14.6	-1	10	N	G	G	MS	S	I	MR	R	I	MS	
Daybreak☼	20	75	14.4	2	4	Y	VG	—	—	S	—	R	MR	MR	I	
Ellerslie☼	20	65	14.7	0	5	Y	VG	G	—	S	—	R	MR	R	I	
Glenn☼	171	68	14.4	2	8	Y	VG	F	I	I	I	R	R	MR	I	
Goodeve VB☼	53	68	14.7	-2	10	N	VG	G	MR	S	MS	MR	MR	I	S	
Jake☼	6	71	15.4	-2	8	Y	G	—	—	MR	—	R	MR	R	MS	
Muchmore☼	40	69	14.2	2	-3	Y	VG	G	MR	R	MS	R	R	MR	MS	
Parata☼	33	68	14.8	-2	13	Y	G	F	MR	S	I	R	MR	MR	I	
Rednet☼	20	71	14.5	3	16	Y	G	F	—	S	—	R	R	R	MR	
SY Brawn☼	20	72	14.8	1	9	—	VG	—	—	MR	—	MR	R	I	I	
SY Chert VB☼	26	70	14.1	-1	7	Y	G	F	R	R	MS	R	R	R	I	
SY Gabbro☼	33	72	14.8	2	7	Y	VG	F	R	I	MS	MR	R	I	MR	
SY Natron☼	20	68	14.7	2	11	—	G	—	—	R	—	MR	R	S	I	
SY Obsidian☼	26	70	14.3	1	3	Y	VG	F	R	MS	I	MR	R	MR	MS	
SY Slate☼	32	71	14.9	1	10	Y	G	P	MS	S	MS	MR	R	MR	I	
SY Sovite☼	32	64	14.5	1	8	Y	G	F	R	MS	MR	MR	R	R	MR	
SY Torach☼	33	70	14.9	2	3	Y	VG	F	R	MS	MS	MR	R	MS	MR	
Thorsby☼	30	64	14.9	-2	13	N	VG	F	I	S	MS	MR	R	R	I	
Tracker☼	20	68	14.8	-2	4	Y	G	G	—	S	—	R	R	R	I	
Vesper VB☼	40	71	14.5	0	10	Y	F	F	I	S	I	MR	R	S	I	
WR859 CL☼	42	69	14.4	0	5	Y	G	G	R	R	MS	MR	R	I	MR	

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awned	Resistance Level:								Fusarium ²	
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust	Head Blight	
Canada Prairie Spring Red																
AAC Crossfield	34	76	13.6	2	0	Y	G	P	I	S	I	MR	R	R	I	
AAC Crusader	16	75	13.4	0	-3	Y	G	VP	MR	I	MS	R	R	MR	I	
AAC Entice	35	74	13.6	2	1	Y	G	P	MS	S	MS	R	R	R	I	
AAC Foray VB	31	78	13.1	1	5	Y	VG	P	MS	I	MS	MR	R	I	I	
AAC Goodwin	33	76	14.1	2	0	Y	VG	G	MS	I	I	I	R	R	I	
AAC Penhold	44	76	13.9	1	-10	Y	VG	VG	I	R	I	MR	R	MR	MR	
AAC Ryley	30	72	13.1	1	3	Y	G	G	I	R	MS	R	R	S	MS	
AAC Tenacious VB	45	65	13.1	1	20	Y	F	G	R	MR	MS	MR	R	R	R	
Accelerate	20	79	13.4	2	-2	Y	VG	—	—	S	—	R	R	R	I	
CDC Reign	6	77	14.0	3	2	Y	VG	—	—	S	—	MR	R	I	I	
CDC Terrain	33	72	13.4	0	10	Y	VG	G	MR	MR	I	MR	R	R	MS	
SY Rowyn	34	75	13.5	1	-5	Y	VG	F	I	S	I	R	R	MR	MR	
Canada Northern Hard Red																
AAC Concord	33	68	14.6	2	15	Y	G	F	I	MR	I	R	R	R	MS	
AAC Tradition	33	68	14.2	4	5	Y	G	VG	MS	MR	I	R	MR	S	I	
Elgin ND	41	78	14.0	2	10	Y	G	F	—	S	I	I	R	MR	I	
Faller	48	84	12.9	1	3	Y	G	F	—	I	MS	I	MR	MS	I	
Harvest	18	66	14.2	-1	8	N	VG	VG	MR	S	MS	R	MR	MR	S	
KANE	87	67	14.4	1	8	Y	G	VG	MS	I	I	R	R	MR	I	
Prosper	45	83	12.9	1	3	Y	G	F	—	I	I	MR	MR	S	I	
Unity VB	53	71	14.2	0	13	Y	F	VG	MS	R	I	MR	R	MS	I	
Canada Western Special Purpose																
AAC Awesome VB	33	89	11.5	4	10	Y	G	P	I	I	I	R	MR	R	I	
AAC Innova	42	79	11.6	4	5	Y	F	VP	S	S	I	MR	R	R	S	
AAC NRG097	31	74	12.5	5	3	y	VG	F	I	R	I	MR	R	S	I	
AAC Proclaim	30	74	12.5	3	10	Y	F	G	MR	S	I	MR	R	MS	MR	
Alderion	33	79	11.9	9	-5	—	VG	F	—	MS	I	MR	R	MR	—	
CDC Throttle	19	82	12.5	2	5	Y	VG	P	MR	I	S	MR	MR	I	I	
Charing VB	20	81	12.5	9	0	—	VG	G	—	—	MR	—	MR	R	—	
Pasteur	39	80	12.9	7	5	N	VG	G	MS	S	I	MR	R	MR	I	
Sparrow VB	33	81	12.5	8	0	—	VG	G	—	I	I	MR	R	MR	—	
SY087	31	76	13.8	2	5	Y	VG	F	MS	MR	I	MR	MR	MR	MR	
WPB Whistler	20	81	11.8	7	1	N	VG	—	—	I	—	R	R	R	I	
Canada Western Hard White Spring																
AAC Cirrus	26	69	14.7	1	3	Y	VG	F	R	I	I	MR	R	R	I	
AAC Iceberg	42	64	13.9	0	3	Y	G	P	MS	MR	MS	R	R	I	I	
AAC Whitefox	32	67	13.8	-2	8	N	G	F	MS	MS	MS	MR	MR	MS	I	
Snowstar	28	68	13.4	-1	3	N	VG	G	MS	S	MS	R	MR	MS	MS	
Canada Western Soft White Spring																
AAC Chiffon VB	44	85	11.4	4	10	Y	F	VP	S	S	—	S	I	MR	S	
AAC Indus VB	33	80	11.0	6	5	Y	VG	P	S	MS	MS	S	I	R	MS	
AAC Paramount VB	34	85	11.4	4	8	Y	VG	P	MR	S	—	I	I	R	MS	
Sadash VB	35	77	10.7	4	8	Y	VG	P	I	S	—	MR	I	R	S	
Canada Western Extra Strong																
CDN Bison	38	71	13.7	1	8	Y	G	F	R	I	I	R	MR	—	I	
Glencross VB	41	68	14.1	0	20	N	G	F	R	I	MS	R	MR	MR	S	
Varieties supported for registration by the PRCWRT																
BW1093	6	80	14.0	1	-5	Y	VG	—	—	S	—	R	R	I	I	
BW5031	20	69	14.5	2	2	Y	VG	—	—	S	—	MR	MR	I	MS	
BW5044	6	72	14.4	2	-1	Y	VG	—	—	R	—	MR	R	R	MR	
BW5045	6	77	14.0	2	2	Y	VG	—	—	MS	—	MR	R	I	I	
BW5055	6	75	14.1	0	8	Y	VG	—	—	MS	—	I	I	I	MR	
BW 5072	6	73	14.1	3	8	Y	VG	—	—	MS	—	I	I	MS	MR	
CS11200104-11	7	72	14.4	3	-1	—	VG	—	—	R	—	R	R	R	I	
CS11200214-17	13	74	14.1	3	8	—	VG	—	—	MS	—	R	R	R	MR	
HY2068	19	77	13.0	3	2	—	VG	—	—	MS	—	R	R	S	I	
LNR15-1741	6	76	13.3	1	-2	Y	VG	—	—	I	—	I	R	MR	I	
PT598	20	67	14.2	1	-4	Y	VG	—	—	MR	—	MR	R	MS	I	
GRAND MEAN (bu/acre and %)		76	14													
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	2020 Yield (bu/acre)												
	Arborg	Beausejour	Brandon	Dauphin	Hamiota	Melita	Neepawa	Portage	Rosebank	St. Adolphe	Stonewall	Swan River	Thornhill
Canada Western Red Spring													
AAC Brandon☉	93	68	78	91	82	57	99	96	82	79	51	79	67
AAC Broadacres VB☉	94	77	82	90	95	64	99	101	81	76	63	89	66
AAC Hodge VB☉	105	—	—	89	92	—	—	89	—	84	—	—	76
AAC LeRoy VB☉	105	76	79	89	93	70	105	99	87	78	53	93	73
AAC Magnet☉	97	75	63	85	92	63	99	75	78	76	61	77	69
AAC Redberry☉	100	72	73	86	79	63	102	92	81	78	56	82	63
AAC Redstar☉	94	66	75	83	85	67	101	88	76	86	60	76	73
AAC Russell VB☉	96	75	75	90	88	66	102	86	79	70	57	88	67
AAC Starbuck VB☉	97	69	83	88	90	67	101	99	82	81	57	94	64
AAC Wheatland VB☉	99	72	77	80	99	68	99	99	87	75	60	86	68
Bolles☉	94	74	67	87	82	62	106	85	75	70	52	87	76
Carberry☉	92	67	71	85	81	57	96	72	68	72	51	75	60
CDC Ortona☉	91	61	71	90	91	60	102	89	78	77	56	69	74
CDC SKRush☉	95	71	82	84	86	70	109	104	83	87	62	76	74
Daybreak☉	102	81	68	95	92	69	106	95	82	76	60	91	76
Ellerslie☉	87	56	68	76	83	61	98	101	73	75	55	72	66
Jake☉	89	—	—	84	84	—	—	106	—	78	—	—	71
Parata☉	94	61	73	89	92	63	105	81	80	73	46	73	63
RedNet☉	100	72	79	87	83	66	107	108	78	82	55	85	73
SY Brawn☉	94	77	71	87	89	70	105	77	80	77	64	83	78
SY Gabbro☉	97	69	68	88	94	62	101	91	78	77	60	83	77
SY Natron☉	92	59	73	88	84	59	96	85	74	79	50	75	68
SY Torach☉	100	72	73	82	76	61	90	87	73	77	57	81	70
Tracker☉	91	64	70	87	80	63	103	96	83	76	48	72	75
Canada Prairie Spring Red													
Accelerate☉	115	85	73	95	98	70	115	102	85	77	55	93	83
CDC Reign☉	100	—	—	92	94	—	—	104	—	85	—	—	79
Canada Western Hard White Spring													
AAC Cirrus☉	99	72	67	75	81	62	89	84	75	89	47	75	69
Canada Western Special Purpose													
Alderon	103	83	85	73	90	73	104	88	87	104	60	80	61
Sparrow VB	109	82	78	79	91	76	119	82	91	95	59	95	78
WPB Whistler☉	102	91	88	98	98	77	112	95	89	93	68	84	78
Varieties supported for registration by the PRCWRT													
BW1093	109	—	—	96	95	—	—	106	—	85	—	—	78
BW5031☉	94	66	80	76	73	62	96	100	80	74	53	78	66
BW5044	99	—	—	76	88	—	—	93	—	84	—	—	71
BW5045	100	—	—	91	102	—	—	110	—	83	—	—	71
BW5055	104	—	—	92	94	—	—	111	—	86	—	—	68
BW5072	103	—	—	95	87	—	—	88	—	79	—	—	74
CS11200214-17	100	—	—	91	93	—	—	101	—	77	—	—	77
CS12200109-11	99	—	—	92	86	—	—	94	—	80	—	—	68
HY2068☉	106	77	—	85	93	73	108	102	85	83	55	83	71
LNR15-1741	104	—	—	88	96	—	—	99	—	84	—	—	68
PT598☉	95	58	72	71	73	57	88	104	77	77	42	77	61
SITE GRAND MEAN (bu/acre)	98.5	71.5	74.6	86.4	88.4	65.3	102.1	95.1	80.3	80.4	55.8	81.8	70.9
CV %	2.6	7.2	7.8	4.4	3.6	3.7	4.7	5.3	4.4	3.6	6.3	4.2	6.4
LSD (bu/acre)	4	9	10	6	5	4	8	8	6	5	6	6	7
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	12-May	19-May	29-May	06-May	07-May	06-May	22-May	28-May	25-May	11-May	21-May	16-May	27-May
Harvest Date	24-Aug	21-Aug	15-Sep	02-Sep	04-Sep	18-Aug	26-Aug	09-Sep	24-Aug	19-Aug	08-Sep	09-Sep	16-Sep

Protein Comparisons

Class/Variety	2020 Protein (%)												
	Arborg	Beausejour	Brandon	Dauphin	Hamiota	Melita	Neepawa	Portage	Rosebank	St. Adolphe	Stonewall	Swan River	Thornhill
Canada Western Red Spring													
AAC Brandon	15.2	14.4	15.4	13.0	14.2	12.7	15.1	16.2	14.0	15.4	14.5	14.2	16.2
AAC Broadacres VB	15.5	14.2	14.5	13.1	13.7	12.3	15.4	16.6	14.8	15.8	14.5	14.6	16.0
AAC Hodge VB	14.5	13.7	—	12.9	13.5	—	—	16.0	—	15.9	—	—	16.0
AAC LeRoy VB	15.0	14.3	14.9	13.0	13.9	12.3	14.9	16.8	14.7	16	14.6	14.3	15.8
AAC Magnet	14.6	14.4	15.9	14.0	14.3	12.4	15.7	17.0	14.5	15.5	14.3	15.7	16.0
AAC Redberry	14.7	14.3	15.0	13.0	14.1	12.7	15.3	16.7	14.0	15.5	14.5	15.1	16.1
AAC Redstar	14.7	14.7	15.2	13.3	14.2	12.5	15.5	16.8	14.3	14.8	14.2	14.7	16.3
AAC Russell VB	15.7	14.9	14.6	13.9	14.1	12.7	15.9	17.0	14.8	15	14.6	14.4	16.2
AAC Starbuck VB	15.4	14.9	14.4	13.2	14.0	13.1	15.8	16.6	14.4	16	14.5	14.8	16.0
AAC Wheatland VB	15.0	14.1	14.5	13.6	13.6	12.4	15.8	16.9	15.1	15.7	13.9	14.4	16.2
Bolles	15.7	15.0	16.1	14.2	14.6	13.5	16.4	17.4	15.5	17.8	15.8	17.1	17.7
Carberry	15.3	14.7	15.8	13.2	—	13.4	15.3	16.7	14.1	15.7	15.6	15.2	16.5
CDC Ortona	15.2	14.8	15.1	13.3	13.9	13	15.0	17.3	15.0	15	14.0	15.4	15.7
CDC SKRush	14.6	13.7	14.9	13.0	14.8	12.3	15.5	16.9	13.7	15.3	14.1	15.6	16.9
Daybreak	14.6	14.3	15.7	13.0	13.7	12.7	14.5	16.2	14.0	16	14.3	15.1	15.8
Ellerslie	15.1	14.9	15.6	14.1	14.3	12.7	15.6	16.9	15.3	15	13.7	15.7	16.4
Jake	15.6	15.8	—	13.6	14.3	—	—	18.0	—	17.1	—	—	17.2
Parata	15.3	14.6	16.0	13.1	13.9	13.1	15.8	17.4	14.0	16.3	14.7	15.7	16.2
RedNet	14.8	14.6	14.2	13.1	13.9	12.8	15.1	16.5	14.2	16	14.7	14.8	16.4
SY Brawn	15.4	14.2	14.7	13.0	14.0	12.2	15.8	16.7	14.4	16.2	15.3	15.3	16.8
SY Gabbro	15.0	14.5	15.2	13.5	14.3	12.5	16.3	17.5	15.8	16.6	15.0	13.9	16.7
SY Natron	15.1	15.5	14.6	13.5	14.6	13	15.5	16.8	14.8	16.1	15.0	15.9	16.2
SY Torach	15.0	15.1	15.2	13.7	14.7	12.8	15.8	16.7	15.3	16.2	14.4	15.8	16.8
Tracker	14.9	14.6	15.4	13.1	14.4	13.4	15.7	17.3	15.2	15	14.4	15.8	16.3
Canada Prairie Spring Red													
Accelerate	13.1	13.7	14.0	12.2	13.2	11.1	14.4	15.3	13.1	14.4	13.3	13.8	15.0
CDC Reign	14.4	14.3	—	12.7	13.9	—	—	15.6	—	14.9	—	—	15.2
Canada Western Hard White Spring													
AAC Cirrus	14.5	15.3	14.6	13.5	14.2	12.4	15.3	16.6	14.6	15.3	14.2	15.8	15.9
Canada Western Special Purpose													
Alderon	12.0	12.6	11.8	11.3	11.9	10.3	11.8	14.6	12.2	12.1	11.7	12.7	13.1
Sparrow VB	12.9	11.8	12.2	12.5	12.5	10.7	12.4	14.6	11.9	12.7	12.3	13.5	13.6
WPB Whistler	12.1	12.7	11.9	11.4	11.9	10.5	12.0	13.8	11.6	11.8	11.2	12.7	13.1
Varieties supported for registration by the PRCWRT													
BW1093	14.4	14.5	—	12.4	13.3	—	—	16.1	—	15.4	—	—	15.3
BW5031	15.3	14.6	14.8	13.5	14.8	12.6	15.3	16.7	14.7	15.7	14.6	14.5	15.8
BW5044	14.6	14.0	—	14.9	13.3	—	—	15.8	—	15.5	—	—	16.0
BW5045	14.8	14.5	—	12.3	14.2	—	—	16.1	—	14.1	—	—	15.5
BW5055	14.2	14.6	—	12.8	13.5	—	—	16.5	—	15	—	—	15.2
BW5072	14.7	14.6	—	12.0	13.4	—	—	16.6	—	15.2	—	—	15.4
CS11200214-17	14.6	14.2	—	12.5	13.6	—	—	15.8	—	15.9	—	—	15.6
CS12200109-11	14.8	14.9	—	12.9	13.9	—	—	16.4	—	16	—	—	16.6
HY2068	13.3	12.5	—	12.5	13.2	11.3	13.7	14.8	12.1	13.7	12.9	13.7	15.0
LNR15-1741	13.6	13.5	—	12.5	12.9	—	—	14.7	—	14	—	—	14.6
PT598	14.6	14.5	14.8	13.4	13.5	12.5	14.5	16.4	14.0	15.5	13.7	15.0	15.7
SITE GRAND MEAN (%)	14.6	14.3	14.7	13.1	13.8	12.4	15.0	16.4	14.2	15.3	14.2	14.8	15.8

DURUM WHEAT

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

Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 101 days	Height +/- 89 cm	Spike Awned	Resistance Level:									
							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	26	62	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	2	66	14.1	0	2	Y	F	G	MS	MR	I	R	R	R	MS	
Eurostar	2	68	13.9	2	4	Y	F	F	S	R	I	R	R	R	MS	
Strongfield	12	65	14.4	0	0	Y	G	F	S	MR	I	R	R	MR	S	
Transcend	23	67	14.0	2	5	Y	G	G	S	R	I	R	R	R	MS	
GRAND MEAN (bu/acre)	65	13.9														
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.

Broadview, **CDC Falcon** and **Peregrine** are hard red kernel types.

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 material that serves as a reservoir for mites should be followed whenever possible.

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Height +/- 75 cm	Spike Awned	Relative ¹ Maturity	Relative ² Winter Hardiness	Resistance Level:					Fusarium ³ Head Blight
							Lodging	Common Bunt	Stem Rust	Leaf Rust	Stripe Rust	
Canada Western Red Winter												
AAC Elevate	39	81	8	Y	M	G	VG	MR	MR	I	MS	I
AAC Gateway	35	82	2	Y	M	F	VG	S	MR	I	MR	I
AAC Goldrush	26	82	10	Y	M	VG	G	S	MR	R	I	I
AAC Network	7	81	4	Y	L	G	VG	MR	R	MR	R	I
AAC Wildfire	26	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	47	83	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												
Broadview	38	83	6	Y	E	G	G	S	R	R	S	S
CDC Falcon	103	79	0	Y	E	F	VG	S	MR	MR	S	S
Peregrine	36	86	22	Y	M	VG	F	S	I	MR	MR	I
Canada Western Experimental												
AAC Icefield	26	84	5	Y	M	F	VG	S	R	MR	MR	I
Varieties supported for registration by the PRCWRT												
W520	37	89	8	Y	M	F	VG	I	R	R	R	I
W522	19	87	0	Y	E	F	G	S	R	R	I	I
W563	14	88	10	Y	M	G	VG	S	R	MR	R	MR
GRAND MEAN (bu/acre)		83										
LSD (bu/acre) (0.05)		3										

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	2020 Yield (bu/acre)						
	Beausejour	Carberry	Carman	Hamiota	Melita	Portage	Winnipeg
Canada Western Red Winter							
AAC Goldrush [®]	61	84	65	81	73	116	76
AAC Network [®]	68	76	59	77	75	107	76
AAC Wildfire [®]	69	95	71	86	79	120	77
Emerson [®]	67	83	62	89	81	118	69
Canada Western Experimental							
AAC Icefield [®]	63	94	65	72	76	117	76
Varieties supported for registration by the PRCWRT							
W520	68	89	72	77	82	112	84
W522	79	103	78	101	86	127	81
W563	63	89	57	71	80	96	72
SITE GRAND MEAN (bu/acre)	67	89	66	82	79	114	76
CV %	9.0	5.4	7.5	4.0	6.0	5.4	5.7
LSD (bu/acre)	—	8	7	6	—	11	8
Sig Diff	No	Yes	Yes	Yes	No	Yes	Yes
Seeding Date	17-Sep	16-Sep	19-Sep	17-Sep	16-Sep	26-Sep	17-Sep
Harvest Date	12-Aug	09-Aug	04-Aug	19-Aug	03-Aug	06-Aug	12-Aug

Protein Comparisons

Class/Variety	2020 Protein (%)						
	Beausejour	Carberry	Carman	Hamiota	Melita	Portage	Winnipeg
Canada Western Red Winter							
AAC Goldrush [®]	13.4	13.0	14.8	12.3	11.1	13.3	13.7
AAC Network [®]	13.5	13.4	14.8	12.7	11.3	13.5	13.8
AAC Wildfire [®]	12.9	13.2	14.8	12.2	11.3	13.5	13.7
Emerson [®]	14.2	14.2	15.8	13.7	11.4	14.1	15.4
Canada Western Experimental							
AAC Icefield [®]	12.1	12.3	14.0	12.2	10.2	12.3	13.2
Varieties supported for registration by the PRCWRT							
W520	12.4	12.6	14.2	12.0	10.6	12.6	12.5
W522	12.1	12.3	14.2	11.7	10.4	12.8	12.3
W563	13	13.5	14.4	12.2	10.4	12.7	13.7
SITE GRAND MEAN (%)	13.0	13.1	14.6	12.4	10.8	13.1	13.5

FALL RYE

Comments:

The hybrid fall rye varieties **Brasetto**, **Guttino**, **KWS Bono**, **KWS Daniello**, **KWS Gatano**, and **KWS Trebiano** have improved falling number. Typically, a falling number of 180 seconds or greater is preferred by the rye milling 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:		Relative Winter Hardiness
						Lodging	Ergot	
Danko	29	92	—	—	—	—	—	F
Hazlet	65	97	3	0	152	G	MS	VG
Prima	25	91	13	-3	204	F	MS	VG
Hybrid Fall Rye								
Brasetto	30	114	-7	0	248	VG	MS	VG
Guttino	38	116	-9	0	292	VG	MS	VG
KWS Bono	37	113	-8	0	265	VG	MS	VG
KWS Daniello	20	113	-7	0	272	G	MS	VG
KWS Gatano	20	115	-7	0	268	G	MS	VG
KWS Trebiano	7	116	-3	0	284	VG	MS	VG
GRAND MEAN (bu/acre)		104						
LSD (bu/acre) (0.05)		3.9						

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

Yield Comparisons

Type/Variety	2020 Yield (bu/ac)						
	Arborg	Carberry	Carman	Hamiota	Melita	Portage	Winnipeg
Hazlet	79	90	82	78	75	129	73
Hybrid Fall Rye							
KWS Bono	89	114	100	97	95	149	74
KWS Daniello	86	118	105	101	91	155	84
KWS Gatano	91	119	102	110	96	155	79
KWS Trebiano	88	118	104	102	99	158	87
SITE GRAND MEAN (bu/acre)							
CV %	4.6	5.3	6.9	3.7	6.0	2.9	7.3
LSD (bu/acre)	7	11	10	7	10	8	9
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	13-Sep	16-Sep	19-Sep	17-Sep	16-Sep	16-Sep	17-Sep
Harvest Date	10-Aug	11-Aug	07-Aug	19-Aug	03-Aug	06-Aug	12-Aug

Distributor Contacts for Listed Varieties in Seed Manitoba 2021

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.

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Malting Acceptance - Recommended

AAC Connect (2)☺	CANTERRA SEEDS
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AC Metcalfe (2)	SeCan
CDC Bow (2)☺	SeCan
CDC Copeland (2)	SeCan
CDC Fraser (2)☺	SeCan
Malting: Other	
AAC Goldman☺	La Coop Federee
AB Brewnet☺	SeCan
Bentley (2)☺	CANTERRA SEEDS
CDC Churchill☺	SeCan
CDC Copper (2)☺	FP Genetics
CDC Goldstar (2)☺	CANTERRA SEEDS
CDC Kindersley (2)☺	SeCan
CDC Meredith (2)☺	SeCan
CDC PlatinumStar (2)☺	CANTERRA SEEDS
CDC Polarstar (2)☺	CANTERRA SEEDS
Celebration (6W)☺	CANTERRA SEEDS
Lacey (6W)	Alliance Seed
LEGACY (6W)	Nutrien Ag Solutions/FP Genetics
Lowe☺	SeCan
Newdale (2)☺	FP Genetics
Sirish☺	Syngenta Canada Inc.
Stellar-ND (6W)	CANTERRA SEEDS
Tradition (6W)	Nutrien Ag Solutions/FP Genetics
Food and Feed	
AB Advantage☺	SeCan
AB Cattilelac (6)☺	Alliance Seed
AB Tofield (6)☺	SeCan
AB Wrangler (2)☺	CANTERRA SEEDS
AC Ranger (6F)	FP Genetics
Altorado☺	Nutrien Ag Solutions
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)☺	Nutrien Ag Solutions
Claymore (2)☺	Nutrien Ag Solutions
CONLON (2)☺	Seed Depot
Desperado (6F)☺	Alliance Seed
Oreana (2)☺	Nutrien Ag Solutions
Hulless	
CDC Ascent (2)☺	SeCan
CDC Clear (2)☺	SeCan
Varieties being tested for adaptability in Western Canada	
Esma (2)☺	SeCan
KWS Kellie (2)☺	SeCan

OATS

AAC Douglas☺	SeCan
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 Seeds
CDC Haymaker (F)☺	SeCan
CDC Morrison☺	CANTERRA SEEDS
CDC Norseman☺	SeCan
CDC Ruffian☺	FP Genetics
CDC Skye☺	SeCan
CS Camden☺	CANTERRA SEEDS
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ORe3542M☺	SeCan
Pinnacle☺	FP Genetics
Ronald	SeCan
Souris☺	Seed Depot
Stride☺	SeCan
Summit☺	FP Genetics
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SPRING WHEAT

Canada Western Red Spring	
5604HR CL☺	Nutrien Ag Solutions
5605HR CL☺	Nutrien Ag Solutions
AAC Alida VB☺	SeCan
AAC Brandon☺	SeCan
AAC Broadacres VB☺	Nutrien Ag Solutions
AAC Cameron VB☺	CANTERRA SEEDS
AAC Connery☺	CANTERRA SEEDS
AAC Elie☺	Alliance Seed
AAC Hodge VB☺	FP Genetics
AAC Jatharia VB☺	SeCan
AAC LeRoy☺	Alliance Seed
AAC Magnet☺	FP Genetics
AAC Prevail VB☺	Alliance Seed
AAC Redberry☺	Alliance Seed
AAC Redstar☺	SeCan
AAC Redwater☺	SeCan
AAC Russell VB☺	FP Genetics
AAC Starbuck VB☺	SeCan
AAC Tisdale☺	SeCan
AAC Viewfield☺	FP Genetics
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Cardale	Seed Depot
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CDC Bradwell	SeCan
CDC Go	Nutrien Ag Solutions
CDC Hughes VB	Nutrien Ag Solutions
CDC Landmark VB	FP Genetics Inc.
CDC Ortona	Nutrien Ag Solutions/Proven Seed
CDC Plentiful	FP Genetics
CDC SKRush	SeCan
CDC Stanley	Nutrien Ag Solutions
CDC Titanium VB	Nutrien Ag Solutions
CDC Utmost VB	FP Genetics
Daybreak	CANTERRA SEEDS
Ellerslie	SeCan
Glenn	CANTERRA SEEDS
Goodeve VB	Alliance Seed
Jake	CANTERRA SEEDS
Muchmore	FP Genetics
Parata	SeCan
RedNet	SeedNet Inc.
SY Brawn	Nutrien Ag Solutions
SY Chert VB	Syngenta Canada Inc.
SY Gabbro	Richardson Pioneer
SY Natron	
SY Obsidian	Richardson Pioneer
SY Slate	Syngenta Canada Inc.
SY Sovite	Richardson Pioneer
SY Torach	Alliance Seed
Thorsby	CANTERRA SEEDS
Tracker	CANTERRA SEEDS
Vesper VB	SeCan
WR859 CL	Richardson Pioneer

Canada Prairie Spring Red

AAC Crossfield	CANTERRA SEEDS
AAC Crusader	CANTERRA SEEDS
AAC Entice	Nutrien Ag Solutions
AAC Foray VB	SeCan
AAC Goodwin	SeCan
AAC Penhold	SeCan
AAC Ryley	SeCan
AAC Tenacious VB	Alliance Seed
Accelerate	CANTERRA SEEDS
CDC Reign	FP Genetics
CDC Terrain	FP Genetics
SY Rowyn	Alliance Seed

Canada Northern Hard Red

AAC Concord	CANTERRA SEEDS
AAC Tradition	SeCan
Elgin ND	FP Genetics
Faller	Seed Depot
Harvest	FP Genetics
KANE	SeCan
Prosper	Seed Depot
Unity VB	SeCan

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
SY087	United Suppliers Canada
WPB Whistler	SeCan

Canadian Western Hard White Spring

AAC Cirrus	FP Genetics
AAC Iceberg	Alliance Seed
AAC Whitefox	SeCan
Snowstar	SeCan

Canada Western Soft White Spring

AAC Chiffon VB	SeedNet Inc.
AAC Indus VB	SeCan
AAC Paramount VB	SeCan
Sadash VB	SeCan

Canada Western Extra Strong

CDN Bison	Faurschou Farms Ltd. III
Glencross VB	Faurschou Farms Ltd. III

Canada Western Amber Durum

AAC Cabri	SeCan
AAC Congress	CANTERRA SEEDS
AAC Current	Alliance Seed
AAC Durafield	SeCan

SPRING WHEAT

AAC Grainland	SeCan
AAC Marchwell VB	SeCan
AAC Raymore	SeCan
AAC Spitfire	SeCan
AAC Stronghold	SeCan
AAC Succeed VB	FP Genetics
Brigade	Proven Seeds
CDC Alloy	FP Genetics
CDC Carbide VB	Proven Seeds
CDC Credence	CANTERRA SEEDS
CDC Desire	Syngenta Canada Inc.
CDC Dynamic	Proven Seeds
CDC Fortitude	Proven Seeds
CDC Precision	Alliance Seed
CDC Verona	Alliance Seed
CDC Vivid	Proven Seeds
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 Network	SeedNet
AAC Wildfire	SeCan
CDC Buteo	SeCan
CDC Chase	CANTERRA SEEDS
Emerson	CANTERRA SEEDS
Flourish	SeCan
McClintock	CANTERRA SEEDS
Moats	SeCan

Canada Western Special Purpose

Broadview	CANTERRA SEEDS
CDC Falcon	SeCan
Peregrine	SeCan

Canada Western Experimental

AAC Icefield	FP Genetics
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FALL RYE

Danko	FP Genetics
Hazlet	SeCan
Prima	SeCan

Hybrid Fall Rye

Brasetto	FP Genetics
Guttino	SeedNet Inc.
KWS Bono	FP Genetics
KWS Daniello	FP Genetics
KWS Gatano	FP Genetics
KWS Trebiano	FP Genetics

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Faurschou Farms Ltd. III	1-204-274-2159
Field Crop Development Centre.....	1-403-782-8039
FP Genetics.....	1-877-791-1045
Grain Millers	1-306-783-2931
La Coop Federee	1-514-384-6450
Nutrien Ag Solutions	1-855-569-9444
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
United Suppliers Canada	1-888-975-4769

Growers List



BARLEY

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 CONNECT☉

Boissevain; Armstrong, Duncan T. & Anthony James ...	204-534-2566	C
Carman; Krahn, Myron	204-745-1938	R
Decker; Murray, Donald H. & Ryan	204-764-0366	S F R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	R
Glenboro; Jefferies, Ron & Cale	204-827-2102	C
Holland; Zeghers, Shawn M.	204-526-2366	R
Killarney; Hird, Steven	204-523-7464	C
Pilot Mound; Wallace, Joe	204-825-7246	R
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	S R
Rivers; Redsper Ent. Ltd.	204-328-5346	C
Virden; Heaman, Douglas J., Walter & Brittany	204-748-7666	R C
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	S R

AAC SYNERGY☉

Pilot Mound; Wallace, Joe	204-825-7246	R
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AB CATTLELAC☉

Plumas; Tonn, Todd & Darren	204-386-2206	F R
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	R

AC METCALFE

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

ALTORADO☉

Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C
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CANMORE☉

Morden; Wilson, James M.	204-362-2449	S F
Oakville; Miller, Andrea & Chabot, Steven	204-267-2363	S F
Warren; Riddell, Craig Thomas	204-227-5679	R

CDC AUSTENSON☉

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	R
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	R
Inglis; Beischer, Derrick	204-564-2676	C
Mac Gregor; Hulme, Lorne & Jared	204-685-2627	R
Miniota; Walker, Alan Glen	204-567-3647	C
Navin; James, David G.	204-222-8785	C
Newdale; Wareham, L.B. Shayne	204-849-2112	C
Oak River; Mc Lean, Eric	204-566-2422	C
Oakville; Miller, Andrea & Chabot, Steven	204-267-2363	R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	R C
Plumas; Tonn, Todd & Darren	204-386-2206	S F R
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. (Mb) ..	204-371-7700	C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118	R C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	R C
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	C

CDC BOW☉

Crystal City; Fallis, J. Allan & Mark A.	204-825-4525	C
Mather; Mc Lennan, Donald D.	204-529-2372	C

BARLEY

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CDC COPELAND

Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Oak Lake; Smith, Gerald R. & Leigh E.	204-855-3128	C
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	R C
Virden; Heaman, Douglas J., Walter & Brittany	204-748-7666	C
Virden; Hutchison, Barry	204-851-6157	C

CDC COPPER☉

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Grosse Isle; Rutherford, Rick	204-467-5613	R
Minto; Ayre, Andrew	204-776-2333	C
Souris; Kohut, David Anton	204-483-3063	R
Swan River; Alford, Wayne G.	204-734-2526	R

CDC FRASER☉

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Crystal City; Fallis, J. Allan & Mark A.	204-825-4525	C
St.Leon; Pembina Co-Op	204-535-2598	R

CDC MAVERICK☉

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

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CELEBRATION☼

Grosse Isle; Rutherford, Rick	204-467-5613	R
Mac Gregor; Hulme, Lorne & Jared	204-685-2627	C
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118	C

CONLON☼

Darlingford; Morrow, Graham	204-362-8986	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	C
Minto; Ayre, Andrew	204-776-2333	C
Minto; Ayre, Jake	204-534-5023	C
Oakville; Miller, Andrea & Chabot, Steven	204-267-2363	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Portage La Prairie; Pugh, William G. & Victoria	204-274-2179	C
Somerset; Sierens, Joseph & Chris	204-744-2883	C

ESMA☽

Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	S
Warren; Jones, Gavin R.	204-322-5604	S
Warren; Riddell, Craig Thomas	204-227-5679	S
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	S F

NEWDALE☼

Oak River; Mc Lean, Eric	204-566-2422	R
Souris; Kohut, David Anton	204-483-3063	R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-371-7700	R

BARLEY

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OREANA☽

Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C
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TRADITION

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

OATS

AAC DOUGLAS☽

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	S F
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CDC ARBORG☽

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	S	C
Boissevain; Armstrong, Duncan T. & Anthony James	204-534-2566	C	
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C	
Carman; Park, Robert J.	204-745-3304	C	
Cromer; Bartel, Bob	204-662-4580	C	
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	S	R
Grosse Isle; Rutherford, Rick	204-467-5613	C	
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C	
Killarney; Hird, Steven	204-523-7464	C	
Mac Gregor; Hulme, Lorne & Jared	204-685-2627	C	
Minto; Ayre, Andrew	204-776-2333	C	
Minto; Ayre, Jake	204-534-5023	C	
Morris; Hamblin, David & Lorraine	204-746-4779	C	
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C	
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C	
Rosenort; Friesen, Lloyd	204-746-8198	C	
Souris; Kohut, David Anton	204-483-3063	S	

CDC BALER

Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C
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CDC DANCER

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

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	S
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S
Grosse Isle; Rutherford, Rick	204-467-5613	F
Homewood; Froebe, Bruce D. & Murray	204-745-6655	F
Notre Dame De Lourdes; Durand, Gabriel A. & Marc	204-248-2268	S
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S F

CDC HAYMAKER☽

Carman; Menold, Ulrich, Tyler & Lucas	204-745-2822	F	C
Crystal City; Buchanan, Kenneth S. & Dean K.	204-873-2661	C	
Dauphin; Kaleta, James & Debra	204-638-7800	C	
Dufrost; Catellier, Roger & Richard	204-746-4175	R	
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C	
Inglis; Beischer, Derrick	204-564-2676	C	
Navin; James, David G.	204-222-8785	C	
Oak Bank; Wyrich, Daniel	204-444-3128	C	
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-371-7700	C	
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118	C	
Swan River; Oberlin, George	204-734-2292	C	
Warren; Riddell, Craig Thomas	204-227-5679	S F R	
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	R	

CS CAMDEN☽

Boissevain; Armstrong, Duncan T. & Anthony James	204-534-2566	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Carman; Krahn, Myron	204-745-1938	C
Dauphin; Fisher, Roderick Allan & Douglas James & Allison	204-622-8800	R
Decker; Murray, Donald H. & Ryan	204-764-0366	C



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<p>WHEAT</p> <ul style="list-style-type: none"> AAC Brandon AAC Starbuck AAC Wheatland Prosper Faller Shelly <p>OATS</p> <ul style="list-style-type: none"> Summit ORe3542M CDC Arborg CDC Endure CS Camden 	<p>PEAS</p> <ul style="list-style-type: none"> AAC Carver AAC Chrome AAC Profit <p>EDIBLE BEANS</p> <p>Pinto, Navy, Black, and specialty bean seed.</p> <p>SOYBEANS</p> <p>A strong line up of GMO & Non-GMO varieties from Thunder Seeds, Sevita International, SeCan, and Pride.</p>	<p>CANOLA</p> <p>Clearfield & Liberty Link</p> <p>GRAIN & SILAGE</p> <p>CORN</p> <ul style="list-style-type: none"> Thunder Seeds Pride Seeds Horizon Seeds <p>FERTILIZER</p> <p>Alpine starter & foliar fertilizer</p> <p>Direct to farm granular & liquid fertilizer</p>
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Lloyd Wiebe
Phone: 204-324-7999
Email: Lloydw@mymts.net

Dylan Wiebe
Phone: 204-304-0048
Email: Ldseeds-dylan@outlook.com












OATS

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Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom		
.....204-736-2849	R C	
Fannystelle; Nadeau, Brian		C
.....204-436-2469		
Glenboro; Jefferies, Ron & Cale	R C	
.....204-827-2102		
Hadashville; Wohlgemuth, Victor	R	
.....204-426-5388		
Homewood; Froebe, Bruce D. & Murray		C
.....204-745-6655		
Lowe Farm; Sawatzky, Matt	R	
.....204-746-2187		
Mac Gregor; Hulme, Lorne & Jared		C
.....204-685-2627		
Miniota; Walker, Alan Glen		C
.....204-567-3647		
Morris; Dueck, Arthur	R	
.....204-746-2026		
Morris; Hamblin, David & Lorraine	R C	
.....204-746-4779		
Morris; Hamblin, Donald & Bradley	F R	
.....204-209-0506		
Morris; Mueller, Malte	R	
.....204-746-2026		
Oak Bank; Wyrich, Daniel	C	
.....204-444-3128		
Oak River; Mc Lean, Eric	C	
.....204-566-2422		
Reston; Greig, Fred L. & Cameron & Roper, Jordan	R	
.....204-877-3813		
Rosenort; Friesen, Rick		C
.....204-746-8325		
Russell; Keating, Mark		C
.....204-773-3854		
Sanford; Bergen, Edward Harry & Tim	S F R C	
.....204-736-2278		
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.		C
.....204-371-7700		
St. Rose Du Lac; Gamache, Ryan & Patrick		C
.....204-447-2118		
Stonewall; Unger, Ronald K. & Darcy	F C	
.....204-467-8630		
Virden; Heaman, Douglas J., Walter & Brittany	F R C	
.....204-748-7666		
Warren; Riddell, Craig Thomas	S F C	
.....204-227-5679		

FURLONG ☼

Mac Gregor; Hulme, Lorne & Jared	F C	
.....204-685-2627		

ORE3541M ☽

Arborg; Timchishen, Donald Victor & Darcy		C
.....204-641-1288		
Brunkild; Kaminsky, William		C
.....204-795-6507		
Crystal City; Fallis, J. Allan & Mark A.		C
.....204-825-4525		
Dauphin; Kaleta, James & Debra		C
.....204-638-7800		
Manitou; Sanders, Andre O., Daniel & Dylan	R	
.....204-242-4200		
Portage La Prairie; Sanderson, Garry	S F C	
.....204-857-8406		
Rosenort; Friesen Seeds Ltd.		C
.....204-746-8325		
Warren; Riddell, Craig Thomas	R	
.....204-227-5679		

ORE3542M ☽

Altona; Fuchsmeier, Joni		C
.....204-324-3859		
Altona; Wiebe, Henry D. & Lloyd	S F R	
.....204-324-8036		
Boissevain; Martens, Ben F. & John J. & Ryan	S C	
.....204-534-6952		
Brandon; Wheat City Seeds Ltd.		C
.....204-727-3337		
Carman; Krahn, Myron	R	
.....204-745-1938		
Carman; Park, Robert J.	S F C	
.....204-745-3304		
Dauphin; Durston, Scott L.	R	
.....204-638-5569		
Deloraine; Bolduc, Ronald & Bell, A.J.		C
.....204-747-4194		
Dufrost; Catellier, Patrick Raymond	R	
.....204-347-5503		
Fannystelle; Nadeau, Brian	C	
.....204-436-2469		
Gilbert Plains; Tokar, Bob & Stoughton, Murray	C	
.....204-548-2805		

OATS

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Holland; Patenaude, Donald & Robert		204-526-2391	C
Homewood; Froebe, Bruce D. & Murray		204-745-6655	F C
Morris; Hamblin, David & Lorraine		204-746-4779	C
Navin; James, David G.		204-222-8785	C
Niverville; Friesen, Reg		204-388-4303	C
Notre Dame De Lourdes; Durand, Gabriel A. & Marc		204-248-2268	S F
Oak Bank; Wyrich, Daniel		204-444-3128	R
Oak Bluff; Gousseau, Marcel E.		204-895-1357	R
Oakville; Miller, Andrea & Chabot, Steven		204-267-2363	C
Pilot Mound; Wallace, Joe		204-825-7246	C
Rosenort; Friesen, Rick		204-746-8325	C
Rosburn; Mitchell, John		204-859-2431	R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. (Mb)		204-371-7700	C
Swan River; Oberlin, George		204-734-2292	C
Wawanesa; Ellis, Warren P., Simon & Amanda		204-824-2290	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufeld, Sheldon		204-325-4658	S F

PINNACLE ☼

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

Mac Gregor; Hulme, Lorne & Jared		204-685-2627	C
Pilot Mound; Seed Depot Corporation		204-825-2000	C

SUMMIT ☼

Boissevain; Armstrong, Duncan T. & Anthony James		204-534-2566	R
Boissevain; Froese, Wesley A.J. & Ian		204-534-6846	C
Carman; Park, Robert J.		204-745-3304	R
Domain; Manness, Ronald & Patricia & Graeme & Adeena		204-736-2622	F R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom		204-736-2849	S F R
Fannystelle; Nadeau, Brian		204-436-2469	R
Grosse Isle; Rutherford, Rick		204-467-5613	C
Hamiota; Knight, Ronald M. & Jeff		204-764-2450	C
Inglis; Beischer, Derrick		204-564-2676	R
Killarney; Chatham, Don, Linda & Cody		204-523-8412	R C
Killarney; Hird, Steven		204-523-7464	R
Mac Gregor; Hulme, Lorne & Jared		204-685-2627	C
Manitou; Sanders, Andre O., Daniel & Dylan		204-242-4200	R
Minto; Ayre, Andrew		204-776-2333	R
Morris; Hamblin, David & Lorraine		204-746-4779	C
Navin; James, David G.		204-222-8785	C
Newdale; Wareham, L.B. Shayne		204-849-2112	C
Oakville; Miller, Andrea & 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
Rosenort; Friesen, Lloyd		204-746-8198	C



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Rosenort; Friesen, Rick.....	204-746-8325	C
Somerset; Sierens, Joseph & Chris	204-744-2883	R C
Souris; Kohut, David Anton	204-483-3063	R C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....	204-371-7700	C
St. Claude; Rouire, Roland & Guy.....	204-379-2582	C

TRIACTOR☼

Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	S
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SPRING RYE

GAZELLE

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

DANKO

Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
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Cereal Package 2 (Barley) - \$207 (GST included) Germination, Cold Vigour, 1000 KW, Fusarium, Cochliobolus, Smut	
Wheat Marketing Package - \$93 (GST included) Falling Number, Protein, Vomitoxin, Bushel Weight	
Malt Barley Marketing Package - \$88 (GST Included) Malt Germ, Protein, Plump Test, Vomitoxin	
Germination - \$25 (GST included)	Clubroot - \$95 (GST included)
Soil Germination - \$35 (GST included)	Disease - please call for more info
Vigour - \$38 (GST included)	Aphanomyces - \$113 (GST included)

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HAZLET

Carman; Park, Robert J.....	204-745-3304	R
Dauphin; Durston, Scott L.	204-638-5569	R
Holland; Kubinec, Anastasia.....	204-526-2776	R
Holland; Patenaude, Donald & Robert	204-526-2391	R
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	S F C

SPELT

CDC SILEX

Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	S F
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SPRING WHEAT

AAC ALIDA VB☽

Binscarth; Cook, Gerry.....	204-532-2268	R
Foxwarren; Graham, George Arthur	204-683-2367	R
Oak River; Mc Lean, Eric	204-566-2422	R

AAC BRANDON☼

Altona; Fuchsmeier, Joni	204-324-3859	R
Altona; Wiebe, Dylan	204-304-0048	C
Altona; Wiebe, Henry D. & Lloyd	204-324-8036	C
Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	C
Baldur; Desrochers, David Oscar	204-535-2090	C
Binscarth; Cook, Gerry.....	204-532-2268	C
Binscarth; Pizzey, Tim V.....	204-683-2316	R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Boissevain; Latimer, Kevin B. & Duane E.....	204-534-8318	C
Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952	C
Brandon; Wheat City Seeds Ltd.....	204-727-3337	C
Brandon; Whetter, Rodney & Darren.....	204-729-7059	S R
Brunkild; Kaminsky, William.....	204-795-6507	C
Carman; Krahn, Myron	204-745-1938	R
Carman; Menold, Thomas	204-745-3377	C
Carman; Menold, Ulrich, Tyler & Lucas	204-745-2822	S F R
Carman; Park, Robert J.....	204-745-3304	R
Cromer; Bartel, Blair.....	204-662-4484	C
Cromer; Bartel, Patrick	204-662-4466	C
Cystal City; Fallis, J. Allan & Mark A.	204-825-4525	C
Darlingford; Morrow, Graham	204-362-8986	C
Dauphin; Fisher, Roderick Allan & Douglas James & Allison	204-622-8800	C
Deloraine; Bolduc, Ronald & Bell, A.J.	204-747-4194	R C

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

3 NEW VARIETIES FOR 2021

RED SPRING WHEAT	
AAC Starbuck / AAC Brandon VB	Midge Tolerant. Bigger yield than ACC Brandon with same straw. FHB Rating & (MR), more protein. Close second of all varieties.
AAC Wheatland / AAC Brandon	Midge Tolerant, with shorter, very strong straw, more protein, (1) Rating for FHB. Highest yield last 3 years.
AAC Leroy VB / AAC Redberry	AAC LeRoy VB is a NEW Midge Tolerant CWRS, with a high yield potential in CWRS. MR for FHB and improved lodging resistance, yields of 13% more than Carberry and 10% over Unity in registration trials, Sm1 Resistance.

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

AAC Alida / AAC Brandon 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. Very good sprouting resistance.

*Available in Foundation, Registered and Certified.

SPRING WHEAT

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.

Domain; Manness, Ronald & Patricia & Graeme & Adeana	204-736-2622	R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S F R C
Dufrost; Catellier, Patrick Raymond	204-347-5503	C
Elm Creek; Runne, James Armin	204-436-3321	C
Foxwarren; Graham, George Arthur	204-683-2367	R
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C
Glenboro; Jefferies, Ron & Cale	204-827-2102	C
Grandview; Storey, R. Kip & Troy K.	204-638-2004	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Hazelridge; Saramaga, Robert P. & Andrew	204-771-0951	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
Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696	C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	C
Kenville; Carmichael, John A.	204-734-3913	R C
Killarney; Chatham, Don, Linda & Cody	204-523-8412	R C
Killarney; Hird, Steven	204-523-7464	C
Lowe Farm; Sawatzky, Matt	204-746-2187	R
Mac Gregor; Hulme, Lorne & Jared	204-685-2627	S F C
Manitou; Sanders, Andre O., Daniel & Dylan	204-242-4200	R
Miniota; Walker, Alan Glen	204-527-3647	C
Minto; Ayre, Andrew	204-776-2333	F C
Minto; Fraser, Rick G.	204-776-2047	R C
Morris; Hamblin, David & Lorraine	204-746-4779	C
Newdale; Wareham, L.B. Shayne	204-849-2112	C
Niverville; Friesen, Reg	204-388-4303	C
Notre Dame De Lourdes; Durand, Gabriel A. & Marc	204-248-2268	C
Oak Bluff; Gousseau, Marcel E.	204-895-1357	C
Oak River; Mc Lean, Eric	204-566-2422	R
Oakville; Miller, Andrea & Chabot, Steven	204-267-2363	R C
Pilot Mound; Smith, Walter George & Schroeder, David	204-825-2212	C
Pilot Mound; Wallace, Joe	204-825-7246	C
Plum Coulee; Janzen, Ken & Ernie A.	204-362-1789	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Plumas; Tonn, Todd & Darren	204-386-2206	S F R
Portage La Prairie; Askin, Raymond T. & Jeffrey S.	204-856-3483	R C
Portage La Prairie; Sanderson, Garry	204-857-8406	R C
Portage La Prairie; Sissons, Blye	204-857-7341	S F R
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	R
Rivers; Krahn, Abe M., Ronald J. & Robert A.	204-761-8702	R
Rivers; Redsper Ent. Ltd.	204-328-5346	C
Rosenort; Friesen Seeds Ltd.	204-746-8325	R C
Rosenort; Friesen, Rick	204-746-8325	C
Rosburn; Mitchell, John	204-859-2431	R C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S F R
Somerset; Sierens, Joseph & Chris	204-744-2883	S F R C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-371-7700	C

SPRING WHEAT

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St. Joseph; Remillard, Aime J., Luc & Paul	204-737-2230	C
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208	R
St. Leon; Pembina Co-Op	204-535-2598	R
Ste. Rose Du Lac; Gamache, Ryan & Patrick	204-447-2118	R C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	R
Treherne; Stinson, Gary Donald	204-723-2319	R
Virden; Hutchison, Barry	204-851-6157	C
Warren; Jones, Gavin R.	204-322-5604	C
Warren; Riddell, Craig Thomas	204-227-5679	S F
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufeld, Sheldon	204-325-4658	R

AAC CAMERON VB ☼

Dauphin; Kaleta, James & Debra	204-638-7800	S F
Grandview; Storey, R. Kip & Troy K.	204-638-2004	C
Killarney; Hird, Steven	204-523-7464	C
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C

AAC ELIE ☼

Altona; Fuchsmeier, Andreas	204-324-9685	C
Altona; Fuchsmeier, Joni	204-324-3859	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Deloraine; Bolduc, Ronald & Bell, A.J.	204-747-4194	R C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Holland; Kubinec, Anastasia	204-526-2776	C
Morris; Hamblin, David & Lorraine	204-746-4779	C

AAC HODGE VB ☼

Binscarth; Pizzey, Tim V.	204-683-2316	S
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	S

AAC LEROY VB ☼

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	C
Elphinstone; Gerrard, Jody	204-759-2213	C
Foxwarren; Falloon, A. Scott	204-683-2347	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C
Minto; Fraser, Rick G.	204-776-2047	R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Russell; Keating, Mark	204-773-3854	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	C

AAC MAGNET ☼

Killarney; Hird, Steven	204-523-7464	R
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AAC PENHOLD☼

Lowe Farm; Sawatzky, Matt 204-746-2187 C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-371-7700 C

AAC REDBERRY☼

Baldur; Desrochers, David Oscar 204-535-2090 R C
Boissevain; Armstrong, Duncan T. & Anthony James ... 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 R
Elphinstone; Gerrard, Jody 204-759-2213 C
Foxwarren; Falloon, A. Scott 204-683-2347 C
Gilbert Plains; Tokar, Bob & Stoughton, Murray 204-548-2805 R C
Homewood; Froebe, Bruce D. & Murray 204-745-6655 C
Miniota; Walker, Alan Glen 204-567-3647 R C
Oak River; Mc Lean, Eric 204-566-2422 C
Rivers; Redspier Ent. Ltd. 204-328-5346 C
Russell; Keating, Mark 204-773-3854 C
St. Leon; Labossiere, Luc N. & Rejean F. 204-744-2208 C
Swan River; Oberlin, George 204-734-2292 C
Virden; Hutchison, Barry 204-851-6157 C

AAC REDSTAR☼

Kenville; Carmichael, John A. 204-734-3913 S F

AAC RUSSELL VB☼

Swan River; Alford, Wayne G. 204-734-2526 F

AAC STARBUCK VB☼

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 S R
Arborg; Timchishen, Donald Victor & Darcy 204-641-1288 S F R
Binscarth; Pizzey, Tim V. 204-683-2316 S F R



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Boissevain; Armstrong, Duncan T. & Anthony James ... 204-534-2566 R
Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 S F
Brandon; Wheat City Seeds Ltd. 204-727-3337 R
Brandon; Whetter, Rodney & Darren 204-729-7059 S R
Brunkild; Kaminsky, William 204-795-6507 R
Carman; Menold, Thomas 204-745-3377 R
Carman; Menold, Ulrich, Tyler & Lucas 204-745-2822 S F
Carman; Park, Robert J. 204-745-3304 R
Crandall; Doupe, Neil D. 204-562-3632 R
Crystal City; Fallis, J. Allan & Mark A. 204-825-4525 R
Darlingford; Morrow, Graham 204-362-8986 R
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
Dufrost; Catellier, Patrick Raymond 204-347-5503 S F
Elphinstone; Gerrard, Jody 204-759-2213 R
Fannystelle; Nadeau, Brian 204-436-2469 R
Grosse Isle; Rutherford, Rick 204-467-5613 R
Homewood; Froebe, Bruce D. & Murray 204-745-6655 F
Kenton; Stevenson, Robert H. & Sidney H. 204-838-2012 R
Killarney; Hird, Steven 204-523-7464 R C
Lowe Farm; Sawatzky, Matt 204-746-2187 S F
Mac Gregor; Hulme, Lorne & Jared 204-685-2627 S R
Minto; Fraser, A. Jay C. 204-776-7722 F R
Minto; Fraser, Rick G. 204-776-2047 S R
Morden; Wilson, James M. 204-362-2449 F R
Morris; Dueck, Arthur 204-746-2026 S
Morris; Hamblin, David & Lorraine 204-746-4779 S F R
Navin; James, David G. 204-222-8785 R
Newdale; Wareham, L.B. Shayne 204-849-2112 R
Niverville; Friesen, Reg 204-388-4303 R



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Notre Dame De Lourdes; Durand, Gabriel A. & Marc.....	204-248-2268	S F
Oak Bluff; Gousseau, Marcel E.....	204-895-1357	R
Oak River; Mc Lean, Eric.....	204-566-2422	S F R
Oakville; Miller, Andrea & Chabot, Steven.....	204-267-2363	C
Pilot Mound; Wallace, Joe.....	204-825-7246	R
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	S R
Plumas; Tonn, Todd & Darren.....	204-386-2206	S F R
Portage La Prairie; Askin, Raymond T. & Jeffrey S.....	204-856-3483	F R
Portage La Prairie; Sanderson, Garry.....	204-857-8406	S F
Portage La Prairie; Sissons, Blye.....	204-857-7341	S F R
Reston; Greig, Fred L. & Cameron & Roper, Jordan.....	204-877-3813	S F R
Rivers; Redesper Ent. Ltd.....	204-328-5346	R
Rosenort; Friesen, Rick.....	204-746-8325	R
Russell; Keating, Mark.....	204-773-3854	F R
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	S F R
Solsgrith; Nickel, James D. & John H. & Kevin J. & J.Gordon.....	204-842-3757	R
Somerset; Sierens, Joseph & Chris.....	204-744-2883	F
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....	204-371-7700	R
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	R
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	R
Virden; Heaman, Douglas J., Walter & Brittany.....	204-748-7666	F
Warren; Riddell, Craig Thomas.....	204-227-5679	S F R
Wawanesa; Ellis, Warren P., Simon & Amanda.....	204-824-2290	R
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon.....	204-325-4658	F R

AAC TISDALE☼

Dufrost; Catellier, Roger & Richard.....	204-746-4175	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray.....	204-548-2805	R
Hazelridge; Saramaga, Robert P. & Andrew.....	204-771-0951	C

SPRING WHEAT

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Kenville; Carmichael, John A.....	204-734-3913	R
Miniota; Walker, Alan Glen.....	204-567-3647	C
Notre Dame De Lourdes; Durand, Leo.....	204-248-2372	R
Souris; Kohut, Richard.....	204-725-5984	C
Swan River; Oberlin, George.....	204-734-2292	R
Treherne; Stinson, Gary Donald.....	204-723-2319	R

AAC VIEWFIELD☼

Arborg; Timchishen, Donald Victor & Darcy.....	204-641-1288	R C
Baldur; Desrochers, David Oscar.....	204-535-2090	C
Cromer; Bartel, Bob.....	204-662-4580	C
Dauphin; Kaleta, James & Debra.....	204-638-7800	C
Decker; Murray, Donald H. & Ryan.....	204-764-0366	F R
Domain; Manness, Ronald & Patricia & Graeme & Adeena.....	204-736-2622	F R
Elphinstone; Gerrard, Jody.....	204-759-2213	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray.....	204-548-2805	C
Grandview; Storey, R. Kip & Troy K.....	204-638-2004	C
Grosse Isle; Rutherford, Rick.....	204-467-5613	R
Hamiota; Knight, Ronald M. & Jeff.....	204-764-2450	C
Inglis; Beischer, Derrick.....	204-564-2676	C
Newdale; Wareham, L.B. Shayne.....	204-849-2112	C
Oak River; Mc Lean, Eric.....	204-566-2422	R
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	R
Plumas; Tonn, Todd & Darren.....	204-386-2206	C
Rivers; Redesper Ent. Ltd.....	204-328-5346	C
Rosenort; Friesen Seeds Ltd.....	204-746-8325	C
Rosenort; Friesen, Lloyd.....	204-746-8198	C
Swan River; Alford, Wayne G.....	204-734-2526	F 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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AAC WHEATLAND VB☺

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	S F R
Binscarth; Pizzey, Benson	204-821-0774	R
Binscarth; Pizzey, Tim V.	204-683-2316	R C
Boissevain; Armstrong, Duncan T. & Anthony James	204-534-2566	R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S F R
Brandon; Wheat City Seeds Ltd.	204-727-3337	R
Decker; Murray, Donald H. & Ryan	204-764-0366	S F R
Elphinstone; Gerrard, Jody	204-759-2213	C
Foxwarren; Falloon, Larry	204-683-2247	R
Foxwarren; Graham, George Arthur	204-683-2367	R
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	R
Grandview; Storey, R. Kip & Troy K.	204-638-2004	R
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	R
Mather; Mc Lennan, Donald D.	204-529-2372	R
Miniota; Walker, Alan Glen	204-567-3647	R
Minto; Fraser, Rick G.	204-776-2047	S F R C
Oak River; Mc Lean, Eric	204-566-2422	S F R
Russell; Keating, Mark	204-773-3854	R
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208	R
Wawanesa; Ellis, Warren P., Simon & Amanda	204-824-2290	S F R

ACCELERATE☺

Dauphin; Kaleta, James & Debra	204-638-7800	C
Killarney; Chatham, Don, Linda & Cody	204-523-8412	C
Morris; Dueck, Arthur	204-746-2026	S C
Virden; Heaman, Douglas J., Walter & Brittany	204-748-7666	C

BOLLES☺

Binscarth; Pizzey, Tim V.	204-683-2316	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Darlingford; Morrow, Graham	204-362-8986	C
Grandview; Storey, R. Kip & Troy K.	204-638-2004	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Homewood; Froebe, Bruce D. & Murray	204-745-6655	C
Inglis; Beischer, Derrick	204-564-2676	C
Newdale; Wareham, L.B. Shayne	204-849-2112	C
Oak Bank; Wyrich, Daniel	204-444-3128	C
Oak River; Mc Lean, Eric	204-566-2422	C
Pilot Mound; Seed Depot Corporation	204-825-2000	R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Portage La Prairie; 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	R C
Swan River; Alford, Wayne G.	204-734-2526	C
Virden; Heaman, Douglas J., Walter & Brittany	204-748-7666	C

CARDALE☼

Lowe Farm; Sawatzky, Matt	204-746-2187	R
Mac Gregor; Hulme, Lorne & Jared	204-685-2627	C
Portage La Prairie; Pugh, William G. & Victoria	204-274-2179	C

CDC LANDMARK VB☺

Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Inglis; Beischer, Derrick	204-564-2676	R
Swan River; Alford, Wayne G.	204-734-2526	C

CDC ORTONA☺

Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C
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CDC SKRUSH☺

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	S F R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S C
Carman; Menold, Thomas	204-745-3377	R
Carman; Menold, Ulrich, Tyler & Lucas	204-745-2822	S
Notre Dame De Lourdes; Durand, Gabriel A. & Marc	204-248-2268	R
Notre Dame De Lourdes; Durand, Leo	204-248-2372	S
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	R
Portage La Prairie; Pugh, William G. & Victoria	204-274-2179	R
Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon	204-842-3757	R
Warren; Riddell, Craig Thomas	204-227-5679	S C

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DAYBREAK☺

Dauphin; Fisher, Roderick Allan & Douglas James & Allison	204-622-8800	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S F C
Dufrost; Catellier, Patrick Raymond	204-347-5503	C
Dufrost; Catellier, Roger & Richard	204-746-4175	C
Morris; Dueck, Arthur	204-746-2026	S
Morris; Mueller, Maite	204-746-2026	C
Oak Bank; Wyrich, Daniel	204-444-3128	C
Rosenort; Friesen, Rick	204-746-8325	C

FALLER

Darlingford; Morrow, Graham	204-362-8986	C
Dauphin; Fisher, Roderick Allan & Douglas James & Allison	204-622-8800	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	C
Grandview; Storey, R. Kip & Troy K.	204-638-2004	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Inglis; Beischer, Derrick	204-564-2676	C
Mac Gregor; Hulme, Lorne & Jared	204-685-2627	C
Oak Bank; Wyrich, Daniel	204-444-3128	C
Oak River; Mc Lean, Eric	204-566-2422	C
Oakville; Miller, Andrea & Chabot, Steven	204-267-2363	C
Plum Coulee; Janzen, Ken & Ernie A.	204-362-1789	C
Rosenort; Friesen, Rick	204-746-8325	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-371-7700	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	C

PROSPER☺

Grosse Isle; Rutherford, Rick	204-467-5613	C
Morris; Hamblin, David & Lorraine	204-746-4779	C
Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon	204-842-3757	C

SHELLY☺

Navin; James, David G.	204-222-8785	C
Plum Coulee; Janzen, Ken & Ernie A.	204-362-1789	C

SNOWSTAR☼

Killarney; Chatham, Don, Linda & Cody	204-523-8412	R C
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SY ROWYN☺

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	R
Rosenort; Friesen, Lloyd	204-746-8198	C

SY TORACH☺

Altona; Fuchsmeier, Joni	204-324-3859	C
Elphinstone; Gerrard, Jody	204-759-2213	C
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Holland; Kubinec, Anastasia	204-526-2776	C
Manitou; Sanders, Andre O., Daniel & Dylan	204-242-4200	F R
Notre Dame De Lourdes; Durand, Gabriel A. & Marc	204-248-2268	R
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	C
Virden; Heaman, Douglas J., Walter & Brittany	204-748-7666	C

WINTER WHEAT

AAC ELEVATE☺

Plumas; Tonn, Todd & Darren	204-386-2206	C
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AAC GATEWAY☼

Lowe Farm; Sawatzky, Matt	204-746-2187	C
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AAC GOLDRUSH☺

Elphinstone; Gerrard, Jody	204-759-2213	C
Grosse Isle; Rutherford, Rick	204-467-5613	R C

Oilseed Crops

Variety Description Key

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

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

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

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

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

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

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

Key to 2020 Yield Tables

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

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

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

Canola & Soybean Comments

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

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



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Manitoba Agriculture Variety Guide

STANDARD CANOLA

Canola Performance Trial Data:

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

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

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

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

Comments:

Variety descriptions summarize the performance of varieties tested in the 2020 Canola Performance Trials (CPT). Data donated by the CPT Committee. For more information visit www.canolaperformancetrials.ca.

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

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

Variety Description

Distributor	Name	LONG Season Zone (5 sites)				MID Season Zone (8 sites) ¹				Disease ² Tolerance	Pod-Shatter Resistance
		Yield (%45CM39)	Maturity (Days)	Lodging (1-5)	Height (inches)	Yield (%45CM39)	Maturity (Days)	Lodging (1-5)	Height (inches)		
Clearfield											
BrettYoung	BY 5105CL	94	87	2.1	49	97	89	2.4	48	BL/CR	N
Pioneer Hi-Bred	P502CL	102	89	2.2	47	96	87	2.7	46	BL	N
	LSD (%)	20				19					
Liberty Link											
BASF - InVigor	L234PC	106	89	1.9	44	99	92	2.6	44	BL/CR	Y
BASF - InVigor	L241C	106	91	1.3	45	96	92	1.8	46	BL/CR	N
BASF - InVigor	L352C	117	94	1.8	48	103	95	2.4	48	BL/CR	N
Pioneer Hi-Bred	P501L	114	90	1.8	46	102	91	2.5	46	BL/CR	N
Proven Seeds	PV 680 LC	114	94	1.2	49	96	95	1.9	50	BL/CR	N
Proven Seeds	PV 681 LC	108	90	2.0	45	100	90	2.6	46	BL/CR	N
	LSD (%)	12				11					
Roundup Ready											
Brevant	1028RR*	102	92	1.8	44	96	94	2.4	47	BL/CR	N
Pioneer Hi-Bred	45CM39	100	92	2.3	46	100	94	2.6	46	BL/CR	Y
Pioneer Hi-Bred	45CS40	109	91	1.8	48	99	92	2.2	52	BL/CR/S	N
Pioneer Hi-Bred	45H37	103	90	2.1	47	91	91	2.8	48	BL/CR	N
BrettYoung	6076 CR	96	94	1.8	48	93	95	2.6	49	BL/CR	N
WinField United Canada	CP20R3C	102	96	1.6	49	92	97	2.0	51	BL/CR	N
CANTERRA SEEDS	CS2300	104	95	1.9	50	97	95	2.4	50	BL	N
Brevant	D3155C	101	92	2.0	47	91	93	2.8	51	BL/CR	N
	LSD (%)	12				10					
TruFlex											
BrettYoung	BY 6204TF	107	93	1.8	46	99	93	2.3	48	BL/CR	N
DEKALB	DKTF 98 CR	102	90	2.1	42	99	92	2.8	46	BL/CR	N
	LSD (%)	12				10					
CHECK MEAN 45CM39 (bu/ac)		58				57					

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

1 Clearfield hybrids tested at 3 Manitoba sites only.

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

Data presented is based on harvest data received as of October 21, 2020.

STANDARD CANOLA (continued)

Yield Comparisons

		2020 Yield (% 45CM39)												
		LONG SEASON ZONE					MID SEASON ZONE							
Distributor	Name	High Bluff, MB	La Salle, MB	Lethbridge, AB	Melita, MB	Souris, MB	Dauphin, MB	Hague, SK	Kamsack, SK	Neepawa, MB	North Battleford, SK	Swan River, MB	Swift Current, SK	Vegreville, AB
Clearfield														
BrettYoung	BY 5105CL	104	100	—	96	76	101	—	—	103	—	87	—	—
Pioneer Hi-Bred	P502CL	93	95	—	95	125	106	—	—	91	—	92	—	—
	LSD (%)	14	15	—	6	26	22			26		9		
Liberty Link														
BASF - InVigor	L234PC	99	106	101	93	129	109	89	96	103	103	84	115	91
BASF - InVigor	L241C	100	105	109	95	122	109	80	109	90	100	78	87	113
BASF - InVigor	L352C	112	114	127	104	128	116	96	110	111	108	86	87	111
Pioneer Hi-Bred	P501L	103	104	114	101	151	124	87	104	102	95	100	96	112
Proven Seeds	PV 680 LC	105	117	126	96	128	111	85	106	81	97	97	80	108
Proven Seeds	PV 681 LC	100	109	111	98	122	116	88	98	82	95	93	109	117
	LSD (%)	7	26	10	6	9	9	13	6	13	8	14	13	9
Roundup Ready														
Brevant	1028RR*	95	102	112	96	103	90	94	93	105	92	93	92	112
Pioneer Hi-Bred	45CM39	100	100	100	100	100	100	100	100	100	100	100	100	100
Pioneer Hi-Bred	45CS40	103	99	117	96	130	104	88	100	115	95	95	85	106
Pioneer Hi-Bred	45H37	90	105	106	91	125	94	88	94	97	87	85	88	97
BrettYoung	6076 CR	101	77	97	98	106	87	88	99	99	101	83	74	111
WinField United Canada	CP20R3C	106	74	108	100	122	94	81	106	100	102	82	56	118
CANTERRA SEEDS	CS2300	107	100	107	97	106	103	94	100	102	104	94	66	115
Brevant	D3155C	100	92	87	99	125	93	84	104	96	96	87	70	97
	LSD (%)	8	23	14	6	10	8	11	4	17	6	12	10	8
TruFlex														
BrettYoung	BY 6204TF	98	112	128	97	101	116	95	106	100	102	80	85	105
DEKALB	DKTF 98 CR	93	114	99	92	113	116	88	101	84	100	98	97	109
	LSD (%)	8	23	14	6	10	8	11	4	17	6	12	10	8
CHECK MEAN 45CM39 (bu/ac)		59	44	70	57	59	58	57	43	54	64	74	31	76
GRAND MEAN (bu/ac)		60	45	76	58	67	61	50	44	53	63	66	27	82
CV%		5.1	11.1	8.4	4.1	6.5	5.6	9.7	3.5	11.0	4.5	9.3	12.4	6.1

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

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STRAIGHT-CUT CANOLA

Comments:

Variety descriptions summarize the performance of varieties tested in the 2020 Canola Performance Trials (CPT). Data donated by the CPT Committee. For more information visit www.canolaperformancetrials.ca.

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

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

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

Variety Description

Distributor	Name	LONG Season Zone (6 sites)				MID Season Zone (9 sites)				Disease ¹ Tolerance	Pod-Shatter Resistance
		Yield (%45CM39)	Maturity (Days)	Lodging (1-5)	Height (inches)	Yield (%45CM39)	Maturity (Days)	Lodging (1-5)	Height (inches)		
Liberty Link											
DEKALB	DKLL 82 SC	103	92	1.7	44	106	92	2.2	43	BL	Y
Brevant	B3010M	94	91	1.3	47	107	92	2.1	46	BL/CR	Y
BASF - InVigor	L233P	112	90	1.6	44	111	90	2.2	44	BL	Y
BASF - InVigor	L234PC	101	90	1.8	44	106	91	2.2	44	BL/CR	Y
BASF - InVigor	L255PC	107	93	1.2	46	114	94	1.7	45	BL/CR	Y
BASF - InVigor	L345PC	110	92	1.7	47	113	91	2.4	47	BL/CR	Y
	LSD (%)	8				12					
Roundup Ready											
Pioneer Hi-Bred	45CM39	100	93	1.9	45	100	93	2.4	44	BL/CR	Y
BrettYoung	6090 RR	85	94	1.5	51	88	94	2.3	49	BL/CR	Y
DEKALB	75-65 RR	96	90	2.1	44	101	91	2.6	45	BL	Y
	LSD (%)	9				13					
TruFlex											
CANTERRA SEEDS	CS2600 CR-T	98	90	2.6	44	104	92	3.0	44	BL/CR	Y
DEKALB	DKTF 96 SC	101	93	1.3	45	109	92	1.9	44	BL	Y
DEKALB	DKTFLL 21 SC*	103	92	2.0	43	109	91	2.6	43	BL	Y
Proven Seeds	PV 760 TM	99	90	1.8	45	108	91	2.3	45	BL	Y
Proven Seeds	PV 761 TM	103	93	1.4	48	106	93	2.1	49	BL	Y
	LSD (%)	9				13					
CHECK MEAN 45CM39 (bu/ac)			55			54					

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

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

Yield Comparisons

		2020 Yield (% 45CM39)														
		LONG SEASON ZONE						MID SEASON ZONE								
Distributor	Name	High Bluff, MB	La Salle, MB	Lethbridge, AB	Melita, MB	Scott, SK	Souris, MB	Dauphin, MB	Hague, SK	Kamsack, SK	Neepawa, MB	North Battleford, SK	St. Brieux, SK	Swan River, MB	Swift Current, SK	Vegreville, AB
Liberty Link																
DEKALB	DKLL 82 SC	96	88	114	98	121	100	108	97	95	127	94	105	119	120	94
Brevant	B3010M	97	80	107	100	101	77	114	108	100	124	97	103	111	100	100
BASF - InVigor	L233P	103	109	121	102	131	103	111	95	99	131	101	116	117	135	95
BASF - InVigor	L234PC	97	99	108	102	104	98	109	95	99	119	100	112	109	107	103
BASF - InVigor	L255PC	109	103	84	111	125	112	116	103	106	153	103	120	115	112	100
BASF - InVigor	L345PC	112	102	94	109	134	110	112	102	109	128	102	111	112	139	101
	LSD (%)	5	10	11	7	6	6	5	10	4	18	4	20	15	21	9
Roundup Ready																
Pioneer Hi-Bred	45CM39	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
BrettYoung	6090 RR	92	46	101	96	102	75	87	88	99	73	98	87	98	63	98
DEKALB	75-65 RR	85	95	98	100	101	95	97	95	99	114	99	99	105	95	103
	LSD (%)	6	11	12	7	11	6	5	16	4	15	5	18	14	35	8
TruFlex																
CANTERRA SEEDS	CS2600 CR-T	85	109	95	97	99	104	113	94	98	104	96	107	107	116	105
DEKALB	DKTF 96 SC	97	95	105	100	111	97	113	98	102	124	100	103	127	110	101
DEKALB	DKTFLL 21 SC*	89	104	101	99	116	109	111	100	97	132	98	108	115	115	102
Proven Seeds	PV 760 TM	86	100	113	100	96	97	110	108	98	116	100	105	115	120	102
Proven Seeds	PV 761 TM	97	95	114	95	115	99	111	100	97	132	98	108	115	108	107
	LSD (%)	6	11	12	7	11	6	5	16	4	15	5	18	14	35	8
CHECK MEAN 45CM39 (bu/ac)		62	47	56	61	32	70	55	41	48	48	70	40	66	27	89
GRAND MEAN (bu/ac)		60	45	59	61	35	68	60	40	48	57	69	42	73	30	89
CV%		4.1	8.1	10.7	5.1	3.9	5.5	3.2	9.7	2.6	9.6	3.8	12.2	9.0	11.8	6.0

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

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CLUBROOT RESISTANT CANOLA VARIETY LISTING — 2021

Comments:

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

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

Clubroot:

Clubroot resistance is generally termed 1st or 2nd Generation, though labelling and terminology differs by seed distributor.

First-generation clubroot resistance confers resistance to clubroot pathotypes 2F 3H, 5I, 6M, and 8N, on the Canadian Clubroot Differential Set.

Second-generation resistance contains resistance to a varying set of pathotypes outside the original five first-generation pathotypes.

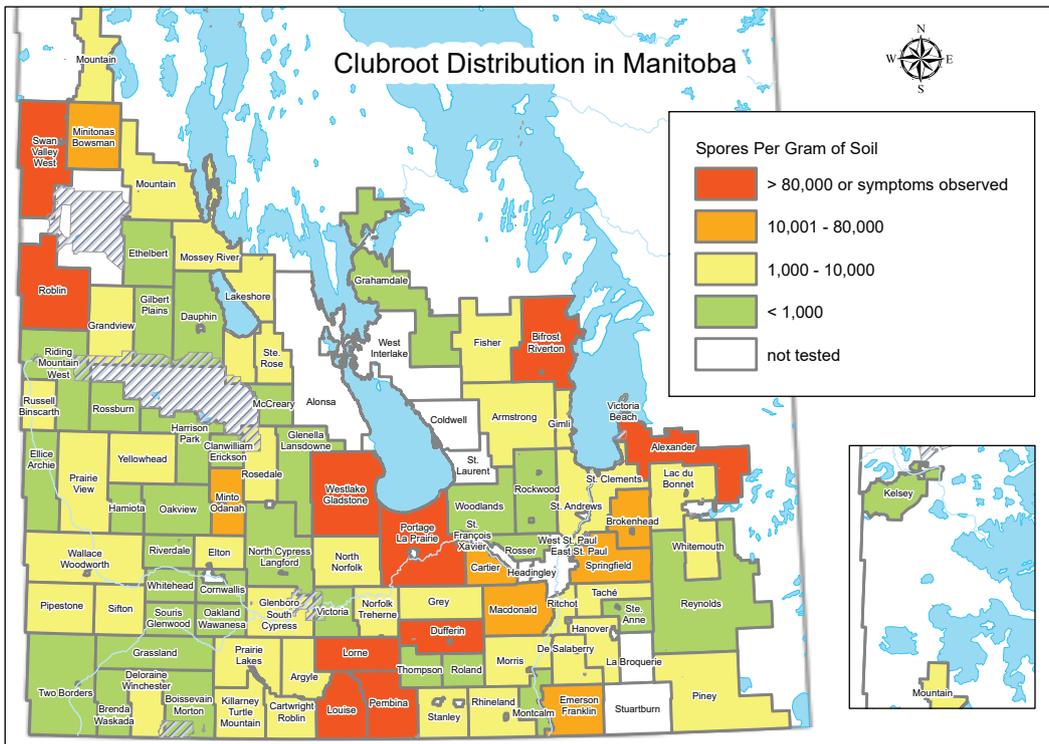
Blackleg:

All varieties listed here are resistant to blackleg (<30% infection of Westar check). Some seed distributors have chosen to provide blackleg resistance grouping based on major-gene (qualitative) resistance within that variety. Quantitative resistance remains an important factor. Visit <https://www.canolacouncil.org/canola-encyclopedia/diseases/blackleg/> for details on how resistance groups work.

Distributor	Hybrid	Herbicide Tolerance ¹	Clubroot Resistance		Blackleg Resistance		Pod Shatter Tolerance
			Resistance Rating	Resistance Generation ²	Resistance Rating	Resistance Group	
BASF - InVigor	L241C	LL	R	1	R		
BASF - InVigor	L234PC	LL	R	1+2	R		Yes
BASF - InVigor	L255PC	LL	R	1	R		Yes
BASF - InVigor	L258HPC	LL	R	1	R		Yes
BASF - InVigor	L340PC	LL	R	1	R		Yes
BASF - InVigor	LR344PC	LL/TF	R	1	R		Yes
BASF - InVigor	L345PC	LL	R	1	R		Yes
BASF - InVigor	L352C	LL	R	1	R		
BrettYoung	6076 CR	RR	R	1+2	R	CE1	
BrettYoung	6090 RR	RR	R	1	R	CE1	Yes
BrettYoung	BY 5105CL	CL	R	1	R	C	
BrettYoung	BY 5125CL	CL	R	1	R	CE1	
BrettYoung	BY 6204TF	TF	R	1	R	CE1	
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	1+2	R		Yes
BREVANT seeds	B3011	LL	R	1	R		
BREVANT seeds	B2030MN	CL	R	1	R		Yes
BREVANT seeds	D3157C	RR	R	1	R		
BREVANT seeds	D3158CM	RR	R	1	R		Yes
Cargill - VICTORY	V14-1	RR	R	1	R	CE1	
Cargill - VICTORY	V24-1	RR	R	1	R	CE1	
Cargill - VICTORY	V25-3T	TF	R	1	R	BCE1	
Cargill - VICTORY	V25-5T	TF	R	1	R	BCE1	
CANTERRA SEEDS	CS2000	RR	R	1	R	CE1	
CANTERRA SEEDS	CS2600 CR-T	TF	R	1+2	R	C	Yes
CANTERRA SEEDS	CS2700 CL	CL	R	2	R	AE2	
DEKALB	75-42 CR	RR	R	1	R	AC	
DEKALB	DKTF 98 CR	TF	R	1	R	AC	
Pioneer Hi-Bred	44H44	RR	R	1			
Pioneer Hi-Bred	45CM39	RR	R	1+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		
Pioneer Hi-Bred	P505MSL	LL	R	1	R		yes
Pioneer Hi-Bred	P506ML	LL	R	1	R		Yes
Pioneer Hi-Bred	P607CL	CL	R	1	R		Yes
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 660 LCM	LL	R	1	R		Yes
Nutrien Ag Solutions	PV 680 LC	LL	R	1	R		
Nutrien Ag Solutions	PV 681 LC	LL	R	1	R		
Nutrien Ag Solutions	PV 780 TC	TF	R	1	R		
WinField United Canada	CP19R1C	RR	R	1	R	C	
WinField United Canada	CP20R3C	RR	R	1+2	R	CX	

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

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



Author: Les Mitchell
 Source: MB ARD Analysis
 Date: November 9, 2020

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

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FLAX

New for 2021

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

Comments:

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

All varieties are immune to rust.

All varieties are susceptible to pasmo.

FP2573 is supported for registration by the Prairie Recommending Committee on Oilseeds (PRCO). It is 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.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Maturity +/- 102 days	Height +/- 68 cm	Seed Color	Seed Size TSW	Oil Content	Oil Quality ¹ :		Resistance Level:	
								Iodine Number	ALA Content	Lodging ²	Fusarium Wilt
AAC Bravo☺	30	34	1	0	brown	6.4	44.6	194.0	60.2	G	MR
AAC Bright☺	6	34	2	0	yellow	5.6	48.8	192.1	56.2	G	MR
AAC Marvelous☺	14	36	2	0	brown	5.8	47.1	192.1	55.8	G	MR
AAC Prairie Sunshine☺	16	34	3	3	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	34	1	3	brown	5.9	45.3	189.9	54.6	G	MR
CDC Dorado☺	9	32	-1	-5	yellow	5.9	46.6	206.6	65.8	FG	MR
CDC Glas☺	27	36	1	3	brown	5.2	45.8	192.0	56.6	G	MR
CDC Neela☺	24	34	1	3	brown	5.7	45.5	194.4	59.1	G	MR
CDC Plava☺	21	34	-2	-3	brown	5.7	46.5	195.5	57.2	G	MR
CDC Rowland☺	14	37	4	0	brown	6.8	45.2	195.1	59.2	G	MR
CDC Sanctuary☺	27	35	3	2	brown	5.8	45.6	190.7	57.2	G	MR
CDC Sorrel☺	56	35	1	3	brown	6.4	45.1	192.7	57.8	F	MR
Hanley☺	70	33	-2	-5	brown	5.7	44.7	197.7	58.6	VG	R
Lightning☺	40	34	1	-5	brown	6.0	47.6	192.5	56.1	G	MR
Prairie Sapphire☺	35	35	2	-3	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☺	23	34	4	-5	yellow	5.1	47.1	209.4	67.6	VG	MR
WestLin 60☺	13	32	-1	-5	brown	5.7	46.1	197.9	59.9	G	MR
WestLin 70	12	33	2	5	brown	6.4	45.8	194.5	61.9	G	MR
WestLin 71☺	15	34	2	-5	brown	5.6	47.5	198.1	61.2	G	MR
WestLin 72☺	24	34	3	-3	brown	5.4	47.0	192.8	57.0	VG	MR
Experimental lines that are being tested / proposed for registration in Canada											
FP2573☺	3	34	1	0	brown	6.5	45.4	191.6	57.3	VG	MR
GRAND MEAN (bu/ac)		34									
LSD (0.05)		1.7									

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

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

Yield Comparisons

VARIETY	2020 Yield (bu/acre)		
	Arborg	Boissevain	Roblin
AAC Marvelous [Ⓢ]	61	42	52
AAC Prairie Sunshine [Ⓢ]	58	32	48
CDC Dorado [Ⓢ]	50	28	42
CDC Glas [Ⓢ]	57	41	50
CDC Rowland [Ⓢ]	56	40	56
VT50 [Ⓢ]	57	33	55
WestLin 72 [Ⓢ]	46	36	50
Experimental lines that are being tested / proposed for registration in Canada			
FP2573 [Ⓢ]	54	31	55
SITE GRAND MEAN (bu/ac)	55	35	51
CV%	11.7	7.6	8.0
LSD (bu/ac)	—	5	7
Sign Diff	No	Yes	Yes
Seeding Date	13-May	01-Jun	12-May
Harvest Date	08-Sep	14-Sep	14-Sep

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SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

Maturity Notes:

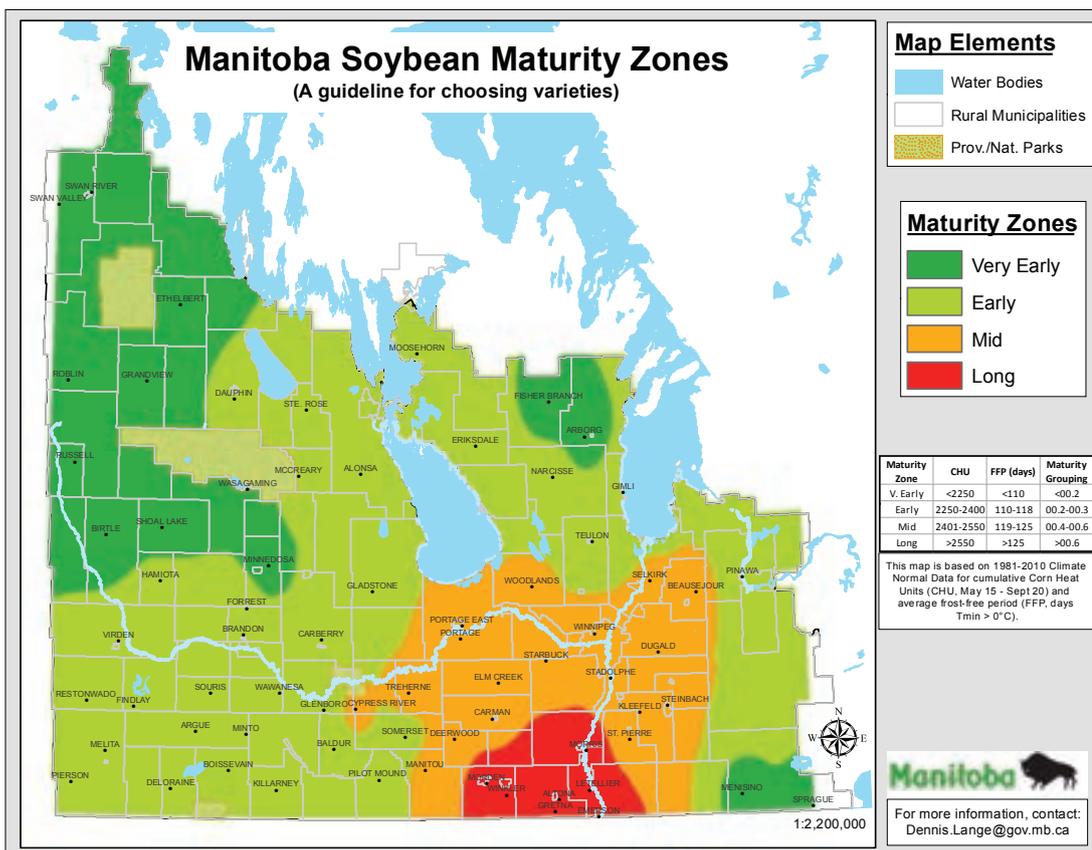
- 1 Soybean varieties have been organized into 4 maturity zones - very early, early, mid and long season areas.
- 2 Maturity grouping is a ranking of maturity provided by seed suppliers. Rankings are assigned to assist growers in selecting varieties suited for their area.
- 3 Relative days to maturity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

General Notes:

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

MANITOBA SOYBEAN MATURITY MAP

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



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WESTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

Comments:

The Western Manitoba Soybean Variety trial data was provided by the Manitoba Pulse & Soybean Growers

Variety Descriptions

Maturity Zone	Variety	Yield %	Site Years	Maturity days	IDC ²		Resistance		2020 Yield % of Akras R2				
		Check	Tested	+/- Check ¹	Rating/Group	SCN ³	PRR ⁴	Boissevain	Dauphin	Hamiota	Melita	Swan River	
Very Early Season Zone	B00071RX	85	7	-13	1.7 / T	—	1k	78	77	104	96	85	
	Amirani R2Ø	90	7	-9	1.8 / ST	—	1k	90	91	109	94	80	
	DKB002-32	104	5	-7	1.9 / ST	Yes	1k	99	103	118	103	94	
	Fresco R2X	92	7	-7	2.2 / ST	—	—	80	86	115	94	103	
	NSC Watson RR2Y	94	27	-6	2.1 / ST	—	6	100	91	126	102	105	
	B0011RX	108	5	-6	1.7 / T	—	1k	112	88	134	96	108	
	NSC Wynyard RR2X	95	5	-5	2.3 / S	—	1a	94	83	118	85	96	
	NocomarR2Ø	85	17	-5	2.0 / ST	—	1c	67	78	81	81	74	
	S0009-M2	95	27	-5	2.0 / ST	—	6	104	94	122	96	104	
Early Season Zone	RX000918	96	12	-3	1.8 / ST	Yes	1c	111	94	127	105	78	
	DKB0005-44	91	12	-3	1.9 / ST	Yes	1c	93	83	107	98	93	
	Fisher R2X	97	7	-3	1.8 / ST	Yes	1k	106	97	126	103	72	
	TH89004 R2X	101	7	-2	1.8 / ST	—	1c	114	95	115	96	96	
	S001-D8X	108	5	-2	2.0 / ST	—	1c	106	97	116	101	124	
	Torro R2	95	17	-1	2.2 / ST	—	—	107	90	116	101	95	
	PV 15s0009 R2X	99	11	-1	2.1 / ST	Yes	1c	104	97	123	97	109	
	P003A97X	98	7	-1	1.9 / ST	Yes	1k	90	100	120	97	88	
	S003-Z4X	107	7	-1	1.9 / ST	—	1c	100	102	134	104	106	
	P001A48X	100	7	-1	1.7 / T	—	1c	96	98	124	93	108	
	Mahony R2	100	29	-1	2.9 / S	—	—	106	96	123	101	—	
	SI 001XTN	97	12	-1	1.7 / T	Yes	1k	85	104	116	106	79	
	S007-Y4	102	30	-1	2.0 ST	—	1c	107	112	136	103	—	
	Prince R2X	97	11	-1	1.8 / ST	—	1k	98	95	129	102	107	
	Devo R2X	89	7	-1	1.8 / ST	—	—	84	80	112	93	78	
	Renuka R2XØ	106	6	0	1.7 / T	—	1c	106	100	129	105	—	
	TH 88005R2XN	95	9	0	1.8 / ST	Yes	1c	100	103	98	100	—	
	P005A83X	106	7	0	1.8 / ST	Yes	1c	104	105	126	100	112	
	NSC Redvers RR2X	97	10	0	1.9 / ST	Yes	1c	118	92	125	106	—	
	Akras R2	100	31	0	1.7 / T	—	1c	100	100	100	100	100	
SI 000919XT	100	5	0	1.7 / T	—	—	91	89	122	104	89		
DKB0009-89	99	12	0	1.9 / ST	Yes	1c,1k	113	101	117	106	98		
NSC Newton RR2X	86	15	0	2.0 / ST	—	—	93	85	103	92	—		
Mid Season Zone	Sunna R2X	102	10	1	1.7 / T	Yes	1c	98	104	135	106	—	
	S005-C9X	112	4	1	2.3 / S	—	1c	112	98	130	106	—	
	TH 87003 R2X	95	18	1	1.8 / ST	Yes	1c	84	86	96	99	74	
	B0030L1	94	7	2	1.9 / ST	—	—	88	93	111	95	83	
	Bourke R2X	103	6	2	1.9 / ST	—	1k	104	107	116	101	—	
	P006A37X	108	11	2	1.8 / ST	—	1c	107	112	124	107	110	
	PS 0068 XR	110	4	3	1.8 / ST	—	1c	114	94	120	108	—	
	P005A27X	100	12	3	1.9 / ST	—	1c	85	98	111	103	102	
	Merritt R2X	106	4	3	1.9 / ST	Yes	1c,1k	91	103	120	108	—	
	PV 16s004 R2X	99	10	3	1.8 / ST	Yes	1k	109	100	116	95	—	
Kudo R2X	102	6	3	1.7 / T	—	—	110	99	116	97	—		
CHECK CHARACTERISTICS					Akras R2 (bu/ac)			48	45	55	66	44	
Akras R2					CV %			13.0	4.3	4.4	3.8	8.2	
bu/acre site years days					LSD %			21	7	8	6	13	
					Sign Diff.			Yes	Yes	Yes	Yes	Yes	
					Seeding Date			28-May	15-May	16-May	19-May	25-May	
					Harvest Date			26-Sep	02-Oct	01-Oct	18-Sep	13-Oct	

1 Relative days to maturity based on multiple year average. Due to the frost no maturity data from Hamiota was used.

2 Iron Deficiency Chlorosis (IDC) Groupings - These ratings determined at a separate trial near Winnipeg that is prone to IDC T=Tolerant, ST=Semi-Tolerant, S=Susceptible.

3 SCN - Soybean Cyst Nematode Resistance.

4 PRR - Phytophthora Race Specific Resistant Genes.

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EASTERN MANITOBA CONVENTIONAL SOYBEANS

Comments:

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

Variety Descriptions

Maturity Zone	Variety	Yield % Check	Site Years Tested	Maturity (days) ¹ +/- of Check	Hilum Colour	IDC ² Rating/Group	
Early Season Zone	Norfolk	94	20	-6	IY	2.3 / S	
	Fjord	95	12	-4	IY	1.9 / ST	
	AAC Halliø	101	39	-3	Y	2.1 / ST	
	Siberia	110	11	-2	IY	1.9 / ST	
Mid Season Zone	OAC Prudence	100	136	0	Y	1.6 / T	
	Maxus	99	18	0	IY	2.0 / ST	
	Reynolds	107	17	2	IY	2.3 / S	
	Liskaø	118	6	4	IY	2.3 / S	
	Kebek	100	17	6	Y	1.8 / ST	
	Abaca	127	3	6	IY	1.8 / ST	
	DH863	96	25	6	IY	2.3 / S	
	Experimental lines that are being tested / proposed for registration in Canada						
		SVX21T000S1	110	6	1	IY	2.1 / ST
		SVX21T00S2	108	6	3	IY	1.7 / T
Long Season Zone	CER10-11.97	101	6	5	IY	1.9 / ST	
	CER14-640	106	6	5	IY	2.1 / ST	
	PR130167Z1-02	111	3	6	BR	1.8 / ST	
	Meteor	100	17	7	IY	2.3 / S	
	Aurelina	116	3	8	IY	1.9 / ST	
	Mayaø	101	3	9	IY	1.7 / T	
Long Season Zone	Stanley	113	6	10	IY	2.1 / ST	
	Astor	114	12	12	Y	2.0 / ST	
	Experimental lines that are being tested / proposed for registration in Canada						
		CER14-142	111	6	9	Y	2.1 / ST
	DL18.3004	117	6	11	Y	2.1 / ST	
CHECK CHARACTERISTICS							
OAC Prudence		47	136	112			
		bu/acre	site years	days			

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

2 Iron Deficiency Chlorosis (IDC) Groupings - These long term ratings determined at a separate trial near Winnipeg that is prone to IDC T=Tolerant, ST=Semi-Tolerant, S=Susceptible

Yield Comparisons

		2020 Yield % of OAC Prudence						
		Early Sites			Core Sites			
Maturity Zone	Variety	Arborg	Beausejour	Stonewall	Carman	Morris	Portage	
Early Season Zone	Norfolk	84	63	85	97	95	106	
	Fjord	92	87	87	111	100	92	
	AAC Halli [®]	90	89	113	100	98	103	
	Siberia	106	97	95	121	116	115	
Mid Season Zone	OAC Prudence	100	100	100	100	100	100	
	Maxus	—	—	—	106	103	98	
	Reynolds	94	94	109	107	107	100	
	Liska [®]	—	—	—	121	118	110	
	Kebek	99	87	92	111	118	107	
	Abaca	—	—	—	133	134	117	
	DH863	—	—	—	99	99	87	
	Experimental lines that are being tested / proposed for registration in Canada							
		SVX21T000S1	112	97	104	132	103	112
		SVX21T00S2	105	108	105	126	105	103
		CER10-11.97	104	103	99	99	108	91
	CER14-640	103	110	105	103	112	100	
	PR130167Z1-02	—	—	—	124	110	103	
Long Season Zone	Meteor	100	102	99	96	97	88	
	Aurelina	—	—	—	127	117	108	
	Maya [®]	—	—	—	105	102	96	
	Stanley	—	—	—	109	112	91	
	Astor	—	—	—	104	110	97	
	Experimental lines that are being tested / proposed for registration in Canada							
	CER14-142	110	116	116	110	121	95	
	DL18.3004	—	—	—	114	112	99	
Check Characteristics OAC Prudence (bu/acre)		44	52	32	40	51	52	
CV%		7	10	7	9	4	7	
LSD%		12	16	11	16	8	11	
Sign Diff.		Yes	Yes	Yes	Yes	Yes	Yes	
Seeding Date		15-May	20-May	23-May	26-May	22-May	03-Jun	
Harvest Date		29-Sep	07-Oct	24-Sep	01-Oct	29-Sep	06-Oct	



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WESTERN MANITOBA CONVENTIONAL SOYBEANS

Comments:

The Western Manitoba Conventionals 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	2020 Yield % OAC Prudence		
						Melita	Swan River	
Early Season Zone	Ambella	98	2	BR	-9	95	103	
	AAC Halli [®]	93	6	Y	-3	103	82	
	Fjord	95	6	IY	-3	95	105	
Mid Season Zone	Siberia	103	4	IY	-2	102	109	
	Liska [®]	111	2	IY	-1	100	112	
	OAC Prudence	100	9	Y	0	100	100	
	Maxus	95	6	Y	0	93	100	
	Maya [®]	97	2	IY	4	88	89	
	Experimental lines that are being tested / proposed for registration in Canada							
	PR130933Z-05	92	2	Y	-1	95	89	
	PR130167Z1-02	90	2	BR	4	98	81	
CHECK CHARACTERISTICS						OAC Prudence (bu/ac)	39	31
	OAC Prudence (bu/ac)	36	9		118	CV%	4.1	9.2
		bu/acre	site years		days	LSD%	7	15
						Sign Diff	Yes	Yes
						Seeding Date	21-May	04-Jun
						Harvest Date	17-Sep	13-Oct

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

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EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

The Eastern Manitoba Herbicide Tolerant soybean data was provided by Manitoba Pulse & Soybean Growers.

Variety Descriptions

Maturity			Yield	Site	Maturity	Hilum	IDC ³	Resistance	
Zone	Variety	Type ¹	Check	Years Tested	(days) ² +/- of Check	Colour	Rating/Group	SCN ⁴	PRR ⁵
Very Early Season Zone	Fresco R2X	R2X	79	6	-10	BL	2.2 / ST	—	—
	B0011RX	R2X	83	6	-9	TN	1.7 / T	—	1k
	NSC Wynyard RR2X	R2X	78	6	-9	BL	2.3 / S	—	1a
Early Season Zone	S001-D8X	R2X	95	6	-6	IY	2.0 / ST	—	1c
	Devo R2X	R2X	90	17	-6	BR	1.9 / ST	—	—
	SI 000919XT	R2X	89	6	-5	BL	1.7 / T	—	—
	Torro R2	R2Y	96	15	-5	BL	2.2 / ST	—	—
	RX000918	R2X	97	11	-5	BL	1.8 / ST	Yes	1c
	P001A48X	R2X	96	11	-4	TN	1.7 / T	—	1c
	NSC Culross RR2X	R2X	100	11	-4	BL	1.7 / T	—	1c
	NSC Redvers RR2X	R2X	94	11	-4	BL	1.9 / ST	Yes	1c
	SI 001XTN	R2X	102	17	-3	BL	1.7 / T	Yes	1k
	Prince R2X	R2X	92	17	-3	BL	1.8 / ST	—	1k
	Akras R2	R2Y	102	21	-3	BL	1.7 / T	—	1c
	TH89004 R2X	R2X	89	11	-3	BR	1.8 / ST	—	1c
	S007-Y4	R2Y	105	21	-2	IY	2.0 / ST	—	1c
S006-M4X	R2X	98	11	-2	IY	1.9 / ST	—	1c	
S003-Z4X	R2X	102	6	-2	BF	1.9 / ST	—	1c	
Renuka R2X ^Ø	R2X	102	6	-2	LB	1.7 / T	Yes	1c	
Mid Season Zone	P005A83X	R2X	100	11	-1	BL	1.8 / ST	Yes	1c
	S005-C9X	R2X	102	6	-1	BL	2.3 / S	—	1c
	RX Acron	R2X	107	8	-1	BL	1.8 / ST	Yes	—
	B0030L1	R2Y	95	11	-1	BR	1.9 / ST	—	—
	Sunna R2X	R2X	103	17	0	GR	1.7 / T	Yes	1c
	Bourke R2X	R2X	103	17	0	BL	1.8 / ST	—	1k
	Merritt R2X	R2X	104	6	0	BI	1.9 / ST	Yes	1c, 1 k
	Foote R2	R2X	96	21	0	IY	1.8 / ST	—	1c
	P005A27X	R2X	101	17	0	BR	1.9 / ST	—	1c
	P007A90R ^Ø	RR1	100	22	0	BL	1.7 / T	Yes	1c
	PS 0068 XR	R2X	104	12	0	BL	1.8 / ST	—	1c
	NSC Sperling RR2Y	R2Y	107	17	0	IY	1.7 / T	—	1a, 3a
	P006A37X	R2X	109	17	0	BR	1.8 / ST	—	1c
	DKB003-29	R2X	98	21	0	BL	1.7 / T	Yes	—
	DKB002-32	R2X	103	6	0	BR	1.9 / ST	Yes	1k
	NSC Cartier RR2X	R2X	105	6	1	BL	2.0 / ST	—	3a
	B0040L1	R2Y	96	17	1	BR	1.7 / T	—	—
	Barker R2X	R2X	103	17	1	BL	1.8 / ST	Yes	1k
	TH 87003 R2X	R2X	96	21	1	BL	1.8 / ST	Yes	1c
	PV 16s004 R2X	R2X	101	17	1	BL	1.9 / ST	Yes	1k
	PV 19s006R2X	R2X	92	10	1	IB	2.0 / ST	Yes	1c
	DKB005-52	R2X	103	22	2	BL	1.8 / ST	Yes	1c
	S007-A2XS	R2X	110	6	2	GR	1.9 / ST	—	—
	Kudo R2X	R2X	105	4	2	BL	1.7 / T	—	—
	P007A08X	R2X	110	5	2	GR	1.8 / ST	—	1c
	B0066L1	R2Y	98	9	2	Y	1.9 / ST	Yes	1k
Elmo E3	E3	107	4	2	BR	1.8 / ST	Yes	—	
RX00797	R2X	97	20	2	BL	1.7 / T	Yes	1c	

(continued) EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

Maturity Zone	Variety	Type ¹	Yield % Check	Site Years Tested	Maturity (days) ² +/- of Check	Hilum Colour	IDC ³ Rating/Group	Resistance SCN ⁴	PRR ⁵	
Long Season Zone	PS 0074 R2	R2Y	107	17	3	BR	1.7 / T	—	—	
	TH 88007R2X	R2X	102	18	3	BL	1.9 / ST	—	1c	
	PV 12s007 R2X	R2X	101	21	3	BL	1.9 / ST	—	—	
	TH 88005R2XN	R2X	100	18	3	BL	1.8 / ST	Yes	1c	
	P00A49X	R2X	105	12	4	BR	1.7 / T	Yes	1c	
	SI 007XTN	R2X	106	14	4	BL	1.8 / ST	Yes	1c	
	DKB006-29	R2X	104	18	5	BL	1.7 / T	—	1k	
	NSC Winkler RR2X	R2X	106	12	5	BL	1.8 / ST	Yes	1c	
	PV 10s005 RR2	R2Y	107	15	5	BL	1.9 / ST	—	—	
	NSC Aubigny RR2X	R2X	98	4	6	BL	1.6 / T	Yes	1k	
	TH89009 R2XN	R2X	108	8	6	BL	1.6 / T	Yes	1k	
	Astro R2	R2Y	110	8	7	BL	1.7 / T	—	1k	
	Vidar R2X	R2X	104	14	8	BL	1.7 / T	Yes	1c	
	CHECK CHARACTERISTICS									
	P007A90R0			43	22	114				
			bu/acre	site years	days					

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



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EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

Yield Comparisons

Maturity Zone	Variety	2020 Yield: % of P007A90R					
		Early Site		Core Site			
		Beausejour	Stonewall	Carman	Morris	Portage	St Adolphe
Very Early Season Zone	Fresco R2X	78	83	94	74	71	75
	B0011RX	63	97	109	67	74	102
	NSC Wynyard RR2X	74	80	91	72	79	73
	S001-D8X	91	90	104	88	101	97
	Devo R2X	86	87	96	77	89	90
Early Season Zone	SI 000919XT	64	83	116	85	98	90
	RX000918	80	102	121	89	99	92
	P001A48X	91	99	107	92	88	103
	NSC Culross RR2X	94	99	101	102	104	113
	NSC Redvers RR2X	87	97	114	102	92	95
	SI 001XTN	83	108	123	99	100	111
	Prince R2X	80	93	111	92	85	97
	Akras R2	89	94	99	72	96	110
	TH89004 R2X	72	92	108	89	91	82
	S007-Y4	87	115	122	106	109	122
	S003-Z4X	79	106	122	102	107	102
	Renuka R2X [†]	91	102	118	98	108	96
	Mid Season Zone	P005A83X	79	97	115	104	98
S005-C9X		84	111	125	99	99	96
RX Acron		—	—	110	103	104	112
B0030L1		80	95	118	95	95	99
Sunna R2X		84	107	113	104	112	103
Bourke R2X		82	103	112	101	99	115
Merritt R2X		98	108	109	98	102	118
Foote R2		83	103	107	106	99	101
P005A27X		106	88	100	95	99	107
P007A90R		100	100	100	100	100	100
PS 0068 XR		—	—	112	111	87	93
NSC Sperling RR2Y		105	115	117	101	106	106
P006A37X		109	122	123	113	117	112
DKB003-29		97	95	115	94	94	103
DKB002-32		93	104	106	107	99	110
NSC Cartier RR2X		99	105	123	107	93	103
B0040L1		88	97	124	103	107	111
Barker R2X		—	—	122	109	96	114
TH87003 R2X		86	90	98	88	87	99
PV 16s004 R2X		86	105	109	105	104	111
PV 19s006R2X		93	101	100	89	98	97
DKB005-52		100	104	129	107	105	113
S007-A2XS		103	112	119	97	117	120
Kudo R2X		—	—	104	99	107	111
B0066L1		—	—	110	101	94	102
Elmo E3		—	—	107	102	114	106
RX00797		78	95	108	91	93	99

(continued) EASTERN MANITOBA HERBICIDE TOLERANT SOYBEANS

Maturity Zone	Variety	2020 Yield: % of P007A90R						
		Early Site		Core Site				
		Beausejour	Stonewall	Carman	Morris	Portage	St Adolphe	
Long Season Zone	PS 0074 R2	—	—	106	114	111	113	
	TH 88007R2X	87	104	112	102	97	102	
	PV 12S007 R2X	92	98	112	103	93	104	
	TH 88005R2XN	95	99	122	104	92	92	
	P00A49X	—	—	120	99	111	106	
	SI 007XTN	81	98	131	104	91	103	
	DKB006-29	—	—	127	103	108	107	
	NSC Winkler RR2X	—	—	114	102	93	113	
	TH89009 R2XN	—	—	105	95	105	109	
	Vidar R2X	—	—	112	100	105	97	
Check Characteristics		P007A90R (bu/ac)	55	43	48	58	54	32
		CV %	9.1	6.6	6.9	5.5	7.4	7.8
		LSD %	13	11	12	9	12	13
		Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date		19-May	23-May	26-May	22-Oct	03-Jun	20-May	
Harvest Date		08-Oct	29-Sep	01-Oct	30-Sep	06-Oct	22-Sep	



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SUNFLOWERS - NON-OIL TYPE (CONFECTIONARY)

Comments:

These varieties were tested and data donated by the Manitoba Crop Alliance (MCA). More details on these trials can be found on the MCA website: www.mbcropalliance.ca.

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)	2020 Seed Sizing (%) ²		
							>22/64	>20/64	<20/64
NuSeed America	6946 DMR	DM	27	100	0	0	19	36	45
NuSeed America	Panther DMR	DM	35	100	0	-3	69	23	8
Experimental lines tested/proposed for registration in Canada									
CHS	RH1121	Conventional	2	114	3	1	72	19	9
CHS	RH208-EX	ExSun	2	110	5	-2	63	24	13
MCA	EX 35957	ExSun	2	115	-4	2	72	20	8
MCA	EX 40057	ExSun	2	100	2	-1	69	22	9
MCA	EX 57101	ExSun	2	108	-1	1	73	20	7
CHECK CHARACTERISTICS									
6946 DMR			27	3128	122	67			
			site years	lbs/ac	days	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	Elm Creek						Rossendale					
	Yield (lb/ac)	Maturity ¹ (days to R9)	2020 Seed Sizing (%) ²			Test Wt (lb/bu A)	Yield (lb/ac)	Maturity ¹ (days to R9)	2020 Seed Sizing (%) ²			Test Wt (lb/bu A)
			>22/64	>20/64	<20/64				>22/64	>20/64	<20/64	
6946 DMR	2106	119	4	31	66	23.7	2482	126	34	41	25	21.9
Panther DMR	2219	118	58	30	12	20.7	2471	119	80	15	5	21.9
Experimental lines being tested/proposed for registration in Canada												
EX 35957	2749	119	58	30	12	23.9	2525	119	86	10	4	20.5
EX 40057	2148	123	48	36	16	24.3	2438	125	91	7	2	20.8
EX 57101	2419	119	57	32	11	19.6	2521	124	89	8	4	17.8
RH1121	2325	124	55	31	15	22.3	2915	127	90	8	3	19.9
RH208-EX	2368	125	47	32	22	21.1	2683	130	79	17	5	18.7
Site Average	2333	121				22.2	2577	124				20.2
CV%	8.5											5.4
Sign Diff	No											Yes
LSD (0.05)	—											264
Planting Date	21-May					22-May						
Desiccation Date	—					—						
Harvest Date	06-Oct					07-Oct						

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

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

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SUNFLOWERS - OIL TYPE

Comments:

These varieties were tested and data donated by the Manitoba Crop Alliance (MCA). More details on these trials can be found on the MCA website: www.mbcropalliance.ca.

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

Variety Descriptions

Company	Variety	Herbicide/Disease ¹ Tolerance	Site Years	Yield % check	Maturity ² (% check)	Height (inches)	% Oil	Oil ³ Type	Test ⁴ Weight
Corteva	P63HE60	ExSun / DM	14	96	-2	0	44.9	HO	32.5
Corteva	P63ME70	ExSun / DM	19	100	0	0	44.6	NS	30.1
Corteva	P63ME80	ExSun / DM	17	95	1	0	48.4	NS	31.6
NuSeed Americas	N4HE302 E	ExSun	8	88	-3	1	44.4	HO	29.5
NuSeed Americas	N4HM354	CL / DM	14	104	-1	-4	47.6	NS	33.7
NuSeed Americas	Talon	ExSun	17	97	-3	-4	42.5	NS	28.9
Experimental lines tested/proposed for registration in Canada									
Corteva	PH_experimental	ExSun	2	105	-1	4	43.8	HO	27.1
CHS	8D310CL	CL	2	106	2	2	39.6	CO	25.0
NuSeed Americas	N5LM307	CL	4	103	-2	-7	41.8	CO	27.6
WinField United	CP432E	ExSun	2	107	-3	0	43.1	NS	27.5
WinField United	CP455E	ExSun	2	112	2	1	44.1	HO	26.9
WinField United	CP4909E	ExSun	2	98	-1	-3	44.9	HO	29.4
CHECK CHARACTERISTICS									
P63ME70			19	3236	124	69			
			site years	lb/ac	days	inches			

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

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

3 Oil Type include NS=NuSun; HO=High Oleic; CO = ConOil.

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

Site Comparisons

Hybrid	Elm Creek					Rossendale				
	Yield (lb/ac)	Moisture (%)	Maturity ¹ (days to R9)	Test Wt (lb/bu)	Oil (%)	Yield (lb/ac)	Moisture (%)	Maturity ¹ (days to R9)	Test Wt ² (lb/bu)	Oil (%)
N4HE302 E	2293	8.4	119	28.1	44.9	1923	10.8	119	23.1	43.9
N4HM354	2540	7.0	118	31.5	48.7	2595	13.5	126	28.3	46.4
Talon	2518	7.3	119	27.9	44.7	1990	12.9	119	20.5	40.3
P63HE60	2133	7.1	123	28.8	45.0	2136	12.9	123	27.2	44.8
P63ME70	2275	9.6	125	26.9	46.0	2361	10.2	126	23.2	43.2
P63ME80	2223	6.9	119	29.2	47.7	2404	14.1	128	26.6	49.0
Experimental lines being tested/proposed for registration in Canada										
8D310CL	2450	8.8	126	26.4	39.6	2454	12.4	128	23.5	39.6
PH_experimental	2286	6.7	123	29.4	43.8	2603	10.9	126	24.8	43.7
N5LM307	2633	9.2	117	27.3	41.3	2456	14.2	126	21.7	42.3
CP432E	2309	6.9	119	29.0	42.5	2655	11.1	126	26.0	43.7
CP455E	2424	8.6	125	28.7	44.2	2776	13.9	130	25.1	43.9
CP4909E	2388	7.3	123	31.2	45.2	2178	14.0	126	27.6	44.6
Site Average	2380	7.8	121	28.7	44.5	2377	12.5	125	24.8	43.8
CV%	6.2									
Sign Diff	Yes									
LSD (0.05)	250									
Planting Date	21-May					22-May				
Desiccation Date	—					—				
Harvest Date	06-Oct					07-Oct				

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

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

Distributor Contacts for Listed Varieties in Seed Manitoba 2021

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

CANOLA

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

FLAX

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

CONVENTIONAL SOYBEANS

Astor	Ceres Global Seeds
Reynolds	Ceres Global Seeds
Meteor	Ceres Global Seeds
FJORD	Ceres Global Seeds
Stanley	Ceres Global Seeds
DH863	Ceres Global Seeds
Norfolk	Ceres Global Seeds
AAC Halli	Interlake.org Inc.
AAC Mandor	Agriculture and Agri-Food Canada
Maxus	Prograin Inc
Sibera	Prograin Inc
Liska	Prograin Inc
Maya	Prograin Inc
OAC Morden	SeCan
OAC Prudence	SeCan
Fjord	SG CERESCO
Kebek	SG CERESCO
Ambella	SAATBAU LINZ eGen
Abaca	SAATBAU LINZ eGen
Aurelina	SAATBAU LINZ eGen

ROUNDUP READY SOYBEANS

Amirani R2	BrettYoung
Akras R2	BrettYoung
Karpo R2	Brett Young
NocomaR2	BrettYoung
Renuka R2X	BrettYoung
RX Acron	BrettYoung
Sunna R2X	BrettYoung
Vidar R2X	BrettYoung
B0011RX	BREVANT seeds
B00071RX	BREVANT seeds
B0030L1	BREVANT seeds
B0040L1	BREVANT seeds
B0066L1	BREVANT seeds
SI 001XTN	Ceres Global Seeds
SI 007XTN	Ceres Global Seeds
SI 000919XT	Ceres Global Seeds

ROUNDUP READY SOYBEANS

RX000918	CROPLAN
RX00218	CROPLAN
RX00797	CROPLAN
DKB002-32	DEKALB
DKB0005-44	DEKALB
DKB0009-89	DEKALB
DKB003-29	DEKALB
DKB005-52	DEKALB
DKB006-29	DEKALB
Varuna R2	MaizeX
NSC Aubigny RR2X	NorthStar Genetics Manitoba
NSC Culross RR2X	NorthStar Genetics Manitoba
NSC Cartier RR2X	NorthStar Genetics Manitoba
NSC EXP0004X	NorthStar Genetics Manitoba
NSC EXP0007X	NorthStar Genetics Manitoba
NSC EXP002E	NorthStar Genetics Manitoba
NSC Gladstone RR2Y	NorthStar Genetics Manitoba
NSC Newton RR2X	NorthStar Genetics Manitoba
NSC Redvers RR2X	NorthStar Genetics Manitoba
NSC Richer RR2Y	NorthStar Genetics Manitoba
NSC Sperling RR2Y	NorthStar Genetics Manitoba
NSC Watson RR2Y	NorthStar Genetics Manitoba
NSC Winkler RR2X	NorthStar Genetics Manitoba
NSC Wynyard RR2X	NorthStar Genetics Manitoba
PV 10s005 RR2	Nutrien Ag Solutions
PV 12s007 R2X	Nutrien Ag Solutions
PV 19s006R2X	Nutrien Ag Solutions
PV 15s0009 R2X	Nutrien Ag Solutions
PV 16s004 R2X	Nutrien Ag Solutions

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ROUNDUP READY SOYBEANS

P001A48X	Pioneer Hi-Bred
P003A97X	Pioneer Hi-Bred
P005A27X	Pioneer Hi-Bred
P005A83X	Pioneer Hi-Bred
P006A37X	Pioneer Hi-Bred
P007A08X	Pioneer Hi-Bred
P007A90R0	Pioneer Hi-Bred
P00A49X	Pioneer Hi-Bred
PS 00095 R2	PRIDE Seeds
PS 0068 XR	PRIDE Seeds
PS 0074 R2	PRIDE Seeds
Devo R2X	Prograin Inc
Elmo E3	Prograin Inc
Fresco R2X	Prograin Inc
Kudo R2X	Prograin Inc
Torro R2	Prograin Inc
Barker R2X	SeCan
Bishop R2	SeCan
Bourke R2X	SeCan
Fisher R2X	SeCan
Foote R2	SeCan
Hart R2X	SeCan
Mahony R2	SeCan
Major R2X	SeCan
McLeod R2	SeCan
Merritt R2X	SeCan
Mynarski R2X	SeCan
ND17009GT	SeCan
Prince R2X	SeCan
Young R2X	SeCan
S001-D8X	Syngenta Canada
S003-Z4X	Syngenta Canada
S005-C9X	Syngenta Canada
S007-A2XS	Syngenta Canada
S0009-M2	Syngenta Canada

ROUNDUP READY SOYBEANS

S006-M4X	Syngenta Canada
S007-Y4	Syngenta Canada
Astro R2	Thunder Seeds Canada
TH 87003 R2X	Thunder Seeds Canada
TH 88005R2XN	Thunder Seeds Canada
TH 88007R2X	Thunder Seeds Canada
TH89004 R2X	Thunder Seeds Canada
TH89009 R2XN	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
Ceres Global Seeds.....	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
PRIDE Seeds	1-800-265-5280
SeCan	1-800-665-7333
SeedNet	1-403-715-9771
SG CERESCO	1-450-454-2727
SAATBAU LINZ eGen	1-514-609-0881
Syngenta Canada Inc.....	1-877-964-3682
Thunder Seeds Canada	1-306 213 8888



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Growers List



CANOLA

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6074 RR
Morden; Adams, Jayson204-331-3611 C

FLAX

AAC BRAVO
Domain; Manness, Ronald & Patricia & Graeme & Adeena204-736-2622 R C

AAC MARVELOUS
Domain; Manness, Ronald & Patricia & Graeme & Adeena204-736-2622 S F R

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

CDC GLAS
Boissevain; Froese, Wesley A.J. & Ian204-534-6846 R
Carman; Menold, Thomas204-745-3377 C
Crandall; Doupe, Neil D.204-562-3632 C
Crystal City; Buchanan, Kenneth S. & Dean K.....204-873-2661 R C
Dufrost; Catellier, Roger & Richard204-746-4175 C
Notre Dame De Lourdes; Durand, Gabriel A. & Marc...204-248-2268 S F R
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufeld, Sheldon204-325-4658 C

FLAX

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CDC NEELA
Fannystelle; Nadeau, Brian204-436-2469 C
Reston; Greig, Fred L. & Cameron & Roper, Jordan204-877-3813 R C

CDC PLAVA
Foxwarren; Graham, George Arthur.....204-683-2367 R

CDC ROWLAND
Boissevain; Froese, Wesley A.J. & Ian204-534-6846 S F
Carman; Menold, Thomas204-745-3377 F
Crandall; Doupe, Neil D.204-562-3632 F
Notre Dame De Lourdes; Durand, Gabriel A. & Marc...204-248-2268 S
Oak Lake; Smith, Gerald R. & Leigh E.....204-855-3128 F
Portage La Prairie; Pugh, William G. & Victoria204-274-2179 F
Reston; Greig, Fred L. & Cameron & Roper, Jordan204-877-3813 F
Stonewall; Unger, Ronald K. & Darcy204-467-8630 S F

CDC SORREL
Boissevain; Armstrong, Duncan T. & Anthony James ...204-534-2566 C
Portage La Prairie; Pugh, William G. & Victoria204-274-2179 C
Stonewall; Unger, Ronald K. & Darcy204-467-8630 R

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

TOPAZ
Elphinstone; Gerrard, Jody.....204-759-2213 C

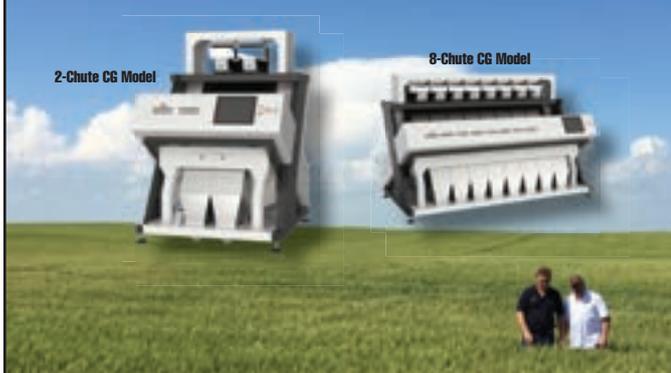
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CENTENNIAL

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, Tyler & Lucas.....204-745-2822 S

AKRAS R2

St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....204-371-7700 R

BARKER R2X

Carman; Park, Robert J.....204-745-3304 R
Portage La Prairie; Askin, Raymond T. & Jeffrey S.....204-856-3483 S F R

BISHOP R2

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

SOYBEANS

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BOURKE R2X

Altona; Wiebe, Henry D. & Lloyd204-324-8036 C
Arborg; Timchishen, Donald Victor & Darcy204-641-1288 S C
Boissevain; Armstrong, Duncan T. & Anthony James ...204-534-2566 C
Brandon; Wheat City Seeds Ltd.204-727-3337 C
Carman; Park, Robert J.....204-745-3304 C
Darlingford; Morrow, Graham204-362-8986 C
Navin; James, David G.204-222-8785 C
Oakville; Miller, Andrea & Chabot, Steven204-267-2363 C
Rivers; Redsper Ent. Ltd.....204-328-5346 C
Stonewall; Unger, Ronald K. & Darcy.....204-467-8630 C
Warren; Riddell, Craig Thomas204-227-5679 S F C
Wawanesa; Ellis, Warren P., Simon & Amanda.....204-824-2290 C

FISHER R2X

Ste. Rose Du Lac; Gamache, Ryan & Patrick.....204-447-2118 C

FOOTE R2

Portage La Prairie; Pugh, William G. & Victoria204-274-2179 C

HART R2X

Arborg; Timchishen, Donald Victor & Darcy204-641-1288 R
Dufrost; Catellier, Patrick Raymond.....204-347-5503 R
Warren; Riddell, Craig Thomas204-227-5679 R

KARPO R2☽

Grosse Isle; Rutherford, Rick204-467-5613 C

MAHONY R2

Brandon; Wheat City Seeds Ltd.204-727-3337 C
Darlingford; Morrow, Graham204-362-8986 C
Kenton; Stevenson, Richard D.O. & Douglas204-838-2696 C
Miniota; Walker, Alan Glen204-567-3647 C
Oakville; Miller, Andrea & Chabot, Steven204-267-2363 C
Wawanesa; Ellis, Warren P., Simon & Amanda.....204-824-2290 C

MAJOR R2X

Ste. Rose Du Lac; Gamache, Ryan & Patrick.....204-447-2118 F

MERRITT R2X

Arborg; Timchishen, Donald Victor & Darcy204-641-1288 R
Brandon; Wheat City Seeds Ltd.204-727-3337 R
Dufrost; Catellier, Patrick Raymond.....204-347-5503 R
Warren; Riddell, Craig Thomas204-227-5679 S F R
Wawanesa; Ellis, Warren P., Simon & Amanda.....204-824-2290 R

MYNARSKI R2X

Grosse Isle; Rutherford, Rick204-467-5613 F
Ste. Rose Du Lac; Gamache, Ryan & Patrick.....204-447-2118 F

ND17009GT

Carman; Park, Robert J.....204-745-3304 R
Kenton; Stevenson, Robert H. & Sidney H.....204-838-2012 R
Morris; Dueck, Arthur.....204-746-2026 R
Portage La Prairie; Askin, Raymond T. & Jeffrey S.....204-856-3483 R

NSC AUBIGNY RR2X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom204-736-2849 S R
Rosenort; Friesen Seeds Ltd.....204-746-8325 R

NSC CARTIER RR2X

Domain; Manness, Ronald & Patricia & Graeme & Adeena204-736-2622 S F R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom204-736-2849 R
Hazelridge; Saramaga, Robert P. & Andrew204-771-0951 R
Homewood; Froebe, Bruce D. & Murray204-745-6655 C
Rosenort; Friesen Seeds Ltd.....204-746-8325 R

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NSC CULROSS RR2X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom204-736-2849 S F
 Fannystelle; Nadeau, Brian204-436-2469 C
 St. Claude; Rouire, Roland & Guy204-379-2582 C

NSC EXP0004X

Grosse Isle; Rutherford, Rick204-467-5613 S F

NSC EXP0007X

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom204-736-2849 S F

NSC EXP0002E

Grosse Isle; Rutherford, Rick204-467-5613 R

NSC GLADSTONE RR2Y

Domain; Manness, Ronald & Patricia & Graeme & Adeena204-736-2622 S F C
 Grosse Isle; Rutherford, Rick204-467-5613 C
 St. Claude; Rouire, Roland & Guy204-379-2582 C

NSC NEWTON RR2X

Reston; Greig, Fred L. & Cameron & Roper, Jordan204-877-3813 C

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NSC REDVERS RR2X

Darlingford; Morrow, Graham204-362-8986 C
 Domain; Manness, Ronald & Patricia & Graeme & Adeena204-736-2622 C
 Grosse Isle; Rutherford, Rick204-467-5613 S F C
 Oak River; Mc Lean, Eric204-566-2422 C
 Plumas; Court, Randolph A. & Tracy L.204-386-2354 C
 Reston; Greig, Fred L. & Cameron & Roper, Jordan204-877-3813 C
 St. Claude; Rouire, Roland & Guy204-379-2582 C
 Winnipeg; Northstar Genetics,204-262-2421 C

NSC RICHER RR2Y

Domain; Manness, Ronald & Patricia & Graeme & Adeena204-736-2622 C
 Rosenort; Friesen Seeds Ltd.204-746-8325 C

NSC SPERLING RR2Y

Domain; Manness, Ronald & Patricia & Graeme & Adeena204-736-2622 R
 Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom204-736-2849 C
 Fannystelle; Nadeau, Brian204-436-2469 C
 Grosse Isle; Rutherford, Rick204-467-5613 C
 Hazelridge; Saramaga, Robert P. & Andrew204-771-0951 R
 Portage La Prairie; Ronald, Kelly204-857-7437 R
 Rosenort; Friesen Seeds Ltd.204-746-8325 R



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NSC WATSON RR2Y

Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	
.....204-736-2849	S F R
Fannystelle; Nadeau, Brian	R
.....204-436-2469	
Fisher Branch; Caners, Allan	C
.....204-372-6863	
Oak River; Mc Lean, Eric	C
.....204-566-2422	
Reston; Greig, Fred L. & Cameron & Roper, Jordan	C
.....204-877-3813	
Russell; Keating, Mark	C
.....204-773-3854	
Somerset; Sierens, Joseph & Chris	C
.....204-744-2883	

NSC WINKLER 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	C
.....204-436-2469	
Rosenort; Friesen Seeds Ltd.	C
.....204-746-8325	

NSC WYNYARD RR2X

Grosse Isle; Rutherford, Rick	S F
.....204-467-5613	
Hazelridge; Saramaga, Robert P. & Andrew	C
.....204-771-0951	
Oak River; Mc Lean, Eric	C
.....204-566-2422	
Russell; Keating, Mark	C
.....204-773-3854	



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OAC MORDEN

Carman; Menold, Ulrich, Tyler & Lucas204-745-2822	F
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OAC PRUDENCE

Carman; Menold, Ulrich, Tyler & Lucas204-745-2822	S F
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PRINCE R2X

Portage La Prairie; Askin, Raymond T. & Jeffrey S.204-856-3483	R
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YOUNG R2X

Arborg; Timchishen, Donald Victor & Darcy204-641-1288	S R
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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 climactic 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 2020 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.





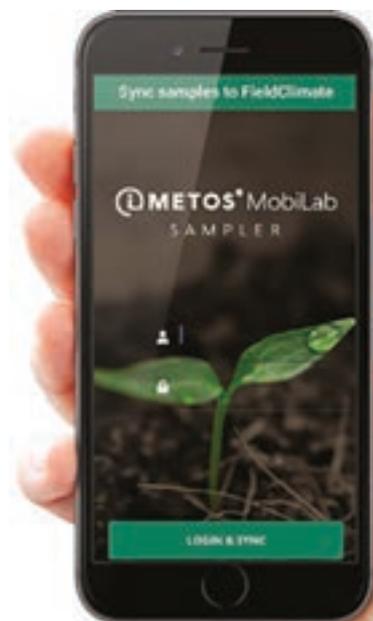
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Manitoba Agriculture Variety Guide

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)	2020 Yield % Check Variety	
					Roblin	Stonewall
Colored Flower (Tannin)						
Fabelle [®]	100	1	105	533	100	100
CHECK CHARACTERISTICS						
Fabelle (tannin)	3852 lbs/ac	5 Site Years	105 days	Fabelle (lbs/acre)	3768	4118
				CV%	11.8	7.0
				LSD (%)	—	12
				Sign Diff	No	Yes
White Flower (Zero Tannin)						
DL Tesoro [®]	109	3	110	511	—	103
Snowbird [®]	100	16	104	495	—	100
DL Rico [®]	89	3	109	566	—	93
CHECK CHARACTERISTICS						
Snowbird (zero tannin)	4824 lbs/ac	16 Site Years	104 days	Snowbird (lbs/acre)	—	3748
				CV %	—	5.1
				LSD (%)	—	8
				Sign Diff	—	Yes
				Seeding Date	07-May	17-May
				Harvest Date	10-Sep	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			Yield % Check	Site Years Tested	Maturity ¹ (days) +/- Check
		2020	2019	2018			
Small Seeded Types					% CDC Blackstrap	+/- CDC Blackstrap	
Navy	AAC Argosy	x		x	90	5	7
Navy	AAC Shock	x	x	x	84	10	8
Navy	Bolt	x	x	x	81	14	7
Black	CDC Blackstrap ^Ø	x	x	x	100	23	0
Black	CDC Jet	x	x	x	88	23	5
Black	CDC SuperJet	x	x	x	95	23	5
Black	Eclipse	x	x	x	101	11	6
Navy	HMS Medalist	x			78	3	3
Navy	Indi	x	x	x	94	7	5
Navy	Nautica	x		x	85	7	10
Navy	SV1893GH ^Ø	x			88	5	4
Navy	T9905	x	x	x	86	12	8
Large Seeded Types					% Windbreaker	+/- Windbreaker	
Pinto	SV6139GR ^Ø	x	x		109	8	0
Pinto	SV6533GR ^Ø		x		94	2	0
Pinto	Windbreaker	x	x	x	100	15	0
Varieties that are registered in the US or being tested or proposed for registration in Canada							
Pinto	ND Palomino ^Ø	x			102	3	1
CHECK CHARACTERISTICS							
	Bean Grouping				Yield (lbs/ac)	Site Years	Days to Maturity
	Small seeded				CDC Blackstrap	2780	23
	Large seeded				Windbreaker	2505	12

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.

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.

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

Variety Descriptions

MARKET CLASS/Variety	Years tested			Yield % of Check	Site Years Tested	Maturity ¹ (days) +/- Check
	2020	2019	2018			
NAVY				% of T9905		+/- T9905
AAC Argosy	x		x	104	12	-1
AAC Shock	x		x	97	8	-2
Armada	x			97	4	0
Bolt	x		x	93	19	-2
HMS Medalist	x	x		99	6	1
Indi	x	x	x	101	28	-2
Nautica	x		x	89	18	0
SV1893GH [Ⓢ]	x			95	13	1
T9905	x	x	x	100	36	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
15094	x	x		103	6	-1
15095	x	x		101	6	3
S09-27C		x		86	2	-4
PINTO				% of Windbreaker		+/- Windbreaker
Cowboy [Ⓢ]	x	x		108	6	3
La Paz	x	x	x	99	21	5
Monterrey	x	x		106	20	3
SV6139GR [Ⓢ]	x	x		104	24	-2
SV6533GR [Ⓢ]		x		97	9	-1
Vibrant	x	x	x	108	17	-1
Windbreaker	x	x	x	100	52	0
Varieties that are registered in the US or being tested or proposed for registration in Canada						
11278		x		104	6	-1
16-NP1	x			86	4	4
18-283		x		97	2	2
18-376		x		104	2	1
18-456		x		94	2	1
19-279	x			96	4	7
19-382	x			89	4	5
ND Palomino [Ⓢ]	x	x		106	6	5

MANITOBA
Pulse Soybean
GROWERS

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

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or follow us on Twitter @MBPulseGrowers

MARKET CLASS/Variety	Years tested			Yield % of Check	Site Years Tested	Maturity ¹ (days) +/- Check	
	2020	2019	2018				
BLACK							
				% of Eclipse		+/- Eclipse	
Ace	x	x		99	6	-2	
Black Tails	x	x		98	6	0	
CDC Blackstrap [®]	x		x	94	17	-5	
CDC Jet	x		x	89	43	-1	
CDC Superjet	x		x	88	31	-1	
Eclipse [®]	x	x	x	100	45	0	
Zenith		x	x	96	6	3	
Varieties that are registered in the US or being tested or proposed for registration in Canada							
W11-02-152		x		83	2	0	
PINK							
				% of Floyd		+/- Floyd	
Floyd		x	x	100	27	0	
CRANBERRY							
				% of Etna		+/- Etna	
AAC Scotty		x	x	111	14	5	
Etna	x	x	x	100	58	0	
OAC Candycane	x			134	3	4	
OAC Racer	x			110	3	-1	
Varieties that are registered in the US or being tested or proposed for registration in Canada							
AGT01	x			76	3	1	
Amaranto	x			101	3	-3	
CR10875		x		92	2	-1	
Krimson	x	x	x	103	21	-1	
SV3709GC		x		109	6	-4	
GREAT NORTHERN							
				% of Pink Panther		+/- of Pink Panther	
Aries	x	x		135	13	-2	
Varieties that are registered in the US or being tested or proposed for registration in Canada							
Powderhorn		x	x	133	8	-3	
DARK RED KIDNEY							
				% of Pink Panther		+/- of Pink Panther	
Red Hawk		x		65	15	4	
Dynasty	x		x	96	6	6	
Montcalm		x	x	81	5	6	
Varieties that are registered in the US or being tested or proposed for registration in Canada							
161164	x			74	3	5	
Red Rover	x			56	6	5	
LIGHT RED KIDNEY							
				% of Pink Panther		+/- Pink Panther	
Big Red	x	x	x	99	24	0	
Pink Panther	x	x	x	100	56	0	
Varieties that are registered in the US or being tested or proposed for registration in Canada							
Red Dawn	x			99	8	-9	
Check Varieties							
Eclipse			Black	First Year Tested	Yield lbs/ac	Site Years Tested	Maturity (days)
Etna			Cranberry	2005	2449	45	96
Floyd			Pink	2007	1759	58	99
Pink Panther			Light Red Kidney	2005	2400	27	92
T9905			Navy	2001	1981	56	99
Windbreaker			Pinto	2009	2366	30	100
				2002	2657	56	93

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

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

Variety	Yield % Check	Site Years Tested	Relative ¹ Maturity	Relative Vine Length	Seed Size (TKW)	Resistance Level to:								
						Lodging	Powdery Mildew	Mycosphaerella blight	Fusarium ² Wilt	Seed Coat				
										Green ³	Breakage	Dimpling ⁴	Bleaching	
Yellow														
AAC Ardill	99	35	Mid	M	240	G	VG	F	G	G	G	G	G	n/a
AAC Asher ^⓪	102	12	Mid	S	260	G	VG	F	F	G	F	F	F	n/a
AAC Carver ^⓪	104	29	Early	L	240	G	VG	F	F	G	G	G	G	n/a
AAC Chrome ^⓪	108	25	Long	M	240	G	VG	F	F	G	G	G	G	n/a
AAC Delhi ^⓪	102	13	Mid	M	290	G	VG	F	F	G	F	F	F	n/a
AAC Lacombe ^⓪	100	33	Long	L	270	G	VG	F	F	F	F	F	G	n/a
AAC Profit ^⓪	101	12	Long	M	230	G	VG	F	F	G	F	G	G	n/a
CDC Amarillo	100	35	Long	M	230	VG	VG	F	G	G	F	F	F	n/a
CDC Athabasca ^⓪	96	19	Long	L	300	VG	VG	F	G	G	F	F	F	n/a
CDC Canary ^⓪	98	19	Early	L	230	VG	VG	F	F	F	G	F	F	n/a
CDC Inca ^⓪	104	33	Mid	L	230	G	VG	F	F	F	G	G	G	n/a
CDC Lewochko ^⓪	103	19	Mid	L	230	VG	VG	F	F	G	G	G	G	n/a
CDC Meadow	97	85	Early	M	220	G	VG	F	F	G	G	G	G	n/a
CDC Saffron	97	49	Mid	M	250	G	VG	F	F	G	G	G	F	n/a
CDC Spectrum ^⓪	95	19	Long	L	240	VG	G	F	F	G	G	G	G	n/a
Green														
AAC Comfort ^⓪	97	24	Long	M	260	G	VG	F	F	n/a	G	G	G	G
BlueMan ^⓪	96	6	Long	M	230	G	VG	F	F	n/a	VG	G	F	F
CDC Forest ^⓪	101	19	Long	L	230	G	VG	F	F	n/a	G	G	G	G
CDC Greenwater	97	34	Mid	M	220	G	VG	F	G	n/a	VG	G	G	G
CDC Limerick	96	34	Long	M	210	VG	VG	F	F	n/a	VG	G	G	G
CDC Spruce ^⓪	98	19	Long	L	240	G	VG	F	F	n/a	F	F	F	G
CDC Striker	87	89	Early	M	230	VG	P	F	G	n/a	VG	G	G	G
Maple														
AAC Liscard	93	24	Early	M	180	G	VG	F	n/a	n/a	n/a	n/a	n/a	n/a
Forage														
DL Delicious	73	6	Long	VL	220	F	n/a	F	n/a	n/a	VG	F	n/a	n/a
DL Goldeye ^⓪	69	13	Long	VL	160	VP	n/a	F	n/a	G	VG	VG	VG	n/a
DL Lacross	86	13	Mid	VL	190	G	n/a	F	n/a	F	VG	G	G	n/a
LSD %	6													
CHECK CHARACTERISTICS														
CDC Armarillo	76	94												
	bu/ac	Days												

1 Maturity Ratings Determined at Hamiota, Morden, Melita, Swan River, -3 days considered early, 0 to +3 days considered long.

2 Varieties which show good disease tolerance to one strain of Fusarium wilt may be susceptible to other strains.

3 Green seed coats: G = 0-10%; F = 11-25%.

4 Seed coat dimpling rating : VG = 0-5%; G = 6-20%; F = 21-50%.

For Protein data on Peas please go to Seed Manitoba online: www.seedmb.ca

2020-2021 Yellow Pea Contracts

Multi-Year Contracting Opportunity

Roquette is offering the option of pricing one or two-year contracts for the upcoming growing season.

Contracted Peas Picked Up on Farm

No cost to the producer for transportation.

For more information contact:

Glen Last, Grain Buyer at c: (204) 872-0619 or Microsoft Teams (403) 304-0173

Preferred Variety Premium

All yellow peas varieties are eligible for 2021 Roquette contracts, with sustainability premiums.

An additional premium will be added when growing one of the following preferred varieties:

Abarth	CDC Amarillo	CDC Profit
Agassiz	CDC Canary	CDC Saffron
AAC Asher	CDC Inca	CDC Spectrum
AAC Lacombe	CDC Lewochko	

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Yield Comparisons

Variety	2020 Yield % CDC Amarillo					
	Carberry	Hamiota	Melita	Morden	Roblin	Swan River
Yellow						
AAC Ardill	112	101	98	109	125	109
AAC Asher	106	88	108	118	100	109
AAC Carver ^⓪	107	91	100	110	116	102
AAC Chrome ^⓪	116	85	107	121	113	114
AAC Delhi ^⓪	95	94	105	117	111	110
AAC Lacombe ^⓪	109	90	98	122	106	109
AAC Profit ^⓪	112	93	98	100	111	109
CDC Amarillo	100	100	100	100	100	100
CDC Athabasca ^⓪	110	94	97	90	101	103
CDC Canary ^⓪	113	99	91	102	115	102
CDC Inca ^⓪	118	106	101	112	104	111
CDC Lewochko ^⓪	100	116	98	99	107	108
CDC Meadow	100	97	100	108	88	106
CDC Saffron	109	89	91	106	99	101
CDC Spectrum ^⓪	89	90	94	98	95	104
Green						
AAC Comfort ^⓪	122	89	101	97	115	107
Blueman ^⓪	98	85	95	94	121	107
CDC Forest ^⓪	112	102	101	86	102	107
CDC Greenwater	107	98	93	101	95	105
CDC Limerick	97	101	96	97	88	98
CDC Spruce ^⓪	88	88	97	100	113	107
CDC Striker	99	81	89	96	105	93
Maple						
AAC Liscard	97	89	96	101	100	96
Forage						
DL Delicious	95	66	67	89	78	70
DL Goldeye ^⓪	82	71	57	61	85	66
DL Lacross	98	86	95	103	93	71
CDC Amarillo (bu/ac)	94	67	94	78	72	92
CV %	10.2	4.5	7.2	6.8	11.0	4.8
LSD (%)	17	7	11	11	19	8
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	06-May	07-May	06-May	19-May	07-May	14-May
Harvest Date	24-Aug	25-Aug	17-Aug	24-Aug	27-Aug	27-Aug

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- Earlier than ACTM Agassiz
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Distributor Contacts for Listed Varieties in Seed Manitoba 2021

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	Scouler Company Canada Inc.
Snowbird☺	Cyre Seed Farms

FIELD BEANS

NAVY	
AAC Argosy	Various Bean Dealers
AAC Shock	Various Bean Dealers
Armada	Various Bean Dealers
Blizzard	Various Bean Dealers
Bolt	Hensall District Coop
Envoy	Various Bean Dealers
Fathom	University of Guelph
Indi	ADM- Seed West
Lightning	Hensall District Coop
HMS Medalist	ADM- Seed West
Nautica	Hensall District Coop
OAC Spark	University of Guelph
Portage	CANTERRA SEEDS
SV1893GH☺	CANTERRA SEEDS
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☺	Scouler 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
OAC Candycane	Various Bean Dealers
OAC Racer	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 Invincible CL	Saskatchewan Pulse Growers
CDC KR2☺	Saskatchewan Pulse Growers
CDC Lima CL☺	Saskatchewan Pulse Growers
CDC Marble	Saskatchewan Pulse Growers
CDC Maxim CL	Saskatchewan Pulse Growers
CDC Nimble☺ CL	Saskatchewan Pulse Growers

LENTILS

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
DL Delicious	DL Seeds
AAC Chrome☺	FP Genetics
AAC Profit☺	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
Bluman☺	SeedNet Inc
AAC Ardill	Wagon Wheel Seed Corp.
AAC Liscard	Wagon Wheel Seed Corp.

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DL Seeds.....	1-204-331-3611
CANTERRA SEEDS	1-877-439-7333
Columbia Seeds	1-403-654-2158
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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



FABA BEAN

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☉

Crandall; Doupe, Neil D. 204-562-3632 R
Glenboro; Jefferies, Ron & Cale..... 204-827-2102 S

DL TESORO☉

Oakville; Miller, Andrea & Chabot, Steven 204-267-2363 R
Warren; Riddell, Craig Thomas 204-227-5679 S F R C

SNOWBIRD☪

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

FIELD BEANS

CDC BLACKSTRAP☉

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

OAC VORTEX

Morden; Kyle, Lorne C. & C. Angus..... 204-362-0513 S

SV6139GR☉

Portage La Prairie; Sissons, Blye..... 204-857-7341 C
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon 204-325-4658 C

WINDBREAKER

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 C
Homewood; Froebe, Bruce D. & Murray 204-745-6655 C
Portage La Prairie; Sissons, Blye..... 204-857-7341 C
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon 204-325-4658 C

FIELD PEAS

AAC CARVER☉

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 C
Boissevain; Armstrong, Duncan T. & Anthony James ... 204-534-2566 C
Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
Dauphin; Fisher, Roderick Allan & Douglas James & Allison 204-622-8800 C
Domain; Manness, Ronald & Patricia & Graeme & Adeena 204-736-2622 C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom 204-736-2849 R C
Glenboro; Jefferies, Ron & Cale 204-827-2102 C
Holland; Patenaude, Donald & Robert 204-526-2391 C
Oakville; Miller, Andrea & Chabot, Steven 204-267-2363 R
Pilot Mound; Wallace, Joe 204-825-7246 C
Portage La Prairie; Munro, Clarke Allan & Jared Cory & Trevor Clarke 204-857-8272 C
Russell; Keating, Mark..... 204-773-3854 C
Sanford; Bergen, Edward Harry & Tim 204-736-2278 S F R
Stonewall; Unger, Ronald K. & Darcy..... 204-467-8630 R
Wawanesa; Ellis, Warren P., Simon & Amanda 204-824-2290 C

AAC CHROME☉

Arborg; Timchishen, Donald Victor & Darcy 204-641-1288 S C
Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
Carman; Park, Robert J..... 204-745-3304 C

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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 C
Elphinstone; Gerrard, Jody..... 204-759-2213 C
Gilbert Plains; Tokar, Bob & Stoughton, Murray 204-548-2805 R C
Hamiota; Knight, Ronald M. & Jeff 204-764-2450 C
Killarney; Hird, Steven 204-523-7464 C
Mac Gregor; Hulme, Lorne & Jared 204-685-2627 R
Oak River; Mc Lean, Eric 204-566-2422 C
Pilot Mound; Smith, Walter George & Schroeder, David 204-825-2212 C
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 C
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Rosenort; Friesen, Rick 204-746-8325 C
Russell; Keating, Mark..... 204-773-3854 C
Somerset; Sierens, Joseph & Chris 204-744-2883 C

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Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
Elphinstone; Gerrard, Jody..... 204-759-2213 C

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AAC PROFIT☉

Boissevain; Armstrong, Duncan T. & Anthony James ...	204-534-2566	R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Carman; Park, Robert J.....	204-745-3304	S R
Domain; Manness, Ronald & Patricia & Graeme & Adeena	204-736-2622	R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	R
Rivers; Redsper Ent. Ltd.....	204-328-5346	R

ABARTH☉

Inglis; Beischer, Derrick.....	204-564-2676	R C
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CDC AMARILLO

Brandon; Wheat City Seeds Ltd.....	204-727-3337	S F R
Decker; Murray, Donald H. & Ryan.....	204-764-0366	C
Foxwarren; Graham, George Arthur.....	204-683-2367	R
Kenton; Stevenson, Robert H. & Sidney H.....	204-838-2012	C
Miniota; Walker, Alan Glen	204-567-3647	C
Reston; Greig, Fred L. & Cameron & Roper, Jordan	204-877-3813	C
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	C

CDC ATHABASCA☉

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Inglis; Beischer, Derrick.....	204-564-2676	C

CDC FOREST☉

Decker; Murray, Donald H. & Ryan.....	204-764-0366	C
Oak River; Mc Lean, Eric	204-566-2422	C



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- Varietal Confirmation



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WWW.SGS.CA | WWW.BIOVISION.CA



FIELD PEAS

S=Select; F=Foundation; R=Registered; C=Certified; ☼ Indicates Plant Breeders Rights (PBR) protection under UPOV 1978 and ☉ protected or pending under UPOV 1991; ** listed varieties are eligible for seed class, but undergoing post-harvest seed testing for Additional Certification Requirements, at time of publication.

CDC INCA☉

Brandon; Wheat City Seeds Ltd.....	204-727-3337	S F R
Foxwarren; Graham, George Arthur.....	204-683-2367	C
Swan River; Badowski, Dennis.....	204-734-6222	C

CDC JASPER☉

Crystal City; Buchanan, Kenneth S. & Dean K.....	204-873-2661	S F R
Dauphin; Durston, Scott L.....	204-638-5569	R

CDC LEWOCHKO☉

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	S R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Decker; Murray, Donald H. & Ryan.....	204-764-0366	R
Glenboro; Jefferies, Ron & Cale.....	204-827-2102	R
Oakville; Miller, Andrea & Chabot, Steven	204-267-2363	R
Rivers; Redsper Ent. Ltd.....	204-328-5346	R
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	R
Winkler; Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Neufled, Sheldon	204-325-4658	F R

CDC MEADOW

Cromer; Bartel, Blair.....	204-662-4484	C
Crystal City; Buchanan, Kenneth S. & Dean K.....	204-873-2661	C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Oak River; Mc Lean, Eric	204-566-2422	C

CDC SPECTRUM☉

Crystal City; Buchanan, Kenneth S. & Dean K.....	204-873-2661	R
Foxwarren; Graham, George Arthur.....	204-683-2367	S C

DL GOLDEYE☉

Warren; Riddell, Craig Thomas	204-227-5679	S F C
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Armstrong Seeds Ltd

Pedigreed Seed Sales

Peas | AAC Carver, AAC Chrome, AAC profit
Wheat | AAC Starbucks, AAC Wheatland, AAC Ellie, AAC Brandon, AAC Redberry
Oats | CDC Arborg, CS Camden, Summit
Barley | AAC Connect, Celebration, Newdale
Flax | CDC Sorrel
Soybeans | Mahony R2, Bourke R2X

"If we don't have it, we will do our best to get it"

AJ ARMSTRONG
 Boissevain, MB,
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CUSTOM TREATING AND PROCESSING

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.

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 2020 Yield Tables

Yields derived over two or more growing seasons are the best indicator of variety performance. For new varieties, "2020 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

GRAIN CORN — MID SEASON

Comments:

The 2020 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 planted using a target plant population of 32,000 plants per acre.

Yields are corrected to 15.5% moisture content.

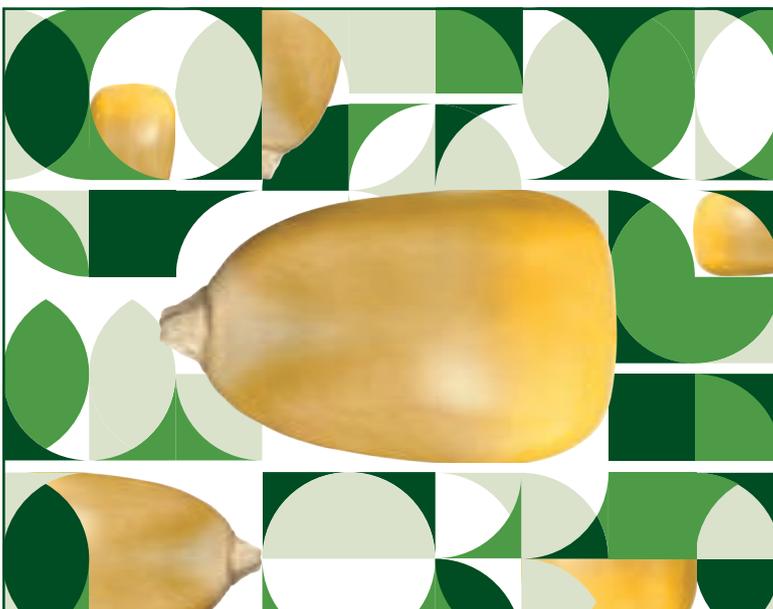
The Manitoba Corn Committee publishes the annual results along with more detailed lab analysis in their brochure. The brochure is available by calling the Manitoba Crop Alliance office at 204-745-6661 or visiting their website at <https://www.mbcropalliance.ca>.

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	MacGregor			St. Pierre		
				Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)
2000	P7005AM	YGCB/HX1/LL/RR2	Corteva Agriscience	130	17.9	54.4	109	16.0	53.4
2025	DKC21-36RIB	VT2P	Bayer Crop Science	148	21.8	52.4	148	16.0	53.9
2025	MZ 1200DBR	VT2P	Maizex Seeds	150	21.7	52.4	145	15.3	53.1
2025	A3993G2 RIB	VT2P	PRIDE Seeds	142	19.3	54.0	132	16.0	55.3
2025	TH4072 RR	RR2	Thunder Seed	157	21.0	51.9	125	17.1	52.9
2050	P7202AM	YGCB/HX1/LL/RR2	Corteva Agriscience	150	19.8	53.2	118	16.8	53.5
2050	P7211AM	YGCB/HX1/LL/RR2	Corteva Agriscience	160	18.5	53.7	131	15.3	52.7
2050	PV 60172RR	RR2	Nutrien Ag Solutions	144	22.5	51.4	135	17.1	53.4
2050	TH7673 VT2P	VT2P	Thunder Seed	131	22.6	53.2	128	16.6	55.1
2100	DKC24-06RIB	VT2P	Bayer Crop Science	159	22.8	52.1	160	17.7	52.8
2100	P7417R	RR2	Corteva Agriscience	133	21.6	51.4	134	17.0	51.3
2100	P7455R	RR2	Corteva Agriscience	135	21.1	53.2	147	16.0	55.5
2100	E44H12R	VT2P	Maizex Seeds	139	22.2	52.1	127	16.3	54.8
2100	NS 72-521	VT2PRIB	NorthStar Genetics	142	22.1	52.3	115	18.0	52.9
2100	TH6875 VT2P	VT2P	Thunder Seed	152	22.4	52.7	146	16.5	52.4
2125	P7417AM	YGCB/HX1/LL/RR2	Corteva Agriscience	152	18.3	52.3	116	16.1	53.0
2125	PS 2210VT2P RIB	GENVT2P	DLF Pickseed	140	22.1	50.1	115	17.8	50.2
2150	DKC26-40RIB	VT2P	Bayer Crop Science	150	20.0	53.3	147	16.4	54.0
2150	P7527AM	YGCB/HX1/LL/RR2	Corteva Agriscience	146	24.4	49.3	131	17.0	53.1
2150	HZ 1265	Agrisure GT	Horizon Seeds	132	21.5	53.3	112	17.5	55.1
2150	MZ 1340DBR	VT2P	Maizex Seeds	155	22.3	52.4	139	17.4	53.2
2150	A4414RR	RR2	PRIDE Seeds	136	20.9	54.7	121	16.5	53.7
2175	PV 61276RIB	VT2P	Nutrien Ag Solutions	146	21.7	52.2	155	18.4	52.7
2175	TH7677 VT2P	VT2P	Thunder Seed	153	21.6	52.7	131	15.0	52.5
2200	EXP77-20	VT2P	Bayer Crop Science	155	23.6	50.5	126	16.1	53.3
2200	P7861R	RR2	Corteva Agriscience	150	20.9	49.6	135	16.8	51.3
2200	HZ 1451	Agrisure 3120 EZR	Horizon Seeds	131	23.1	51.2	122	18.3	52.9
2200	PV 61177SRR	RR2	Nutrien Ag Solutions	161	24.7	51.0	141	18.8	52.2
2200	XP20076G2	VT2P	PRIDE Seeds	144	21.7	54.1	143	16.1	54.9
2200	TH6977 VT2P	VT2P	Thunder Seed	138	23.1	51.0	156	17.2	52.3
2250	P7861AM	YGCB/HX1/LL/RR2	Corteva Agriscience	149	22.3	50.3	144	17.5	53.4
2250	HZ 1685	Agrisure Viptera 3110	Horizon Seeds	147	21.5	52.6	116	19.5	52.7
2250	MZ 1544DBR	VT2P	Maizex Seeds	152	22.2	49.2	131	16.0	52.1
2250	TH6079 VT2P	VT2P	Thunder Seed	153	22.7	50.1	124	18.7	49.9
2250	CP1725RR	RR	WinField United Canada	132	21.8	51.4	128	15.9	52.9
2275	DKC29-89RIB	VT2P	Bayer Crop Science	166	23.1	50.1	141	16.3	50.3
2275	P7940AM	YGCB/HX1/LL/RR2	Corteva Agriscience	147	21.7	50.8	124	17.1	52.2
2275	P7958AM	YGCB/HX1/LL/RR2	Corteva Agriscience	147	21.7	52.9	130	17.9	51.8
2275	PS 2333RR	RR2	DLF Pickseed	169	26.9	51.0	124	20.9	52.4
2300	MZ 1688DBR	VT2P	Maizex Seeds	135	24.5	50.1	136	17.1	50.9
2300	PV 61180RIB	VT2P	Nutrien Ag Solutions	160	22.5	51.0	129	17.2	49.4
2300	A4646G2 RIB	VT2P	PRIDE Seeds	135	21.5	50.3	116	16.3	51.4
2300	CP2123VT2P/RIB	VT2P	WinField United Canada	157	19.4	52.5	138	15.6	51.1

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	MacGregor			St. Pierre		
				Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)
2350	HZ 1912	Agrisure 3120 EZR	Horizon Seeds	140	26.6	49.6	121	19.8	51.2
2350	191	VT2PRIB	NorthStar Genetics	142	25.4	48.2	140	18.4	47.1
2375	CP2180VT2P/RIB	VT2P	WinField United Canada	143	23.9	48.7	131	17.6	49.1
2400	DKC33-78RIB	VT2P	Bayer Crop Science	135	23.1	49.9	131	17.9	50.8
2400	P8234AM	YGCB/HX1/LL/RR2	Corteva Agriscience	142	22.8	49.5	127	18.6	49.3
2400	255	VT2PRIB	NorthStar Genetics	143	24.9	49.9	154	19.1	50.5
2400	A4939G2 RIB	VT2P	PRIDE Seeds	132	21.1	49.9	122	16.4	51.7
2425	DKC31-85RIB	VT2P	Bayer Crop Science	186	22.7	48.5	150	17.7	50.0
2425	P8352AM	YGCB/HX1/LL/RR2	Corteva Agriscience	153	27.3	46.8	131	17.4	49.9
2425	TH6182 VT2P	VT2P	Thunder Seed	154	23.0	49.7	146	18.3	50.1
2425	TH6982 VT2P	VT2P	Thunder Seed	142	24.5	50.4	122	18.8	50.2
2450	P8407AM	YGCB/HX1/LL/RR2	Corteva Agriscience	166	25.3	46.3	140	20.1	47.9
2450	CP2288VT2P/RIB	VT2P	WinField United Canada	147	22.9	50.0	127	20.7	47.8
2500	DKC33-37RIB	VT2P	Bayer Crop Science	155	26.0	48.8	147	19.3	50.2
2500	CP2315VT2P/RIB	VT2P	WinField United Canada	159	23.7	49.4	146	21.4	48.0
2550	CP2417VT2P/RIB	VT2P	WinField United Canada	121	22.2	50.3	141	17.3	51.4
2625	CP2587VT2P/RIB	VT2P	WinField United Canada	159	24.8	48.9	131	21.0	48.3
2650	CP2790VT2P/RIB	VT2P	WinField United Canada	156	26.7	48.2	150	20.2	47.3
2675	CP2845VT2P/RIB	VT2P	WinField United Canada	158	28.5	47.7	133	22.0	46.2
2675	CP2851VT2P/RIB	VT2P	WinField United Canada	142	27.6	46.7	132	23.4	45.8
2700	CP2965VT2P/RIB	VT2P	WinField United Canada	136	28.4	47.4	128	24.2	46.1
Site Average				147	22.8	50.8	133	17.8	51.5
CV %				9.01	5.63	2.68	8.27	5.78	2.45
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes
LSD (0.05)				21	2.1	2.2	18	1.7	2.0
Planting Date				16-May			18-May		
Harvest Date				10-Oct			15-Oct		

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>. Information includes technology brand name and refuge requirements.



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Proven® Seed has always had a different perspective on corn. Every one of our hybrids is selected for Western Canada to work with your field's unique conditions. Whether you need early maturity, fast dry down, silage quality or defensive trait protection, there's a specific high yielding hybrid that's perfect for your farm. Proven Seed corn is only available at your local Nutrien Ag Solutions retail. **Learn more at ProvenSeed.ca/corn**



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GRAIN CORN — LONG SEASON

Comments:

The 2020 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 planted using a target plant population of 32,000 plants per acre.

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 Crop Alliance office at 204-745-6661 or visiting their website at <https://www.mbcropalliance.ca>.

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	Carman			Rosebank		
				Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)
2000	P7005AM	YGCB/HX1/LL/RR2	Corteva Agriscience	141	14.5	57.8	169	20.4	52.2
2050	P7202AM	YGCB/HX1/LL/RR2	Corteva Agriscience	177	15.8	52.8	181	22.0	50.9
2050	P7211AM	YGCB/HX1/LL/RR2	Corteva Agriscience	145	16.3	54.7	190	22.5	49.6
2100	P7417R	RR2	Corteva Agriscience	168	15.8	54.6	190	21.2	49.9
2100	P7455R	RR2	Corteva Agriscience	151	17.5	56.5	168	23.8	51.4
2125	P7417AM	YGCB/HX1/LL/RR2	Corteva Agriscience	164	16.4	54.9	187	21.8	50.1
2150	DKC26-40RIB	VT2P	Bayer Crop Science	168	18.8	57.1	197	28.1	50.7
2150	P7527AM	YGCB/HX1/LL/RR2	Corteva Agriscience	190	18.3	53.5	202	25.3	50.0
2175	PV 61276RIB	VT2P	Nutrien Ag Solutions	139	18.6	55.2	192	26.9	50.3
2200	EXP77-20	VT2P	Bayer Crop Science	163	20.4	54.0	205	30.2	49.6
2200	P7861R	RR2	Corteva Agriscience	174	17.9	52.9	209	25.5	48.3
2200	XP20076G2	VT2P	PRIDE Seeds	177	17.4	57.4	203	26.9	51.9
2200	TH6977 VT2P	VT2P	Thunder Seed	182	19.9	53.2	202	27.4	48.9
2250	P7861AM	YGCB/HX1/LL/RR2	Corteva Agriscience	181	19.6	52.9	223	28.0	49.0
2250	Taber	3010	Greenfield Genetics	152	19.2	55.8	186	29.5	51.3
2250	HZ 1685	Agrisure Viptera 3110	Horizon Seeds	176	20.0	55.2	210	30.9	50.2
2250	MZ 1544DBR	VT2P	Maizex Seeds	206	15.5	54.3	221	27.7	48.4
2250	TH6079 VT2P	VT2P	Thunder Seed	165	19.3	52.9	202	28.7	48.7
2275	DKC29-89RIB	VT2P	Bayer Crop Science	193	17.5	52.8	220	26.9	49.0
2275	P7940AM	YGCB/HX1/LL/RR2	Corteva Agriscience	175	18.2	53.8	199	26.8	49.8
2275	P7958AM	YGCB/HX1/LL/RR2	Corteva Agriscience	180	18.1	55.1	194	26.9	49.9
2275	PS 2333RR	RR2	DLF Pickseed	171	24.3	53.2	202	34.8	49.4
2300	MZ 1688DBR	VT2P	Maizex Seeds	181	18.4	53.5	192	27.5	49.4
2300	MZ 1624DBR	VT2P	Maizex Seeds	168	19.0	54.6	196	28.2	49.4
2300	E49K32 R	VT2P	Maizex Seeds	172	18.7	54.1	224	30.6	48.8
2300	PV 61180RIB	VT2P	Nutrien Ag Solutions	166	19.6	51.4	216	28.3	48.9
2300	A4646G2 RIB	VT2P	PRIDE Seeds	189	16.1	54.8	192	25.8	49.7
2350	HZ 1912	Agrisure 3120 EZR	Horizon Seeds	177	20.3	54.8	211	29.1	51.0
2350	191	VT2PRIB	NorthStar Genetics	203	19.1	52.3	206	29.8	47.7
2350	TH6081 3220	3220	Thunder Seed	162	20.5	53.7	187	29.7	50.5
2375	TH7681 VT2P	VT2P	Thunder Seed	187	16.6	54.5	206	28.1	49.2
2375	CP2180VT2P/RIB	VT2P	WinField United Canada	183	17.1	53.5	213	28.1	47.6
2400	DKC33-78RIB	VT2P	Bayer Crop Science	178	19.4	53.0	200	28.1	49.5
2400	P8234AM	YGCB/HX1/LL/RR2	Corteva Agriscience	190	20.2	52.2	196	28.2	47.8
2400	255	VT2PRIB	NorthStar Genetics	184	21.9	51.9	214	30.4	48.2
2400	PV 62282RIB	VT2P	Nutrien Ag Solutions	182	19.9	52.8	202	28.8	49.3
2400	A4939G2 RIB	VT2P	PRIDE Seeds	165	17.0	54.0	210	29.0	48.9
2425	DKC31-85RIB	VT2P	Bayer Crop Science	204	17.6	53.1	227	28.2	47.6
2425	P8352AM	YGCB/HX1/LL/RR2	Corteva Agriscience	189	22.1	50.5	214	30.4	46.9
2425	TH6182 VT2P	VT2P	Thunder Seed	183	19.0	52.5	197	30.1	47.9
2425	TH6982 VT2P	VT2P	Thunder Seed	176	20.0	53.2	195	30.5	48.9
2450	P8407AM	YGCB/HX1/LL/RR2	Corteva Agriscience	232	22.6	50.4	232	32.0	45.8
2450	HZ 2220	Agrisure 3010	Horizon Seeds	201	21.8	52.3	196	32.1	48.2
2450	HZ 2534	Agrisure Viptera3220 EZR	Horizon Seeds	170	24.1	49.2	203	37.0	49.1
2450	E52V92 R	VT2P	Maizex Seeds	192	20.2	53.4	211	28.4	49.3
2450	CP2288VT2P/RIB	VT2P	WinField United Canada	193	20.9	53.1	208	29.8	49.6
2500	DKC33-37RIB	VT2P	Bayer Crop Science	202	20.3	53.4	219	30.3	48.6
2500	PV 62384RIB	VT2P	Nutrien Ag Solutions	190	20.1	52.5	232	29.6	49.0
2500	CP2315VT2P/RIB	VT2P	WinField United Canada	208	22.3	52.0	213	31.8	48.3
2550	PV 62485RIB	VT2P	Nutrien Ag Solutions	197	20.5	50.7	216	31.0	47.5
2550	TH6185 VT2P	VT2P	Thunder Seed	204	21.2	52.0	230	31.1	47.9

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	Carman			Rosebank		
				Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	BusheL Wt (lbs/bu)
2550	CP2417VT2P/RIB	VT2P	WinField United Canada	190	17.1	53.2	202	29.0	48.8
2575	A5225G2 RIB	VT2P	PRIDE Seeds	195	22.3	52.1	208	30.8	49.4
2625	CP2587VT2P/RIB	VT2P	WinField United Canada	175	21.7	52.3	199	31.8	48.3
2650	CP2790VT2P/RIB	VT2P	WinField United Canada	207	21.0	51.4	227	32.5	48.5
2675	CP2845VT2P/RIB	VT2P	WinField United Canada	219	22.4	54.3	222	33.3	47.2
2675	CP2851VT2P/RIB	VT2P	WinField United Canada	205	21.2	51.6	211	33.1	47.4
2700	CP2965VT2P/RIB	VT2P	WinField United Canada	165	23.7	50.5	209	35.4	48.4
Site Average				181	19.5	53.3	205	28.9	49.0
CV %				7.05	4.19	2.84	4.52	2.87	0.97
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes
LSD (0.05)				21	1.3	2.4	15	1.3	0.8
Planting Date				20-May			20-May		
Harvest Date				13-Oct			8-Oct		

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>. Information includes technology brand name and refuge requirements.

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 remains a requirement for cultivars 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 2021 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.

CHTA hemp trials use a 20% CV cutoff value for data acceptance.

Variety Descriptions

Variety	Yield % Check	Site Years Tested	End Use Purpose	2020 Yield: % of CRS-1 at location			
				Arborg	Melita	Roblin	
Petera	59	3	Fibre	50	64	59	
Altair [Ⓞ]	88	3	Dual	90	82	102	
CFX-2	95	2	Dual	—	85	77	
CRS-1	100	3	Dual	100	100	100	
Vega	98	3	Dual	113	92	95	
Grandi [Ⓞ]	122	2	Grain	—	101	121	
Katani [Ⓞ]	119	2	Grain	—	102	109	
Piccolo	104	2	Grain	—	88	98	
X-59 [Ⓞ]	123	2	Grain	—	82	172	
Experimental lines tested/proposed for registration in Canada							
NWG 2730	46	2	Dual	—	37	50	
CHECK CHARACTERISTICS				CRS-1 (lb/acre)	641	1475	599
CRS-1	905	3		CV %	9.1	9.3	15.3
	lbs/acre	site years		LSD %	13	11	22
				Sign Diff	Yes	Yes	Yes
				Seeding Date	15-May	12-May	22-May
				Harvest Date	08-Sep	25-Aug	17-Sep



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Distributor Contacts for Listed Varieties in Seed Manitoba 2021

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.

GRAIN CORN

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

INDUSTRIAL HEMP

Altair	UniSeeds
Alyssa	Parkland Industrial Hemp Growers Coop Ltd.
Anka	Ontario Hemp Alliance
Canda	Parkland Industrial Hemp Growers Coop Ltd.
CanMa	PhytoGene Resources Inc.
CFX-1	Hemp Genetics International Inc.
CFX-2	Hemp Genetics International Inc.
CRS-1	Hemp Genetics International Inc.
Delores	Parkland Industrial Hemp Growers Coop Ltd.
Finola	Hemp Oil Canada Inc.
Grandi	Hemp Genetics International Inc.
GranMa	PhytoGene Resources Inc.
Joey	Parkland Industrial Hemp Growers Coop Ltd.
Judy	Parkland Industrial Hemp Growers Coop Ltd.
Jutta	Ontario Hemp Alliance
Katani	Hemp Genetics International Inc.
Petera	Parkland Industrial Hemp Growers Coop Ltd.
Picolo	Hemp Genetics International Inc.
Silesia	Alberta Innovates Technology Futures
X-59	Terramax
Vega	UniSeeds

DISTRIBUTOR

PHONE NUMBER

Alberta Innovates Technology Futures.....	1-780-632-8436
Bayer Crop Science (DEKALB).....	1-888-283-6847
Corteva AgriScienceTM, Agriculture Division of Dow DuPont...	1-800-667-3852
DLF Pickseed Canada Inc. (PICKSEED).....	1-204-633-0088
Hemp Genetics International Inc.....	1-604-882-4936
Hemp Oil Canada Inc.....	1-800-289-4367
Horizon Seeds.....	1-855-983-7255
Maizex Seeds Inc.....	1-877-682-1720
NorthStar Genetics Ltd.....	1-204-262-2425
Nutrien Ag Solutions (Proven Seed).....	1-855-569-9444
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
Terramax.....	1-306-699-7368
Thunder Seed Inc. (Thunder Seeds).....	1-888-684-8633
UniSeeds.....	1-613-667-1227
WinField United Canada.....	1-888-975-4769

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Growers List



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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

Oak Bank; Kyle, Lorne G. & C. Angus204-822-4396 C
Winkler; Walkof, Bev & Hilderbrand, Corey & Stephanie
.....204-325-4669 C

KOMA

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

MANCAN

Notre Dame De Lourdes; Durand, Gabriel A. & Marc...204-248-2268 R

GRANMA

Fisher Branch; Gregory, Lee R. & Adam204-372-6720 R

USO 14

Mac Gregor; Hulme, Lorne & Jared204-685-2627 C



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Forage Crops

Key to 2020 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.

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

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 CROPS

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 creeping habit best on more coarse textured soils.
Kura Clover	Pasture	Long	Good	Moderate	Moderate	Unknown	Tolerates low fertility and soil acidity, wet soils and some flooding.
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	Short to Long	Good	Poor	Low to Moderate	Low	Prefers well drained silt loams to clay soils that have a constant supply of moisture.
White 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.

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FORAGE ADAPTATION & COMPARISON GUIDE — Tame Grasses (continued)

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 in high rainfall area.
Perennial 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 and Resource Development — Forage Adaptation & Comparison Guide

SILAGE CORN

Comments:

The silage 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 planted using a target plant population of 32,000 plants per acre.

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	Elm Creek								
				65% Yield (Mt/ac)	Moisture ³ (%)	50% Silk (days)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre ⁴ (lbs/ac)	Beef/Acre ⁵ (lbs/ac)	
2150	913S	RR2	NorthStar Genetics	22.8	67.4	71	64.7	31.8	54.6	30563	1890	
2150	AS1017RR EDF	RR2	PRIDE Seeds	22.5	65.0	69	69.3	27.4	47.9	28463	2001	
2200	EXP77-20	VT2P	Bayer Crop Science	20.9	68.9	69	72.9	24.1	44.1	26962	1951	
2200	PS 2320RR	RR2	DLF Pickseed	20.5	71.0	68	71.4	25.5	45.6	28854	1878	
2200	MS 7420 R	RR2	Maizex Seeds	23.0	67.3	68	75.2	22.0	40.7	24841	2223	
2200	PV 61177SRR	RR2	Nutrien Ag Solutions	23.5	69.7	69	67.1	29.5	50.7	32172	2027	
2200	XP20076G2	VT2P	PRIDE Seeds	20.9	68.9	65	69.9	26.9	46.9	29154	1874	
2225	PS 2321VT2P RIB	GENVT2P	DLF Pickseed	21.4	69.2	69	70.8	26.0	45.8	28876	1946	
2250	HZ 1685	Agrisure Viptera 3110	Horizon Seeds	21.4	72.0	72	71.8	25.2	45.1	25223	1974	
2250	MS 8022 R	RR2	Maizex Seeds	25.4	69.0	68	66.4	30.2	52.7	27174	2165	
2250	A4705HMRR	RR2	PRIDE Seeds	21.7	69.7	66	70.9	26.0	47.2	30137	1972	
2250	TH4126 RR	RR2	Thunder Seed	22.2	70.7	66	67.4	29.3	51.6	27063	1922	
2250	CP1725RR	RR	WinField United Canada	24.0	66.8	69	71.8	25.1	45.1	32161	2209	
2275	DKC29-89RIB	VT2P	Bayer Crop Science	23.8	63.0	67	66.6	30.0	50.8	32560	2030	
2275	PS 2333RR	RR2	DLF Pickseed	23.7	67.5	67	64.1	32.3	55.0	32114	1947	
2275	Vernon	3010	Greenfield Genetics	21.2	69.9	73	68.5	28.2	49.1	23354	1865	
2300	PS 2420RR	RR2	DLF Pickseed	24.4	64.6	68	66.2	30.4	52.1	33309	2070	
2300	MS 7733DBR	VT2P	Maizex Seeds	22.9	70.4	68	66.3	30.3	53.2	29257	1946	
2300	PV 61180RIB	VT2P	Nutrien Ag Solutions	21.4	70.2	69	70.2	26.6	47.0	27345	1930	
2300	AS1027RR EDF	RR2	PRIDE Seeds	23.8	67.6	71	67.9	28.7	49.5	28361	2079	
2300	TH6180 VT2P	VT2P	Thunder Seed	21.8	69.8	66	68.6	28.2	49.6	29444	1921	
2300	CP2123VT2P/RIB	VT2P	WinField United Canada	21.9	68.0	68	69.9	26.9	46.9	28940	1962	
2350	17X	3010	Greenfield Genetics	22.9	69.3	73	69.1	27.6	48.5	29728	2030	
2350	HZ 675	Agrisure 3010	Horizon Seeds	21.1	72.3	72	66.6	30.0	50.6	25028	1802	
2350	932S	RR2	NorthStar Genetics	21.1	73.1	77	67.7	29.0	50.9	26332	1829	
2350	A4939G2 RIB	VT2P	PRIDE Seeds	22.6	69.0	71	66.5	30.1	51.9	28608	1929	
2350	TH6081 3220	Agrisure Viptera3220	Thunder Seed	22.4	67.3	70	66.6	30.0	51.7	28870	1917	
2375	HZ 1912	Agrisure 3120 EZR	Horizon Seeds	21.2	69.6	69	67.1	29.5	51.3	28749	1822	
2375	TH7681 VT2P	VT2P	Thunder Seed	25.0	66.5	70	65.5	31.0	53.0	32403	2103	
2375	CP2180VT2P/RIB	VT2P	WinField United Canada	23.1	67.8	72	71.6	25.3	45.4	28411	2124	
2400	PS 2563GSX RIB	GENVT2P	DLF Pickseed	20.7	72.1	72	67.4	29.3	49.3	27333	1789	
2400	HZ 2220	Agrisure 3010	Horizon Seeds	23.6	71.5	72	65.2	31.3	52.7	28545	1979	
2400	PV 62282RIB	VT2P	Nutrien Ag Solutions	22.0	68.5	69	64.4	32.0	53.9	28150	1814	
2400	AS1047RR EDF	RR2	PRIDE Seeds	23.1	72.2	72	69.0	27.7	48.6	26091	2046	
2425	DKC31-85RIB	VT2P	Bayer Crop Science	24.8	66.1	69	72.8	24.2	43.3	32070	2322	
2450	PS ExSeed LF RR	RR2	DLF Pickseed	20.4	71.8	78	66.6	30.0	52.4	28092	1741	
2450	HZ 2534	Agrisure Viptera3220 EZR	Horizon Seeds	22.6	71.1	73	64.6	31.9	55.4	28863	1870	
2450	TH6183 VT2P	VT2P	Thunder Seed	22.7	69.5	71	70.7	26.2	48.2	28064	2057	
2450	CP2288VT2P/RIB	VT2P	WinField United Canada	22.5	70.7	73	69.3	27.5	48.8	26728	2000	
2475	PS 2552RR	RR2	DLF Pickseed	21.2	73.9	73	64.5	31.9	53.8	28784	1751	
2500	DKC33-37RIB	VT2P	Bayer Crop Science	21.6	70.7	70	68.6	28.2	47.6	25670	1898	
2500	Venza R	RR2	Maizex Seeds	23.8	72.7	76	62.3	34.0	56.8	27247	1904	
2500	PV 62384RIB	VT2P	Nutrien Ag Solutions	24.5	68.3	72	69.2	27.6	48.1	33988	2173	
2500	CP2315VT2P/RIB	VT2P	WinField United Canada	21.0	70.6	69	66.8	29.8	50.9	27932	1803	
2550	PV 62485RIB	VT2P	Nutrien Ag Solutions	21.0	69.9	71	71.7	25.2	45.6	26545	1933	
2550	CP2417VT2P/RIB	VT2P	WinField United Canada	21.8	70.2	72	70.6	26.3	47.2	30431	1971	
2575	DKC34-57RIB	VT2P	Bayer Crop Science	23.0	70.6	72	66.6	30.0	50.7	30532	1962	
2600	HZ 797GT	Agrisure GT	Horizon Seeds	25.5	70.6	73	70.7	26.2	46.0	32675	2310	
2625	CP2587VT2P/RIB	VT2P	WinField United Canada	23.5	69.6	73	69.1	27.6	47.8	30429	2087	
2650	CP2790VT2P/RIB	VT2P	WinField United Canada	24.3	69.8	71	73.6	23.5	43.4	32080	2296	
2675	CP2845VT2P/RIB	VT2P	WinField United Canada	25.3	70.3	73	67.0	29.6	51.1	34434	2178	
2675	CP2851VT2P/RIB	VT2P	WinField United Canada	23.6	70.8	73	70.5	26.3	46.0	28986	2131	
2700	CP2965VT2P/RIB	VT2P	WinField United Canada	25.3	72.7	73	68.4	28.3	49.1	32766	2217	
Site Average				22.6	69.5	71						
CV %				9.3	3.8	1.4						
Sign Diff				Yes	Yes	Yes						
LSD %				3.4	4.3	2						
Planting Date				15-May								
Harvest Date				09-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 Crop Alliance office at 204-745-6661 or visiting their website at <https://www.mbcropalliance.ca>.

St. Pierre

65% Yield (Mt/ac)	Moisture ³ (%)	50% Silk (days)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre ⁴ (lbs/ac)	Beef/Acre ⁵ (lbs/ac)	CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor
18.5	72.9	73	71.3	25.6	46.5	21485	1690	2150	913S	RR2	NorthStar Genetics
19.5	72.1	73	71.1	25.8	45.7	21707	1779	2150	AS1017RR EDF	RR2	PRIDE Seeds
16.1	73.5	72	70.5	26.4	49.0	17939	1454	2200	EXP77-20	VT2P	Bayer Crop Science
15.8	71.6	71	64.1	32.4	56.6	19496	1302	2200	PS 2320RR	RR2	DLF Pickseed
16.9	74.0	72	72.1	24.8	45.0	20215	1567	2200	MS 7420 R	RR2	Maizex Seeds
19.2	73.2	73	72.1	24.8	45.8	18354	1777	2200	PV 61177SRR	RR2	Nutrien Ag Solutions
18.7	71.0	70	70.6	26.3	47.1	24699	1693	2200	XP20076G2	VT2P	PRIDE Seeds
15.8	74.8	72	69.3	27.5	47.9	14792	1405	2225	PS 2321VT2P RIB	GENVT2P	DLF Pickseed
15.2	75.1	77	67.9	28.7	50.2	15265	1325	2250	HZ 1685	Agrisure Viptera 3110	Horizon Seeds
21.3	72.5	71	72.8	24.2	46.1	20618	1995	2250	MS 8022 R	RR2	Maizex Seeds
17.9	72.8	70	69.5	27.3	48.0	19220	1601	2250	A4705HMRR	RR2	PRIDE Seeds
17.9	72.4	70	68.4	28.3	48.7	21119	1571	2250	TH4126 RR	RR2	Thunder Seed
18.8	72.8	73	70.8	26.1	46.4	24539	1708	2250	CP1725RR	RR	WinField United Canada
17.9	72.6	72	70.6	26.3	46.8	16947	1623	2275	DKC29-89RIB	VT2P	Bayer Crop Science
18.9	72.2	72	73.2	23.9	41.4	21628	1772	2275	PS 2333RR	RR2	DLF Pickseed
20.6	70.2	74	70.5	26.3	45.7	24070	1861	2275	Vernon	3010	Greenfield Genetics
18.4	71.9	73	67.0	29.6	50.8	24557	1580	2300	PS 2420RR	RR2	DLF Pickseed
17.1	73.0	71	73.5	23.5	43.5	17692	1609	2300	MS 7733DBR	VT2P	Maizex Seeds
21.7	72.5	75	73.1	23.9	44.2	20919	2031	2300	PV 61180RIB	VT2P	Nutrien Ag Solutions
19.2	70.7	73	69.7	27.1	48.1	19353	1714	2300	AS1027RR EDF	RR2	PRIDE Seeds
17.4	71.1	70	71.9	25.0	44.4	18954	1610	2300	TH6180 VT2P	VT2P	Thunder Seed
18.8	71.4	73	67.4	29.3	50.1	25388	1622	2300	CP2123VT2P/RIB	VT2P	WinField United Canada
17.0	74.3	75	73.7	23.4	43.1	21173	1607	2350	17X	3010	Greenfield Genetics
16.0	76.4	73	70.4	26.4	46.6	15517	1448	2350	HZ 675	Agrisure 3010	Horizon Seeds
21.0	74.8	79	68.1	28.6	49.8	20845	1838	2350	932S	RR2	NorthStar Genetics
18.0	74.0	73	68.6	28.1	49.9	22694	1582	2350	A4939G2 RIB	VT2P	PRIDE Seeds
17.0	71.8	75	70.0	26.8	47.6	15183	1531	2350	TH6081 3220	Agrisure Viptera3220	Thunder Seed
17.5	70.5	73	76.0	21.2	40.9	21130	1709	2375	HZ 1912	Agrisure 3120 EZR	Horizon Seeds
16.9	72.5	73	68.2	28.5	49.5	17371	1479	2375	TH7681 VT2P	VT2P	Thunder Seed
18.5	72.0	74	66.9	29.7	51.3	18587	1591	2375	CP2180VT2P/RIB	VT2P	WinField United Canada
17.0	73.1	78	72.6	24.4	45.3	16997	1586	2400	PS 2563GSX RIB	GENVT2P	DLF Pickseed
18.3	71.1	73	70.8	26.0	44.9	19123	1664	2400	HZ 2220	Agrisure 3010	Horizon Seeds
19.5	71.9	73	71.3	25.6	45.2	23460	1786	2400	PV 62282RIB	VT2P	Nutrien Ag Solutions
18.5	74.8	73	69.8	27.0	47.9	17403	1657	2400	AS1047RR EDF	RR2	PRIDE Seeds
20.0	71.0	71	72.4	24.6	44.4	24019	1861	2425	DKC31-85RIB	VT2P	Bayer Crop Science
17.7	75.3	80	67.4	29.3	51.1	18264	1528	2450	PS ExSeed LF RR	RR2	DLF Pickseed
19.0	73.5	78	72.5	24.5	44.4	16553	1768	2450	HZ 2534	Agrisure Viptera3220 EZR	Horizon Seeds
19.4	70.4	72	70.1	26.7	48.3	18328	1745	2450	TH6183 VT2P	VT2P	Thunder Seed
20.0	73.0	74	69.8	27.0	47.9	19285	1795	2450	CP2288VT2P/RIB	VT2P	WinField United Canada
16.7	75.4	77	69.9	26.9	47.5	17932	1501	2475	PS 2552RR	RR2	DLF Pickseed
19.2	73.2	71	70.0	26.9	47.6	20431	1721	2500	DKC33-37RIB	VT2P	Bayer Crop Science
20.5	73.6	79	66.3	30.3	53.8	22494	1744	2500	Venza R	RR2	Maizex Seeds
19.3	74.1	77	69.2	27.5	48.8	19459	1718	2500	PV 62384RIB	VT2P	Nutrien Ag Solutions
17.7	75.3	73	71.6	25.4	44.0	18773	1625	2500	CP2315VT2P/RIB	VT2P	WinField United Canada
17.7	74.1	73	71.7	25.2	44.8	17058	1627	2550	PV 62485RIB	VT2P	Nutrien Ag Solutions
16.9	74.7	76	71.5	25.4	46.2	18861	1551	2550	CP2417VT2P/RIB	VT2P	WinField United Canada
20.3	73.1	75	71.3	25.6	44.8	23828	1862	2575	DKC34-57RIB	VT2P	Bayer Crop Science
19.6	73.9	78	69.3	27.4	47.8	20807	1744	2600	HZ 797GT	Agrisure GT	Horizon Seeds
19.5	72.6	78	72.9	24.1	43.7	16366	1827	2625	CP2587VT2P/RIB	VT2P	WinField United Canada
20.6	74.0	76	73.0	24.0	45.4	21197	1930	2650	CP2790VT2P/RIB	VT2P	WinField United Canada
19.1	73.8	78	72.4	24.6	44.3	21586	1777	2675	CP2845VT2P/RIB	VT2P	WinField United Canada
19.4	73.2	77	71.5	25.4	46.3	22131	1780	2675	CP2851VT2P/RIB	VT2P	WinField United Canada
18.6	75.3	78	68.8	28.0	48.8	17466	1642	2700	CP2965VT2P/RIB	VT2P	WinField United Canada
18.2	72.9	74	Site Average								
9.4	2.9	1.9	CV %								
Yes	Yes	Yes	Sign Diff								
2.8	3.4	2	LSD %								
18-May	Planting Date										
10-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 2021

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.

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Blight Native Seeds	1-204-267-2686	Pickseed Canada	1-800-263-7425
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Federated Coops Ltd.....	1-306-664-1700	Public Variety	Contact Manitoba Agriculture
Interlake Forage Seeds	1-800-990-1390	S.S. Johnson Seeds	1-800-363-9442
Northstar Seed Ltd.	1-800-430-5955	SeCan.....	1-800-665-7333
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Oldenburg Inc.....	1-204-348-2294		

DISTRIBUTOR CONTACTS — Corn Silage

Bayer CropScience Canada Inc.....	DEKALB	1-888-283-6847	NorthStar Genetics Ltd.	1-204-262-2425
DLF Pickseed Canada Inc.....	PICKSEED	1-204-633-0088	Nutrien Ag Solutions.....	Proven Seed 1-855-569-9444
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Maizex Seeds Inc.....	Maizex Seeds	1-877-682-1720	Winfield United Canada	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.

54VQ52	
Fisher Branch; Gregory, Lee R. & Adam.....	204-372-6720 C
ALGONQUIN	
Elie; Dyck Forages And Grasses Ltd.....	204-353-2885 C
Fisher Branch; Skuba, Bonny.....	204-372-6001 C
Hodgson; Shergold, Carla	204-372-6490 C
MULTI5301	
Fisher Branch; Interlake Forage Seeds Ltd.....	204-372-6920 C
OCTANE	
St. Norbert; Brett-Young Seeds Ltd	204-261-7932 C
POWER 4.2	
Broad Valley; Woloshyn, Richard R.	204-372-6029 C

BIRDSFOOT TREFOIL

BRUCE	
Fisher Branch; Interlake Forage Seeds Ltd.....	204-372-6920 F C
BULL	
Middlebro; Ewacha, Curtis A.	204-793-5273 C
LEO	
Beausejour; Murash, Darrin	204-265-3303 C
Fisher Branch; Plishka, William	204-372-6895 C
Fisher Branch; Shepell, Christopher M.W. & Murray	204-372-6844 C
Middlebro; Ewacha, Curtis A.	204-793-5273 C
Winnipeg; Cymbalisty, Glenn.....	204-801-1062 C
Winnipeg; Pickseed Canada Inc.....	204-633-0088 F

RYEGRASS

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.

MELFROST	
Wawanesa; Cory, Jeremy	204-574-6332 C
TIMOTHY	
CLIMAX	
Broad Valley; Hnatiuk, Johnny David.....	204-372-6748 C
Elie; Dyck Forages And Grasses Ltd.....	204-353-2885 C
PROMESSE	
Lac Du Bonnet; Brincheski, Robert John	204-345-2858 C
RICHMOND	
Stead; Kintop, Dennis Lloyd	204-635-2600 C
SUMMERGRAZE	
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932 C
Winnipeg; Pickseed Canada Inc.....	204-633-0088 C
TIFFANY	
Arborg; S.S. Johnson Seeds Limited.....	204-376-5228 C

A close-up photograph of several wheat stalks, showing the individual grains and their arrangement on the stem. The wheat is a light golden-brown color, and the lighting is soft, highlighting the texture of the grains and the fine hairs on the stems. The stalks are arranged vertically, filling most of the frame.

Additional Resources

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Dauphin; Dauphin Consumers Co-op	204-622-6080
Dauphin; Richardson Pioneer	204-622-6030
Decker; Murray Farms Inc.	204-764-2733
Deloraine; Bolduc & Bell Farms	204-747-2913
Deloraine; Nutrien Ag Solutions (Canada) Inc.	204-747-2877
Deloraine; Paterson Grain	204-747-2333
Domain; Manness Seed	204-736-2622
Domain; Pitura Seed Service	204-736-2849
Douglas; Heritage Co-op 1997 Ltd.	204-763-8998
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Dugald; South East Seeds Inc.	204-371-2898
Elie; Dyck Forages and Grasses Ltd.	204-353-2885
Elm Creek; Cargill Ltd. - Elm Creek	204-436-2010
Elm Creek; James Runne	204-436-2352
Elphinstone; Gerrard Family Seeds	204-365-0321
Fannystelle; Nadeau Seeds Inc.	204-436-2469
Fannystelle; JR Brothers Farms	204-751-0442
Fisher Branch; Interlake Agri Ltd.	204-372-6720
Fisher Branch; George & Harvey Danelak	204-372-6236
Fisher Branch; Interlake Forage Seeds Ltd.	204-372-6920
Fork River; Nutrien Ag Solutions (Canada) Inc.	204-657-2366
Foxwarren; West-Fox Farms	204-683-2247
Foxwarren; George Graham Seed Farms	204-773-6389
Foxwarren; Westwarren Farms Inc.	204-683-2347
Gilbert Plains; Gilbert Plains Consumers Co-op	204-548-2099
Gilbert Plains; T & S Seeds	204-548-2805
Gladstone; Parrish & Heimbecker Ltd.	204-385-2139
Gladstone; Nutrien Ag Solutions (Canada) Inc.	204-385-2349
Gladstone; Neepawa - Gladstone Coop	204-385-2906
Gladstone; Delmar Commodities Ltd.	204-385-2292
Gladstone; Nu Era Seeds Ltd.	204-385-2065
Gladstone; Ridder Farms Ltd.	204-856-3282
Glenboro; Jefferies Seeds	204-827-2102
Grandview; Triple "S" Seeds Ltd.	204-546-2590
Grosse Isle; Rutherford Farms Ltd.	204-467-5613
Hadashville; Sunburst Seeds	204-340-7145
Hamiota; Cargill Ltd. - Oakner	204-764-2012



Canadian Grain Commission
Commission canadienne des grains



Grain farmers:

Changes to wheat variety designations

Effective August 1, 2021

The following Canada Western Red Spring (CWRS) wheat varieties will move to the Canada Northern Hard Red wheat class:

- **AAC Redwater**
- **AC Domain**
- **Muchmore**
- **Vesper**
- **5605 HR CL**

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Producteurs de grains :

Changements touchant les variétés de blé désignées

À compter du 1er août 2021

Les variétés suivantes de Blé roux de printemps de l'Ouest canadien (CWRS) passeront à la classe Blé de force rouge du Nord canadien :



Canada

REGISTERED SEED MERCHANTS

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Hamiota; Knight Seeds.....	204-764-2450
Hamiota; Chappell Ag Ventures Inc.....	204-764-2844
Headingley; Bayer CropScience Inc.....	204-807-4531
Holland; Mylana Farms.....	204-526-2776
Holland; Nutrien Ag Solutions (Canada) Inc.....	204-723-2423
Holland; Zeghers Canada.....	204-526-2145
Homewood; Agassiz Seed Farm Ltd.....	204-745-6655
Homewood; Pembina Consumers Coop (2000) Ltd.....	204-745-6421
Inglis; Derrick Beischer/Beischer Family Seeds.....	204-564-2676
Kenton; Robert & Sidney Stevenson.....	204-838-2012
Kenville; Carmichael Seed Farm.....	204-734-8683
Killarney; Chatham Seeds Ltd.....	204-523-8112
Killarney; Paterson Grain.....	204-523-8936
Killarney; Bar H Agri Seeds.....	204-523-7464
Killarney; Richardson Pioneer.....	204-523-7035
Killarney; Shur-Gro Farm Services Ltd.....	204-523-5400
Landmark; Richardson Pioneer.....	204-355-4061
Laurier; LaurEx Seeds Ltd.....	204-447-2916
Letellier; Richardson Pioneer - Red River South.....	204-737-2096
Letellier; Seed-Ex Inc.....	204-737-2000
Lowe Farm; Nutrien Ag Solutions (Canada) Inc.....	204-343-2136
Lowe Farm; MB Seeds Ltd.....	204-746-2187
Lowe Farm; Winkler Consumers Cooperative Ltd.....	204-746-2234
MacGregor; Hulme Agra Products Inc.....	204-685-2627
Manitou; Keen Seeds Ltd.....	204-242-4074
Manitou; Sanders Seed Farm.....	204-242-4200
Marquette; Prairie Roots Consumers Co-operative Ltd.....	204-375-6570
Marquette; Ag Advantage Ltd.....	204-322-5351
Mather; McLennan Farms Ltd.....	204-529-2372
Mather; Harms Seeds Ltd.....	204-529-2213
Medora; Vandaele Seeds Ltd.....	204-665-2384
Melita; Paterson Grain.....	204-522-3472
Melita; Cargill Ltd. - Elva.....	204-522-3221
Miami; SJ Agronomy Services Inc.....	204-435-2722
Miniota; Twin Valley Co-op.....	204-567-3766
Miniota; Walker's Seed Service.....	204-567-3647
Minnedosa; Heritage Co-op 1997 Ltd.....	204-867-2749
Minto; Ag-Quest Inc.....	204-776-2087
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Morden; Winkler Co-op.....	204-325-1658
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Morris; Red River Seeds Ltd.....	204-746-4779
Morris; Horizon Agro.....	204-746-2026
Morris; Tri-M Commodities Inc.....	204-746-5316
Navin; James Farms Ltd.....	204-222-8785
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Neepawa; Redfern Farm Services.....	204-476-2301
Neepawa; Northstar Seed Ltd.....	204-476-5241
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Niverville; Prairie Sky Crop Solutions.....	204-388-4303
Niverville; South East Seeds Inc.....	204-371-2898
Niverville; Paterson Grain.....	204-388-6565
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Oakville; Shur-Gro Farm Services Ltd.....	204-267-2701
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Somerset; Ronceray Seeds	204-744-2558
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Lab Name and Address	Contact	Scope of CFIA Accreditation*		Other Services (not accredited by CFIA)
		Purity & Germination	Disease	
Manitoba				
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@redspcr.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.
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, Botrytis, 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, Saskatchewan 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 pdsi@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@xplor.net	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 Canada Inc. (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 Canada Inc. (Grande Prairie) 10136 - 128 Ave., Unit 106 Grande Prairie, 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@xplor.net	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, Tetraxolium, Moisture, Clearfield of Lentil.

*Source: Canadian Food Inspection Agency, October 5, 2020



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