



2017 Variety Selection & Growers Source Guide

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SEED MANITOBA 2017 EDITION

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The grower's list was prepared by CSGA and
includes varieties eligible for sale in Canada and
seed crops issued certificates as of October 28,
2016. CSGA, MSGA, MCVET assume no
responsibility for errors or omissions. The pedigreed
class code is listed after the growers' phone
number. (S=Select; F=Foundation; R=Registered;
and C=Certified.)

Crops are sorted alphabetically by town and
grower (or company) name within variety
within crop kind. '®' indicates the variety is
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Cover photo by
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Manitoba Co-OPERATOR

Supplement to the Manitoba Co-operator
December 8, 2016

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Minister's Message



Manitoba Agriculture is proud to partner with the Manitoba Seed Growers Association and the *Manitoba Cooperator* to bring you this annual guide.

Seed Manitoba has become an instrumental part of spring seeding preparations for Manitoba producers. This guide provides balanced, quality information, allowing producers the

opportunity to make comparisons between current and the newest varieties on the market.

Agriculture is one of Manitoba's primary industries and agricultural commodities are some of our province's largest exports. The production decisions you make will affect the yield and quality of Manitoba crops. The better information you have, the greater the probability of success for Manitoba's crop sector.

This guide is made possible by the collaborative efforts of producers, commodity groups and Manitoba Agriculture staff who conduct the trials, compile and analyze the results for your use. Many thanks to the Manitoba Crop Variety Evaluation Team for their diligent work.

I wish all the members of the crops value chain a successful growing season.

Honourable Ralph Eichler
Minister of Agriculture

President's Message



The Manitoba Seed Growers' Association is proud to be associated with the 2017 edition of the Manitoba seed guide. *Seed Manitoba* is one of the most widely used variety databases for crop selection by farmers in Manitoba.

Seed Manitoba is the best possible resource for unbiased third party variety testing available and provides valuable

information on the ever changing genetics that come to market every season. This year we are pleased to launch a new website that will be a single location for a more accessible digital version of *Seed Manitoba*, as well as the benefits from the Seed Interactive site. In the coming months, the website will also contain an Online Field Tour, providing pictures of varieties at different growth stages and options for side by side comparisons.

The Manitoba Seed Growers' Association is proud to be a part of MCVET (Manitoba Crop Variety Evaluation Team) and wishes to thank the extensive network that comes together to make this publication happen. This guide receives excellent support from Manitoba Agriculture staff, Provincial Grower Associations, site co-operators, site contractors and our many industry contributors and sponsors.

Ray Askin
President,
Manitoba Seed Growers' Association

THANK YOU TO MCVET SPONSORS AND SUPPORTERS IN 2016

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

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Manitoba Pulse and Soybean Growers
Manitoba Wheat and Barley Growers Association
CANTERRA SEEDS
FP Genetics
Seed Depot
Winter Cereals Manitoba Inc.
Alliance Seed

MCVET would also like to express its gratitude to:

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

Companies and individuals who performed seed quality analysis.

Bayer CropScience for providing seed treatment.

MCVET greatly appreciates the efforts of our site contractors:

Ag-Quest Inc.
Canada-Manitoba Crop Diversification Centre
Crop Production Services
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James Richardson International
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Murphy et al. Inc

Parkland Crop Diversification Foundation
Prairies East Sustainable Agriculture Initiative
Syngenta Canada Inc.
University of Manitoba
Westman Agricultural Diversification Organization

WELCOME TO SEED MANITOBA 2017

By Anastasia Kubinec

Seed Manitoba editor, Manitoba Agriculture

Welcome to *Seed Manitoba* 2017, the variety selection and growers' source guide for Manitoba producers. This guide is compliments of Manitoba Agriculture, Manitoba Seed Growers' Association and the *Manitoba Co-operator*. The goal of *Seed Manitoba* is to provide quality data for farmers to use to guide their variety choice decisions.

Seed Manitoba is a one-stop shop to compare performance of the newest varieties versus the tried and true for multiple crop types. The data is based on small replicated plots, in trials grown across locations and years. The 'Variety Description' tables have data compiled from multiple years of data for yield and other attributes.

As varieties become more commercially grown, some ratings such as disease tolerance can change as commercial performance and reaction to disease races are better understood. Individual 2016 information for yield and protein (wheat and barley only) can be found in the tables following the 'Variety Descriptions' to let you compare performance in your own area.

All the data in these pages is reviewed by a dedicated group of crop specialists, pathologists, plant breeders, statisticians, company marketing representatives and seed growers.

For more information on what the headings mean in the tables, see the 'Variety Description Key' at the start of each crop-type section.

As editor of *Seed Manitoba*, I receive calls, emails and letters asking questions on specific things in the guide once it is released. I have compiled a few of the common questions and responses that I hope help to clarify how we get the data, why crops are tested at specific locations, our data review process and what is 'relative' for maturity.

WHY DO SOME CROP TYPES HAVE LESS TESTING LOCATIONS?

Core crops like barley, fall rye, oat, spring and winter wheat are planted at the most locations as they have Manitoba-wide adaptation. Other crops like flax and field peas are planted at locations where the crop

is usually grown. Lentils and durum wheat are only planted at western Manitoba locations where rainfall and disease risk is lower. Other crops like canola, corn, dry beans, soybeans and sunflowers are coordinated through the crop commodity associations and are planted where those groups have relationships with researchers with the capacity to grow and harvest the trials.

To visually gain a better understanding of where the trials and locations that contribute to the dataset contained in *Seed Manitoba* are, see '2016 Locations of Variety Evaluation Trials' map and table on pages 20 and 21.

WHAT CAUSES A TRIAL TO BE CANCELLED OR NOT USED?

The variety trials are exposed to the same weather conditions that other crops are in those areas. For example, trials at Portage la Prairie experienced a hail event just before harvest, which destroyed many plots, making yield data a reflection of where the most hail fell in the trial and not a measure of yield performance at that location.

Other issues like excessive moisture, wind damage, disease and animal feeding can be factors in eliminating locations. To ensure that individual trials are even for plant stands across varieties, all trial locations are visited and evaluated throughout the growing season. If there are issues, trials can be cancelled before plots reach harvest.

If the trial passes field inspection, it is harvested and data submitted. Statistical analyses ensures data shows consistency and yield differences are because of varietal performance and not problems in individual plots.

WHAT IS THE 'RELATIVE' MATURITY OF CROP TYPES IN MANITOBA?

Relative is the estimated range of what the maturity of the crop will be. Maturity is based on accumulation of heat (or growing degree days), but influenced by precipitation and disease presence. The actual number of days to reach maturity will depend on local climatic conditions and to some extent on management practices.

TABLE 1: Number of Days Required for Selected Crops to Reach Maturity

Crop	Days to Maturity
Barley	60 - 90
Buckwheat	80 - 90
Oats	85 - 88
Flax	85 - 100
Lentils	85 - 100
Field Peas	90 - 100
Navy Beans	90 - 100
Wheat	90 - 100
Canola	92 - 102
Black Beans	95 - 105
Fababeans	105 - 115
Grain Corn	110 - 120
Sunflowers	120 - 130

Source: Agricultural Climate of Manitoba - www.gov.mb.ca/agriculture/weather/agricultural-climate-of-mb.html

CHANGES IN SEED MANITOBA 2017

In the Cereal section, the hullless oats table has been removed as no testing has occurred since 2008.

In the Oilseed section, the mustard table has been removed as we do not test mustard in Manitoba. There will be a new soybean table providing data for the Western Manitoba Conventional Soybean variety adaptation.

In the Roundup Ready Table, the lodging scores will be presented as a single column and not two columns based on soil type (clay and loam). The 'Notes' column is now two columns, to better reflect the phytophthora and soybean cyst nematode resistance.

There is also the addition of a Maturity Zone Map for Soybeans to visually display where varieties are adapted to in Manitoba.

Seed Manitoba continues to be a collaborative effort between industry, government and producers to provide third-party variety performance information. Without the MCVET sponsors, supporters, site contractors and commodity groups that donate data, this publication would not be possible. Special thanks to Patti Rothenburger and Craig Linde of Manitoba Agriculture, who behind the scenes, make the transition from organizing trials to data analysis and proofing run smoothly.

We hope you find the information contained in *Seed Manitoba* helpful while you determine your variety choices for the upcoming 2017 growing season. ■

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CROP VARIETY DECISIONS JUST GOT EASIER AND MORE CONVENIENT

An online digital field tour tool allows growers to visually compare newly registered cereal varieties

By Patti Rothenburger

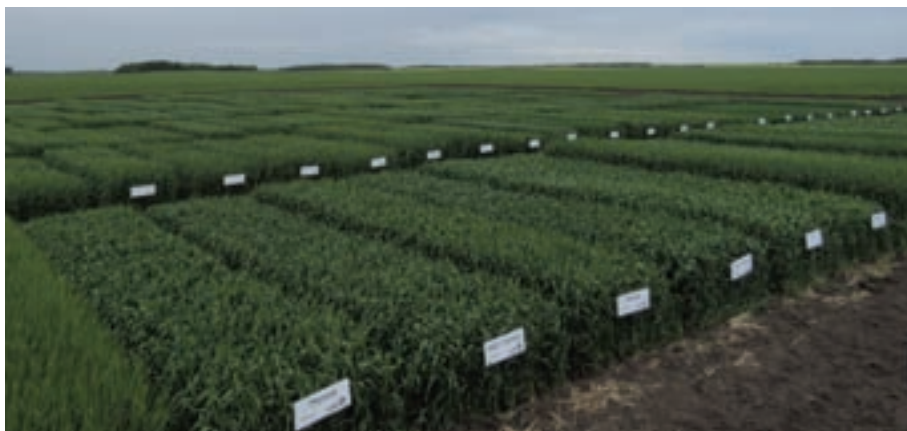
Manitoba Agriculture

Public and private breeding institutions along with commodity associations commit extensive resources to the development of new crop varieties every year. A comprehensive testing system run across the western Canadian growing regions generates data to support variety registration. However, data generated for variety registration provides only limited comparisons with other registered varieties and does not provide sufficient information about the regional adaptation of new varieties. Producers require more detailed, unbiased regional information to make varietal decisions.

MANITOBA CROP VARIETY EVALUATION TRIALS (MCVET)

MCVET serves as an independent third-party crop variety evaluation program for producers and the seed industry in Manitoba. MCVET strives to provide producers with the most recent agronomic data available not only in their own growing region but throughout the whole province. MCVET collects data on an average of 23 major/minor crops types over 15 locations annually. Agronomic, disease and some of the quality data presented in *Seed Manitoba* is not collected annually as part of the MCVET program. This data is from the variety registration trials tested regionally across Western Canada and is included in *Seed Manitoba* guide to complete the data package for each variety (Table 1: Seed Manitoba Spring Wheat Table 2017). *Seed Manitoba* print and digital editions have been developed through a partnership between the Manitoba Seed Growers' Association (MSGA), Manitoba Agriculture, and Farm Business Communications (FBC).

Annual planning of crop variety trials commences in January. Meetings are held to determine the number and types of variety



Wheat MCVET plots, Thornhill, Manitoba.

PHOTO: COURTESY P. ROTHENBURGER

trials and locations for the upcoming field season. Entry lists of new and current crop varieties are generated by a call for entries sent out at the end of February. Once the entry lists are generated, plot randomizations are created to ensure varieties are randomly placed in replicated trials in the field. Entries are replicated three to four times to

help decrease variation in soil topography, texture, fertility, or other factors that could bias the results.

Seed companies and breeding institutions ship bare seed to the co-operator who will be treating and packaging the seed as early as the end of March. Seed treatment used is reflective of the industry standard. The

Table 1 Seed Manitoba Spring Wheat 2017

C E R E A L C R O P S	SPRING WHEAT (continued)															
	Variety Descriptions										Resistance Level:					
	Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awned	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	61	14.5	-1	10	Y	G	G	MS	I	MS	R	R	—	I
	5605HR CL [®]	32	62	14.7	1	10	Y	VG	—	R	MR	MS	MS	R	MR	MR
	AAC Bailey [®]	28	50	14.9	-1	13	N	G	G	MS	MR	I	R	R	—	I
	AAC Brandon [®]	46	65	14.2	2	0	Y	VG	P	MR	S	I	R	R	MR	MR
	AAC Cameron VB [®]	33	69	13.9	1	13	Y	G	F	S	R	I	MR	MR	S	I
	AAC Connery [®]	30	57	15.1	1	3	N	VG	G	MR	I	I	R	MR	R	MR
	AAC Elie [®]	43	64	14.3	2	-3	Y	VG	F	I	I	I	R	R	MR	I
	AAC Jatharia VB [®]	33	69	14.4	1	13	Y	G	G	S	MS	I	I	R	I	I
	AAC Prevail VB [®]	44	62	14.2	1	18	N	G	VG	S	S	MS	MR	R	R	I
	AAC Redberry [®]	19	63	14.5	0	8	Y	G	—	R	I	MS	R	R	R	I
	AAC Redwater [®]	43	60	14.5	-2	8	Y	G	VG	MS	I	MS	R	R	MR	I
	AAC Viewfield [®]	19	60	14.9	3	-5	Y	VG	—	S	MR	I	R	MR	R	I
	AAC W1876 [®]	32	57	15.2	3	3	Y	VG	F	I	I	MS	MR	R	I	I
	AC Barrie	165	58	14.5	0	13	N	G	G	MR	I	MS	MR	MS	S	I
	AC Domain	22	56	15.2	-2	10	N	VG	VG	R	I	S	R	I	MR	MS
	Alvena [®]	30	60	14.7	-2	13	N	G	P	MR	I	—	MR	I	I	MS
	Carberry [®]	64	62	14.6	2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR
	Cardale [®]	28	63	14.5	2	3	Y	VG	G	I	MR	MS	R	R	S	MR
	CDC Abound [®]	43	59	14.4	2	3	Y	G	F	I	I	MS	R	MS	MS	S
	CDC Bradwell [®]	33	62	14.4	3	5	Y	VG	—	MR	R	MS	MR	R	MS	I
	CDC Go	24	63	14.3	-1	8	Y	G	P	MS	I	S	R	I	MR	MS
	CDC Kernen [®]	39	60	14.7	1	15	Y	G	P	R	I	MS	MR	MR	I	I
	CDC Landmark VB [®]	7	63	14.4	0	3	Y	VG	—	MR	MS	I	R	MS	MR	I
	CDC Pintliff [®]	42	60	14.6	-3	8	N	VG	P	R	I	I	R	R	MR	MR



Figure 1: Early-season MCVET tour:
 a) Cereal plots with good stand establishment and weed free. b) Cereal plots with broadleaf weed infestation problem.

amount of seed that is packaged per entry is dependent upon plot size, germination, and 1,000 kernel weights. Plot size varies throughout the province from eight to 16 metres squared.

Seed is shipped to trial co-operators the last week of April. Plot randomizations, workbooks and protocols are sent to co-operators to ensure the trials will be managed properly. Trial protocols remind co-operators of important factors when conducting plots including site selection, seeding, maintenance, weed control, and harvest.

For example, when selecting a site, the co-operator must ensure the plots are at least 30 metres away from a tree line and the field area is level and uniform. The site should follow proper crop rotation so there are no volunteers of the same crop type and confirm no chemical residues that will affect the plots in the trial. Site selection in a producer field with the same crop type is most desirable, therefore, the field has been prepared with appropriate fertilizer and chemical regime as the surrounding crop.

Based on crop type and weather conditions, co-operators will plant the variety trial similar time to producers to ensure data will be relevant to the area. Once seeding is complete, a tour of all trials is conducted at the start of July by Manitoba Agriculture staff to ensure the trials were properly planted, have a good stand, and early weed control has been performed. This early-season tour allows co-operators to correct any issues with the trials before there is major impact to the trial (see Figure 1). If there is a major problem, the trial will be terminated at that time. Notes taken

on stand establishment usually help when data is received at the end of the season to detect problems with plots or if there is a variety-specific problem (i.e. seed vigour or germination).

Plots severely affected may be treated as missing plots when the data is analyzed. No fungicides are applied, as the purpose of the variety trial is to measure genetic potential. Fungicides are not utilized on the trials as it is very difficult to determine the most appropriate time to apply the fungicide on 45 wheat varieties without introducing another source of variation to the results.

A second tour is completed pre-harvest to determine if the trial was well maintained and to ensure there was no damage to the plots during herbicide application, weeds, or by wildlife. In crop types where phenotypic differences can be seen between varieties, such as awned and awnless varieties, specialists verify varieties are located as per plot plan to ensure no seeding errors have occurred.

Plots are harvested once all varieties have matured. At harvest time, small plots are individually combined, bagged and tagged.

Moisture is measured for each sample. Samples are cleaned and weighed in grams per plot or kilograms per hectare.

Before the data can be analyzed, the yield data is adjusted to the appropriate crop moisture to ensure all data is treated the same. Data is then converted into units that are understood by the producer (e.g. wheat yields are converted from grams/plot to bu./acre). Quality testing is performed on clean samples to determine protein for wheat or oil for oilseed crops.

The release of third-party independent yield data for new crop varieties is critical for producers. Small-plot variety evaluation trials require plots to be harvested, bagged, tagged, cleaned, moisture adjusted, unit conversion and quality tested. The larger the number of varieties in a trial the longer the time to process samples to obtain the final yield number accurately. Variety trial summaries can be found in the *Seed Manitoba* printed edition or digitally at www.seedmb.ca (see Figure 2).

More **DECISIONS** on page 10 »



Figure 2: www.seedmb.ca home page with a suite of tools available to producers.

www.seedmb.ca website is a user-friendly one-stop shop for producers to access crop variety information utilizing a suite of tools that have been developed through the partnership between MCVET, MSGA, and FBC. The suite of tools includes information on MCVET, Seed Variety Selection tool, digital editions of *Seed Manitoba* guide, web-exclusive data that was not available at the time the *Seed Manitoba* guide was printed, a tool and resource section for the seed industry, and the digital online field tour that will be launched summer 2017.

Seed Variety Selection tool is an online variety decision tool developed over a three-year period between 2010 and 2013 that allows seed growers/producers to tailor reports to include variety data (yield performance, variety disease resistance and general agronomic attributes). Producers can also use the Yield Comparison Report to select their own check variety to compare directly to a new or commonly grown variety at locations of their choice. Or use the Multi-Year Yield Summary Report to focus on a group of varieties tested together within a specific time span at the locations of their choice.

ONLINE DIGITAL FIELD TOUR

A mandate of the Manitoba Seed Growers' Association is to educate seed growers and producers on the role and importance of the pedigreed seed system and development of new innovative varieties. From the time a variety is registered until it is commercialized, there is a seed multiplication period of three to four years. This time may be accelerated using contra-season multiplication, however, this can be very expensive.

MCVET trials are the first opportunity for any grower to see new varieties in the field compared to varieties already commercialized. In the past, MCVET has held summer tours and invited seed growers/producers to view the crop variety plots in order for seed growers to decide which varieties would be best to multiply as part of their farming operation. However, the best time to view crop variety differences at a tour always seems to be during the busy time for seed growers/producers at their own farming operations. Therefore, MCVET and the Manitoba Seed Growers initiated a project proposal to develop a digital online field tour of the crop variety evaluation trials at various key stages of

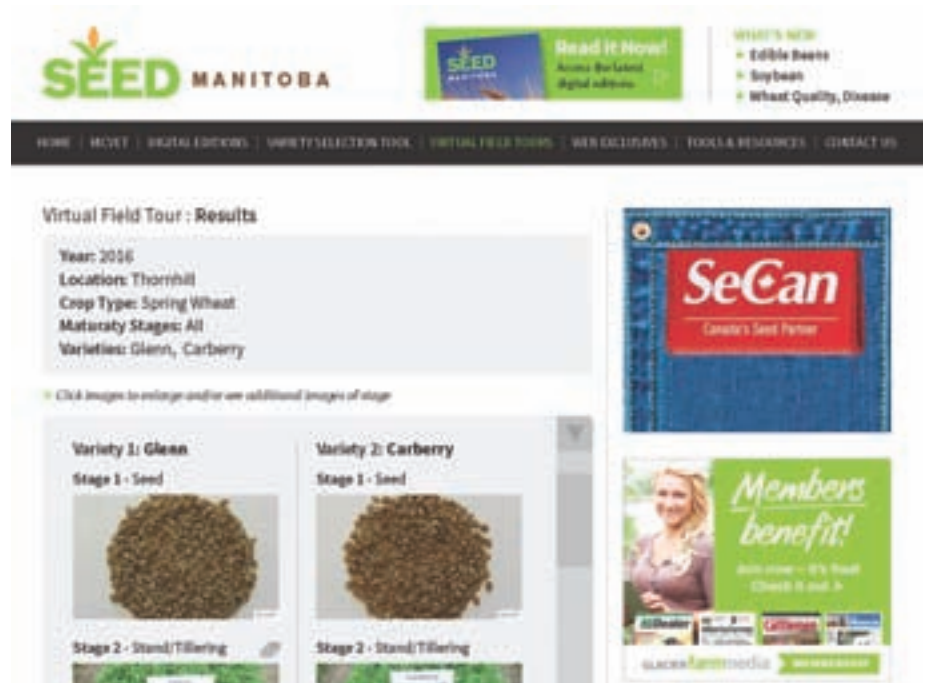


Figure 3: Digital online field tour results page.

growth that permits seed growers/producers to view the plots at a time when it is convenient for them.

An application was submitted by the Manitoba Seed Growers' Association to Manitoba Agriculture's Growing Forward 2 program called Growing Actions. The objective of the three-year project was to develop an online cereal digital field tour tool that allows seed growers and producers to select and visually compare newly registered cereal varieties grown under the same conditions at growth stages throughout the growing season. This tool would be amalgamated with the existing Seed Variety Selection tool to benefit seed growers and producers by allowing them to visually view new varieties with agronomic, disease and quality data and compare them to current varieties they are growing on their own farm.

MCVET tests on average 120 cereal varieties (spring wheat, winter wheat, fall rye, barley, oats) at 15 locations throughout Manitoba. Two of these 15 locations: Portage la Prairie and Thornhill are being used to generate a library of still photographs and video at various growth stages to be used in the development of the online digital field tour. Three stages (seed, stand/tillering, heading/maturity) have been and will continue to be photographed with agronomic, disease and quality data incorporated as part of the online field tour and variety

selection tool. The digital online field tour will be launched in live time throughout the growing season of 2017. Growers will have the option to select year, location, crop type, growth stage and varieties that they would like to compare at different growth stages (Figure 3).

USING THE SUITE OF TOOLS

The MCVET committee is made up of researchers, producers, government, commodity associations and seed industry representatives who work diligently to ensure producers have accurate, unbiased data to help them make better-informed crop variety decisions. Producers are fortunate to have the extensive data that is collected through the MCVET program that has been incorporated into the suite of tools developed for them including *Seed Manitoba* guide (printed and digital), the variety selection tool and the online digital field tour. All of these tools have been designed to be user friendly, and accessible from your mobile device in the field to the comfort of your own home or office computer.

Producing tailored crop variety reports for your farming operation with local data and attending an online field tour to view the new improved crop variety genetics at different growth stages compared to varieties you are currently growing on your own farm has never been more convenient or reliable. ■

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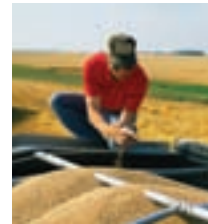
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SOME COMMON, BUT OFTEN UNKNOWN, BENEFICIAL INSECTS IN MANITOBA

Knowing which bugs to keep around can be a big help in controlling crop pests

By John Gavloski

Entomologist, Manitoba Agriculture

Having a good abundance and diversity of predacious and parasitic insects on and around a farm can reduce the number of outbreaks of potential pest insects.

So it is good both environmentally and economically to take steps to encourage a wide variety of beneficial insects on your farm.

In addition to knowing insects that can be pests if levels get too high, it is also important to know some of the common beneficial insects that can help keep crop-feeding insects in check. Have a look at these six photos and see how many of these insects you can identify. All of these are quite valuable predators of other insects.

- a) Almost everyone will know the adult stage of this insect; many species are red or orange and have black spots. This is the larva of a lady beetle (or ladybug as they are sometimes called). The species in the photo is the larva of the seven-spotted lady beetle. They like to feed on aphids, but will also feed on insect eggs, mites, thrips and sometimes small caterpillars. Lady beetles have big appetites. In feeding studies seven-spotted lady beetle females ate on average 115 soybean aphids in 24 hours, males ate 78, and third instar larvae ate 105.
- b) These nighttime hunters can often be found during the day hiding under things on the ground. These are ground beetles. Got cutworms? Ground beetles like eating caterpillars, including many species of cutworms that can damage crops. They will also eat grasshopper eggs, root maggots, and the larvae of wheat midge, once the wheat midge larvae move from the plants to the soil. There are many species of ground beetles, and a study in Saskatchewan found 14 species of ground beetles having fed on larvae of wheat midge.
- c) These are small, quick insects, great at moving about in the soil in search of things to eat. This photo is of a rove beetle. Rove beetles are often unrecognized because of their small size and many species spend a lot of



a)



b)



c)



d)



e)



f)

time in the soil. But don't underestimate their importance, or diversity. There are 63,000 species of rove beetles in the world.

To put that into perspective, there are over six times as many species of rove beetles in the world as there are birds! And some rove beetles have big appetites too. A study on a species we commonly have in Manitoba found that on average one adult consumed 23 eggs or 2.6 root maggot larvae per day, and under optimal conditions a single pair could consume 1,200 root maggot eggs and 128 larvae in their lifetimes.

- d) You have probably seen the adults of this maggot before; although there is a chance you mistook them for a bee or wasp. This photo is the larva of a hover fly. Adults of hover flies are great bee and wasp mimics, although being a fly are incapable of stinging. Larvae love to feed on aphids, and may also eat some small caterpillars. When aphid populations start building you will sometimes notice these slug-like larvae starting to appear in the field.
- e) While other predators get cool names like pirate bugs, assassin bugs or ambush bugs, the poor predator in this photo gets stuck with the name damsel bug. But make no mistake, these are quick predators, efficient at killing other insects and also have big appetites.

When they catch another insect, they put their beak into the prey and inject a toxin that kills the prey. They will sometimes kill more insects than they eat. And in

addition to aphids and small caterpillars, they are quick enough that they can catch leafhoppers and nymphs of Lygus bugs. They can be important predators of diamondback moth. A feeding study where they were provided with easy access to a lot of food found an average of 131 eggs or 95 larvae of diamondback moth were killed by a single female adult of a species of damsel bug in 24 hours. So these are damsels with an attitude, not to mention an appetite.

- f) So lady beetle larva look like small black or greyish alligators, but there are often brown and white alligators running around in your crops as well. These are the larvae of green lacewings. They like to eat aphids, insect eggs and caterpillars. They have been observed feeding on the larvae and pupae of diamondback moth. And lacewing larvae can move quickly as well. Although not likely common they have been observed feeding on flea beetles, and the lacewing larva in this photo has captured a Lygus bug nymph.

Want this crew working in your fields? Remember to only use insecticides when economic thresholds have been surpassed. If possible use selective insecticides that don't kill many beneficial insects. Don't underestimate the value of having some plant diversity, such as shelterbelt, flowering vegetation (such as roadside can provide), etc. around the farm as alternate habitat and a source of nectar for beneficial insects. ■

DON'T ASSUME A SOYBEAN IS A SOYBEAN IS A SOYBEAN

Xtend soybeans, which will hit the market in 2017, are glyphosate and dicamba resistant, but remember Roundup Ready2Yield soybeans will die if sprayed with dicamba

BY ALLAN DAWSON

Manitoba Co-operator staff

The commercialization of Xtend soybeans next spring — a new tool in the battle against herbicide-resistant weeds — means Manitoba farmers need to pay more attention to the type of soybeans growing in adjacent fields.

“A soybean is no longer a soybean,” says Manitoba Agriculture’s pulse crop specialist Dennis Lange.

Until now almost all of the soybeans grown in Manitoba have been Roundup Ready (glyphosate tolerant). But Xtend soybeans are Roundup Ready and dicamba tolerant. Roundup Ready and conventional soybeans can be killed or damaged when hit with dicamba.

“If you don’t ask the question, finding out the hard way is going to cost you,” Lange warned. “There are a few more potential problems with drift (related to dicamba) than we are used to.”

Once a farmer finds out what neighbours are growing it needs to be communicated to farm staff as well.

Dicamba has a reputation for being a bit more volatile than some other herbicides, but Monsanto says it has mitigated that with its product Xtendimax Vapor Grip. The company has advice on reducing spray drift:

- Don’t spray in winds over 15 kilometres per hour or less than three. Calm winds can be accompanied by temperature inversions, which are conducive to drift.
- Sprayer travel speeds should not exceed 24 kilometres per hour.
- Use nozzles and pressure settings that produce coarse to ultra-coarse droplets such as Turbo TeeJet Induction and Air Induction. Those nozzles require application rates of 10 gallons of water an acre.
- Boom height should be no more than 50 centimetres.



Xtend soybeans, which are glyphosate and dicamba tolerant, can be sprayed early to control weeds and the dicamba provides some residual weed control. PHOTO: ALLAN DAWSON

“If you don’t ask the question, finding out the hard way is going to cost you.”

Dennis Lange

- Monsanto also recommends triple rinsing sprayers following application. After the first rinse with water Monsanto advises removing all the filters and screens and soaking them overnight in an ammonia-based solution. Fill the tank with a similar solution and agitate for 145 minutes, circulate and then flush everything for at least one minute. Follow that with a water flush and rinse.

Cleaning the sprayer properly following dicamba is important, Lange said. For demonstration purposes this June, Roundup Ready soybeans at the Crop Diagnostic School were sprayed with a tank mix of glyphosate and a 10 per cent dicamba solution. It killed the soybeans.

“That is something that theoretically could happen in the field,” Lange said. “Ten per cent sounds pretty high but if you don’t do a proper rinse or you have something plugged in the line and you go and spray those soybeans then you have to be aware of what the consequences could be.”

Because dicamba persists, farmers can’t reseed conventional or Roundup Ready soybeans in the same year after applying it, Allan Froese, Monsanto’s technology development representative said during a tour of Xtend soybeans in 2015. However, there are no cropping restrictions the following year,



These injured Roundup Ready soybeans were sprayed with dicamba. Farmers are going to have to pay attention starting next spring and not assume all soybeans are the new Xtend variety, which is tolerant to both glyphosate and dicamba. PHOTO: DENNIS LANGE, MANITOBA AGRICULTURE

so long as dicamba is not applied after the end of August.

Xtend soybeans were not tested in the Manitoba Crop Evaluation Trials this year because the European Union delayed approving them for import until seeding was past. But they will be tested in 2017, Lange said. In the meantime farmers will have to rely on seed company information.

Xtend soybeans are a way to delay the onset of herbicide-resistant weeds and can be helpful in tough weed situations, Monsanto officials say.

"Tank mixes are probably the best thing you can do to slow (herbicide weed) resistance that you actually have some control over," Bruce Murray, Dekalb's agronomist for southeastern Manitoba, said. (Dekalb is Monsanto's seed company.)

Monsanto recommends applying glyphosate (Weathermax) and dicamba (Xtendimax) from pre-plant to the V2 soybean stage to get early weed control, resulting in potentially higher yields. If a second application is required in crop, farmers can substitute dicamba with one

of several other herbicides, such as Viper or Odyssey, which will control glyphosate-tolerant canola. (Both the Xtendimax and Banvel II labels say they control "non-glyphosate-tolerant canola" in Xtend soybeans.)

"You want to start clean and stay clean," Dekalb agronomist Danielle Berard said. "This is where your herbicide dollars are going to be most effective. Soybeans are a wimp. They don't tolerate competition very well, so you want to apply it earlier on in the season."

Agriculture and Agri-Food Canada weed scientist Hugh Beckie also recommends crop rotation, including fall-seeded and perennial crops, avoiding herbicide use when possible and rotating herbicides, as ways to delay herbicide-resistant weeds.

In an interview in 2014 Beckie said tank mixing herbicides with two different modes of action was a good strategy for delaying the development of glyphosate-resistant kochia, which is widespread in Alberta and Saskatchewan.

"Farmers were just using glyphosate

alone at high rates and that quickly selected for resistance," he said. "They should be tank mixing another mode of action whenever possible with glyphosate and to only spray glyphosate when it's really needed."

A survey of 283 Manitoba fields in 2014 found only two had glyphosate-resistant kochia.

In late October Monsanto expected enough Xtend seed for more than 200,000 western Canadian acres in 2017 — most of them in Manitoba — but the final number could be different.

Xtend soybeans will cost around \$2 a unit or about \$3 an acre more than Roundup Ready2Yield seed.

Thirteen varieties will be available, ranging from 2250 to 2500 corn heat units.

"We also have some experimental varieties coming to the market that will be even earlier," Monsanto spokesperson Trish Jordan said in an email. "One of the key goals with respect to both corn and soybean research is to drive earlier maturity to allow farmers more options in more geographies across Western Canada." ■

FUSARIUM-INFECTED SEED: USE IT OR DITCH IT?

Prairie governments have different specifications for how fusarium-infected seed can be used

By Holly Derksen

Field Crop Pathologist, Manitoba Agriculture

By Michael Harding

Research Scientist Plant Pathology,
Alberta Agriculture and Forestry

By Barbara Ziesman

Plant Disease Specialist,
Saskatchewan Ministry of Agriculture

Fusarium head blight (FHB) is a fungal disease affecting small grains, most notably spring and winter wheat, but also oat, barley, rye, and triticale in years when disease pressure is high.

Several species of *Fusarium* can cause symptoms of FHB, but the predominant causal agent of FHB in most areas is *Fusarium graminearum*. FHB has been a prominent disease across the Prairie provinces, especially Manitoba, for many years. The 2016 season was no exception, and in many parts of the Prairies, levels of FHB were amongst the highest they have been in recent years. There is a plethora of information available about managing FHB before infection occurs, but what should a grower do with infected seed?

Q: If I have grain or seed infected with *Fusarium graminearum* can I plant it?

A: First and foremost, the level of seed infection should be determined by sending a sample to an accredited laboratory. The relationship between Fusarium-damaged kernels (FDK) which is a grain-grading factor and seed infection by *Fusarium* spp. is not consistent.

The percentage of FDK in a sample of grain does not equal the percentage of seed Fusarium infection. Conversely, the lack of FDK does not necessarily mean that Fusarium infection is not present. In years where conditions are conducive for Fusarium infection after anthesis the infection may not result in visual symptoms.



Figure 1. Fusarium-damaged kernels on left. PHOTO: MANITOBA CO-OPERATOR

This type of infection would only be detected through seed testing. Therefore, having seed tested for levels of Fusarium infection is the only accurate way of determining whether the seed is infected and to what extent.

In Manitoba, there are no restrictions or thresholds for planting *F. graminearum*-infected seed. However, grain should be tested for germination and Fusarium infection before determining its suitability for seed.

In Alberta, any grain with detectable levels of *F. graminearum* cannot be used for seed because *F. graminearum* is a declared pest under Alberta's Agricultural Pests Act. Section 22c of the Agricultural Pests Act states: "No person shall for propagation purposes acquire, sell, distribute or use any seed, root, tuber or other vegetable material containing a pest."

In Saskatchewan, *F. graminearum* is not a regulated pest. However, to reduce the spread of *F. graminearum* into areas where it is not currently established, grain containing more than five per cent *F. graminearum* is not recommended to be used for seed.

Q: If I intend to plant Fusarium-infected seed, when should I use a seed treatment?

A: Using good-quality seed, with high germination and vigour, and low disease incidence, is always recommended. Cleaning of grain to remove FDK can improve seed germination. In addition, seed should be planted into warm, well-drained, fertile soil at the appropriate depth.

Applying fungicidal seed treatments to cereal seed is also a beneficial management practice that helps reduce risks associated with seedling mortality and reductions in stand establishment due to seed-borne, seed-transmitted and soil-borne fungal pathogens especially when planting conditions are not optimal. *Fusarium* species are examples of fungi that can cause disease on germinating seeds and seedlings and reduce plant populations. In cases where Fusarium infections reduce germination, a germination test should be used to adjust the seeding rate so that emergence and yield are not compromised. The use of a



Figure 2. Comparison of wheat with high levels of *Fusarium* infection planted a) with a seed treatment and b) without a seed treatment. PHOTOS: COURTESY OF HOLLY DERKSEN

seed treatment will not improve germination rates, but will protect seedlings once germination has occurred.

It is important to keep in mind that other soil-borne, residue-borne and seed-borne micro-organisms (i.e. pests other than *Fusarium* spp.) can also cause disease on germinated seeds and seedlings, so even if *Fusarium* spp. are not detected on seed, a seed treatment could still be considered as a beneficial risk management tool to protect against additional threats.

In Manitoba, there is no threshold for the

level of *Fusarium* seed infection at which a seed treatment is required.

In Alberta, only healthy seed with no detectable levels of *F. graminearum* may be planted. It is also recommended to always use a registered fungicidal seed treatment that includes the genus *Fusarium* on the label.

In Saskatchewan, recommendations vary depending on whether *F. graminearum* is established in the area. In areas with *F. graminearum* it is recommended that seed with more than 10 per cent infection by *Fusarium*

spp. be treated with a fungicidal seed treatment. More information on Saskatchewan recommendations is available on the Saskatchewan Ministry of Agriculture website.

Finally, it is important to remember that the presence or absence of *Fusarium* on the seed you plant does not relate to the presence or absence of FHB later in the season. Conditions should still be monitored to determine the risk for FHB infection at early flower and appropriate management techniques implemented. ■

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WATCH OUT FOR GLYPHOSATE-RESISTANT KOCHIA IN MANITOBA

Resistant populations have been found in all three Prairie provinces

By **Jeanette Gaultier**

Weed Specialist, Manitoba Agriculture

Herbicide resistance, especially in kochia, is not a new issue to Manitoba. Group 2-resistant kochia was first identified in Manitoba in 1988 and is now present in over 90 per cent of kochia populations. More recently, kochia with multiple resistance to Group 2 and Group 4 (dicamba and fluroxypyr) was found in Saskatchewan and glyphosate-resistant (GR) kochia was also found in Saskatchewan (2012) and Alberta (2011).

The first Manitoba GR kochia plants were found in 2013 in two fields in southern Manitoba through a joint Agriculture and Agri-Food Canada (AAFC), Manitoba Agriculture and the University of Manitoba survey.

Incidence of GR kochia was found to be low at less than one per cent, but the concern is that glyphosate is a significant herbicide in our crop production systems.

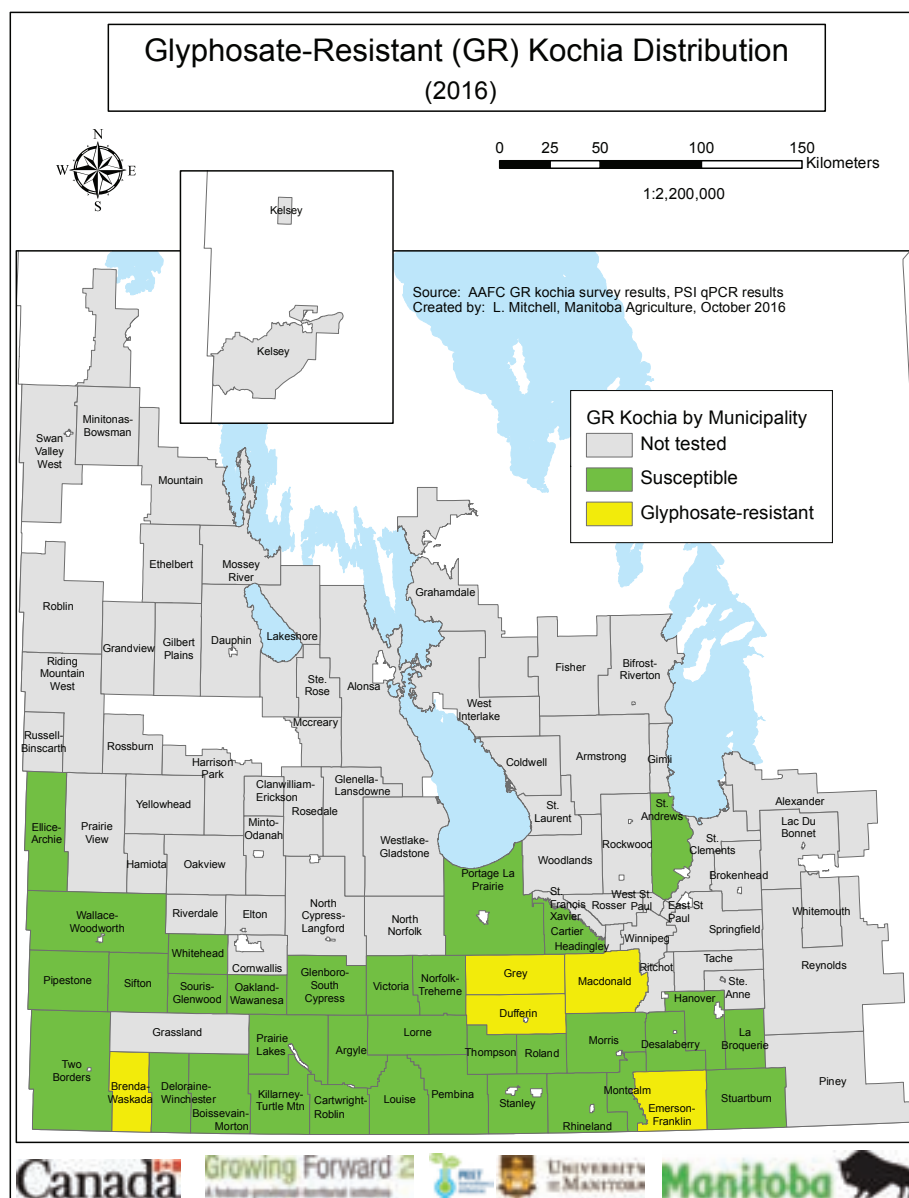
As well, the discovery of the populations in glyphosate-tolerant corn and soybean fields was surprising, as prior to the Manitoba survey, GR kochia was mainly associated with chemfallow in Alberta and Saskatchewan.

With new testing tools, confirmation is getting easier. In response to GR kochia findings, the University of Manitoba and Pest Surveillance Initiative (PSI) Lab started working on a qPCR (genetic) analysis to test for GR kochia, developed by the University of Colorado.

Samples submitted from Manitoba agronomists and producers to PSI in 2015 and 2016 verified five new GR kochia cases in the province. It also showed that the qPCR analysis, which requires kochia leaves and stems rather than seed, was effective in providing producers with rapid, in-season results.

With confirmed populations, it's important to reduce the risk of developing glyphosate resistance.

Herbicide-tolerant (HT) traits are often a key consideration when selecting canola,



corn or soybean varieties. To sustain the effectiveness of the herbicides, tank mixing or 'layering' (pre- plus post-emergent applications) herbicides with different modes of action have been shown as an effective method in reducing the risk of selecting for herbicide-resistant weeds. Selection of vigorous crop varieties and seeding at recom-

mended rates helps to increase crop competition with weeds. Finally, a robust crop rotation, including both HT and non-HT crops, will diversify the weed spectrum.

Producers that suspect kochia of being resistant to glyphosate can now submit samples to PSI for qPCR analysis: www.mbpestlab.ca/field-testing/.



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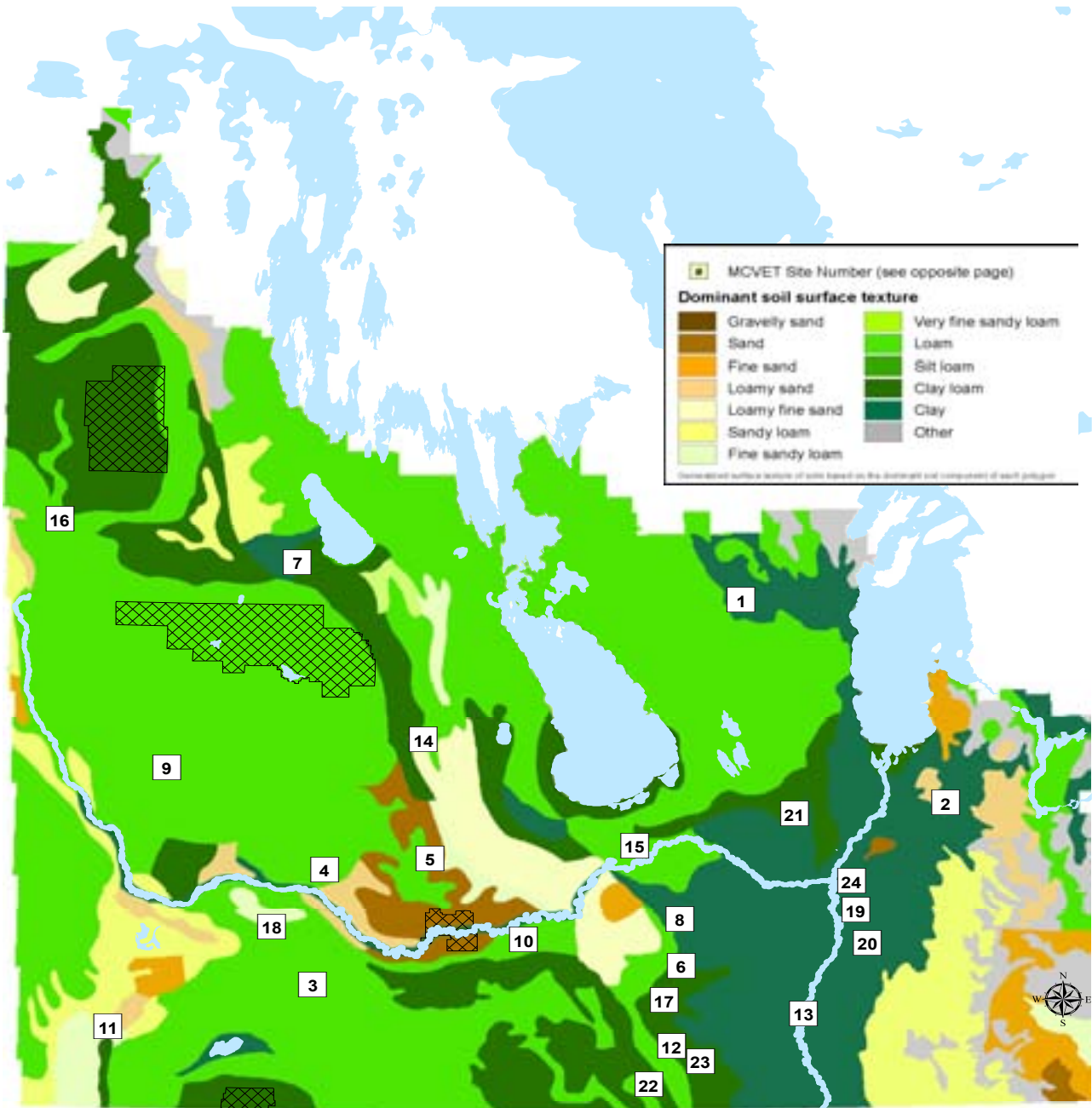
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2016 LOCATIONS OF VARIETY EVALUATION TRIALS



Canada

Growing Forward

Manitoba

Site Location	Crops Tested	Contractor(s)	Soil Texture	Internal Soil Drainage	Precipitation ¹		Growing Degree Days ¹		Manitoba Agriculture Weather Station Used
					Actual (mm)	% of Normal	Actual	% of Normal	
1 Arborg	Spring Wheat, Oats, Barley, Winter Wheat, Fall Rye, Flax, Pea, Soybean, Fababea	PESAI, S.S. Johnson Seeds Ltd.	clay	imperfect	314	94%	1738	117%	Arborg
2 Beausejour	Winter Wheat, Fall Rye, Soybean	PESAI	clay loam	imperfect	418	114%	1777	108%	Selkirk
3 Boissevain	Spring Wheat, Oats, Barley, Winter Wheat, Fall Rye, Flax, Soybean	Ag-Quest Inc.	loamy	imperfect	427	136%	1817	106%	Boissevain
4 Brandon	Spring Wheat, Oats	Agriculture & Agri-Food Canada	clay loam	well	398	123%	1725	111%	Brandon
5 Carberry	Winter Wheat, Fall Rye, Sunflower, Soybean, Hemp	CMCDC	clay loam	well	365	113%	1729	112%	Carberry
6 Carman	Winter Wheat, Fall Rye, Dry Bean	University of Manitoba, Ag-Quest Inc.	loam	imperfect	408	121%	1818	107%	Carman
7 Dauphin	Spring Wheat, Barley, Oat, Soybean	Ag-Quest Inc.	silty clay loam	imperfect	419	118%	1692	111%	Dauphin
8 Elm Creek	Silage Corn	Ag-Quest Inc.	coarse loam	imperfect	419	125%	1913	113%	Elm Creek
9 Hamiota	Spring Wheat, Oats, Barley, Winter Wheat, Fall Rye, Pea, Soybean, Lentil	Ag-Quest Inc.	clay loam	well	450	156%	1712	111%	Hamiota
10 Holland	Sunflowers	Ag-Quest Inc.	clay loam	well	475	142%	1912	113%	Treherne
11 Melita	Spring Wheat, Durum Wheat, Oats, Barley, Soybean, Pea, Sunflowers, Hemp	WADO	loamy	imperfect	407	135%	1835	107%	Melita
12 Morden	Flax, Soybean, Pea, Dry Bean, Grain Corn	Agriculture & Agri-Food Canada	clay loam	well	466	133%	1954	108%	Morden
13 Morris	Soybean	Ag-Quest Inc.	heavy clay	imperfect	500	147%	1906	111%	Morris
14 Neepawa	Spring Wheat, Barley	Syngenta	clay loam	well	392	118%	1631	118%	Minnedosa
15 Portage	Winter Wheat, Fall Rye	CROP/ICMS	sandy loam	imperfect	390	115%	1875	108%	Portage East
16 Roblin	Barley, Winter Wheat, Fall Rye	PCDF	loamy	well	407	116%	1565	107%	Roblin
17 Rosebank	Spring Wheat, Barley, Winter Wheat, Fall Rye, Flax, Soybean	Crop Production Services	loam	imperfect	466	133%	1954	108%	Morden
18 Souris	Spring Wheat, Durum Wheat, Barley	Syngenta			448	139%	1768	114%	Souris
19 St. Adolphe	Spring Wheat, Oats, Barley, Soybean	Murphy et al. Inc.	heavy clay	imperfect	428	121%	1955	115%	St. Adolphe
20 St. Pierre	Grain Corn, Silage Corn	Ag-Quest Inc.			531	161%	1976	119%	St. Pierre
21 Stonewall	Spring Wheat, Oats, Barley, Winter Wheat, Fall Rye, Flax, Soybean, Dry Bean	PESAI	clay	imperfect	333	97%	1873	113%	Woodlands
22 Thornhill	Spring Wheat, Oats, Barley	ICMS	loamy	well	466	133%	1954	108%	Morden
23 Winkler	Dry Bean	Ag-Quest Inc.	sandy loam	well	448	128%	1951	108%	Winkler
24 Winnipeg	Winter Wheat, Fall Rye	University of Manitoba	silty clay	imperfect	362	102%	1858	110%	Winnipeg

¹ Weather data is reported from May 1st to October 10th and reflects the percentage of the normal accumulations as calculated using the long-term average for the past 30 years. More information can be found at www.gov.mb.ca/agriculture/weather/weather-conditions-and-reports.html

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, CCC, MCC, NSAC and MSPG 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 2016 can be directed to the individuals listed below:

For Canola and Sunflowers please contact Anastasia Kubinec at (204) 750-2717 or e-mail anastasia.kubinec@gov.mb.ca.

For Grain Corn, please contact Pam de Rocquigny at (204) 750-1584 or e-mail pamela.derocquigny@gov.mb.ca

For Soybeans 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 Craig Linde at (204) 841-4712 or e-mail craig.linde@gov.mb.ca

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Cereal Crops

Variety Description Key

The grey box has been placed at the bottom of each table and displays the Grand Mean for both Yield (bu/acre) and Protein (%) and the corresponding LSD value ($p < 0.05$).

Except for the long term average yield and protein data, variety description information was obtained from the variety registration trials. For Relative Maturity, please keep in mind the actual number of days to reach maturity will depend on local climactic conditions and to some extent on management practices.

Long term yield data is from MCVET plots harvested from 2000 to 2016, while protein is from 2002 to 2016. Actual protein will depend on seasonal growing conditions and fertility levels.

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

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

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

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

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

Key to 2016 Yield and 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 2017

Variety	Type	Code	Breeder	Distributor	Seed Availability
AAC Connect [®]	Malting - 2 Row	TR12225	AAFC - Brandon	CANTERRA SEEDS	2018
CDC Fraser [®]	Malting - 2 Row	TR12135	Crop Development Centre	SeCan	2019
Claymore [®]	Food and Feed - 2 Row	TR12733	Highland Specialty Grains	CPS Canada Inc.	—
Oreana [®]	Food and Feed - 2 Row	TR12735	Highland Specialty Grains	CPS Canada Inc.	—
CDC Ascent [®]	Hullless - 2 Row	HB13324	Crop Development Centre	SeCan	2018

Varieties supported for registration by the Prairie Recommending Committee for Oat & Barley (PRCOB)

Malting - 2 Row	TR10214	AAFC - Brandon
Malting - 2 Row	TR13606	Alberta Agriculture and Forestry
Malting - 2 Row	TR13609 [®]	Alberta Agriculture and Forestry
Malting - 2 Row	TR14928	Syngenta Canada Inc.
Food and Feed - 2 Row	TR11698	Alberta Agriculture and Forestry
Food and Feed - 2 Row	TR13740 [®]	Highland Specialty Grains

Comments:

Seed of the new variety **Canmore[®]** will be commercially available for seeding in Spring 2017. **Canmore[®]** is being evaluated for use in value added end use markets.

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 **"2017/18 Recommended Malting Barley Varieties"** on page 29. The category of **"Malting: Other"** includes varieties not currently recommended by the CMBTC but markets may exist.

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

The hullless varieties **CDC Clear[®]** and **Taylor[®]** are malting types.

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.


Forage yields of some varieties are listed in the Forage Crops section of Seed Manitoba 2017.

High Value

Faller & Prosper wheat

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

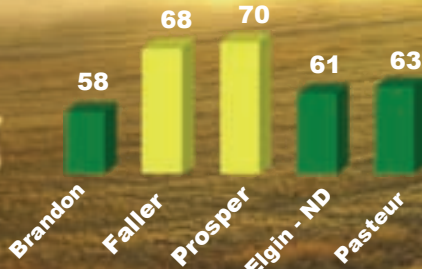
Walt Smith - Seed Depot (204) 825-2000	Jeffries Seed Service (204) 827-2102
Bergen Seed Farm (204) 736-2278	LD Seeds (204) 324-5798
Boissevain Select Seeds (204) 534-6846	MB Seeds Ltd. (204) 746-4652
Clearview Acres Ltd. (204) 748-2666	Miller Agritec (204) 267-2363
Court Seeds (204) 386-2354	Nickel Bros. (204) 773-6734
Dauphin Plains Seeds Ltd. (204) 638-7800	Parent Bros. Inc. (204) 737-3000
Derrick Beischer (204) 564-2117	Pitura Seed Service Ltd. (204) 736-2849
Durand Seeds Inc. (204) 248-2268	R-Way Ag Ltd. (866) 398-9643
Ellis Farm Supplies Ltd. (204) 824-2290	Red River Seeds Ltd. (204) 746-4779
Ens Quality Seed (204) 325-4658	Redsper Enterprises Ltd. (204) 328-5346
Fisher Seeds (204) 622-8800	RJP Seed Ltd. (204) 745-3304
Foster Ag Services Inc. (204) 364-2358	Rutherford Farms Ltd. (204) 467-5613
Friesen Seeds Ltd. (204) 746-8325	Seine River Seed Farm Ltd. (204) 355-4495
Gerrard Family Seeds (204) 365-0321	Triple "S" Seed Ltd. (204) 546-2590
Hulme Agra Products Inc. (204) 685-2627	Unger Seed Farm Ltd. (204) 467-8630
J.S. Henry & Son Ltd. (204) 566-2422	Wheat City Seeds Ltd. (204) 727-3337
James Farms Ltd. (204) 222-8785	Wilson Seeds Ltd. (204) 246-2119
Janzen Seeds (204) 829-7749	Zeghers Seed Farm (204) 526-2145



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**

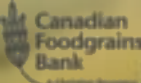
Yield MB 2016



Variety	Yield (bushels/acre)
Brandon	58
Faller	68
Prosper	70
Elgin - ND	61
Pasteur	63

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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:							Fusarium ³ Head Blight		
								Lodging	Loose Smut	Surface -borne Smut	Root Rot	Netted Net Blotch	Spotted Net Blotch	Spot Blotch		Stem ² Rust	
Malting: Acceptance - Recommended																	
AAC Synergy (2)☉	32	108	12.1	0	-3	-0.4	R	G	S	I	I	MR	R	R	MR	MS	
AC Metcalfe (2)	165	94	12.8	0	0	0	R	F	R	I	I	S	I	I	MR	I	
Bentley (2)☉	41	100	12.3	0	5	-0.8	R	G	MS	MR	I	MS	R	I	MR	MS	
CDC Copeland (2)☉	61	95	12.5	0	5	-0.5	R	F	MS	I	I	I	I	S	MR	I	
CDC Kindersley (2)☉	33	100	12.6	-1	-3	0	R	G	S	R	I	MS	MR	I	MR	I	
CDC Polarstar (2)☉	20	95	12.7	-1	0	-0.6	R	F	S	R	MS	S	MR	MS	S	MR	
Celebration (6W)☉	35	101	13.3	-1	5	0	S	G	R	R	MS	S	MR	MR	I	MS	
LEGACY (6W)	36	102	13.0	-2	8	0	S	F	I	MR	MR	S	MR	MR	MR	MS	
Newdale (2)☉	61	105	12.6	0	-3	-0.5	R	F	S	MR	MR	I	MR	I	MR	I	
Tradition (6W)	59	102	12.9	2	10	0.8	S	F	S	MR	MR	S	I	MR	MR	S	
Malting: Other																	
AAC Connect (2)☉	7	104	12.2	0	-3	-0.5	R	G	S	R	MS	I	MR	MR	MR	MR	
CDC Bow (2)☉	30	100	11.9	1	3	0.5	R	G	S	I	MS	S	MR	I	MR	MS	
CDC Fraser (2)☉	18	105	12.0	1	0	-0.7	R	G	R	MR	MS	MR	MR	MR	MR	I	
CDC Meredith (2)☉	42	100	12.4	2	-3	-2.1	R	F	R	MR	I	MS	R	MS	MR	I	
CDC PlatinumStar (2)☉	18	95	12.1	0	3	-0.5	R	F	S	R	S	I	MR	S	I	MR	
Cerveza (2)☉	37	107	12.2	1	-5	-1.4	R	F	R	R	I	MS	MR	R	MR	I	
Lacey (6W)	36	102	13.1	1	5	-0.7	S	G	I	MR	MR	S	I	MR	MR	S	
Major (2)☉	35	105	12.4	0	-3	-0.7	R	G	R	MR	MS	I	MR	MR	MR	I	
Merit 57 (2)☉	39	100	12.4	3	-3	-1.9	R	F	S	I	MR	MS	R	MS	I	MS	
Stellar-ND (6W)☉	32	97	12.7	-2	5	0	R	G	MR	R	MS	S	I	MR	I	I	
Food and Feed																	
AC Ranger (6F)	38	105	12.5	1	-8	0.1	S	G	MS	I	MR	I	MR	MR	MR	S	
Amisk (6)☉	30	111	12.6	1	0	-2.3	SS	VG	S	MS	MS	I	MR	MR	MR	S	
Brahma (2)☉	36	105	12.3	0	-5	0.5	R	G	MS	R	MR	S	I	S	MR	I	
Breton (6F)☉	30	101	12.3	0	-5	0.8	S	G	MS	MR	I	I	MR	MR	MR	S	
Canmore (2)☉	31	104	12.4	1	0	0.7	R	G	R	R	I	MS	MR	I	MS	I	
CDC Austenson (2)☉	42	111	12.1	1	0	0.5	R	G	S	R	I	MS	R	MR	I	I	
CDC Coalition (2)☉	39	101	12.3	1	5	0.8	R	VG	R	MR	I	S	MR	I	MR	I	
CDC Cowboy (2F)☉	50	93	13.1	1	15	1.3	R	F	MS	MR	I	I	MR	I	MR	MR	
CDC Helgason (2)☉	33	100	12.3	-1	0	0.8	R	G	R	MR	I	MR	MR	I	I	MS	
CDC Maverick (2F)☉	29	92	13.3	1	10	5.4	S	F	S	R	I	I	MR	I	MR	MR	
CDC Mindon (2)☉	56	93	12.8	1	-3	0.3	R	G	R	R	—	S	MR	I	I	MR	
CDC YORKTON (6W)	22	106	12.7	0	13	-3	S	G	MS	MR	MR	I	MR	MR	MR	S	
Champion (2)☉	44	108	12.3	0	0	0.8	R	G	S	R	—	S	I	MS	I	I	
Chigwell (6)☉	41	99	12.3	0	0	-1.6	S	G	MS	R	S	I	MR	MR	S	S	
Claymore (2)☉	30	110	12.0	0	0	-0.2	R	G	S	R	I	S	I	I	MR	I	
CONLON (2)☉	87	91	12.7	-1	-3	0.8	S	G	I	I	I	I	MR	S	MR	MR	
Desperado (6F)☉	44	103	12.6	1	5	2.5	S	G	MS	R	MR	S	MR	MR	MR	S	
Gadsby (2)☉	29	97	12.8	0	8	0.1	R	F	R	R	I	MS	MR	S	MR	I	
Muskwa (6)☉	31	102	12.6	0	-13	1.3	S	G	MS	R	MS	MS	MR	I	MR	S	
Oreana (2)☉	30	105	11.8	2	-13	0.2	R	G	S	R	I	S	MR	I	I	S	
Sundre (6)☉	5	90	12.5	—	—	—	S	G	MS	R	MS	MS	I	I	I	S	
Hulless																	
CDC Ascent (2)☉	7	94	13.5	2	-3	8	R	G	MR	MR	I	S	MR	I	I	MR	
CDC Carter (2)☉	35	89	13.2	1	0	8	R	F	R	R	S	I	MR	I	I	I	
CDC Clear (2)☉	29	94	12.5	2	5	9	R	F	R	R	I	MS	R	I	MR	MR	
Taylor (2)☉	28	79	12.9	0	0	8	R	G	R	I	MS	MS	MR	I	MR	MR	
Varieties supported for registration by the PRCOB																	
Malting: Other																	
TR10214 (2)	36	103	12.5	1	3	-0.4	R	F	S	I	S	I	R	I	MR	MR	
TR13606 (2)	7	94	12.6	0	0	-0.3	R	VG	R	R	—	I	MR	I	S	I	
TR13609 (2)☉	7	93	12.5	2	5	-0.4	R	G	R	R	—	I	MR	I	S	MR	
TR14928 (2)	7	98	12.7	1	-13	-0.3	—	VG	S	R	—	MS	MS	MS	S	MS	
Food and Feed																	
TR13740 (2)☉	18	104	12.2	0	-5	0.7	R	G	MR	MR	MR	S	I	MS	MR	I	
GRAND MEAN																	
		100	12.7														
LSD (0.05)		4	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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BARLEY (continued)

Yield Comparisons

Variety	2016 Yield (bu/acre)											
	Arborg	Boissevain	Dauphin	Hamiota	Melita	Neepawa	Roblin	Rosebank	Souris	Stonewall	St. Adolphe	Thornhill
Malting												
AAC Connect ^⓪	128	97	100	104	—	—	128	—	—	—	117	111
AC Metcalfe	130	96	85	94	74	128	88	117	125	155	98	85
CDC Bow ^⓪	138	113	96	108	83	139	115	130	151	154	124	95
CDC Fraser ^⓪	134	118	101	108	80	132	131	137	146	169	107	113
Food and Feed												
Claymore ^⓪	137	121	99	111	79	165	107	144	140	186	122	105
Oreana ^⓪	130	101	99	117	93	136	110	132	119	168	102	91
Hulless												
CDC Ascent ^⓪	128	93	93	97	—	—	100	—	—	—	104	91
Varieties supported for registration by the PRCOB												
Malting												
TR10214	137	104	95	105	—	—	102	—	—	—	117	93
TR13606	129	92	92	94	—	—	89	—	—	—	99	101
TR13609 ^⓪	127	86	94	98	—	—	85	—	—	—	106	86
TR14928	130	96	95	112	—	—	90	—	—	—	113	88
Food and Feed												
TR13740	129	104	97	109	94	145	108	131	150	169	113	102
SITE GRAND MEAN (bu/acre)	131	102	95	105	84	141	111	132	138	165	110	97
CV %	4.4	6.4	4.1	6.0	8.6	7.5	5.0	2.8	10.8	5.2	6.1	8.3
LSD (bu/acre)	—	11	7	11	13	19	9	7	—	15	11	14
Sign Diff	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Seeding Date	10-May	05-May	06-May	07-May	04-May	16-May	18-May	6-May	10-May	03-May	02-May	07-May
Harvest Date	18-Aug	30-Aug	02-Sep	31-Aug	11-Aug	15-Sep	22-Aug	8-Aug	19-Sep	09-Aug	26-Aug	22-Aug

Protein Comparisons

Variety	2016 Protein (%)											
	Arborg	Boissevain	Dauphin	Hamiota	Melita	Neepawa	Roblin	Rosebank	Souris	Stonewall	St. Adolphe	Thornhill
Malting												
AAC Connect ^⓪	10.5	11.6	12.5	11.8	—	—	11.2	—	—	—	13.0	14.6
AC Metcalfe	11.0	11.9	12.5	12.5	11.1	10.7	12.5	12.1	13.4	11.8	14.0	15.9
CDC Bow ^⓪	11.0	11.4	11.6	11.3	10.4	11.1	11.2	11.1	12.7	10.7	12.6	13.6
CDC Fraser ^⓪	10.6	11.5	12.1	11.2	10.2	11.4	10.5	11.6	12.9	10.5	13.2	14.1
Food and Feed												
Claymore ^⓪	10.4	11.2	11.4	11.1	10.4	10.8	11.3	11.6	12.8	10.6	13.2	14.3
Oreana ^⓪	10.9	10.8	11.6	11.0	10.0	10.1	11.1	11.0	12.8	10.5	13.1	14.4
Hulless												
CDC Ascent ^⓪	11.4	12.7	14.1	12.5	—	—	12.4	—	—	—	15.6	17.1
Varieties supported for registration by the PRCOB												
Malting												
TR13606	11.1	11.6	12.2	11.1	—	—	12.5	—	—	—	14.0	15.2
TR13609 ^⓪	11.1	12.0	11.7	11.3	—	—	11.9	—	—	—	13.8	15.3
TR10214	10.7	11.9	12.2	12.0	—	—	12.1	—	—	—	13.4	16.1
TR14928	11.1	12.5	12.6	11.4	—	—	11.8	—	—	—	13.6	15.9
Food and Feed												
TR13740	10.6	12.1	12.4	11.5	10.7	10.1	11.2	11.5	13.1	10.9	13.8	13.7
SITE GRAND MEAN (%)	10.9	11.8	12.2	11.6	10.5	10.5	11.6	11.5	13.0	10.8	13.6	15.0

2017-18 Recommended Malting Barley Varieties

The following varieties of two-row and six-row malting barley are registered with the Canadian Food Inspection Agency (CFIA) based on good agronomic properties and malting quality criteria. These varieties have been pilot scale tested by the CMBTC and exhibit good malting and brewing characteristics. In addition to market opportunities, seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators or malting companies. Visit the CMBTC website at www.cmbtc.com for detailed pilot malting and brewing data.

Two-Row Varieties

VARIETY	MARKET COMMENTS
CDC Copeland ₁	Established Demand
AC Metcalfe ₁	Established Demand
Bentley ₂	Limited Demand
Newdale ₃	Limited Demand
CDC PolarStar ₂	Limited Demand
AAC Synergy ₄	Growing Demand
CDC Kindersley ₁	Under Commercial Market Development

The CMBTC and its members recommend:

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

The following companies have pedigreed seed distribution rights for those varieties that are footnoted:

1 – SeCan	2 – CANTERRA SEEDS
3 – FP Genetics	4 – Syngenta

Six-Row Varieties

VARIETY	MARKET COMMENTS
Legacy ₃	Limited Demand
Tradition ₃	Limited Demand
Celebration ₂	Limited Demand

For Bentley or Newdale contracting opportunities contact Canada Malting Company. For CDC PolarStar (and CDC PlatinumStar) contracting opportunities contact Prairie Malt-Cargill.

New Varieties in Development

The following varieties have been registered with CFIA and are undergoing seed propagation. Both varieties have been pilot scale tested at the CMBTC and exhibit good quality characteristics suitable for all malt and adjunct brewing styles.

VARIETY	COMMENTS
AAC Connect ₂	Two-Row - Undergoing seed propagation
CDC Bow ₁	Two-Row - Undergoing seed propagation

Questions? Call your selector, seed company, grain handling company or contact the CMBTC.

cmbtc.com



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Dr. Yueshu Li - Director of Malting & Brewing Operations

Tel: 204-984-0561 E-mail: yli@cmbtc.com

OATS

New for 2017

Variety	Code	Breeder	Distributor	Seed Availability
Kyron [®]	CFA1207	Lantmännen SW Seed AB	La Coop Federee	—
Pomona [®]	CFA1220	University of Minnesota	La Coop Federee	—

Comments:

Seed of the new variety **CDC Ruffian**[®] will be commercially available for seeding in Spring 2017.

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

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

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

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

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

The variety **Stride**[®] appears to have improved resistance to Fusarium Head Blight, based on lower DON accumulation, in comparison with other recently registered varieties.

The variety **CDC Haymaker**[®] is a forage oat variety. Forage yields of some oat varieties are listed in the Forage Crops section.

Variety Descriptions

Variety ¹	Years Tested	Yield bu/acre	Maturity +/- 96 days	Height +/- 84 cm	Test Wt +/- 39.3 lb/bu	Hull %	Hull Colour	Resistance Level:				
								Lodging	Smut	Crown Rust	Stem ² Rust	BYD ³
AAC Justice [®]	29	146	0	5	0.5	22.8	White	G	R	I	I	I
AAC Nicolas [®]	14	142	-3	15	0.5	24.2	White	G	R	MR	S	—
AC Morgan	36	137	-1	15	-1.0	25.2	White	G	I	S	S	MS
CDC Big Brown [®]	42	136	-1	3	0	20.4	Tan	G	R	R	MS	MS
CDC Dancer [®]	62	130	-3	13	0.5	19.6	White	G	R	I	I	MS
CDC Haymaker (F) [®]	29	119	2	25	-1.0	22.0	White	G	MR	S	S	—
CDC Minstrel [®]	40	139	0	8	-0.2	22.3	White	VG	R	MS	I	MS
CDC Morrison [®]	5	130	-2	-3	-1.0	24.4	White	VG	R	MS	I	I
CDC Norseman [®]	23	144	-3	5	-1.0	20.5	White	G	MS	MR	S	I
CDC ProFi	39	124	-3	3	-1.0	20.0	White	G	MS	S	I	MS
CDC Ruffian [®]	31	147	0	0	-0.8	20.5	White	G	R	I	S	S
CDC Seabiscuit [®]	34	136	0	15	-0.5	20.1	White	G	MR	S	I	S
CS Camden [®]	25	153	2	0	-1.5	21.1	White	VG	I	MS	S	S
Furlong [®]	95	129	-1	20	0.5	20.3	Tan	G	R	S	I	MR
HiFi [®]	64	139	-3	15	0	24.7	White	G	MS	I	I	MR
Jordan [®]	52	139	2	8	-2.0	23.6	White	VG	R	I	I	MR
Leggett [®]	136	137	0	0	0	23.0	White	G	R	R	I	MS
Pinnacle [®]	68	147	3	10	-1.2	23.7	White	G	R	S	I	MS
Ronald [®]	84	129	0	3	0	22.1	White	VG	R	S	I	MR
Souris [®]	60	136	-4	0	0.5	20.9	White	G	R	MS	MR	MS
Stainless	25	132	-3	13	-0.5	22.4	Light Grey	G	R	I	MR	MR
Stride [®]	39	136	-2	13	0.6	23.7	White	VG	R	R	I	I
Summit [®]	43	142	0	-3	0.5	20.8	White	G	R	I	I	I
Triactor [®]	43	155	-1	8	-1.5	22.1	White	VG	I	MR	S	MS
Varieties being tested for adaptability in Western Canada												
Akina [®]	14	152	-4	0	0.8	25.6	White	G	R	R	—	—
Bia [®]	17	143	-4	10	-0.2	25.8	White	G	—	S	—	—
Bradley [®]	30	135	2	8	—	21.7	White	G	R	MS	MS	MS
Kara [®]	14	152	-3	-3	1.6	26.3	White	G	MR	MR	—	—
Kyron [®]	6	147	-3	3	0.9	26.6	White	G	—	—	—	—
Nice	17	140	-3	10	1	25.4	White	G	—	MS	—	—
Pomona [®]	6	136	-1	5	2.2	26.1	White	F	—	—	—	—
GRAND MEAN (bu/acre)		139										
LSD (bu/acre) (0.05)		8										

1 The letter 'F' indicates a forage type.

2 All varieties are susceptible to new 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	2016 Yield (bu/acre)								
	Arborg	Boissevain	Brandon	Dauphin	Hamiota	Melita	St. Adolphe	Stonewall	Thornhill
AAC Nicolas [Ⓢ]	182	112	151	128	140	159	197	181	145
CDC Norseman [Ⓢ]	163	132	124	140	140	152	137	187	183
CS Camden [Ⓢ]	169	141	149	138	159	148	197	176	174
Leggett [Ⓢ]	156	128	143	130	151	135	148	170	127
Varieties being tested for adaptability in Western Canada									
Akina [Ⓢ]	168	134	179	118	161	128	222	184	186
Kara [Ⓢ]	175	147	166	140	150	141	189	175	177
Kyron [Ⓢ]	172	125	—	139	155	—	197	—	162
Pomona [Ⓢ]	166	134	—	128	141	—	165	—	127
SITE GRAND MEAN (bu/acre)	169	132	152	132	150	144	182	179	160
CV %	3.2	5.1	7.3	6.6	4.6	8.8	7.9	5.5	5.0
LSD (bu/acre)	9	12	20	—	12	—	25	—	14
Sign Diff	Yes	Yes	Yes	No	Yes	No	Yes	No	Yes
Seeding Date	10-May	05-May	19-May	19-May	07-May	04-May	02-May	03-May	07-May
Harvest Date	18-Aug	30-Aug	02-Sep	17-Sep	31-Aug	22-Aug	01-Sep	22-Aug	22-Aug



- ✓ Bankable Quality
- ✓ Excellent Yields
- ✓ Earliest Maturity
- ✓ Best ratings for Fusarium
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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		

SPRING WHEAT

New for 2017

Variety	Class	Code	Breeder	Distributor	Seed Availability
AAC Redberry [Ⓢ]	CWRS	BW966	AAFC - Swift Current	Alliance Seed	—
AAC Viewfield [Ⓢ]	CWRS	BW965	AAFC - Swift Current	FP Genetics Inc.	2018
CDC Landmark VB [Ⓢ]	CWRS	BW971	Crop Development Centre	FP Genetics Inc.	2018
SY Slate [Ⓢ]	CWRS	BW496	Syngenta Canada Inc.	Syngenta Canada Inc.	2018
SY479 VB [Ⓢ]	CWRS	BW479	Syngenta Canada Inc.	Alliance Seed	—
SY637 [Ⓢ]	CWRS	PT637	Syngenta Canada Inc.	Syngenta Canada Inc.	2018
SY Rowyn [Ⓢ]	CPSR	HY2013	Syngenta Canada Inc.	Alliance Seed	—
AAC Concord [Ⓢ]	CNHR	BW963	AAFC - Swift Current	CANTERRA SEEDS	2018
AAC Awesome [Ⓢ]	CWSP	GP151	AAFC - Lethbridge	SeCan	2019

Class designation pending by the Canadian Grain Commission (CGC)

CDC Hughes VB [Ⓢ]	—	PT588	Crop Development Centre	CPS Canada Inc.	—
CDC Terrain [Ⓢ]	—	HY537	Crop Development Centre	FP Genetics Inc.	2019
CDC Throttle [Ⓢ]	—	GP131	Crop Development Centre	Crop Development Centre	—
Charing	—	2014-8	KWS-UK Research and Breeding Centre	SeCan	2018
Sparrow VB	—	CBPT W142; 3702-5044	KWS-UK Research and Breeding Centre	SeCan	2018

Varieties supported for registration by the Prairie Recommending Committee for Wheat, Rye & Triticale (PRCWR)

KWS Alderon	—	3702-4044; 2014-4	KWS-UK Research and Breeding Centre
		BW488	Crop Development Centre
		BW968 [Ⓢ]	AAFC - Swift Current
		BW1011 [Ⓢ]	Syngenta Canada Inc.
		BW1013	AAFC - Brandon
		BW1016	AAFC - Brandon
		PT250 [Ⓢ]	AAFC - Swift Current

Comments:

Seed of the new Canada Western Red Spring (CWRS) varieties **AAC Cameron VB[Ⓢ]**, **AAC Jatharia VB[Ⓢ]**, **AAC Prevail VB[Ⓢ]**, **CDC Bradwell[Ⓢ]**, and **SY479 VB[Ⓢ]**, Canada Prairie Spring Red (CPSR) variety **SY Rowyn[Ⓢ]**, Canada Northern Hard Red (CNHR) variety **AAC Concord[Ⓢ]**, and Canada Western Special Purpose (CWSP) variety **SY087[Ⓢ]** will be commercially available for seeding in Spring 2017.

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

The varieties **CDC Hughes VB[Ⓢ]**, **CDC Landmark VB[Ⓢ]** and **BW488** have solid stem with resistance to 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 postmaturity 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).

Two new wheat classes, the **Canada Northern Hard Red (CNHR)** and **Canada Western Special Purpose (CWSP)**, came into effect August 1, 2016.

All varieties formerly belonging to the now eliminated Canada Western General Purpose class were moved to the new CWSP class, and varieties belonging to the former Canada Western Interim Wheat (CWIW) class have moved to the new CNHR class.

At Seed Manitoba 2017 publication deadlines, the Canadian Grain Commission (CGC) has stated effective August 1, 2018, twenty-five (25) spring wheat varieties from the Canada Western Red Spring (CWRS) and four (4) varieties from the Canada Prairie Spring Red (CPSR) class will be designated to the Canada Northern Hard Red (CNHR) class. Varieties published in Seed Manitoba 2017 that will be impacted include the CWRS varieties **5603HR[Ⓢ]**, **Alvena[Ⓢ]**, **Harvest[Ⓢ]**, **KANE[Ⓢ]**, **Unity VB[Ⓢ]** and the CPSR variety **Conquer VB[Ⓢ]**.

At Seed Manitoba 2017 publication deadlines, the Canadian Grain Commission (CGC) has stated effective August 1, 2019, the variety **AC Crystal** of the CPSR class will be moved to the CNHR class.

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, 2018 and August 1, 2019.

For complete and up-to-date information on the **Canadian Wheat Class Modernization** initiative, visit CGC's website at <https://www.grainscanada.gc.ca/consultations/2015/classes-en.htm>.

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

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SPRING WHEAT (continued)

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awned	Resistance Level:									
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust	Fusarium ² Head Blight	
Canada Western Red Spring																
5604HR CL☼	40	61	14.5	-1	10	Y	G	G	MS	I	MS	R	R	—	I	
5605HR CL☼	32	62	14.7	1	10	Y	VG	—	R	MR	MS	MS	R	MR	MR	
AAC Bailey☼	28	50	14.9	-1	13	N	G	G	MS	MR	I	R	R	—	I	
AAC Brandon☼	46	65	14.2	2	0	Y	VG	P	MR	S	I	R	R	MR	MR	
AAC Cameron VB☼	33	69	13.9	1	13	Y	G	F	S	R	I	MR	MR	S	I	
AAC Connery☼	30	57	15.1	1	3	N	VG	G	MR	I	I	R	MR	R	MR	
AAC Elie☼	43	64	14.3	2	-3	Y	VG	F	I	I	I	R	R	MR	I	
AAC Jatharia VB☼	33	69	14.4	1	13	Y	G	G	S	MS	I	I	R	I	I	
AAC Prevail VB☼	44	62	14.2	1	18	N	G	VG	S	S	MS	MR	R	R	I	
AAC Redberry☼	19	63	14.5	0	8	Y	G	—	R	I	MS	R	R	R	I	
AAC Redwater☼	43	60	14.5	-2	8	Y	G	VG	MS	I	MS	R	R	MR	I	
AAC Viewfield☼	19	60	14.9	3	-5	Y	VG	—	S	MR	I	R	MR	R	I	
AAC W1876☼	32	57	15.2	3	3	Y	VG	F	I	I	MS	MR	R	I	I	
AC Barrie	165	58	14.5	0	13	N	G	G	MR	I	MS	MR	MS	S	I	
AC Domain	22	56	15.2	-2	10	N	VG	VG	R	I	S	R	I	MR	MS	
Alvena☼	30	60	14.7	-2	13	N	G	P	MR	I	—	MR	I	I	MS	
Carberry☼	84	62	14.6	2	0	Y	VG	F	MR	R	MS	MR	R	MR	MR	
Cardale☼	28	63	14.5	2	3	Y	VG	G	I	MR	MS	R	R	S	MR	
CDC Abound☼	43	59	14.4	2	3	Y	G	F	I	I	MS	R	MS	MS	S	
CDC Bradwell☼	33	62	14.4	3	5	Y	VG	—	MR	R	MS	MR	R	MS	I	
CDC Go	24	63	14.3	-1	8	Y	G	P	MS	I	S	R	I	MR	MS	
CDC Kernen☼	39	60	14.7	1	15	Y	G	P	R	I	MS	MR	MR	I	I	
CDC Landmark VB☼	7	63	14.4	0	3	Y	VG	—	MR	MS	I	R	MS	MR	I	
CDC Plentiful☼	42	60	14.6	-3	8	N	VG	P	R	I	I	R	R	MR	MR	
CDC Stanley☼	34	62	14.5	0	10	N	G	G	MR	S	I	R	MR	I	MS	
CDC Thrive☼	37	57	14.6	-1	13	N	G	F	MR	I	I	MR	I	I	MS	
CDC Titanium VB☼	32	60	15.0	2	13	Y	G	F	MS	I	MS	I	R	R	MR	
CDC Utmost VB☼	38	63	14.6	-1	10	N	G	G	MS	S	I	MR	R	I	MS	
CDC VR Morris☼	42	63	14.7	0	13	N	G	P	I	I	I	MR	R	—	MR	
Coleman	32	56	14.2	2	18	Y	F	P	S	S	MS	MR	R	MR	MR	
Fieldstar VB☼	43	64	14.6	0	15	Y	F	VG	I	I	I	MR	R	MS	I	
Glenn☼	147	62	14.4	2	8	Y	VG	F	I	I	I	R	R	MR	I	
Goodeve VB☼	53	62	14.8	-2	10	N	VG	G	MR	S	MS	MR	MR	I	S	
Harvest☼	61	61	14.3	-1	8	N	VG	VG	MR	S	MS	R	MR	MR	S	
Infinity☼	37	61	15.1	-2	13	N	G	G	MR	MR	MS	MR	MR	MS	S	
KANE☼	92	61	14.5	1	8	Y	G	VG	MS	I	I	R	R	MR	I	
Muchmore☼	40	63	14.2	2	-3	Y	VG	G	MR	R	MS	R	R	MR	MS	
Shaw VB☼	40	63	14.2	0	18	N	G	G	S	MR	MS	R	MR	I	MS	
Stettler☼	40	59	14.8	1	8	Y	G	G	R	MR	MS	MR	MS	MR	MS	
SY433☼	38	56	14.6	2	15	Y	G	VG	I	S	I	R	R	—	MR	
SY479 VB☼	33	58	15.2	1	13	Y	VG	—	MS	R	MS	I	R	S	I	
SY637☼	26	56	15.0	3	18	Y	VG	—	MS	MR	I	MR	R	MR	MR	
SY Slate☼	19	64	15.1	1	10	Y	G	—	MS	S	MS	MR	R	MR	I	
Thorsby☼	30	58	14.9	-2	13	N	VG	F	I	S	MS	MR	R	R	I	
Unity VB☼	53	65	14.2	0	13	Y	F	VG	MS	R	I	MR	R	MS	I	
Vesper VB☼	40	65	14.5	0	10	Y	F	F	I	S	I	MR	R	S	I	
Waskada☼	43	62	14.6	1	18	Y	F	VG	MR	R	MS	R	I	MS	MR	
WR859 CL☼	42	62	14.5	0	5	Y	G	G	R	R	MS	MR	R	I	MR	
Canada Prairie Spring Red																
5700PR☼	33	64	12.8	3	-3	Y	VG	F	MS	R	MS	R	I	MS	MS	
5702PR☼	30	66	12.8	1	3	Y	VG	P	MS	I	I	I	MR	MS	MS	
AAC Crusader☼	16	69	13.4	0	-3	Y	G	VP	MR	I	MS	R	R	MR	I	
AAC Foray VB☼	30	72	13.1	1	5	Y	VG	P	MS	I	MS	MR	R	I	I	
AAC Penhold☼	43	70	13.9	1	-10	Y	VG	VG	I	R	I	MR	R	MR	MR	
AAC Ryley☼	30	66	13.0	1	3	Y	G	G	I	R	MS	R	R	S	MS	
AAC Tenacious VB☼	31	59	13.0	1	20	Y	F	VG	R	MR	MS	MR	R	R	R	
Conquer VB☼	40	64	13.0	2	10	Y	F	P	MS	R	I	R	MR	MR	MS	
Enchant VB☼	29	68	13.3	1	8	Y	G	VG	MR	R	MS	MR	R	S	S	
SY985☼	44	66	13.4	2	-3	Y	G	P	R	MR	I	R	R	—	I	
SY995☼	31	67	13.1	2	0	Y	VG	P	S	MR	MS	MR	R	MR	MS	
SY Rowyn☼	6	73	13.2	1	-5	Y	VG	—	I	S	I	R	R	MR	MR	

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 81 cm	Spike Awned	Resistance Level:									
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust	Fusarium ² Head Blight	
Canada Northern Hard Red																
AAC Concord [Ⓞ]	7	59	14.7	2	15	Y	G	—	I	MR	I	R	R	R	MS	
Elgin ND [Ⓞ]	27	73	14.0	2	10	Y	G	—	—	S	I	I	R	MR	I	
Faller	31	80	13.0	1	3	Y	G	—	—	I	MS	I	MR	MS	I	
Prosper [Ⓞ]	30	79	13.0	1	3	Y	G	—	—	I	I	MR	MR	S	I	
Canada Western Special Purpose																
AAC Awesome [Ⓞ]	6	80	11.4	4	10	Y	G	—	I	I	I	R	MR	R	I	
AAC Innova [Ⓞ]	42	72	11.6	4	5	Y	F	VP	S	S	I	MR	R	R	S	
AAC NRG097 [Ⓞ]	31	68	12.4	5	3	y	VG	F	I	R	I	MR	R	S	I	
AAC Proclaim [Ⓞ]	30	68	12.5	3	10	Y	F	G	MR	S	I	MR	R	MS	MR	
CDC NRG003 [Ⓞ]	40	69	13.0	1	3	Y	G	G	MS	R	MS	R	MS	—	S	
Minnedosa	40	67	12.9	-1	3	Y	G	G	I	R	MS	MR	R	—	MS	
NRG010 [Ⓞ]	40	71	12.6	4	5	Y	VG	F	MS	R	I	R	R	R	MS	
Pasteur	40	73	12.9	7	5	N	VG	G	MS	S	I	MR	R	MR	I	
SY087 [Ⓞ]	31	70	13.8	2	5	Y	VG	F	MS	MR	I	MR	MR	MR	MR	
WFT603	32	70	12.5	5	10	Y	G	F	I	R	I	I	I	MR	MR	
Canada Western Hard White Spring																
AAC Iceberg [Ⓞ]	42	57	13.9	0	3	Y	G	P	MS	MR	MS	R	R	I	I	
AAC Whitefox [Ⓞ]	32	61	13.8	-2	8	N	G	F	MS	MS	MS	MR	MR	MS	I	
CDC Whitewood	32	53	14.2	0	3	Y	VG	G	S	S	MS	MR	MR	I	I	
Snowbird [Ⓞ]	93	60	13.8	0	13	N	G	G	MR	MS	MS	MR	I	MS	I	
Snowstar [Ⓞ]	37	63	13.5	-1	3	N	VG	G	MS	S	MS	R	MR	MS	MS	
Whitehawk [Ⓞ]	33	55	13.7	-2	13	N	VG	G	I	MS	MS	I	R	MS	MS	
Canada Western Soft White Spring																
AAC Chiffon [Ⓞ]	30	77	11.5	4	10	Y	F	VP	S	S	—	S	I	MR	S	
AAC Indus [Ⓞ]	19	70	11.0	6	5	Y	VG	P	S	MS	MS	S	I	R	MS	
AC Andrew	30	72	10.9	4	3	Y	VG	P	S	S	—	MR	MS	I	I	
Sadash [Ⓞ]	35	71	10.7	4	8	Y	VG	P	I	S	—	MR	I	R	S	
Canada Western Extra Strong																
Burnside	52	59	14.3	-1	18	N	G	G	R	I	MS	R	R	R	S	
CDN Bison	38	65	13.7	1	8	Y	G	F	R	I	I	R	MR	—	I	
Glencross VB	41	62	14.1	0	20	N	G	F	R	I	MS	R	MR	MR	S	
Class designation pending by the Canadian Grain Commission (CGC)																
AAC Tradition	33	62	14.3	4	5	Y	G	VG	MS	MR	I	R	MR	S	I	
CDC Hughes VB [Ⓞ]	7	66	14.4	1	3	Y	VG	—	MR	MS	I	R	MR	I	I	
CDC Terrain [Ⓞ]	19	65	13.5	0	10	Y	VG	—	MR	MR	I	MR	R	R	MS	
CDC Throttle [Ⓞ]	19	75	12.6	2	5	Y	VG	—	MR	I	S	MR	MR	I	I	
Charing	6	71	12.5	9	0	N	VG	—	—	—	MR	—	MR	R	—	
Sparrow VB	6	73	12.4	8	0	N	VG	—	—	I	I	MR	R	MR	—	
Varieties supported for registration by the PRCWRT																
BW488	6	63	14.9	0	8	Y	F	—	S	S	MS	R	I	MS	I	
BW968 [Ⓞ]	6	69	14.4	2	0	Y	VG	—	MS	I	I	I	R	R	I	
BW1011 [Ⓞ]	6	64	14.1	1	8	Y	G	—	R	MS	MR	MR	R	R	MR	
BW1013	6	66	14.9	-2	8	Y	G	—	MR	S	MR	R	R	R	I	
BW1016	6	61	14.5	-2	8	Y	F	—	MS	S	I	R	R	I	MR	
PT250 [Ⓞ]	6	65	15.1	4	20	Y	G	—	MR	MR	MS	R	R	S	MR	
Alderon	6	67	12.1	9	-5	N	VG	—	—	MS	I	MR	R	MR	—	
GRAND MEAN		67	14.0													
LSD (0.05)		4	0.3													

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	2016 Yield (bu/acre)											
	Arborg	Boissevain	Brandon	Dauphin	Hamiota	Melita	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill
Canada Western Red Spring												
AAC Cameron VBⓈ	73	68	49	75	61	50	94	76	74	87	90	69
AAC ConneryⓈ	62	53	36	60	31	41	84	65	68	56	77	58
AAC Jatharia VBⓈ	68	60	42	65	64	52	89	78	81	85	83	80
AAC Prevail VBⓈ	60	51	46	71	58	47	87	74	73	71	80	64
AAC RedberryⓈ	70	60	49	62	52	48	85	70	76	67	86	74
AAC ViewfieldⓈ	73	49	44	61	42	45	86	67	50	65	85	67
AAC W1876Ⓢ	65	45	38	59	40	43	77	57	63	70	76	57
CarberryⓈ	67	48	42	59	49	46	77	70	68	73	76	74
CDC BradwellⓈ	64	58	45	65	60	50	86	70	82	79	84	68
CDC Landmark VBⓈ	72	47	—	60	55	—	—	—	—	77	—	81
GlennⓈ	66	52	39	61	46	46	75	72	73	70	82	77
SY SlateⓈ	71	54	43	63	55	46	91	74	67	79	88	68
SY479 VBⓈ	51	43	36	58	52	44	83	68	52	74	77	55
SY637Ⓢ	61	46	—	58	55	—	—	—	—	70	—	56
ThorsbyⓈ	64	51	43	61	54	42	83	66	70	66	80	64
Class designation pending by the Canadian Grain Commission (CGC)												
AAC TraditionⓈ	70	38	34	67	36	46	74	71	62	78	82	74
CDC Hughes VBⓈ	70	56	—	60	57	—	—	—	—	88	—	81
Varieties supported for registration by the PRCWRT												
BW488	73	39	—	57	57	—	—	—	—	81	—	72
BW968Ⓢ	72	58	—	73	47	—	—	—	—	81	—	82
BW1011Ⓢ	65	59	—	65	49	—	—	—	—	77	—	80
BW1013	71	52	—	71	52	—	—	—	—	84	—	74
BW1016	68	43	—	62	60	—	—	—	—	80	—	62
PT250Ⓢ	71	52	—	63	48	—	—	—	—	80	—	73
SITE GRAND MEAN (bu/acre)	67	51	42	63	51	46	84	70	69	76	82	70
CV%	4.8	7.9	8.4	5.5	6.1	4.4	7.6	7.3	6.2	4.8	4.4	5.8
LSD (bu/acre)	5	7	6	6	5	3	11	9	7	6	6	7
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	09-May	05-May	09-May	09-May	07-May	05-May	16-May	06-May	10-May	02-May	03-May	07-May
Harvest Date	18-Aug	30-Aug	22-Sep	02-Sep	31-Aug	22-Aug	15-Sep	17-Aug	19-Sep	31-Aug	22-Aug	22-Aug
Canada Western Red Spring												
GlennⓈ	70	56	43	54	51	54	82	75	74	75	80	74
Canada Prairie Spring Red												
AAC PenholdⓈ	78	53	51	60	49	60	85	81	84	79	89	82
SY RowynⓈ	86	69	—	63	57	—	—	—	—	80	—	91
Canada Northern Hard Red												
Elgin NDⓈ	80	60	56	68	58	55	90	84	83	85	89	86
Faller	93	77	61	69	70	59	107	92	101	95	100	101
ProsperⓈ	90	73	56	74	66	64	110	92	93	90	101	100
Canada Western Special Purpose												
AAC AwesomeⓈ	101	59	—	83	80	—	—	—	—	98	—	77
AAC InnovaⓈ	95	33	64	80	69	54	110	68	86	66	85	60
WFT603	80	53	57	66	70	60	96	66	86	72	87	69
Canada Western Soft White Spring												
AAC IndusⓈ	91	33	47	70	62	62	107	71	70	68	81	51
Class designation pending by the Canadian Grain Commission (CGC)												
CDC TerrainⓈ	76	41	52	72	64	53	88	57	66	68	84	66
CDC ThrottleⓈ	92	53	54	69	66	66	106	81	82	78	99	67
Charing	93	60	—	65	76	—	—	—	—	72	—	55
Sparrow VB	96	59	—	74	86	—	—	—	—	59	—	68
Varieties supported for registration by the PRCWRT												
Alderon	95	48	—	66	72	—	—	—	—	58	—	54
SITE GRAND MEAN (bu/acre)	89	55	54	69	68	59	98	77	82	75	90	73
CV%	4.0	6.2	5.5	9.4	6.5	9.4	4.1	6.8	5.8	4.7	4.8	7.3
LSD (bu/acre)	6	6	5	11	7	10	7	9	8	6	7	9
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	10-May	05-May	09-May	09-May	07-May	05-May	16-May	06-May	10-May	02-May	03-May	07-May
Harvest Date	18-Aug	30-Aug	22-Sep	02-Sep	31-Aug	22-Aug	15-Sep	17-Aug	19-Sep	31-Aug	22-Aug	22-Aug

Protein Comparisons

Class/Variety	2016 Protein (%)											
	Arborg	Boissevain	Brandon	Dauphin	Hamiota	Melita	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill
Canada Western Red Spring												
AAC Cameron VB ^⓪	12.2	14.4	12.6	14.5	13.6	13.0	13.7	14.5	15.5	14.5	13.6	16.2
AAC Connery ^⓪	13.4	15.8	14.6	15.5	17.0	14.6	14.3	15.5	16.6	16.1	14.4	16.1
AAC Jatharia VB ^⓪	12.8	14.4	13.6	15.2	14.7	14.1	14.5	14.9	16.1	15.2	14.4	15.8
AAC Prevail VB ^⓪	12.8	14.4	13.4	14.9	14.6	13.6	13.7	14.1	15.4	15.7	13.9	15.3
AAC Redberry ^⓪	12.5	14.3	14.1	15.5	15.2	13.5	14.9	15.4	15.9	15.0	13.8	16.3
AAC Viewfield ^⓪	12.6	15.7	14.3	15.1	16.2	14.4	15.0	16.0	17.5	16.1	14.6	17.1
AAC W1876 ^⓪	13.9	16.0	14.3	16.1	16.4	14.7	14.3	16.9	17.2	15.7	15.0	16.9
Carberry ^⓪	13.5	14.8	14.3	15.8	15.6	14.4	15.0	15.2	16.3	14.9	14.3	15.3
CDC Bradwell ^⓪	12.9	14.5	13.9	15.3	14.7	13.8	15.1	15.3	15.8	15.3	14.0	15.8
CDC Landmark VB ^⓪	—	14.2	—	15.4	14.9	—	—	—	—	15.1	—	15.5
Glenn ^⓪	13.0	14.3	13.6	15.4	14.6	13.4	15.2	14.4	15.6	14.7	13.8	15.4
SY Slate ^⓪	13.7	15.1	13.6	15.4	15.6	13.7	14.5	15.9	17.7	15.8	14.5	17.3
SY479 VB ^⓪	13.9	15.0	14.4	16.6	15.0	13.7	14.9	15.2	17.1	16.2	14.5	17.2
SY637 ^⓪	13.4	15.2	—	16.6	16.0	—	—	—	—	15.4	—	16.7
Thorsby ^⓪	13.5	15.1	13.9	16.4	15.4	14.1	15.7	15.5	16.5	15.5	14.5	16.6
Class designation pending by the Canadian Grain Commission (CGC)												
AAC Tradition ^⓪	12.5	14.3	13.9	14.4	15.0	14.1	14.9	14.6	15.8	15.0	13.9	15.4
CDC Hughes VB ^⓪	12.7	14.3	—	15.8	14.5	—	—	—	—	15.1	—	15.8
Varieties supported for registration by the PRCWRT												
BW488	12.7	15.6	—	15.6	14.8	—	—	—	—	15.2	—	17.5
BW968 ^⓪	12.7	14.3	—	15.0	16.0	—	—	—	—	15.0	—	15.4
BW1011 ^⓪	13.3	13.6	—	15.0	14.6	—	—	—	—	14.4	—	15.3
BW1013	13.1	15.0	—	15.7	15.6	—	—	—	—	15.5	—	16.5
BW1016	12.8	14.7	—	15.5	15.0	—	—	—	—	15.0	—	16.1
PT250 ^⓪	13.5	14.9	—	15.9	15.8	—	—	—	—	15.8	—	17.0
SITE GRAND MEAN (%)	13.1	14.8	13.9	15.5	15.3	13.9	14.7	15.2	16.4	15.3	14.2	16.2
Canada Western Red Spring												
Glenn ^⓪	13.4	14.2	14.4	15.5	14.1	13.6	14.7	14.6	15.5	15.1	13.5	15.2
Canada Prairie Spring Red												
AAC Penhold ^⓪	13.4	14.3	13.4	15.5	14.7	13.8	13.7	14.6	15.0	15.1	13.6	14.5
SY Rowyn ^⓪	12.7	12.6	—	14.2	13.8	—	—	—	—	14.0	—	13.8
Canada Northern Hard Red												
Elgin ND ^⓪	12.7	14.2	14.3	15.1	14.1	13.1	13.3	14.4	15.6	15.2	13.4	15.2
Faller	12.3	12.5	12.3	14.1	12.7	12.0	11.9	12.7	13.9	14.0	12.9	13.3
Prosper ^⓪	12.0	12.7	12.3	14.0	12.1	12.8	12.9	13.6	13.8	14.0	12.6	13.3
Canada Western Special Purpose												
AAC Awesome ^⓪	10.3	12.3	—	11.5	10.6	—	—	—	—	12.2	—	12.7
AAC Innova ^⓪	10.5	11.6	11.2	11.7	11.4	11.0	10.9	11.8	12.2	12.4	11.4	11.8
WFT603	11.5	12.4	11.9	12.9	12.1	12.0	11.9	13.3	13.3	13.5	12.7	13.0
Canada Western Soft White Spring												
AAC Indus ^⓪	9.3	11.2	10.7	10.4	10.8	10.8	11.0	10.8	11.7	11.6	10.0	11.6
Class designation pending by the Canadian Grain Commission (CGC)												
CDC Terrain ^⓪	12.8	13.6	13.1	13.7	12.5	13.0	13.4	13.8	14.7	14.5	13.4	13.8
CDC Throttle ^⓪	11.3	12.6	11.9	13.0	11.4	11.1	12.0	12.9	13.4	13.8	12.1	14.0
Charing	11.3	13.1	—	12.6	11.5	—	—	—	—	13.9	—	14.9
Sparrow VB	11.3	13.1	—	12.3	11.5	—	—	—	—	14.3	—	13.3
Varieties supported for registration by the PRCWRT												
Alderon	9.9	12.8	—	12.2	10.9	—	—	—	—	13.9	—	14.0
SITE GRAND MEAN (%)	11.6	12.9	12.6	13.2	12.3	12.3	12.6	13.3	13.9	13.8	12.6	13.6

DURUM WHEAT

New for 2017

Variety	Code	Breeder	Distributor	Seed Availability
AAC Stronghold [Ⓞ]	DT862	AAFC - Swift Current	SeCan	2019
CDC Credence [Ⓞ]	DT583	Crop Development Centre	CANTERRA SEEDS	2019

Varieties supported for registration by the Prairie Recommending Committee for Wheat, Rye & Triticale (PRCWRT)

DT863	AAFC - Swift Current
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Comments:

Seed of the new varieties **AAC Spitfire[Ⓞ]** and **CDC Carbide VB[Ⓞ]** will be commercially available for seeding in Spring 2017.

The varieties **AAC Raymore[Ⓞ]**, **AAC Stronghold[Ⓞ]**, **CDC Fortitude[Ⓞ]** and **AAC Cabri[Ⓞ]** have solid stem 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:							Fusarium Head Blight	
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust		Stripe Rust
AAC Cabri [Ⓞ]	5	61	14.8	1	3	Y	G	P	MR	R	I	MR	R	R	MS
AAC Congress [Ⓞ]	3	64	14.3	0	3	Y	G	—	MR	R	MS	MR	R	R	MS
AAC Current [Ⓞ]	10	56	14.8	1	4	Y	G	P	MS	MR	I	R	R	MR	MS
AAC Durafield [Ⓞ]	8	65	14.5	0	0	Y	G	F	S	R	I	R	R	MR	S
AAC Marchwell VB [Ⓞ]	10	61	14.6	0	0	Y	G	P	MR	R	MS	R	R	R	MS
AAC Raymore [Ⓞ]	10	60	14.7	0	0	Y	G	F	MS	MR	I	R	R	MR	S
AAC Spitfire [Ⓞ]	7	61	14.8	0	-2	Y	VG	P	MS	R	MS	R	R	R	S
AAC Stronghold [Ⓞ]	2	63	14.2	1	-2	Y	VG	—	R	I	I	R	R	MR	MS
Brigade [Ⓞ]	25	70	13.7	2	6	Y	G	F	S	R	I	R	R	MR	MS
CDC Alloy [Ⓞ]	5	65	14.3	0	4	Y	G	—	I	R	MS	MR	R	R	MS
CDC Carbide VB [Ⓞ]	7	61	14.7	0	1	Y	G	P	MS	R	MS	R	R	R	MS
CDC Credence [Ⓞ]	2	65	14.1	1	6	Y	G	—	MR	MR	I	MR	R	MR	MS
CDC Desire [Ⓞ]	6	57	14.4	-2	0	Y	G	G	MS	R	I	R	R	MR	S
CDC Dynamic [Ⓞ]	5	64	14.6	0	2	Y	G	—	I	R	I	MR	R	MR	MS
CDC Fortitude [Ⓞ]	10	63	14.5	1	-1	Y	VG	F	MS	R	MS	MR	R	R	MS
CDC Precision [Ⓞ]	5	67	14.0	0	4	Y	G	—	MS	R	MS	MR	R	R	MS
CDC Verona [Ⓞ]	21	62	14.5	2	1	Y	G	F	MS	R	MS	R	R	R	MS
CDC Vivid [Ⓞ]	10	57	14.8	0	0	Y	VG	F	I	R	I	R	R	MR	S
Enterprise [Ⓞ]	12	63	14.5	0	2	Y	F	G	MS	MR	I	R	R	R	MS
Eurostar [Ⓞ]	23	64	14.2	2	4	Y	F	F	S	R	I	R	R	R	MS
Strongfield [Ⓞ]	26	60	14.7	0	0	Y	G	F	S	MR	I	R	R	MR	S
Transcend [Ⓞ]	16	64	14.4	2	5	Y	G	G	S	R	I	R	R	R	MS
Varieties supported for registration by PRCWRT															
DT863	2	63	14.6	-1	-3	Y	G	—	I	I	MS	MR	R	MR	MS
GRAND MEAN		63	14.1												
LSD (0.05)		5	0.5												

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

Yield Comparisons

Variety	2016 Yield (bu/acre)	
	Melita	Souris
AAC Current☉	46	44
AAC Durafield☉	46	66
AAC Marchwell VB☉	45	64
AAC Raymore☉	47	51
AAC Spitfire☉	46	52
AAC Stronghold☉	49	58
Brigade	54	75
CDC Alloy☉	53	68
CDC Carbide VB☉	50	61
CDC Credence☉	51	68
CDC Dynamic☉	56	80
CDC Fortitude☉	50	64
CDC Precision☉	50	76
CDC Vivid☉	48	54
Transcend☉	46	68
Varieties supported for registration by PRCWRT		
DT863	48	63
SITE GRAND MEAN (bu/acre)	49	63
CV %	6.1	7.1
LSD	5	8
Sign Diff	Yes	Yes
Seeding Date	03-May	10-May
Harvest Date	11-Aug	19-Sep

Protein Comparisons

Variety	2016 Protein (%)	
	Melita	Souris
AAC Current☉	13.7	17.2
AAC Durafield☉	13.5	15.6
AAC Marchwell VB☉	13.3	16.1
AAC Raymore☉	14.1	16.1
AAC Spitfire☉	14.1	16.9
AAC Stronghold☉	13.0	15.4
Brigade	13.3	14.1
CDC Alloy☉	12.9	16.4
CDC Carbide VB☉	13.8	16.3
CDC Credence☉	13.5	14.7
CDC Dynamic☉	13.5	15.8
CDC Fortitude☉	13.3	16.0
CDC Precision☉	13.0	15.3
CDC Vivid☉	13.3	17.0
Transcend☉	13.4	15.8
Varieties supported for registration by PRCWRT		
DT863	13.8	16.2
SITE GRAND MEAN (%)	13.5	15.9

WINTER WHEAT

Varieties supported for registration by the Prairie Recommending Committee for Wheat, Rye & Triticale (PRCWRT)

Code	Breeder	Distributor	Seed Availability
W520	Department of Plant Sciences, U of M	—	—
1303-132-1	Department of Plant Sciences, U of M	—	—

Comments:

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

The variety **Emerson** is rated Resistant (R) to Fusarium Head Blight. Depending on the level of disease pressure, varieties that are rated as Resistant will be infected to some degree. If disease pressure is high, yield and/or quality loss due to FHB can still occur in R-rated varieties.

The variety **AAC Elevate** has resistance to the wheat curl mite, the vector that transmits wheat streak mosaic virus. To preserve the effectiveness of this wheat curl mite tolerance gene, agronomic practices that eliminate 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	Protein %	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	18	79	11.6	8	Y	M	G	VG	MR	MR	I	MS	I
AAC Gateway	28	82	12.0	2	Y	M	F	VG	S	MR	I	MR	I
CDC Buteo	100	80	11.4	16	Y	M	VG	G	S	I	I	S	MR
CDC Chase	23	84	11.6	19	Y	M	F	G	S	R	R	MR	MS
Emerson	28	83	12.2	11	Y	M	G	VG	S	R	I	MR	R
Flourish	35	83	11.7	5	Y	E	F	VG	MR	I	I	I	S
McClintock	73	78	11.6	19	Y	L	F	VG	S	R	MR	—	S
Moats	35	84	11.7	16	Y	E	G	G	MS	R	R	MR	S
Canada Western Special Purpose													
Accipiter	36	84	11.1	9	Y	M	G	VG	S	R	MR	S	MS
Broadview	38	82	11.1	6	Y	E	G	VG	S	R	R	S	S
CDC Falcon	111	79	11.5	0	Y	E	F	VG	S	MR	MR	S	S
CDC Ptarmigan	40	82	9.8	18	N	M	G	F	S	S	S	S	I
Peregrine	36	85	11.0	22	Y	M	VG	G	S	I	MR	MR	I
Sunrise	38	86	10.5	14	Y	M	G	G	S	MR	MR	MR	—
Swainson	20	89	10.9	20	Y	M	F	F	S	R	R	MR	—
Varieties supported for registration by the PRCWRT													
W520	11	88	11.3	9	Y	M	F	VG	I	R	R	R	I
1303-132-2	28	92	10.7	14	Y	M	F	G	S	R	R	—	MS
GRAND MEAN (bu/acre)		83	11.4										
LSD (bu/acre) (0.05)		3	0.2										

1 Maturity ratings: E = Early, M = Medium and L = Late. CDC Falcon is considered an Early (E) maturing variety. 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 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.

Yield Comparisons

Class/Variety	2016 Yield (bu/acre)									
	Arborg	Beausejour	Boissevain	Carberry	Carman	Hamiota	Roblin	Rosebank	Stonewall	Winnipeg
Canada Western Red Winter										
AAC Elevate [®]	104	118	73	60	76	77	58	102	111	94
AAC Gateway [®]	110	117	75	71	84	83	84	102	113	102
CDC Chase	111	111	73	68	74	87	88	108	120	115
Emerson [®]	98	105	78	91	77	89	89	104	109	100
Canada Western Special Purpose										
CDC Falcon	103	113	66	58	77	79	60	98	111	117
Varieties supported for registration by the PRCWRT										
1303-132-2	118	136	79	76	90	92	105	111	133	127
W520	110	125	76	70	88	87	99	110	119	116
SITE GRAND MEAN (bu/acre)	108	118	74	71	81	85	83	105	116	110
CV%	3.7	4.1	5.0	5.2	9.2	4.0	6.5	3.5	4.6	7.9
LSD (bu/acre)	7	9	7	7	11	6	10	7	10	13
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	15-Sep	17-Sep	21-Sep	29-Sep	18-Sep	17-Sep	11-Sep	22-Sep	16-Sep	24-Sep
Harvest Date	08-Aug	17-Aug	16-Aug	16-Aug	08-Aug	16-Aug	19-Aug	28-Jul	09-Aug	11-Aug



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WINTER WHEAT (continued)

Protein Comparisons

Class/Variety	2016 Protein (%)									
	Arborg	Beausejour	Boissevain	Carberry	Carman	Hamiota	Roblin	Rosebank	Stonewall	Winnipeg
Canada Western Red Winter										
AAC Elevate [®]	11.6	12.0	11.2	12.2	13.0	11.5	13.7	11.6	11.2	12.0
AAC Gateway [®]	12.1	12.6	11.6	12.7	12.9	11.2	12.3	11.9	11.8	12.3
CDC Chase	12.7	12.4	11.1	12.3	12.8	11.0	11.9	11.5	10.9	12.4
Emerson [®]	12.6	12.7	11.3	12.6	14.2	11.4	12.5	12.3	12.2	13.0
Canada Western Special Purpose										
CDC Falcon	10.9	11.9	11.2	12.9	13.3	10.8	12.0	11.5	11.2	11.9
Varieties supported for registration by the PRCWRT										
1303-132-2	11.8	11.4	10.0	11.5	11.7	10.1	10.6	10.3	10.0	11.2
W520	12.0	11.7	10.9	12.1	12.4	11.5	10.9	11.2	10.9	11.7
SITE GRAND MEAN (%)	12.0	12.1	11.0	12.3	12.9	11.1	12.0	11.5	11.2	12.1

FALL RYE

New for 2017

Variety	Code	Breeder	Distributor	Seed Availability
Bono	RT212	KWS Lochow GMBH	FP Genetics	2016

Comments:

Fall rye testing by MCVET resumed in 2015.

The hybrid fall rye varieties **Bono**, **Brasetto** and **Guttino** 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 +/- cm	Relative ¹ Maturity	Falling Number (Seconds)	Resistance Level:		Relative Winter Hardiness	
						Lodging	Ergot		
Danko	18	98	—	—	—	—	—	F	
Hazlet	39	104	0	0	152	G	MS	VG	
Prima	20	95	13	-3	204	F	MS	VG	
Hybrid Fall Rye									
Bono	11	125	-12	0	265	VG	MS	VG	
Brasetto	19	126	-11	0	248	VG	MS	VG	
Guttino	19	126	-13	0	292	VG	MS	VG	
GRAND MEAN (bu/acre)		112							
LSD (bu/acre) (0.05)		4							

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

Yield Comparisons

Class/Variety	2016 Yield bu/ac									
	Arborg	Beausejour	Boissevain	Carberry	Carman	Hamiota	Roblin	Rosebank	Stonewall	Winnipeg
Hazlet	118	135	69	120	98	99	121	119	124	96
Danko	122	130	65	125	96	92	128	125	108	74
Hybrid Fall Rye										
Bono	151	152	93	150	137	114	146	150	137	90
Brasetto	145	164	86	143	133	118	155	145	141	105
Guttino	156	155	82	150	132	117	144	151	142	101
SITE GRAND MEAN (bu/acre)		139	147	79	138	119	139	138	131	93
CV%		10.5	4.3	11.5	2.1	5.3	3.8	7.0	7.5	8.7
LSD (bu/acre)		28	12	17	6	10	8	19	18	15
Sign Diff		Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
Seeding Date		15-Sep	17-Sep	21-Sep	29-Sep	18-Sep	17-Sep	11-Sep	22-Sep	15-Sep
Harvest Date		08-Aug	17-Aug	15-Aug	16-Aug	08-Aug	16-Aug	18-Aug	28-Jul	08-Aug

Distributor Contacts for Listed Varieties in Seed Manitoba 2017

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

BARLEY

Malting Acceptance - Recommended

AAC Synergy (2)☺	Syngenta Seeds Canada Inc.
AC Metcalfe (2)	SeCan
Bentley (2)☺	CANTERRA SEEDS
CDC Copeland (2)☺	SeCan
CDC Kindersley (2)☺	SeCan
CDC Polarstar (2)☺	CANTERRA SEEDS
Celebration (6W)☺	CANTERRA SEEDS
LEGACY (6W)	CPS Canada Inc./FP Genetics
Newdale (2)☺	FP Genetics
Tradition (6W)	CPS Canada Inc./FP Genetics

Malting: Other

AAC Connect (2)☺	CANTERRA SEEDS
CDC Bow (2)☺	SeCan
CDC Fraser (2)☺	SeCan
CDC Meredith (2)☺	SeCan
CDC PlatinumStar (2)☺	CANTERRA SEEDS
Cerveza (2)☺	Mastin Seeds
Lacey (6W)	Alliance Seed
Major (2)☺	Alliance Seed
Merit 57 (2)☺	CANTERRA SEEDS
Stellar-ND (6W)☺	CANTERRA SEEDS

Food and Feed

AC Ranger (6F)	FP Genetics
Amisk (6)☺	SeCan
Brahma (2)☺	Crop Production Services/Proven Seed
Breton (6F)☺	Field Crop Development Centre
Canmore (2)☺	CANTERRA SEEDS
CDC Austenson (2)☺	SeCan
CDC Coalition (2)☺	CANTERRA SEEDS
CDC Cowboy (2F)☺	SeCan
CDC Helgason (2)☺	SeCan
CDC Maverick (2F)☺	SeCan
CDC Mindon (2)☺	SeCan
CDC YORKTON (6W)	CANTERRA SEEDS
Champion (2)☺	Crop Production Services/Proven Seed
Chigwell (6)☺	SeCan
Claymore (2)☺	Crop Production Services/Proven Seed
CONLON (2)☺	Seed Depot
Desperado (6F)☺	Alliance Seed
Gadsby (2)☺	SeCan
Muskwa (6)☺	SeedNet Inc.
Oreana (2)☺	Crop Production Services/Proven Seed
Sundre (6)☺	Mastin Seeds

Hulless

CDC Ascent (2)☺	SeCan
CDC Carter (2)☺	SeCan
CDC Clear (2)☺	SeCan
Taylor (2)☺	Alliance Seed

OATS

AAC Justice☺	FP Genetics
AAC Nicolas☺	SeCan
AC Morgan	SeCan
CDC Big Brown☺	SeCan
CDC Dancer☺	FP Genetics
CDC Haymaker (F)☺	SeCan
CDC Minstrel☺	FP Genetics
CDC Morrison☺	CANTERRA SEEDS
CDC Norseman☺	SeCan
CDC ProFi	Crop Development Centre
CDC Ruffian☺	FP Genetics
CDC Seabiscuit☺	CANTERRA SEEDS
CS Camden☺	CANTERRA SEEDS
Furlong☺	CANTERRA SEEDS
HiFi☺	Seed Depot
Jordan☺	SeCan
Leggett☺	FP Genetics
Pinnacle☺	FP Genetics
Ronald☺	SeCan
Souris☺	Seed Depot
Stainless	AAFC - Brandon
Stride☺	SeCan
Summit☺	FP Genetics
Triactor☺	CANTERRA SEEDS
Varieties being tested for adaptability in Western Canada	
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Bia☺	La Coop Federee
Bradley☺	SeCan
Kara☺	La Coop Federee
Kyron☺	La Coop Federee
Nice	La Coop Federee
Pomona☺	La Coop Federee

SPRING WHEAT

Canada Western Red Spring

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5605HR CL☺	Crop Production Services/Proven Seed
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AAC Brandon☺	SeCan
AAC Cameron VB☺	CANTERRA SEEDS
AAC Connery☺	CANTERRA SEEDS
AAC Elie☺	Alliance Seed
AAC Jatharia VB☺	SeCan
AAC Prevail VB☺	Alliance Seed
AAC Redberry☺	Alliance Seed
AAC Redwater☺	SeCan
AAC Viewfield☺	FP Genetics
AAC W1876☺	CANTERRA SEEDS
AC Barrie	SeCan
AC Domain	SeCan

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Carberry	SeCan
Cardale	Seed Depot
CDC Abound	Crop Production Services/Proven Seed
CDC Bradwell	SeCan
CDC Go	Crop Development Centre
CDC Kernan	CANTERRA SEEDS
CDC Landmark VB	FP Genetics Inc.
CDC Plentiful	FP Genetics
CDC Stanley	Crop Production Services/Proven Seed
CDC Thrive	Cargill Ltd.
CDC Titanium VB	Crop Production Services/Proven Seed
CDC Utmost VB	FP Genetics
CDC VR Morris	Crop Production Services/Proven Seed
Coleman	Lefsrud Seed
Fieldstar VB	SeCan
Glenn	CANTERRA SEEDS
Goodeve VB	Alliance Seed
Harvest	FP Genetics
Infinity	CANTERRA SEEDS
KANE	SeCan
Muchmore	FP Genetics
Shaw VB	SeCan
Stettler	SeCan
SY433	Cargill Ltd.
SY479 VB	Alliance Seed
SY637	Syngenta Canada Inc.
SY Slate	Syngenta Canada Inc.
Thorsby	CANTERRA SEEDS
Unity VB	SeCan
Vesper VB	SeCan
Waskada	SeCan
WR859 CL	Richardson Pioneer

Canada Prairie Spring Red

5700PR	Crop Production Services/Proven Seed
5702PR	Crop Production Services/Proven Seed
AAC Crusader	CANTERRA SEEDS
AAC Foray VB	SeCan
AAC Penhold	SeCan
AAC Ryley	SeCan
AAC Tenacious VB	Alliance Seed
Conquer VB	CANTERRA SEEDS
Enchant VB	FP Genetics
SY985	Syngenta Canada Inc.
SY995	Syngenta Canada Inc.
SY Rowyn	Alliance Seed

Canada Northern Hard Red

AAC Concord	CANTERRA SEEDS
Elgin ND	FP Genetics
Faller	Seed Depot
Prosper	Seed Depot

Canada Western Special Purpose

AAC Awesome	SeCan
AAC Innova	Alliance Seed
AAC NRG097	CANTERRA SEEDS
AAC Proclaim	FP Genetics
CDC NRG003	CANTERRA SEEDS
Minnedosa	SeCan
NRG010	CANTERRA SEEDS
Pasteur	SeCan
SY087	United Suppliers Canada
WFT603	Western Feed Grains Development
Co-op Ltd.	

Canadian Western Hard White Spring

AAC Iceberg	Alliance Seed
AAC Whitefox	SeCan
CDC Whitewood	SeCan
Snowbird	FP Genetics
Snowstar	SeCan
Whitehawk	SeCan

Canada Western Soft White Spring

AAC Chiffon	SeedNet Inc.
AAC Indus	SeCan
AC Andrew	SeCan
Sadash	SeCan

Canada Western Extra Strong

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

Class designation pending by the Canadian Grain Commission (CGC)

AAC Tradition	SeCan
CDC Hughes VB	Crop Production Services/Proven Seed

SPRING WHEAT

CDC Terrain	FP Genetics Inc.
CDC Throttle	Crop Development Centre
Charing	SeCan
Sparrow VB	SeCan
Canada Western Amber Durum	
AAC Cabri	SeCan
AAC Congress	CANTERRA SEEDS
AAC Current	Alliance Seed
AAC Durafield	SeCan
AAC Marchwell VB	SeCan
AAC Raymore	SeCan
AAC Spitfire	SeCan
AAC Stronghold	SeCan
Brigade	Crop Production Services/Proven Seed
CDC Alloy	FP Genetics
CDC Carbide VB	Crop Production Services/Proven Seed
CDC Credence	CANTERRA SEEDS
CDC Desire	Syngenta Canada Inc.
CDC Dynamic	Crop Production Services/Proven Seed
CDC Fortitude	Crop Production Services/Proven Seed
CDC Precision	Alliance Seed
CDC Verona	Alliance Seed
CDC Vivid	Crop Production Services/Proven Seed
Enterprise	CANTERRA SEEDS
Eurostar	SeCan
Strongfield	SeCan
Transcend	FP Genetics

WINTER WHEAT

Canada Western Red Winter

AAC Elevate	SeCan
AAC Gateway	Seed Depot
CDC Buteo	SeCan
CDC Chase	CANTERRA SEEDS
Emerson	CANTERRA SEEDS
Flourish	SeCan
McClintock	CANTERRA SEEDS
Moats	SeCan
Canada Western Special Purpose	
Accipiter	SeCan
Broadview	CANTERRA SEEDS
CDC Falcon	SeCan
CDC Ptarmigan	Western Ag
Peregrine	SeCan
Sunrise	Western Ag
Swainson	Department of Plant Sciences, U of S

FALL RYE

Danko	FP Genetics
Hazlet	SeCan
Prima	SeCan
Hybrid Fall Rye	
Bono	FP Genetics
Brasetto	FP Genetics
Guttino	SeedNet Inc.

DISTRIBUTOR	PHONE NUMBER
AAFC - Brandon	1-204-578-6601
Alliance Seed	1-877-270-2890
CANTERRA SEEDS	1-866-744-4321
Cargill Ltd.	1-888-855-8558
Crop Production Services (Canada) Inc.	1-403-603-6000
Crop Development Centre	1-306-966-8195
Department of Plant Sciences, U of S	1-306-931-9299
Faurschou Farms Ltd. III	1-204-857-7109
Field Crop Development Centre	1-403-782-8039
FP Genetics	1-877-791-1045
La Coop Federee	1-450-670-2231
Lefsrud Seed	1-780-336-2500
Mastin Seeds	1-403-556-2609
Richardson Pioneer	1-204-934-5166
SeCan	1-800-665-7333
Seed Depot	1-204-825-2000
SeedNet Inc.	1-403-715-9771
Syngenta Canada Inc.	1-877-964-3682
Syngenta Seeds Canada Inc.	1-877-964-3682
United Suppliers Canada	1-888-975-4769
Western Ag	1-306-978-0373
Western Feed Grains Development Co-op Ltd.	1-877-250-1552

Growers List



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AAC CONNECT☉

Decker; Murray, Donald H. & Ryan.....204-764-2733 S F

AAC SYNERGY☉

Decker; Murray, Donald H. & Ryan.....204-764-2733 C
 Rosenort; Friesen, Rick.....204-746-8325 C
 St.Leon; Pembina Co-Op.....204-535-2598 C
 Strathmore; Strathmore Seed Cleaning Plant.....403-934-3421 C

AC METCALFE

Altamont; Madill, Doug204-744-2259 R
 Binscarth; Pizzev, J. David.....403-609-3588 S
 Boissevain; Froese, Wesley A.J. & Ian204-534-6846 R
 Hamiota; Knight, Ronald M. & Jeff204-764-2450 C
 St.Leon; Pembina Co-Op.....204-535-2598 R C
 Winnipeg; Cloutier, Denis C.....204-261-4532 C

BENTLEY☉

Boissevain; Froese, Wesley A.J. & Ian204-534-6846 C
 Pilot Mound; Wallace, Brad & Joe204-825-2628 C
 Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany 204-748-2666.....C

CANMORE☉

Oakville; Miller, Darcy Charles204-267-2363 R
 Warren; Riddell, Craig Thomas204-227-5679 R
 Winnipeg; Canterra Seeds Ltd.204-988-9750 C

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CDC AUSTENSON☉

Dauphin; Durston, Scott L.204-638-5569 R
 Hamiota; Knight, Ronald M. & Jeff204-764-2450 R C
 Miniota; Walker, Alan Glen204-567-3647 R
 Newdale; Wareham, L.B. Shayne204-849-2112 C
 Plumas; Court, Randolph A. & Tracy L.204-386-2354 C
 Plumas; Tonn, Todd204-386-2206 S F R
 Ste. Rose Du Lac; Gagnon, Arthur Donald204-447-2118 R
 Stonewall; Unger, Ronald K. & Darcy.....204-467-8630 S F C
 Swan River; Alford, Wayne G.204-734-2526 R C
 Winkler; Ens, Abram E.& Chris & Friesen, Jake204-325-4658 C

CDC BOW☉

Stonewall; Unger, Ronald K. & Darcy.....204-467-8630 S
 Swan River; Alford, Wayne G.204-734-2526 S F

CDC COALITION☉

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

CDC COPELAND☉

Hamiota; Knight, Ronald M. & Jeff204-764-2450 C
 Oak Lake; Smith, Gerald R.& Leigh E.....204-855-3128 S C
 Reston; Greig, Fred L. & Fotheringham, John A. (Jack)204-877-3813 C
 Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany204-748-2666 R C

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CDC COWBOY ☼			
Dauphin; Durston, Scott L.	204-638-5569	C	
Solsgrith; Nickel, James D. & John H. & Kevin J. & J.Gordon	204-842-3757	C	
CDC KINDERSLEY ☼			
Mather; Mc Lennan, Donald D.	204-529-2372	C	
CDC MAVERICK ☼			
Cromer; Bartel, Bob	204-662-4580	C	
Crystal City; Buchanan, Kenneth S. & Dean K.	204-873-2661	C	
CDC POLAR STAR ☼			
Winnipeg; Canterra Seeds Ltd.	204-988-9750	F R	
CELEBRATION ☼			
Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C	
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C	
Grosse Isle; Rutherford, Rick	204-467-5613	S C	
Mac Gregor; Hulme, Lorne	204-685-2627	R C	
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	R C	
Ste. Rose Du Lac; Gagnon, Arthur Donald	204-447-2118	C	
CONLON ☼			
Glenboro; Jefferies, Ron	204-827-2102	C	
Grosse Isle; Rutherford, Rick	204-467-5613	C	
Oakville; Miller, Darcy Charles	204-267-2363	C	
Pilot Mound; Seed Depot Corporation	204-825-2000	C	
Pilot Mound; Smith, Walter George	204-825-2715	C	

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Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C	
Portage; Pugh, William G. & B.M. & Victoria	204-274-2179	C	
Rosenort; Friesen, Rick	204-746-8325	C	
Somerset; Sierens, Joseph & Chris	204-744-2883	C	
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C	
DESPERADO ☼			
Plumas; Tonn, Todd	204-386-2206	C	
LACEY			
Mac Gregor; Hulme, Lorne	204-685-2627	R	
NEWDALE ☼			
Binscarth; Pizzey, J. David	403-609-3588	C	
Binscarth; Pizzey, Tim V.	204-683-2316	C	
Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C	
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C	
Russell; Woroneski, Frank M.	204-773-3262	F	
Souris; Kohut, Anton	204-483-2004	R	
Souris; Kohut, David Anton	204-483-3063	R	
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C	
TRADITION			
Grosse Isle; Rutherford, Rick	204-467-5613	R	
Winnipeg; James, David G.	204-222-8785	R	
Winnipeg; Oatway, Alfred John & Kenton J.	204-632-5334	R	

OATS

AAC JUSTICE ☽			
Mac Gregor; Hulme, Lorne	204-685-2627	C	
Oakville; Miller, Darcy Charles	204-267-2363	C	
CDC BALER			
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	S R	
CDC DANCER ☼			
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	R C	
CDC HAYMAKER ☼			
Carman; Menold, Ulrich & Lucas	204-745-2822	C	
Dauphin; Durston, Scott L.	204-638-5569	C	
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C	
Warren; Riddell, Craig Thomas	204-227-5679	F	
CDC NORSEMAN ☽			
Dauphin; Durston, Scott L.	204-638-5569	S	
CDC RUFFIAN ☼			
Souris; Kohut, Anton	204-483-2004	R	
CS CAMDEN ☽			
Arborg; Foster, Kyle & Ken & Keith	204-364-2358	C	
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C	
Brandon; Wheat City Seeds Ltd.	204-727-3337	C	
Carman; Krahn, Myron	204-745-1938	C	
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	C	
Domain; Wiens, Robert Frank	204-736-2951	C	
Dufrost; Catellier, Roger & Richard	204-347-5588	C	
Fannystelle; Nadeau, Brian	204-436-2469	R C	
Glenboro; Jefferies, Ron	204-827-2102	C	
Homewood; Froebe, Bruce D. & Murray	204-745-6655	R C	
Miniota; Walker, Alan Glen	204-567-3647	C	
Morris; Dueck, Arthur	204-746-2026	R C	
Morris; Hamblin, Donald & Bradley	204-209-0506	C	
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S F C	
Somerset; Sierens, Joseph & Chris	204-744-2883	R	

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Ste. Rose Du Lac; Gagnon, Arthur Donald	204-447-2118	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	S F R
Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany	204-748-2666	R C
Warren; Riddell, Craig Thomas	204-227-5679	R
Wawanesa; Ellis, Warren P. & Simon	204-824-2290	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	C
Winnipeg; Canterra Seeds Ltd.	204-988-9750	C

FURLONG ☉

Mac Gregor; Hulme, Lorne	204-685-2627	S F
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PINNACLE ☉

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Mac Gregor; Hulme, Lorne	204-685-2627	C

SOURIS ☉

Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	C
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Carman; Park, Robert J.	204-745-3304	C
Homewood; Froebe, Bruce D. & Murray	204-745-6655	C
Mac Gregor; Hulme, Lorne	204-685-2627	C
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268	C
Pilot Mound; Seed Depot Corporation	204-825-2000	C
Pilot Mound; Smith, Walter George	204-825-2715	C
Rivers; Redspen Ent. Ltd.	204-328-5346	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany	204-748-2666	C
Wawanesa; Ellis, Warren P. & Simon	204-824-2290	C

STRIDE ☉

Dauphin; Durston, Scott L.	204-638-5569	C
Portage; Sanderson, Garry	204-857-8406	R

SUMMIT ☉

Binscarth; Pizey, J. David	403-609-3588	R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Carman; Park, Robert J.	204-745-3304	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S F R C
Fannystelle; Nadeau, Brian	204-436-2469	C
Gladstone; Milne, Wilmot George	204-385-2486	C
Grosse Isle; Rutherford, Rick	204-467-5613	R C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Killarney; Chatham, Don, Linda & Cody	204-523-8412	R C
Mac Gregor; Hulme, Lorne	204-685-2627	R
Morris; Hamblin, David & Lorraine	204-746-4779	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	R
Oakville; Miller, Darcy Charles	204-267-2363	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	R C
Rosenort; Friesen, Lloyd	204-746-8198	C
Rosenort; Friesen, Rick	204-746-8325	S F C
Somerset; Sierens, Joseph & Chris	204-744-2883	F
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	R
Swan River; Alford, Wayne G.	204-734-2526	R
Winnipeg; James, David G.	204-222-8785	C

DURUM WHEAT

CDC VERONA ☉

Winnipeg; Alliance Seed Corporation	204-272-2890	F
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SPRING WHEAT

5605HR-CL ☉

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

Altona; Fuchsmeier, Joni	204-324-3859	C
Altona; Wiebe, Henry D. & Lloyd	204-324-8036	C
Arborg; Timchishen, Donald Victor & Darcy	204-641-1288	S
Baldur; Desrochers, David Oscar	204-535-2090	C
Binscarth; Cook, Gerry	204-532-2268	C
Binscarth; Pizzey, J. David	403-609-3588	C
Binscarth; Pizzey, Tim V.	204-683-2316	S F
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Boissevain; Latimer, Kevin B. & Duane E.	204-534-6631	R
Brandon; Martens, David	204-728-5510	C
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Brandon; Whetter, Rodney & Darren	204-727-0045	S F
Carman; Krahn, Myron	204-745-1938	C
Carman; Menold, Thomas	204-745-3377	C
Carman; Menold, Ulrich & Lucas	204-745-2822	S F
Carman; Park, Robert J.	204-745-3304	R C
Cromer; Bartel, Bob	204-662-4580	R C
Cromer; Bartel, Patrick	204-662-4466	C
Crystal City; Buchanan, Kenneth S. & Dean K.	204-873-2661	C
Crystal City; Fallis, J. Allan & Mark A.	204-873-2305	C
Darlingford; Wilson, James M.	204-246-2388	C
Dauphin; Kaleta, James & Debra	204-638-7800	C
Decker; Murray, Donald H. & Ryan	204-764-2733	C
Deloraine; Bolduc, Ronald And Bell, A.J. & J.C.	204-747-2913	C
Domain; Manness, Clayton	204-736-2922	S
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Domain; Pitura, Carl & Calvin C. & Connor J.	204-736-2849	S F R
& Greaves, Tom	204-736-2849	S F R
Domain; Wiens, Robert Frank	204-736-2951	R

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Dufrost; Catellier, Patrick Raymond	204-347-5503	C
Elie; Lachance, J.B. Adrien & Paul M. & Lionel	204-353-2694	C
Elphinstone; Gerrard, Jody	204-759-2213	C
Foxwarren; Falloom, Larry	204-683-2247	C
Foxwarren; Graham, George Arthur	204-683-2367	F C
Glenboro; Jefferies, Ron	204-827-2102	C
Grandview; Storey, R. Kip & Troy K.	204-546-2590	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	R
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	R 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, Hugh E.	204-734-3672	R
Kenville; Carmichael, John A.	204-734-3913	C
Killarney; Brinkschulte, Hermann	204-523-7464	C
Killarney; Chatham, Don, Linda & Cody	204-523-8412	C
Mac Gregor; Hulme, Lorne	204-685-2627	S F
Manitou; Sanders, Andre O., Daniel & Dylan	204-242-2576	R C
Mather; Mc Lennan, Donald D.	204-529-2372	C
Miniota; Walker, Alan Glen	204-567-3647	R C
Minto; Ayre, Andrew	204-776-2333	C
Minto; Fraser, A. Jay C.	204-776-7722	C
Minto; Fraser, Rick G.	204-776-2047	C
Morris; Dueck, Arthur	204-746-2026	C
Morris; Hamblin, David & Lorraine	204-746-4779	C
Newdale; Wareham, L.B. Shayne	204-849-2112	C
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	F R
Oakville; Miller, Darcy Charles	204-267-2363	R C
Pilot Mound; Cavers, Landon	204-825-2012	C
Pilot Mound; Smith, Walter George	204-825-2715	C
Pilot Mound; Wallace, Brad & Joe	204-825-2628	F C
Plum Coulee; Janzen, Ken & Ernie A.	204-829-7749	S F R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Plumas; Tonn, Todd	204-386-2206	S F C
Portage; Askin, Raymond T. & Jeffrey S.	204-274-2417	R C
Portage; Sanderson, Garry	204-857-8406	S F R
Portage; Sissons, Grant G., Donald Angus & Blye	204-857-7341	S F R C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack) .	204-877-3813	F R C
Rivers; Krahn, Abe M., Ronald J. & Robert A.	204-761-8702	R
Rivers; Redspen Ent. Ltd.	204-328-5346	C
Rosenort; Friesen, Rick	204-746-8325	R C
Rosburn; Mitchell, John	204-859-2431	R C
Russell; Keating, Mark	204-773-3854	C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S F R
Solsgrith; Nickel, James D. & John H. & Kevin J.	204-842-3757	C
& J.Gordon	204-842-3757	C
Somerset; Sierens, Joseph & Chris	204-744-2883	R C
Souris; Kohut, Anton	204-483-2004	C
Souris; Kohut, David Anton	204-483-3063	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
St. Joseph; Remillard, Aime J., Luc & Paul	204-737-2230	C
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208	C
St. Leon; Pembina Co-Op.	204-535-2598	R C
Ste. Rose Du Lac; Gagnon, Arthur Donald	204-447-2118	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	S F C
Swan River; Oberlin, Walter John & George	204-734-2292	C
Teulon; Willis, Lyle	204-886-2948	R
Virden; Hutchison, Barry	204-851-6157	C
Warren; Riddell, Craig Thomas	204-227-5679	S C
Wawanesa; Ellis, Warren P. & Simon	204-824-2290	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	F C

AAC CAMERON VB ☽

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

AAC CONNERY ☽

Manitou; Sanders, Andre O., Daniel & Dylan	204-242-2576	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	R
Rivers; Redspen Ent. Ltd.	204-328-5346	C

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Somerset; Sierens, Joseph & Chris204-744-2883 R
 Stonewall; Unger, Ronald K. & Darcy.....204-467-8630 R
 Swan River; Alford, Wayne G.204-734-2526 C

AAC ELIE ☼

Altona; Fuchsmeier, Joni204-324-3859 C
 Baldur; Desrochers, David Oscar204-535-2090 R
 Binscarth; Pizzey, J. David.....403-609-3588 C
 Binscarth; Pizzey, Tim V.....204-683-2316 C
 Boissevain; Armstrong, Duncan T. & A.J.204-534-2566 R C
 Boissevain; Froese, Wesley A.J. & Ian204-534-6846 C
 Crandall; Doupe, Neil D.....204-562-3632 R C
 Crystal City; Fallis, J. Allan & Mark A.204-873-2305 C
 Domain; Manness, Ronald & Patricia & Graeme204-736-2622 R C
 Elphinstone; Gerrard, Jody.....204-759-2213 C
 Gilbert Plains; Tokar, Bob & Stoughton, Murray204-548-2805 C
 Gladstone; Ferguson, Jason.....204-385-3430 C
 Grosse Isle; Rutherford, Rick204-467-5613 R C
 Holland; Kubinec, Anastasia.....204-526-2776 C
 Mather; Mc Lennan, Donald D.....204-529-2372 C
 Oak River; Henry, Cameron & Mc Lean, Eric204-566-2422 C
 Plumas; Tonn, Todd204-386-2206 C
 Reston; Greig, Fred L. & Fotheringham, John A. (Jack) 204-877-3813 R
 Rosenort; Friesen, Rick204-746-8325 C
 St. Leon; Labossiere, Luc N. & Rejean F.....204-744-2208 C
 St. Leon; Pembina Co-Op.....204-535-2598 C
 Virden; Heaman, Douglas J., Walter, Robert, Kenneth,
 Brett & Brittany204-748-2666 C
 Winnipeg; Alliance Seed Corporation.....204-272-2890 C

AAC PENHOLD ☽

Altona; Fuchsmeier, Joni204-324-3859 C
 Altona; Wiebe, Henry D. & Lloyd204-324-8036 C
 Arborg; Timchishen, Donald Victor & Darcy204-641-1288 R C
 Baldur; Desrochers, David Oscar204-535-2090 R
 Boissevain; Froese, Wesley A.J. & Ian204-534-6846 R C
 Brandon; Wheat City Seeds Ltd.204-727-3337 C
 Carman; Krahn, Myron204-745-1938 C
 Carman; Menold, Ulrich & Lucas204-745-2822 S C
 Carman; Park, Robert J.....204-745-3304 C
 Crandall; Doupe, Neil D.....204-562-3632 R
 Crystal City; Fallis, J. Allan & Mark A.204-873-2305 C
 Darlingford; Wilson, James M.....204-246-2388 R
 Decker; Murray, Donald H. & Ryan.....204-764-2733 C
 Domain; Manness, Ronald & Patricia & Graeme204-736-2622 R C
 Domain; Pitura, Carl & Calvin C. & Connor J.
 & Greaves, Tom204-736-2849 S F R
 Dufrost; Catellier, Patrick Raymond.....204-347-5503 C
 Dufrost; Catellier, Roger & Richard204-347-5588 C
 Elphinstone; Gerrard, Jody.....204-759-2213 C
 Fannystelle; Nadeau, Brian204-436-2469 C

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Grosse Isle; Rutherford, Rick204-467-5613 R
 Hazelridge; Saramaga, Robert P. & Andrew204-755-2817 C
 Homewood; Froebe, Bruce D. & Murray204-745-6655 C
 Lowe Farm; Sawatsky, Matt.....204-746-2187 C
 Manitou; Sanders, Andre O., Daniel & Dylan204-242-2576 R
 Miniota; Walker, Alan Glen204-567-3647 C
 Minto; Fraser, Rick G.204-776-2047 R
 Morris; Dueck, Arthur204-746-2026 F C
 Morris; Hamblin, David & Lorraine204-746-4779 C
 Newdale; Wareham, L.B. Shayne204-849-2112 C
 Oak Bluff; Gousseau, Marcel E.204-895-1357 R
 Oak Lake; Smith, Gerald R. & Leigh E.....204-855-3128 C
 Oak River; Henry, Cameron & Mc Lean, Eric204-566-2422 C
 Pilot Mound; Wallace, Brad & Joe204-825-2628 R
 Plumas; Court, Randolph A. & Tracy L.204-386-2354 R
 Portage; Askin, Raymond T. & Jeffrey S.....204-274-2417 F C
 Portage; Sissons, Grant G., Donald Angus & Blye204-857-7341 S R C
 Rivers; Krahn, Abe M., Ronald J. & Robert A.204-761-8702 C
 Rivers; Redspen Ent. Ltd.....204-328-5346 C
 Roblin; Mann, Ryan L.C.....204-937-2154 C
 Rosenort; Friesen, Lloyd204-746-8198 R C
 Rosenort; Friesen, Rick204-746-8325 C
 Russell; Keating, Mark.....204-773-3854 C
 Sanford; Bergen, Edward Harry & Tim204-736-2278 S F C
 Somerset; Sierens, Joseph & Chris204-744-2883 R
 St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....204-355-4495 C
 St. Claude; Rouire, Roland & Guy204-379-2582 C
 St. Leon; Labossiere, Luc N. & Rejean F.....204-744-2208 C
 Stonewall; Unger, Ronald K. & Darcy204-467-8630 R
 Teulon; Willis, Kyle204-886-2948 R
 Warren; Riddell, Craig Thomas204-227-5679 R
 Wawanesa; Ellis, Warren P. & Simon.....204-824-2290 R
 Winkler; Ens, Abram E. & Chris & Friesen, Jake204-325-4658 S F R
 Winnipeg; James, David G.204-222-8785 C

AAC REDBERRY ☽

Baldur; Desrochers, David Oscar204-535-2090 F

AAC REDWATER ☽

Binscarth; Cook, Murray204-532-2239 C
 Kenville; Carmichael, Hugh E.....204-734-3672 C
 Oak River; Henry, Cameron & Mc Lean, Eric204-566-2422 C
 Rivers; Redspen Ent. Ltd.....204-328-5346 C
 Russell; Keating, Mark.....204-773-3854 C
 Solsgirth; Nickel, James D. & John H. & Kevin J.
 & J.Gordon204-842-3757 C
 Somerset; Sierens, Joseph & Chris204-744-2883 C

AAC VIEWFIELD ☽

Decker; Murray, Donald H. & Ryan.....204-764-2733 R
 Grandview; Storey, R. Kip & Troy K.204-546-2590 R

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Grosse Isle; Rutherford, Rick	204-467-5613	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	F R
Somerset; Sierens, Joseph & Chris	204-744-2883	R
Swan River; Alford, Wayne G.	204-734-2526	S F

AAC W1876☽

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	S	C
Dauphin; Kaleta, James & Debra	204-638-7800	S	F R
Morris; Dueck, Arthur	204-746-2026	S	R
Rivers; Redsper Ent. Ltd.	204-328-5346	R	

AC DOMAIN

Kenville; Carmichael, John A.	204-734-3913	C
Russell; Woroneski, Frank M.	204-773-3262	F
Swan River; Oberlin, Walter John & George	204-734-2292	C

AC SPLENDOR

Kenville; Carmichael, John A.	204-734-3913	R
------------------------------------	--------------	---

CARBERRY☼

Deloraine; Bolduc, Ronald And Bell, A.J. & J.C.	204-747-2913	C
Oakville; Miller, Darcy Charles	204-267-2363	C

CARDALE☼

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C

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Dauphin; Fisher, Roderick Allan & Douglas James.....	204-622-8800	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	C
Glenboro; Jefferies, Ron.....	204-827-2102	C
Homewood; Froebe, Bruce D. & Murray	204-745-6655	R
Lowe Farm; Sawatsky, Matt.....	204-746-2187	C
Mac Gregor; Hulme, Lorne.....	204-685-2627	C
Minto; Ayre, Andrew	204-776-2333	C
Morris; Hamblin, David & Lorraine	204-746-4779	C
Notre Dame; Durand, Gabriel A. & Marc.....	204-248-2268	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Oakville; Miller, Darcy Charles	204-267-2363	C
Pilot Mound; Seed Depot Corporation	204-825-2000	R C
Plum Coulee; Janzen, Ken & Ernie A.....	204-829-7749	R
Portage; Pugh, William G. & B.M. & Victoria	204-274-2179	R C
Rosenort; Friesen, Lloyd	204-746-8198	R C
Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon	204-842-3757	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....	204-355-4495	C
Swan River; Alford, Wayne G.	204-734-2526	C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany	204-748-2666	C
Wawanesa; Ellis, Warren P. & Simon.....	204-824-2290	C
Winnipeg; James, David G.	204-222-8785	C

CDC GO

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Brandon; Martens, David.....	204-728-5510	R C

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CDC HUGHES VB☼

Pilot Mound; Smith, Walter George 204-825-2715 S F *

CDC LANDMARK VB☽

Binscarth; Pizzey, Tim V. 204-683-2316 S F *
 Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S F *
 Kenton; Stevenson, Robert H. & Sidney H. 204-838-2012 S *
 Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 S *
 Swan River; Alford, Wayne G. 204-734-2526 S F *

CDC PLENTIFUL☼

Binscarth; Pizzey, J. David 403-609-3588 C
 Binscarth; Pizzey, Tim V. 204-683-2316 C
 Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
 Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 R
 Gilbert Plains; Tokar, Bob & Stoughton, Murray 204-548-2805 C
 Grandview; Storey, R. Kip & Troy K. 204-546-2590 C
 Killarney; Chatham, Don, Linda & Cody 204-523-8412 C
 Russell; Woroneski, Frank M. 204-773-3262 S F R
 Swan River; Alford, Wayne G. 204-734-2526 R

CDC STANLEY☼

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

CDC TITANIUM VB☽

Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 C *

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CDC UTMOST VB☼

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

ELGIN ND☽

Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 C
 Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
 Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 C
 Killarney; Chatham, Don, Linda & Cody 204-523-8412 C
 Oakville; Miller, Darcy Charles 204-267-2363 C
 Rivers; Redsper Ent. Ltd. 204-328-5346 C
 Somerset; Sierens, Joseph & Chris 204-744-2883 C
 Souris; Kohut, David Anton 204-483-3063 C
 Swan River; Alford, Wayne G. 204-734-2526 C

FALLER

Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
 Carman; Park, Robert J. 204-745-3304 C
 Crystal City; Smith, R. Wally 204-873-2352 C
 Domain; Pitura, Carl & Calvin C. & Connor J. 204-736-2849 C
 & Greaves, Tom 204-759-2213 C
 Elphinstone; Gerrard, Jody 204-467-5613 C
 Grosse Isle; Rutherford, Rick 204-526-2366 C
 Holland; Zeghers, Shawn M. 204-685-2627 C
 Mac Gregor; Hulme, Lorne 204-248-2268 C
 Notre Dame; Durand, Gabriel A. & Marc 204-566-2422 C
 Oak River; Henry, Cameron & Mc Lean, Eric 204-267-2363 C
 Oakville; Miller, Darcy Charles 204-825-2000 C
 Pilot Mound; Seed Depot Corporation 204-825-2000 C



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Pilot Mound; Smith, Walter George.....	204-825-2715	C
Plum Coulee; Janzen, Ken & Ernie A.....	204-829-7749	C
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	C
Rivers; Redspen Ent. Ltd.....	204-328-5346	C
Rosenort; Friesen, Rick.....	204-746-8325	C
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	C
Solsgrith; Nickel, James D. & John H. & Kevin J. & J.Gordon.....	204-842-3757	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....	204-355-4495	C
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	C
Teulon; Willis, Kyle.....	204-886-2948	C
Winnipeg; James, David G.....	204-222-8785	C

GLENN ☼

Boissevain; Froese, Wesley A.J. & Ian.....	204-534-6846	C
Dauphin; Kaleta, James & Debra.....	204-638-7800	C
Decker; Murray, Donald H. & Ryan.....	204-764-2733	C
Kenton; Stevenson, Robert H. & Sidney H.....	204-838-2012	C
Killarney; Brinkschulte, Hermann.....	204-523-7464	C
Mac Gregor; Hulme, Lorne.....	204-685-2627	C
Miniota; Walker, Alan Glen.....	204-567-3647	C
Oak River; Henry, Cameron & Mc Lean, Eric.....	204-566-2422	C
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	C
Portage; Sissons, Grant G., Donald Angus & Blye.....	204-857-7341	C
Rivers; Redspen Ent. Ltd.....	204-328-5346	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake.....	204-325-4658	C

HARVEST ☼

Grandview; Storey, R. Kip & Troy K.....	204-546-2590	C
Somerset; Sierens, Joseph & Chris.....	204-744-2883	R C

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Rick: 204-534-7458
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AAC Penfold

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OATS

AC Stride

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YELLOW PEAS

AAC Ardill

Good Yields, standability is very good

CDC Meadow

Good Yields

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MUCHMORE ☼

Hamiota; Knight, Ronald M. & Jeff.....	204-764-2450	R
Newdale; Wareham, L.B. Shayne.....	204-849-2112	C
Souris; Kohut, Anton.....	204-483-2004	C

PROSPER ☼

Carman; Park, Robert J.....	204-745-3304	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom.....	204-736-2849	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray.....	204-548-2805	C
Kenton; Stevenson, Richard D.O. & Douglas.....	204-838-2696	C
Morris; Hamblin, David & Lorraine.....	204-746-4779	C
Pilot Mound; Seed Depot Corporation.....	204-825-2000	C
Rosenort; Friesen, Rick.....	204-746-8325	C
Solsgrith; Nickel, James D. & John H. & Kevin J. & J.Gordon.....	204-842-3757	C
Swan River; Alford, Wayne G.....	204-734-2526	C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany.....	204-748-2666	C

SNOWSTAR ☼

Killarney; Chatham, Don, Linda & Cody.....	204-523-8412	C
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SY087 ☼

Arnaud; Storoschuk, Rick.....	204-427-2337	C
Boissevain; Froese, Wesley A.J. & Ian.....	204-534-6846	R
Killarney; Brinkschulte, Hermann.....	204-523-7464	R

SY479 VB ☼

Elphinstone; Gerrard, Jody.....	204-759-2213	R *
Foxwarren; Falloon, A. Scott.....	204-683-2347	R *
Winnipeg; Alliance Seed Corporation.....	204-272-2890	R *

WINTER WHEAT

AAC ELEVATE ☽

Mac Gregor; Sims, Curtis Edwin.....	204-685-2237	R
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AAC GATEWAY ☼

Altona; Wiebe, Henry D. & Lloyd.....	204-324-8036	C
Boissevain; Froese, Wesley A.J. & Ian.....	204-534-6846	C
Crystal City; Smith, R. Wally.....	204-873-2352	R
Domain; Johnson, David & Don.....	204-746-0275	C
Domain; Manness, Ronald & Patricia & Graeme.....	204-736-2622	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom.....	204-736-2849	C
Elphinstone; Gerrard, Jody.....	204-759-2213	C
Grosse Isle; Rutherford, Rick.....	204-467-5613	C

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WINTER WHEAT

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Lowe Farm; Sawatsky, Matt.....	204-746-2187	C
Mac Gregor; Hulme, Lorne.....	204-685-2627	F
Mac Gregor; Sims, Curtis Edwin.....	204-685-2237	C
Minto; Ayre, Andrew	204-776-2333	C
Oakville; Miller, Darcy Charles	204-267-2363	C
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	F
Portage; Askin, Raymond T. & Jeffrey S.....	204-274-2417	R
Rosenort; Friesen, Lloyd	204-746-8198	C
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	F R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....	204-355-4495	C
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	C
Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany	204-748-2666	C
Warren; Riddell, Craig Thomas	204-227-5679	R

EMERSON ☼

Dauphin; Kaleta, James & Debra	204-638-7800	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom.....	204-736-2849	S F R
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	F
Lowe Farm; Sawatsky, Matt.....	204-746-2187	R
Mac Gregor; Hulme, Lorne.....	204-685-2627	S C
Morris; Dueck, Arthur	204-746-2026	R
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	C
Portage; Munro, Clarke Allan & Jared Cory & Trevor Clarke	204-857-8272	S C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack).....	204-877-3813	R C
St. Claude; Rouire, Roland & Guy.....	204-379-2582	C
Warren; Riddell, Craig Thomas	204-227-5679	F

WINTER 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.

FLOURISH ☼

Elie; Lachance, J.B. Adrien & Paul M. & Lionel.....	204-353-2694	C
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RYE

BONO

Grosse Isle; Rutherford, Rick	204-467-5613	C
-------------------------------------	--------------	---

DANKO

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S F R C
Souris; Kohut, David Anton	204-483-3063	S C

HAZLET

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Brandon; Wheat City Seeds Ltd	204-727-3337	C
Carman; Menold, Ulrich & Lucas	204-745-2822	S F C
Carman; Park, Robert J.....	204-745-3304	C
Dauphin; Durston, James A.....	204-638-5483	C
Dauphin; Durston, Scott L.....	204-638-5569	S F
Holland; Patenaude, Donald & Robert	204-526-2391	R
Morris; Dueck, Arthur	204-746-2026	C
St. Claude; Rouire, Roland & Guy.....	204-379-2582	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	R C



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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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Oilseed Crops

Variety Description Key

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

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

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

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

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

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

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

Key to 2016 Yield Tables

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

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

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

Canola Comments

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

Soybean Comments

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

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- midge tolerance, high yield

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- CWRS

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Elgin ND

- CNHR

- high yield, high protein

AC® Transcend

- CWAD

- great harvestability, excellent colour retention

AC® Summit

- White Milling Oat

- high yield, plump kernels

CDC Ruffian

- White Milling Oat

- very high yield, good milling quality

Bono & Brasetto

- Hybrid Fall Rye

- highest yields, high ROI

AAC Bravo

- Flax

- large seed, good yield

Abarth

- Yellow Pea

- large seed, high yield



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



Canola Comments

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

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

Disease Ratings for Canola

Column indicating Disease Tolerance is for Blackleg and Clubroot

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

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

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

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

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CANOLA

SEE CANOLA NOTES for general information

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

Variety Description

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

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

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

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

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

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

FLAX

Comments:

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

AC Emerson demonstrates the greatest tolerance to flax chlorosis.

All varieties are immune to rust.

All varieties are susceptible to pasmo.

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

Variety Descriptions

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

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

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

Yield Comparisons

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

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SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

Maturity Notes:

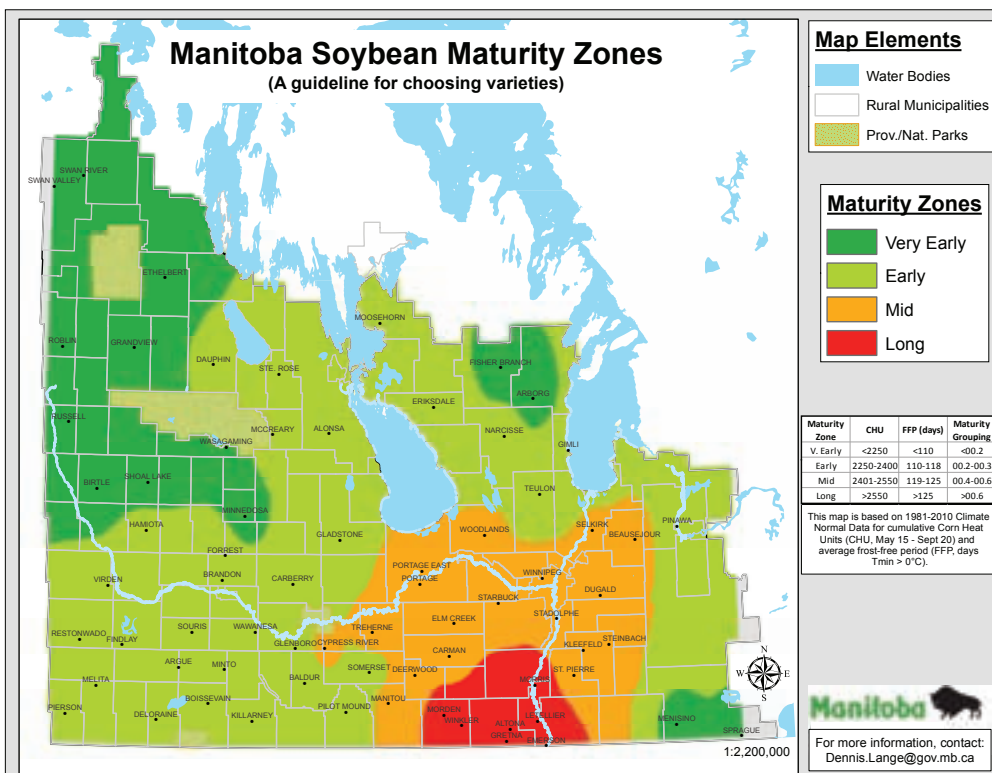
- 1 Soybean varieties have been organized into 4 maturity zones - very early, early, mid and long season areas.
- 2 Maturity grouping is a ranking of maturity provided by seed suppliers. These rankings are assigned to varieties to assist growers to select varieties suited for their area.
- 3 Relative days to maturity is the number of days from seeding to plant maturity (95% of the pods on the plant are mature with seeds rattling in the pods when plant is shaken) and is expressed as + or - days from the check. Growers need to be cautious when using only one year data when evaluating maturity and yield. Using multiple year maturity data when available will give you a better indication on how a variety will mature with different growing seasons. Actual days to maturity for the check is found in the grey Check Box at the bottom of the table.

General Notes:

- 1 Roundup Ready and Conventional soybean varieties are evaluated separately, meaning direct comparison of varieties between different tables is not possible. All trials are solid seeded at 210,000 seeds/acre.
- 2 Hilum colour can range from Yellow (Y), Imperfect Yellow (IY), Grey (G), Brown (BR), Buff (BF), Tan(TN), Clear (CL), Imperfect Black (IB), or Black (BL) and is solely a marketing issue. The hilum is the point on the soybean seed where it attaches to the pod.
- 3 Relative Seeds/lb, these were the seed numbers of the varieties entered into the trial. Soybean seed size can vary greatly between varieties and even from seed lot to seed lot of the same variety. Growers should use the seed size for their seed lot when calculating seeding rates.
- 4 Lodging is rated at harvest; 1=standing upright, 5= flat along the ground. A rating of 3 or more can promote white mold within the crop canopy.
- 5 Iron Deficiency Chlorosis (IDC) rating scores 1=green leaves, 2=yellowish leaves, 3=green veins with yellow leaves, 4=brown dead tissue between green veins, 5=severe chlorosis and a stunted growing point. Ratings were taken from sites prone to iron chlorosis over the last 3 years. IDC tolerant varieties are varieties with lower IDC Scores and perform better on soils prone to iron deficiency.
- 6 Iron Deficiency Chlorosis (IDC) grouping is used because varieties will have different visual rating scores from year to year. Numerical ratings which are close but are in different groupings will show similar symptoms. Both numerical and groupings should be considered together when judging IDC. Tolerant=leaves stayed green, Semi Tolerant=leaves when yellow then turned green, Susceptible= leaves went chlorotic and had dead patches on their leaves and were often stunted.

MANITOBA SOYBEAN MATURITY MAP

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



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

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready 2 Xtend™ soybeans contain genes that confer tolerance to glyphosate and dicamba. Agricultural herbicides containing glyphosate will kill crops that are not tolerant to glyphosate, and those containing dicamba will kill crops that are not tolerant to dicamba. Contact your Monsanto dealer or call the Monsanto technical support line at 1-800-667-4944 for recommended Roundup Ready® Xtend Crop System weed control programs. Genuity®, Roundup Ready 2 Xtend™, Roundup Ready 2 Yield® and Roundup Ready® are trademarks of Monsanto Technology LLC, Monsanto Canada Inc. Licensee. ©2016 Monsanto Canada Inc.



WESTERN MANITOBA SOYBEAN ADAPTATION TRIAL

Comments:

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

Variety Descriptions

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

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CONVENTIONAL SOYBEANS

New for 2017

Variety	Previous Code	Distributor
AAC Halli ^⓪	OT13-07	Interlake.org Inc
AAC Springfield ^⓪	OT13-05C	Springfield Mills

Comments:

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

Variety Descriptions

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

1 Maturity Ratings for 2016 are average across, Morris, St. Adolphe.

2 Lodging ratings are average across Morris and St. Adolphe sites.

3 Iron Deficiency Chlorosis (IDC) Groupings; T=Tolerant, ST=Semi-Tolerant, S=Susceptible



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CONVENTIONAL SOYBEANS (continued)

Yield Comparisons

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

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ROUNDUP READY SOYBEANS

New for 2017

Variety	Previous Code	Distributor
HYDRA R2	CFS13.3.01 R2	Brett Young
TAMULA R2	TAMULA R2	Brett Young
DS0067Z1	DS0067Z1	Dow Seeds
24-12RY	24-12RY	DEKALB
P005T13R0	P005T13R0	DuPont Pioneer
P006T46R0	P006T46R0	DuPont Pioneer
NSC Austin RR2Y	AR1310870	Northstar Genetics Manitoba
NSC LEROY RR2Y	NSC LEROY RR2Y	Northstar Genetics Manitoba
NSC Watson RR2Y	NSC Watson RR2Y	Northstar Genetics Manitoba
S001-B1	CW1410087	Syngenta Canada
S003-L3	AR1215503	Syngenta Canada
S006-W5	AR1210501	Syngenta Canada
Torro R2	PR1418113R2	Quarry Seed Ltd.
Kosmo R2	PR9010RR2Y.43	Quarry Seed Ltd.

Variety Descriptions

Manitoba Variety Zone	Company Maturity Grouping	Variety	Type ¹	Relative Days to Maturity ² + / - of Check				Yield % Check	Site Years Tested	Hilum Colour	Lodging ³	IDC ⁴		Resistance to:	
				Average	2016	2015	2014					Rating (1-5)	Grouping	SCN ⁵	PRR ⁶
Very	000.6	NSC LEROY RR2Y	R2Y	-10	-10	—	—	83	5	Y	1.5	2.2	ST	—	—
Early	00.2	P002T04R0	RR1	-8	-6	-9	-9	81	18	TN	1.1	2.2	ST	—	1k
Season Zone	000.9	22-60RY	R2Y	-7	-7	-7	-6	89	18	BL	1.0	2.1	ST	—	1c
	000.9	S0009-M2	R2Y	-6	-6	-6	—	88	11	IY	1.8	2.2	ST	—	Rps6
	000.8	NSC Watson RR2Y	R2Y	-5	-5	-6	—	86	11	IY	1.5	1.9	ST	—	—
	00.1	NSC Reston RR2Y	R2Y	-4	-4	-3	-5	91	30	BL	1.2	2.7	S	—	1k
	00.2	LS Northwester	R2Y	-4	-2	-5	-4	86	18	BL	1.5	2.0	ST	—	—
	00.2	Bishop R2	R2Y	-3	-1	-4	-5	90	35	IY	1.8	2.3	S	—	—
	000.9	23-11RY	R2Y	-3	-2	-3	-5	94	18	BL	1.1	1.7	T	—	1c
	00.1	Notus R2	R2Y	-3	-4	-3	-3	94	18	BL	1.0	1.7	T	—	1c
Early	00.3	Mahony R2	R2Y	-3	-2	-3	-4	100	18	BL	1.4	2.9	S	—	—
	00.1	S001-B1	R2Y	-3	-3	—	—	98	5	Y	1.3	1.9	ST	—	—
	00.3	McLeod R2	R2Y	-3	-2	-3	-4	95	30	BL	1.4	1.8	ST	—	—
Season	00.5	S007-Y4	R2Y	-3	-2	-3	-4	104	24	IY	1.1	2.0	ST	—	1c
	000	Torro R2	R2Y	-3	-2	-4	—	89	11	BL	2.3	2.4	S	—	—
Zone	00.2	23-60RY	R2Y	-2	-1	-2	-4	100	24	BL	1.5	1.7	T	—	—
	00.3	S003-L3	R2Y	-2	-1	-3	—	95	11	BR	1.5	2.2	ST	—	—
	00.6	P006T78R0	RR1	-2	0	-4	-2	95	18	BR	1.1	2.2	ST	—	1c
	00.3	PS 0035 NR2	R2Y	-2	0	-2	-4	99	24	BL	1.7	1.9	ST	Yes	—
	00.3	NSC Austin RR2Y	R2Y	-2	-1	-3	—	93	11	Y	1.1	2.2	ST	—	—
	00.4	TH 32004R2Y	R2Y	-2	-1	-1	-2	99	38	BL	1.4	1.9	ST	—	1c
Experimental lines that are being tested / proposed for registration in Canada															
	000	CFS16.3.01R2	R2Y	-6	-6	—	—	92	5	IB	1.5	2.2	ST	—	—
	000.9	EXP 000917R2	R2Y	-6	-6	—	—	85	4	BL	1.8	1.7	T	—	—
	00.4	PS 0055 R2	R2Y	-1	1	-3	-2	97	17	IY	1.2	1.8	ST	—	1k
	00.3	Akras R2	R2Y	-1	-1	-2	-1	102	29	BL	1.1	1.7	T	—	1k
	00.3	NSC Gladstone RR2Y	R2Y	-1	0	-1	-3	98	24	BL	1.3	2.1	ST	—	—
	00.2	TH 35002R2Y	R2Y	-1	0	-1	-3	93	18	BL	1.7	2.3	S	—	—
Mid	00.2	LS 002R24N	R2Y	-1	1	-1	-3	102	24	BL	1.8	2.0	ST	Yes	—
	00.6	P006T46R0	RR1	-1	-1	—	—	103	5	BR	1.6	2.1	ST	—	1c
	00.6	Chadburn R2	R2Y	0	0	0	-1	97	37	BL	1.5	1.7	T	—	—
	00.6	S006-W5	R2Y	0	0	-1	—	111	10	IY	1.2	2.6	S	—	1a,3a
Season	00.3	LS 003R24N	R2Y	0	2	0	-3	97	23	BL	1.8	1.9	ST	Yes	1c,1k
	00.5	Lono R2	R2Y	0	0	-1	0	103	24	BL	1.2	2.0	ST	—	1k
	00.5	P005T13R0	RR1	0	0	—	—	91	5	BR	1.2	1.8	ST	—	—
Zone	00.5	TH 33005R2Y	R2Y	0	0	-1	0	102	29	BL	1.1	1.9	ST	—	1c,1k
	00.5	24-10RY	R2Y	0	0	0	0	100	48	BL	1.4	1.9	ST	—	1k
	00.8	P008T70R0	RR1	0	2	-1	-1	100	24	TN	1.6	1.9	ST	—	1k
	00.6	TH 34006R2Y	R2Y	1	2	0	0	101	22	BL	1.8	2.1	ST	—	—
	00.7	HS 007RY32	R2Y	1	2	2	-1	101	22	BL	1.3	1.9	ST	—	1c,1k
	00.5	Gray R2	R2Y	1	3	1	0	98	30	BL	1.9	1.9	ST	—	1c
	00.3	LS Maidan	R2Y	1	1	1	—	98	10	Y	1.4	2.2	ST	—	—
	00.4	NSC Tilston RR2Y	R2Y	1	4	1	-1	97	34	BL	1.7	1.8	ST	—	—

Manitoba Variety Zone	Company Maturity Grouping	Variety	Type ¹	Relative Days to Maturity ² + / - of Check			Yield % Check	Site Years Tested	Hilum Colour	Lodging ³	IDC ⁴		Resistance to:		
				Average	2016	2015					2014	Rating (1-5)	Grouping	SCN ⁵	PRR ⁶
	00.6	HS 006RYS24	R2Y	1	4	2	-2	97	35	BL	2.1	1.7	T	Yes	—
	00.4	Hero R2	R2Y	1	3	1	0	103	24	BL	1.9	2.2	ST	—	1c
	00.8	P008T22R2@	R2Y	1	3	1	1	103	24	BL	1.5	1.6	T	—	1c
	000	Kosmo R2	R2Y	1	1	—	—	89	5	IY	1.6	2.1	ST	—	—
	00.3	TH 33003R2Y	R2Y	2	3	2	-1	98	37	BR	2.2	2.1	ST	—	1c
	00.6	PRO 2525R2	R2Y	2	4	3	0	104	17	BL	1.8	1.7	T	—	1c
	00.7	NSC Richer RR2Y	R2Y	2	4	2	1	103	32	BL	1.8	1.6	T	—	1c
	00.5	24-12RY	R2Y	2	2	—	—	103	5	BL	1.9	2.0	ST	—	—
Experimental lines that are being tested / proposed for registration in Canada															
	00.4	CW1410185	R2Y	-1	-1	—	—	104	5	BR	1.2	1.9	ST	—	1c
	00.2	LS SOLAIRE	R2Y	0	0	—	—	93	5	BL	1.2	2.4	S	—	—
Long Season Zone	00.5	TAMULA R2	R2Y	3	3	—	—	102	5	Y	1.6	2.6	S	—	—
	00.5	LS 005R22	R2Y	3	7	3	1	97	27	BL	2.2	1.8	ST	—	1k,1c
	00.8	Currie R2	R2Y	4	5	3	3	102	33	BL	1.6	1.8	ST	—	1k
	00.6	DS0067Z1	R2Y	4	4	—	—	113	5	BL	1.6	1.7	T	—	—
	00.5	LS Eclipse	R2Y	4	5	3	—	102	10	BL	2.0	2.2	ST	Yes	1k,1c
	00.7	PS 0074 R2	R2Y	4	6	3	3	105	27	BR	2.8	1.7	T	—	—
	00.8	Podaga R2	R2Y	4	6	4	3	97	16	Y	1.8	2.0	ST	—	1k
	0.1	HYDRA R2	R2Y	5	7	5	3	99	16	BL	2.0	2.1	ST	—	1k
	00.8	Astro R2	R2Y	6	7	5	4	108	32	BL	1.8	1.7	T	—	1k
	00.7	TH 36007R2Y	R2Y	7	8	5	—	96	10	BI	2.6	2.4	S	—	—
	00.9	PRO 2535R2	R2Y	7	10	6	6	104	16	BL	2.1	1.8	ST	—	1k
Experimental lines that are being tested / proposed for registration in Canada															
	00.4	EXP TH 37004R2Y	R2Y	3	3	—	—	103	5	BL	1.8	2.0	ST	—	—
	00.4	LS MISTRAL	R2Y	5	5	—	—	113	4	BL	1.4	1.6	T	—	1c
	00.7	AR1215342	R2Y	5	5	—	—	106	4	BR	1.7	2.0	ST	—	—
	00.9	NSC Jordan RR2Y	R2Y	6	6	—	—	105	4	BL	1.6	2.2	ST	—	—
CHECK CHARACTERISTICS				24-10RY	116	118	113	118	53	48					
								bu/acre	site years						

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

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ROUNDUP READY SOYBEAN (continued)

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

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



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SUNFLOWERS - NON-OIL TYPE

Comments:

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

Disease Management:

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

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

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

Variety Descriptions

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

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

Site Comparisons

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

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

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SUNFLOWERS - OIL TYPE

Comments:

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

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

Variety Descriptions

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

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

Site Comparisons

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

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

Distributor Contacts for Listed Varieties in Seed Manitoba 2017

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

CANOLA

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

FLAX

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

CONVENTIONAL SOYBEANS

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

ROUNDUP READY SOYBEANS

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

ROUNDUP READY SOYBEANS

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

SUNFLOWERS

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

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

Growers List



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

AAC BRAVO☉

Boissevain; Froese, Wesley A.J. & Ian204-534-6846 C
Domain; Manness, Ronald & Patricia & Graeme204-736-2622 F

AC NUGGET☉

Oak Bank; Kyle, Lorne C. & C. Angus204-822-4396 S

CDC BETHUNE☉

Cromer; Bartel, Bob204-662-4580 C *
Notre Dame; Durand, Gabriel A. & Marc204-248-2268 R *
Oak Lake; Smith, Gerald R. & Leigh E.204-855-3128 R *
Reston; Greig, Fred L. & Fotheringham, John A. (Jack) 204-877-3813 R *

CDC GLAS☉

Carman; Menold, Thomas204-745-3377 C *
Crandall; Doupe, Neil D.204-562-3632 R C *
Crystal City; Buchanan, Kenneth S. & Dean K.204-873-2661 C *
Darlingford; Dudgeon, Gilbert Arthur204-246-2357 C *
Elphinstone; Gerrard, Jody204-759-2213 C *
Fannystelle; Nadeau, Brian204-436-2469 C
Foxwarren; Graham, George Arthur204-683-2367 C *
Miniota; Walker, Alan Glen204-567-3647 R C *
Notre Dame; Durand, Gabriel A. & Marc204-248-2268 S F
Oak River; Henry, Cameron & Mc Lean, Eric204-566-2422 C *
Winnipeg; James, David G.204-222-8785 C *

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CDC NEELA☉

Fannystelle; Nadeau, Brian204-436-2469 R
Reston; Greig, Fred L. & Fotheringham, John A. (Jack) 204-877-3813 R

CDC PLAVA☉

Carman; Menold, Thomas204-745-3377 F
Foxwarren; Graham, George Arthur204-683-2367 S

CDC SORREL☉

Decker; Murray, Donald H. & Ryan204-764-2733 C *
Foxwarren; Graham, George Arthur204-683-2367 C *
Portage; Pugh, William G. & B.M. & Victoria204-274-2179 C *
Rosburn; Mitchell, John204-859-2431 C *
Stonewall; Unger, Ronald K. & Darcy204-467-8630 R

HANLEY☉

Sanford; Bergen, Edward Harry & Tim204-736-2278 F

LIGHTNING☉

Holland; Zeghers, Shawn M.204-526-2366 R
Somerset; Sierens, Joseph & Chris204-744-2883 C
Wawanesa; Ellis, Warren P. & Simon204-824-2290 S R

PRAIRIE SAPPHIRE☉

Elphinstone; Gerrard, Jody204-759-2213 R

WESTLIN 70

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

WESTLIN 72☉

Gilbert Plains; Tokar, Bob & Stoughton, Murray204-548-2805 R

MUSTARD

ANDANTE

Foxwarren; Graham, George Arthur204-683-2367 F

SOYBEANS

0077 XRN

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

23-60RY

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

24-10RY

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

24-12RY

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

AAC EDWARD☉

Arborg; Johnson, Reginald H., James G. & Tim G.204-642-2570 C
Carman; Menold, Ulrich & Lucas204-745-2822 F

AAC SPRINGFIELD☉

Oak Bank; Kyle, Lorne C. & C. Angus204-822-4396 S F

AKRAS R2

Arnaud; Penner, Doyle204-427-2392 R
Dauphin; Kaleta, James & Debra204-638-7800 C
Lac Du Bonnet; Mc Intosh, Paul Ramsay204-268-5081 C

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Somerset; Sierens, Joseph & Chris204-744-2883 R
 St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....204-355-4495 R
 St. Norbert; Brett-Young Seeds Limited.....204-261-7932 S F R C

BARKER R2X

Altona; Wiebe, Henry D. & Lloyd204-324-8036 R
 Carman; Park, Robert J.....204-745-3304 S R
 Darlingford; Wilson, James M.....204-246-2388 R
 Dufrost; Catellier, Patrick Raymond.....204-347-5503 R
 Morris; Hamblin, Donald & Bradley204-209-0506 R
 Portage; Askin, Raymond T. & Jeffrey S.....204-274-2417 S R
 Warren; Riddell, Craig Thomas204-227-5679 S F R

BARRON R2X

Arborg; Timchishen, Donald Victor & Darcy204-641-1288 R
 Brandon; Wheat City Seeds Ltd.....204-727-3337 R
 Carman; Krahn, Myron204-745-1938 R
 Dauphin; Kaleta, James & Debra204-638-7800 F
 Oak River; Henry, Cameron & Mc Lean, Eric204-566-2422 R
 Plumas; Court, Randolph A. & Tracy L.....204-386-2354 R
 Wawanesa; Ellis, Warren P. & Simon.....204-824-2290 R

BISHOP R2

Arborg; Timchishen, Donald Victor & Darcy204-641-1288 R C

CBZ814A1-C0DNN

Brandon; Wheat City Seeds Ltd.....204-727-3337 R
 Kenton; Stevenson, Robert H. & Sidney H.....204-838-2012 S
 Stonewall; Quarry Seed Ltd.....204-467-8877 S F R

SOYBEANS

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CURRIE R2

Altona; Wiebe, Henry D. & Lloyd204-324-8036 C

DH863

Winnipeg; Cloutier, Denis C.....204-261-4532 R C

DOMINGO RX2

Morris; Dueck, Arthur204-746-2026 S C
 Stonewall; Quarry Seed Ltd.....204-467-8877 R C

GRAY R2

Carman; Park, Robert J.....204-745-3304 S F R
 Oakville; Miller, Darcy Charles204-267-2363 R
 Portage; Askin, Raymond T. & Jeffrey S.....204-274-2417 R

GS1001

Sprague; Gowan, Ralph T.....204-437-4641 S

HERO R2

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

HYDRA R2

St. Norbert; Brett-Young Seeds Limited.....204-261-7932 R

LONO R2☽

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

WHEAT

- > AAC Brandon
- > AAC Elie
- > Cardale
- > AAC Penhold
- > SY Rowyn
- > Faller
- > Elgin ND

OATS

- > Summit
- > Souris
- > Camden

YELLOW PEAS

- > AAC Carver
- > AC Agassiz

SOYBEANS

- > Gladstone
- > Starbuck
- > Richer
- > Arnaud
- > PS 0074

SEED TREATMENTS & INOCULANTS



Wheat
 AC Brandon
 Cardale

Oats
 Souris
 CS Camden New

Soybeans
Conventional
 OAC Prudence
 OAC Erin

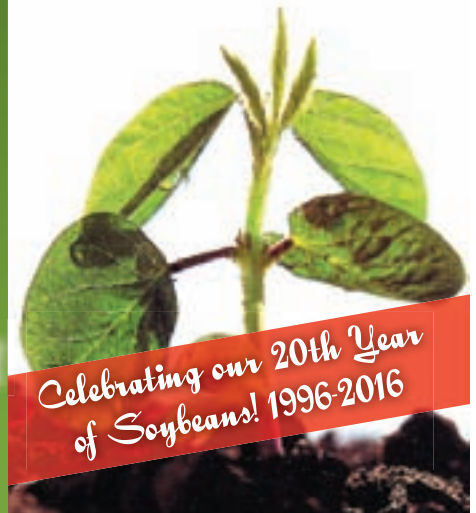
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LS ECLIPSE

Winkler; Delmar Commodity Ltd. (Mb Acct) 204-331-3696 S F R C

LS MAIDAN

Winkler; Delmar Commodity Ltd. (Mb Acct) 204-331-3696 S R

LS NORTHWESTER

Winkler; Delmar Commodity Ltd. (Mb Acct) 204-331-3696 S R

LS002R24N

Winkler; Delmar Commodity Ltd. (Mb Acct) 204-331-3696 S F R C

LS003R24N

Winkler; Delmar Commodity Ltd. (Mb Acct) 204-331-3696 S F R C

LS005R22

Winkler; Delmar Commodity Ltd. (Mb Acct) 204-331-3696 S F R C

MAHONY R2

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 C
 Arborg; Timchishen, Donald Victor & Darcy 204-641-1288 C
 Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 C
 Brandon; Wheat City Seeds Ltd. 204-727-3337 C
 Darlingford; Wilson, James M. 204-246-2388 F C
 Dauphin; Kaleta, James & Debra 204-638-7800 C
 Dufrost; Catellier, Patrick Raymond 204-347-5503 C
 Kenton; Stevenson, Richard D.O. & Douglas 204-838-2696 C
 Miniota; Walker, Alan Glen 204-567-3647 R

SOYBEANS

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Oak Bluff; Anseeuw, Mark J. 204-895-8375 C
 Oak Bluff; Gousseau, Marcel E. 204-895-1357 C
 Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 C
 Oakville; Miller, Darcy Charles 204-267-2363 R C
 Portage; Askin, Raymond T. & Jeffrey S. 204-274-2417 C
 Rivers; Redsper Ent. Ltd. 204-328-5346 C
 St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-355-4495 C
 St. Norbert; Brett-Young Seeds Limited. 204-261-7932 R
 Stonewall; Unger, Ronald K. & Darcy 204-467-8630 C
 Warren; Riddell, Craig Thomas 204-227-5679 S F C
 Wawanesa; Ellis, Warren P. & Simon 204-824-2290 R C
 Winnipeg; James, David G. 204-222-8785 C

MARDUK R2X

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

MCLEOD R2

Brandon; Wheat City Seeds Ltd. 204-727-3337 C
 Darlingford; Wilson, James M. 204-246-2388 R
 Dauphin; Kaleta, James & Debra 204-638-7800 C
 Dufrost; Catellier, Patrick Raymond 204-347-5503 C
 Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 C
 Oakville; Miller, Darcy Charles 204-267-2363 R
 Portage; Askin, Raymond T. & Jeffrey S. 204-274-2417 R
 Portage; Pugh, William G. & B.M. & Victoria 204-274-2179 C
 St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-355-4495 C
 Virden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany 204-748-2666 C
 Warren; Riddell, Craig Thomas 204-227-5679 R
 Wawanesa; Ellis, Warren P. & Simon 204-824-2290 C
 Winnipeg; James, David G. 204-222-8785 C

NOTUS R2

Dauphin; Kaleta, James & Debra 204-638-7800 C
 Reston; Greig, Fred L. & Fotheringham, John A. (Jack) 204-877-3813 C
 St. Norbert; Brett-Young Seeds Limited. 204-261-7932 S F R C

NSC ANOLA RR2Y

Grosse Isle; Rutherford, Rick 204-467-5613 C
 Rosenort; Friesen, Lloyd 204-746-8198 C

NSC ARNAUD RR2Y

Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 C
 Domain; Pitura, Carl & Calvin C. & Connor J. 204-736-2849 R
 & Greaves, Tom 204-736-2849 R
 Plum Coulee; Giesbrecht, Raymond J. & Clayton J. 204-829-3365 C
 Rosenort; Friesen, Lloyd 204-746-8198 C
 Winnipeg; Northstar Genetics, 204-262-2421 C

NSC AUSTIN RR2Y

Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S C
 Domain; Pitura, Carl & Calvin C. & Connor J. 204-736-2849 R
 & Greaves, Tom 204-736-2849 R
 Fannystelle; Nadeau, Brian 204-436-2469 R
 Grosse Isle; Rutherford, Rick 204-467-5613 C
 Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 C
 Plum Coulee; Giesbrecht, Raymond J. & Clayton J. 204-829-3365 R
 Rosenort; Friesen, Rick 204-746-8325 R
 Winnipeg; Northstar Genetics, 204-262-2421 C

NSC EXP114 RRX2

Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 R
 Fannystelle; Nadeau, Brian 204-436-2469 C
 Grosse Isle; Rutherford, Rick 204-467-5613 F C
 Homewood; Froebe, Bruce D. & Murray 204-745-6655 C
 Plumas; Court, Randolph A. & Tracy L. 204-386-2354 R
 Reston; Greig, Fred L. & Fotheringham, John A. (Jack) 204-877-3813 C

NSC GLADSTONE RR2Y

Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 R
 Domain; Pitura, Carl & Calvin C. & Connor J. 204-736-2849 C
 & Greaves, Tom 204-736-2849 C
 Fannystelle; Nadeau, Brian 204-436-2469 R

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Grosse Isle; Rutherford, Rick	204-467-5613	C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	C
Plum Coulee; Giesbrecht, Raymond J. & Clayton J.	204-829-3365	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Rosenort; Friesen, Lloyd	204-746-8198	C

NSC LIBAU RR2Y

Grosse Isle; Rutherford, Rick	204-467-5613	C
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NSC RESTON RR2Y

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Rutherford, Rick	204-467-5613	S F C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	C

NSC RICHER RR2Y

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	R C
Domain; Pitura, Carl & Calvin C. & Connor J.		
& Greaves, Tom	204-736-2849	R C
Fannystelle; Nadeau, Brian	204-436-2469	F R
Homewood; Froebe, Bruce D. & Murray	204-745-6655	R
Plum Coulee; Giesbrecht, Raymond J. & Clayton J.	204-829-3365	R
Rosenort; Friesen, Lloyd	204-746-8198	R
Winnipeg; Northstar Genetics,	204-262-2421	R C

NSC SANFORD R2Y

Rosenort; Friesen, Rick	204-746-8325	C
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NSC STARBUCK RRX2

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	R
Domain; Pitura, Carl & Calvin C. & Connor J.		
& Greaves, Tom	204-736-2849	S F R
Fannystelle; Nadeau, Brian	204-436-2469	R

SOYBEANS

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Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	R
Plum Coulee; Giesbrecht, Raymond J. & Clayton J.	204-829-3365	R
Rosenort; Friesen, Lloyd	204-746-8198	R
Rosenort; Friesen, Rick	204-746-8325	R
Winnipeg; Northstar Genetics,	204-262-2421	R

NSC TILSTON RR2Y

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Plum Coulee; Giesbrecht, Raymond J. & Clayton J.	204-829-3365	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Winnipeg; Northstar Genetics,	204-262-2421	C

NSC WATSON RR2Y

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	R
Domain; Pitura, Carl & Calvin C. & Connor J.		
& Greaves, Tom	204-736-2849	S F R
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Rutherford, Rick	204-467-5613	R C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Somerset; Sierens, Joseph & Chris	204-744-2883	C

PODAGA R2

St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	S F R
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PRO 2525R2

Winkler; Delmar Commodity Ltd. (Mb Acct)	204-331-3696	S F R C
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PRO 2535R2

Winkler; Delmar Commodity Ltd. (Mb Acct)	204-331-3696	R
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TAMULA R2☉

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F

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Pulse Crops

Variety Description Key

A "CHECK CHARACTERISTICS" box has been placed at the bottom of each table for fababeans, field beans, peas and lentils 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 field peas displaying the "GRAND MEAN" for Yield (bu/acre) and the corresponding LSD value ($p < 0.05$).

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

"Resistance Level" ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor; "n/a" = not available

Site Years Tested is the cumulative number of locations over the years that a variety has been tested against the check variety. The more site years, the more predictable 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 2016 Yield Tables

Yields derived over 2 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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Bayer SeedGrowth[™]

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	Yield (lb/ac)	Site Years Tested	Seed Size TKW (g)	Maturity * (days)	2016 Yield % Check Variety Arborg
Colored Flower (Tannins)					
CDC Fatima	4032	34	520	105	100
CDC SSNS-1	5579	11	335	105	—
Florent	5196	8	660	107	—
Taboar	4689	13	480	107	—
Fabelle	5118	1	533	105	107
CHECK CHARACTERISTICS					
CDC Fatima (tannin)	4032	34	CDC Fatima (lb/acre)		4779
			CV%		6
			LSD (%)		10
			Sign Diff		Yes
White Flower (Zero Tannin)					
CDC Snowdrop	5028	10	335	104	81
Snowbird	5246	13	495	104	100
Tabasco	5152	8	530	106	—
CHECK CHARACTERISTICS					
Snowbird (zero tannin)	5028	10	Snowbird (lb/acre)		4033
			CV%		9
			LSD (%)		15
			Sign Diff		Yes
			Seeding Date		10-May
			Harvest Date		16-Sep

* 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 from 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	Site Years Tested	Days to ¹ Maturity	Plant ² Type
		2016	2015	2014				
Small Seeded Types					% Envoy	+/- Envoy		
Navy	Bolt	x	x		104	4	2	II
Navy	DS105W0	x			98	2	7	II
Navy	Envoy	x	x	x	100	46	0	I
Navy	Fathom	x			114	2	6	II
Navy	Lightning	x	x		106	12	2	II
Navy	Nautica	x			118	2	9	II
Navy	Portage	x	x	x	94	13	3	II
Navy	T9905	x			98	2	6	II
Navy	T9903	x			108	9	3	II
Navy	SV1893GH ^⓪	x			113	2	9	II
Black	CDC Jet	x	x	x	107	37	2	II
Black	CDC Superjet	x	x	x	114	16	1	II
Black	CDC Blackstrap ^⓪	x	x	x	119	13	1	II
Large Seeded Types					% CDC Pintium	+/- CDC Pintium		
Pinto	CDC Pintium	x	x	x	100	46	0	I
Pinto	CDC Marmot	x	x	x	113	16	1	I
Pinto	CDC WM-2	x	x	x	119	18	4	II
Pinto	Medicine Hat ^⓪	x	x		110	10	5	II
Pinto	AC Island	x	x	x	118	10	2	II
Pinto	SV6139GR ^⓪	x			176	2	1	II
Pinto	SV6533GR ^⓪	x			159	2	0	II
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Navy	3458-7	x	x	x	106	10	-2	II
Navy	2918-25	x	x	x	122	11	-3	II
Navy	NA6-27-2	x			113	2	5	II
CHECK CHARACTERISTICS								
	Bean Grouping				Check Varieties	Yield (lbs/acre)	Site Years	Days to Maturity
	Small seeded				Envoy	1961	46	100
	Large seeded				CDC Pintium	2075	46	96

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

2 Growth Habit: I- determinate bush, II - indeterminate bush, III - indeterminate vine

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FIELD BEANS — Wide Row Trials

New for 2017

Variety	Previous Code	Type	Distributor
SV1893GH0	NAV-1200	Navy	CANTERRA SEEDS
SV6139GR0	PIN-1012	Pinto	CANTERRA SEEDS
SV6533GR0	PIN-1314	Pinto	CANTERRA SEEDS
SV6894GB0	BKB-1312	Black	CANTERRA SEEDS

Comments:

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

Long term yield data and days to maturity are from MPSG trials. Results are from row crop trials located at Morden, Portage, Carman, and Winkler sites.

Variety Descriptions¹

MARKET CLASS/Variety	Years tested				Yield % of Check	Site Years Tested	Days to Maturity +/- Check
	2016	2015	2014	2013			
NAVY					% of Envoy		+/- Envoy
Bolt		x	x	x	112	7	2
Cargo		x	x	x	103	44	1
DS105W0	x	x			134	5	6
Envoy	x	x	x	x	100	66	0
Fathom	x	x			133	5	3
Indi	x	x	x	x	129	14	2
Lightning	x	x	x	x	119	26	1
Nautica	x	x		x	124	6	4
OAC Spark		x	x	x	97	24	-3
Portage	x	x	x	x	120	22	1
SV1893GH0	x	x	x	x	115	9	4
T9903	x	x	x	x	119	42	1
T9905	x	x	x	x	132	22	4
Varieties that are registered in the US or being tested or proposed for registration in Canada							
96-3156		x			94	3	-3
GNS 2884-4	x	x			113	5	8
Cascade		x	x	x	114	11	4
Teton		x	x	x	111	11	3
NA196	x				159	2	0
OB-1406-09		x			92	3	8
OB-4179-03		x			112	3	6

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MARKET CLASS/Variety	Years tested				Yield % of Check	Site Years Tested	Days to Maturity +/- Check	
	2016	2015	2014	2013				
PINTO								
					% of Windbreaker		+/- Windbreaker	
CDC WM-2☉	x	x	x	x	80	15	-2	
Windbreaker	x	x	x	x	100	45	0	
SV6139GR☉	x	x	x	x	100	15	-3	
SV6533GR☉	x	x	x		95	7	-1	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
11278	x	x			104	6	-1	
GNS 1259-60	x	x			67	6	-3	
DCL-2016	x				98	3	1	
El-Diablo FU	x	x			92	5	-1	
Eldorado		x			102	3	5	
GNS 1173-1	x	x			79	6	0	
GNS 12-11	x				62	3	-8	
GNS 12-441	x				80	6	1	
GTS 907	x	x	x		100	15	0	
Monterrey	x	x	x		104	10	2	
PT234-2-4		x			78	3	-1	
Radiant 12324	x				95	3	-3	
Torreon	x	x			96	6	0	
Vibrant	x	x			99	6	-1	
BLACK								
					% of Eclipse		+/- Eclipse	
CDC Blackstrap☉	x	x			81	5	-5	
CDC Jet	x	x	x	x	88	31	-3	
CDC Superjet	x	x	x	x	86	19	0	
Eclipse☉	x	x	x	x	100	31	0	
SV6894GB		x	x	x	92	7	2	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
13489	x				107	2	1	
PINK								
					% of Windbreaker		+ / - Windbreaker	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Pink Floyd	x				91	19	-4	
Rosetta	x		x		104	7	6	
GNS 13-796	x	x			86	6	3	
CRANBERRY								
					% Cran 09		+/- Cran 09	
Cran 09	x		x	x	100	55	0	
Etna	x		x	x	99	47	2	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
CR312-8	x				135	2	3	
CR318-6	x	x			112	6	5	
Krimson	x	x	x	x	91	10	4	
SV3709GC		x			116	4	1	
GREAT NORTHERN								
					% of Pink Panther		+/- of Pink Panther	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Beryl R		x	x		110	29	0	
Aries	x	x	x		139	8	1	
LIGHT RED KIDNEY								
					% Pink Panther		+/-Pink Panther	
Pink Panther	x	x	x	x	100	45	0	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Big Red		x	x		101	13	-2	
09357	x	x	x		100	9	-4	
09363	x				87	2	-2	
09378	x	x	x		95	9	-3	
Clouseau	x	x		x	98	14	0	
SMALL RED								
					% of Windbreaker		+/-Windbreaker	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Viper		x			103	3	2	
YELLOW								
					% of Windbreaker		+/- Windbreaker	
CDC Sol☉	x	x	x	x	74	21	2	
Check Varieties					First Year Tested	Yield lbs/acre	Site Years Tested	Days to Maturity
Cran 09				Cranberry	2000	1853	55	99
Eclipse				Black	2005	2382	31	100
Envoy				Navy	1994	2008	66	100
Pink Panther				Light Red Kidney	2001	1946	45	100
Windbreaker				Pinto	2002	2645	45	97

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

LENTILS

Comments:

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

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

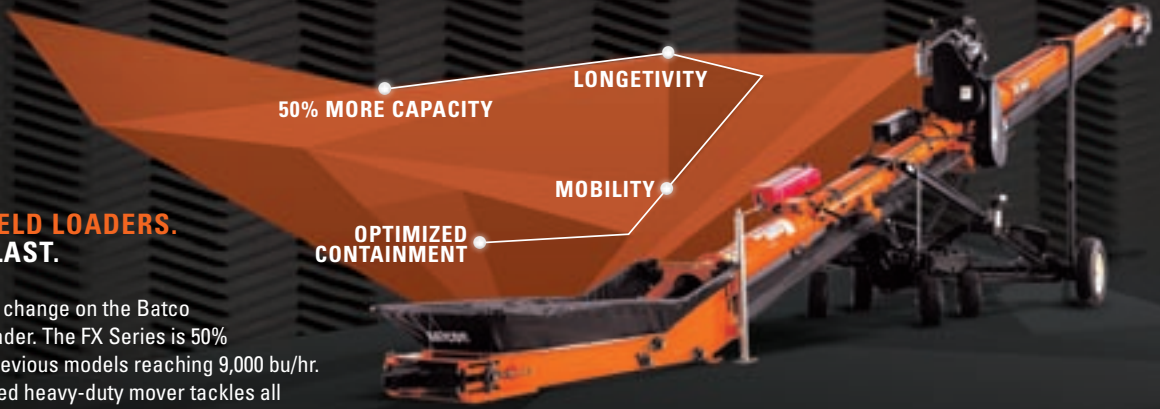
Clearfield lentils are tolerant to the herbicide Odyssey. These varieties are easily identified by the "CL" designation at the end of the name.

Variety Descriptions

Market Class	Variety	Yield % Check	Site Years Tested	Maturity Rating ¹	Resistance Level		Seed Wt (TKW)	Cotyledon Colour	2016 Yield: % of CDC Maxim Hamiota
					Ascochyta Blight	Anthracnose Race ¹			
Small green	CDC Asterix	91	6	Early	G	F	26	Yellow	74
	CDC Invincible CL	80	15	Early	G	G	35	Yellow	99
	CDC Milestone	80	10	Early	G	VP	37	Yellow	—
	Eston	82	7	Early	VP	VP	33	Yellow	—
Medium green	CDC Imigreen CL	63	11	Medium	G	F	63	Yellow	—
	CDC Impress CL	68	11	Medium	G	P	52	Yellow	—
	CDC Richlea	76	7	Medium	VP	VP	51	Yellow	—
Large green	CDC Greenland	63	10	Med/Late	G	VP	64	Yellow	—
	CDC Greenstar	88	4	Med/Late	G	F	73	Yellow	58
	CDC Impower CL	65	9	Medium	G	P	74	Yellow	50
	CDC Improve CL	70	11	Medium	F	VP	67	Yellow	—
	CDC Plato	61	11	Med/Late	G	P	62	Yellow	—
	Laird	54	7	Very Late	VP	VP	67	Yellow	—
French green	CDC Peridot CL	78	11	Early	G	P	40	Yellow	—
	CDC Marble	105	6	Early/Med	F	G	32	Yellow	67
	CDC QG-2	80	4	Early/Med	F	G	33	Yellow	59
Extra small red	CDC Robin	78	10	Early	G	G	30	Red	—
	CDC Impala CL	81	11	Early	G	G	31	Red	—
	CDC Imperial CL	77	11	Early	G	G	30	Red	—
	CDC Redbow	84	8	Early/Med	G	G	42	Red	—
	CDC Rosebud	87	10	Early	G	G	29	Red	—
	CDC Rosie	87	6	Early/Med	G	G	30	Red	74
	CDC Rosetown	88	11	Early	G	G	31	Red	—
	CDC Ruby	92	2	Early	G	G	29	Red	—
Small red	CDC Dazil	96	7	Early/Med	G	F	35	Red	72
	CDC Imax CL	82	15	Medium	G	G	50	Red	82
	CDC Impact CL	78	10	Early	G	P	34	Red	—
	CDC Maxim CL	100	17	Early/Med	G	G	40	Red	100
	CDC Red Rider	83	2	Early/Med	G	F	45	Red	—
	CDC Redberry	97	11	Early/Med	G	G	42	Red	—
	CDC Redcoat	78	8	Early	G	G	40	Red	—
	CDC Proclaim CL [†]	81	1	Early/Med	G	G	40	Red	81
	CDC Redmoon [†]	112	1	Early/Med	G	G	41	Red	112
CDC Scarlet	104	6	Early/Med	G	F	36	Red	97	
Large red	CDC-KR I	79	12	Medium	G	G	56	Red	71
CHECK CHARACTERISTICS							CDC Maxim (lb/ac)		1997
CDC Maxim		3177	17				CV%		14
		lb/ac	site years				LSD (%)		24
							Sign Diff		Yes
							Seeding Date		09-May
							Harvest Date		16-Sep

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

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FIELD PEAS

Comments:

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

New for 2017

Variety	Code	Breeder	Distributor	Seed Availability
AAC Carver	MP1920	AAFC Lacombe	Canterra Seeds	2016

Variety Descriptions

Variety	Yield (bu/acre)	Site Years Tested	Relative Maturity	Relative Vine Length	Seed Size (TSW)	Resistance Level to:							Seed coat breakage	Seed ³ coat Dimpling
						Green ¹ seed coats	Lodging	Powdery Mildew	Mycos- phaerella blight	Fusarium ² Wilt	Bleaching			
Yellow														
AAC Ardill	70	10	M	M	240	n/a	G	VG	F	G	n/a	G	n/a	
AAC Carver [Ⓞ]	73	4	M	L	240	n/a	G	VG	F	F	n/a	G	n/a	
AAC Lacombe [Ⓞ]	71	8	M	L	270	F	G	VG	F	F	n/a	G	G	
Abarth [Ⓞ]	72	10	E	M	280	G	VG	VG	F	F	n/a	F	G	
AC Earlystar	71	6	E	M	210	G	G	VG	F	F	n/a	F	G	
Agassiz [Ⓞ]	73	47	M	M	230	G	G	VG	F	F	n/a	G	F	
Argus [Ⓞ]	68	14	M	M	230	G	G	VG	F	F	n/a	F	F	
CDC Amarillo	73	10	M	M	230	G	VG	VG	F	G	n/a	F	F	
CDC Centennial	72	20	E	S	270	F	F	VG	F	F	n/a	G	G	
CDC Golden	67	52	M	M	230	G	G	VG	F	F	n/a	G	G	
CDC Hornet	69	30	M	M	220	G	G	VG	F	F	n/a	F	G	
CDC Inca [Ⓞ]	75	8	M	L	230	F	G	VG	F	F	n/a	G	G	
CDC Meadow	72	60	E	M	220	G	G	VG	F	F	n/a	G	G	
CDC Saffron	72	24	M	M	250	G	G	VG	F	F	n/a	G	F	
CDC Treasure	69	37	E	M	210	G	G	VG	F	G	n/a	F	F	
Cutlass	67	65	M*	M*	220	G	G	VG	F	F	n/a	F	F	
Polstead	69	35	M	M	280	F	G	VG	P	P	n/a	F	F	
Reward	70	20	M	L	240	F	G	VG	F	F	n/a	G	G	
SW MIDAS	69	29	E	M	220	G	G	VG	F	F	n/a	G	G	
Green														
AAC Radius	61	10	M	M	230	n/a	G	VG	F	G	VG	VG	G	
AAC Royce	69	8	M	M	250	n/a	F	VG	F	F	G	G	n/a	
CDC Greenwater	71	10	L	M	220	n/a	G	VG	F	G	G	VG	G	
CDC Limerick	70	10	L	M	210	n/a	VG	VG	F	F	G	VG	G	
CDC Patrick	66	46	M	M	190	n/a	G	VG	F	G	G	G	G	
CDC Raezer	66	11	M	M	220	n/a	VG	VG	F	G	G	G	G	
CDC Striker	65	65	M	M	230	n/a	VG	P	F	G	G	VG	G	
CDC Tetris	68	25	L	M	210	n/a	G	VG	F	G	G	G	G	
COOPER [Ⓞ]	68	47	L	M	270	n/a	G	VG	F	F	G	F	G	
Other Pea types														
CDC Dakota (Dun)	75	19	M	M	205	n/a	VG	VG	F	n/a	n/a	G	VG	
CDC Horizon (Silage)	62	17	M	L	170	G	G	VG	F	n/a	n/a	G	G	
CDC Leroy (Silage)	61	20	M	L	150	G	F	VG	F	n/a	n/a	G	G	
CDC Mosaic (Maple)	59	17	L	M	180	n/a	G	VG	F	n/a	n/a	G	VG	
CDC Rocket (Maple)	63	19	M	M	210	n/a	F	VG	F	n/a	n/a	G	VG	
CDC Tucker (Silage)	63	21	M	L	170	F	G	VG	F	n/a	n/a	G	G	
Stella (Silage)	57	14	L	L	220	n/a	G	VG	F	n/a	n/a	G	n/a	
GRAND MEAN (bu/ac)	64													
LSD (0.05)	4													

* The relative maturity of the variety Cutlass is 99 days (Medium). Please add 3 - 4 days for each rating beyond Medium. The relative vine length for Cutlass is 34 inches (Medium)

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

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

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

Yield Comparisons

Variety	2016 Yield (bu/ac)			
	Arborg	Hamiota	Melita	Morden
Yellow				
AAC Ardill	41	42	69	47
AAC Carver [®]	41	46	74	50
AAC Lacombe [®]	35	42	68	56
Abarth [®]	38	54	69	51
Agassiz [®]	43	46	60	46
CDC Amarillo	42	44	64	47
CDC Golden	38	35	57	48
CDC Inca [®]	42	48	58	58
CDC Meadow	39	43	65	43
CDC Saffron	46	43	68	51
Green				
AAC Radius	36	44	45	36
AAC Royce	42	45	64	44
CDC Greenwater	41	34	61	50
CDC Limerick	40	37	59	52
CDC Patrick	39	35	52	41
CDC Striker	34	48	68	48
SITE GRAND MEAN (bu/acre)	40	43	63	48
CV %	11	9	6	8
LSD (bu/ac)	8	6	9	7
Sign Diff	No	Yes	Yes	Yes
Seeding Date	10-May	09-May	02-May	02-May
Harvest Date	18-Aug	31-Aug	10-Aug	17-Aug

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Distributor Contacts for Listed Varieties in Seed Manitoba 2017

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

FABABEANS

CDC Snowdrop	University of Saskatchewan - CDC
CDC SSNS-1	University of Saskatchewan - CDC
CDC Fatima	Scoular Company Canada Inc.
Florent	Scoular Company Canada Inc.
Snowbird☺	Cyre Seed Farms
Taboar☺	Terramax Holding Corp.
Tabasco☺	Riddell Seed Co.

FIELD BEANS

NAVY (WHITE)

Bolt	Hensall District Coop
Cargo	Various Bean Dealers
Fathom	University of Guelph
Envoy	Various Bean Dealers
DS105W0	Treasure Valley Seed Company
Indi	ADM- Seed West
Lightning	Hensall District Coop
Nautica	Hensall District Coop
OAC Spark	University of Guelph
Portage	CANTERRA SEEDS
SV1893GH☺	CANTERRA SEEDS
T9903	Treasure Valley Seed Company
T9905	Treasure Valley Seed Company

PINTO

CDC Pintium	Various Bean Dealers
CDC Marmot	University of Saskatchewan
CDC WM-2☺	University of Saskatchewan
Mariah☺	CANTERRA SEEDS
Medicine Hat ☺	CANTERRA SEEDS
Windbreaker	CANTERRA SEEDS
SV6139GR☺	CANTERRA SEEDS
SV6533GR☺	CANTERRA SEEDS

BLACK

CDC Blackstrap☺	University of Saskatchewan
CDC Jet	Ben Martens Charlois & Seed
Eclipse☺	Scoular Company Canada Inc.
CDC SuperJet	Ben Martens Charlois & Seed

CRANBERRY

Cran 09	Various Bean Dealers
Etna	Seminis Vegetable Seeds

LIGHT RED KIDNEY

Pink Panther	Various Bean Dealers
--------------	----------------------

YELLOW

CDC Sol☺	Scoular Company Canada Inc.
----------	-----------------------------

DISTRIBUTOR	PHONE NUMBER
AAFC - Harrow	1-519-738-2251
ADM-Seed West.....	1-800-637-5843
Agriculture and Agri-Food Canada.....	1-613-773-1000
Alliance Seed	1-877-270-2890
Ben Martens Charolais & Seed.....	1-204-534-6952
Canseed (Canada) Ltd.....	1-780-674-2595
CANTERRA SEEDS	1-877-439-7333
Columbia Seeds	1-403-654-2158
Cyre Seed Farms	1-780-349-4775
University of Saskatchewan	1-306-966-5855
FP Genetics.....	1-877-791-1045
Hensall District Coop.....	1-204-295-3938
Hyland Seeds - beans.....	1-204-745-7179
Scoular Company Canada Inc.	1-204-829-2326
Riddell Seed Co.....	1-204-227-5679
Saskatchewan Pulse Growers	1-306-668-5556
SeCan	1-800-665-7333
SeedNet Inc.....	1-403-952-0913
Seminis Vegetable Seeds	1-519-351-7640
Treasure Valley Seed Company	1-218-791-6159
Terramax Holding Corp.....	1-306-699-7368
University of Guelph.....	1-519-824-4120
Viterra	1-204-745-6711
Wagon Wheel Seed Corporation.....	1-306-896-2647

LENTILS

CDC Asterix	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 Impact CL	Saskatchewan Pulse Growers
CDC Impala CL	Saskatchewan Pulse Growers
CDC Imperial CL	Saskatchewan Pulse Growers
CDC Impower CL	Saskatchewan Pulse Growers
CDC Impress CL	Saskatchewan Pulse Growers
CDC Improve CL	Saskatchewan Pulse Growers
CDC Imvincible CL	Saskatchewan Pulse Growers
CDC KR-1	Saskcan Pulse Trading
CDC Marble	Saskatchewan Pulse Growers
CDC Maxim CL	Saskatchewan Pulse Growers
CDC Milestone	Saskatchewan Pulse Growers
CDC Peridot CL	Saskatchewan Pulse Growers
CDC Plato	Saskatchewan Pulse Growers
CDC QG-2	Saskatchewan Pulse Growers
CDC Red Rider	Saskatchewan Pulse Growers
CDC Redberry	Saskatchewan Pulse Growers
CDC Redbow	Saskatchewan Pulse Growers
CDC Redcoat	Saskatchewan Pulse Growers
CDC Richlea	Saskatchewan Pulse Growers
CDC Robin	Saskatchewan Pulse Growers
CDC Rosetown	Saskatchewan Pulse Growers
CDC Proclaim☺	Saskatchewan Pulse Growers
CDC Redmoon☺	Saskatchewan Pulse Growers
CDC Rosie	Saskatchewan Pulse Growers
CDC Ruby	Saskatchewan Pulse Growers
CDC Scarlet	Saskatchewan Pulse Growers

FIELD PEAS

AAC Ardill	Wagon Wheel Seed Corp.
AAC Lacombe☺	SeedNet Inc
AAC Radius	Columbia Seeds
AAC Royce	Columbia Seeds
Abarth☺	FP Genetics
AAC Carver☺	CANTERRA SEEDS
AC Earlstar	CANTERRA SEEDS
Agassiz☺	CANTERRA SEEDS
Argus ☺	SeCan
CDC Amarillo	Saskatchewan Pulse Growers
CDC Centennial	Saskatchewan Pulse Growers
CDC Dakota	Saskatchewan Pulse Growers
CDC Golden	Saskatchewan Pulse Growers
CDC Greenwater	Saskatchewan Pulse Growers
CDC Horizon	Saskatchewan Pulse Growers
CDC Hornet	Saskatchewan Pulse Growers
CDC Inca	Saskatchewan Pulse Growers
CDC Leroy	Saskatchewan Pulse Growers
CDC Meadow	Saskatchewan Pulse Growers
CDC Mosaic	Saskatchewan Pulse Growers
CDC Mozart	Saskatchewan Pulse Growers
CDC Patrick	Saskatchewan Pulse Growers
CDC Prosper	Saskatchewan Pulse Growers
CDC Raezer	Saskatchewan Pulse Growers
CDC Rocket	Saskatchewan Pulse Growers
CDC Saffron	Saskatchewan Pulse Growers
CDC Striker	Saskatchewan Pulse Growers
CDC Tetris	Saskatchewan Pulse Growers
CDC Treasure	Saskatchewan Pulse Growers
CDC Tucker	Saskatchewan Pulse Growers
COOPER☺	CANTERRA SEEDS
Cutlass	Saskatchewan Pulse Growers
Eclipse☺	FP Genetics
Polstead	FP Genetics
Reward	SeCan
Sorento	FP Genetics
Stella	Alliance Seed
SW MIDAS	FP Genetics

Growers List



FABABEANS

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

FABELLE

Warren; Riddell, Craig Thomas204-227-5679 F

TABASCO☼

Glenboro; Jefferies, Ron.....204-827-2102 C
Warren; Riddell, Craig Thomas204-227-5679 S R

FIELD BEANS

WINDBREAKER

Altona; Wiebe, Henry D. & Lloyd204-324-8036 C
Portage; Sissons, Grant G., Donald Angus & Blye204-857-7341 C
Winkler; Ens, Abram E. & Chris & Friesen, Jake204-325-4658 C

FIELD PEAS

AAC ARDILL

Minto; Fraser, A. Jay C.....204-776-7722 R
Minto; Fraser, Rick G.....204-776-2047 S F R

AAC CARVER☽

Altona; Wiebe, Henry D. & Lloyd204-324-8036 R
Domain; Manness, Ronald & Patricia & Graeme204-736-2622 S F
Fannystelle; Nadeau, Brian204-436-2469 R
Glenboro; Jefferies, Ron.....204-827-2102 S R
Rosenort; Friesen, Lloyd204-746-8198 R
Sanford; Bergen, Edward Harry & Tim204-736-2278 S
Stonewall; Unger, Ronald K. & Darcy.....204-467-8630 S F R

AGASSIZ☼

Altona; Wiebe, Henry D. & Lloyd204-324-8036 R
Baldur; Desrochers, David Oscar204-535-2090 C
Darlingford; Wilson, James M.....204-246-2388 C
Domain; Manness, Ronald & Patricia & Graeme204-736-2622 F
Dufrost; Catellier, Roger & Richard204-347-5588 C
Glenboro; Jefferies, Ron.....204-827-2102 R
Rosenort; Friesen, Rick204-746-8325 C
Sanford; Bergen, Edward Harry & Tim204-736-2278 R
Virden; Heaman, Douglas J., Walter, Robert, Kenneth,
Brett & Brittany204-748-2666 S R C
Winkler; Ens, Abram E. & Chris & Friesen, Jake204-325-4658 R

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 AMARILLO

Altona; Sawatzky, John.....204-324-4018 C
Baldur; Desrochers, David Oscar204-535-2090 S
Brandon; Wheat City Seeds Ltd.204-727-3337 C
Brandon; Whetter, Rodney & Darren.....204-727-0045 C
Decker; Murray, Donald H. & Ryan.....204-764-2733 R C
Elphinstone; Gerrard, Jody.....204-759-2213 C
Foxwarren; Graham, George Arthur204-683-2367 S C
Hamiota; Knight, Ronald M. & Jeff204-764-2450 C
Kenton; Stevenson, Robert H. & Sidney H.....204-838-2012 R C
Oak Lake; Smith, Gerald R. & Leigh E.....204-855-3128 C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack) .204-877-3813 S C
Rivers; Redsper Ent. Ltd.....204-328-5346 C
St. Leon; Labossiere, Luc N. & Rejean F.....204-744-2208 C

CDC ATHABASCA☽

Baldur; Desrochers, David Oscar.....204-535-2090 S

CDC INCA☽

Baldur; Desrochers, David Oscar.....204-535-2090 S

CDC JASPER☽

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

CDC MEADOW

Crystal City; Buchanan, Kenneth S. & Dean K.....204-873-2661 C
Foxwarren; Graham, George Arthur204-683-2367 C
Hamiota; Knight, Ronald M. & Jeff204-764-2450 C
Holland; Kubinec, Anastasia.....204-526-2776 C
Holland; Patenaude, Donald & Robert204-526-2391 C
Miniota; Walker, Alan Glen204-567-3647 R C
Minto; Fraser, A. Jay C.....204-776-7722 C
Minto; Fraser, Rick G.....204-776-2047 C

CDC SPECTRUM☽

Baldur; Desrochers, David Oscar204-535-2090 S
Foxwarren; Graham, George Arthur204-683-2367 S
Minto; Fraser, A. Jay C.....204-776-7722 S
Minto; Fraser, Rick G.....204-776-2047 S
Minto; Rourke, David204-776-5557 S
Reston; Greig, Fred L. & Fotheringham, John A. (Jack) 204-877-3813 S
Swan River; Alford, Wayne G.204-734-2526 S

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Special Crops

Variety Description Key

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

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

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

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

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

Key to 2016 Yield Tables

Yields derived over two or more growing seasons are the best indicator of variety performance. For new varieties, "2016 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.

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Comments:

Buckwheat was not tested in 2016.

Variety Descriptions

Variety	Yield % Check	Site Years Tested	Days to 50% Bloom +/- Check	Height +/- Check
AC Manisoba	115	21	-3	-5
AC Springfield	115	21	-1	-13
Horizon	126	12	—	—
Koma	100	21	0	0
Koto	120	21	-2	-8
Mancan	108	21	-2	-15
Manor	111	4	—	—
CHECK CHARACTERISTICS				
Koma	1608 lb/acre	21 site years	47 days	114 cm

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10/16-51669

GRAIN CORN

Comments:

The 2016 grain corn hybrid trials were tested and the data donated by the Manitoba Corn Committee. The data presented is for one year only. Use with caution.

All hybrids are evaluated at a plant population of 30,000 plants per acre.

Yields are corrected to 15.5% moisture content.

The Manitoba Corn Committee publishes the annual results with all yearly data, as well as long term data, in their brochure which is available from the Manitoba Corn Grower's Association (204-745-6661).

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	MacGregor			Morden			St. Pierre		
				Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)
2000	P7005AM	YGCB/HX1/LL/RR2	DuPont Pioneer	133	21.9	53.0	—	—	—	116	20.7	57.3
2050	P7202AM	YGCB/HX1/LL/RR2	DuPont Pioneer	125	26.0	49.3	145	24.8	53.1	107	20.2	53.3
2050	P7211HR	HX1/LL/RR2	DuPont Pioneer	133	24.5	49.8	127	21.5	54	143	21.9	55.4
2050	P7332R	RR2	DuPont Pioneer	152	27.7	48.3	154	24.2	53.1	169	23.6	52.5
2050	TH 7673VT2P RIB	VT2P	Thunder Seed Inc.	146	26.6	51.6	—	—	—	128	22.0	56.4
2075	DKC 23-17RIB	GENVT2P	Monsanto Canada	143	25.8	51.4	139	24.9	55.9	122	22.0	56.0
2100	LR9573VT2PRIB	VT2PRIB	Delmar Commodities	122	28.0	51.0	152	25.4	55.1	142	23.1	55.3
2100	P7410HR	HX1/LL/RR2	DuPont Pioneer	125	25.0	49.2	140	22.2	52.1	168	22.0	53.5
2100	TH 7574VT2P RIB	VT2P	Thunder Seed Inc.	180	25.9	51.9	174	25.8	55.6	173	23.4	55.1
2125	LR 9474VT2PRIB	VT2PRIB	Delmar Commodities	159	31.0	48.6	179	28.7	53.6	206	24.1	53.5
2150	PV 60075RIB	VT Double Pro RIB	Crop Production Services Canada	158	24.4	52.4	163	24.2	55.7	150	24.1	55.4
2150	E44A02 R	VT2P	Elite Seeds	168	28.4	49.6	157	24.2	54.3	176	23.7	54.0
2150	E46J77 R	GT	Elite Seeds	146	27.0	50.6	155	25.3	55.6	182	21.7	57.1
2150	MZ 1340DBR	GENVT2P	Maizex Seeds Inc.	145	27.9	50.9	181	26	53.9	158	23.4	54.0
2175	PS 2210VT2P RIB	GENVT2P	DLF Pickseed Canada Inc.	174	30.7	49.3	194	27.9	53	199	23.5	54.0
2175	A4199G2 RIB	VT2P	PRIDE Seeds	138	26.9	49.5	163	23.2	55	170	23.8	40.0
2200	DKC 27-55RIB	GENVT2P	Monsanto Canada	157	28.6	49.6	—	—	—	139	24.0	55.3
2200	LR 9676VT2PRIB	VT2PRIB	Delmar Commodities	157	27.4	51.1	150	23.8	55.8	149	23.5	54.8
2200	PS 2320RR	RR2	DLF Pickseed Canada Inc.	178	30.3	49.8	195	30	54.5	148	24.5	53.3
2200	A4415G2 RIB	VT2P	PRIDE Seeds	144	27.4	52.3	140	26.3	55.5	144	23.1	56.0
2200	TH4578	RR	Thunder Seed Inc.	166	27.4	49.9	165	26.1	52.8	176	22.1	54.2
2200	TH 7677VT2P RIB	VT2P	Thunder Seed Inc.	164	28.5	49.6	188	27.6	53.6	180	26.3	53.4
2225	P7632AM	YGCB/HX1/LL/RR2	DuPont Pioneer	154	28.0	49.8	166	25.2	52.8	180	24.8	52.8
2225	E47A12 R	VT2P	Elite Seeds	156	31.5	49.2	194	28.5	53.3	172	26.5	52.2
2225	TH 7578BT2P RIB	VT2P	Thunder Seed Inc.	182	27.1	50.4	176	26	53.2	168	22.8	53.0
2250	4085	HXT/LL/RR	DOW Seeds	151	28.6	49.2	173	27.1	54.4	193	25.4	53.2
2250	X14123VH	Bt/RR	DOW Seeds	156	32.2	47.3	171	35	51.6	166	27.7	49.6
2250	39V05	RR2	DuPont Pioneer	162	27.1	49.0	158	23.9	53.7	164	23.4	55.0
2250	HZ 1550	Agrisure 3010	Horizon Seeds	148	25.1	52.4	151	26.3	55.1	170	21.8	57.1
2250	MZ 1633DBR	GENVT2P	Maizex Seeds Inc.	151	29.6	49.4	191	27.3	53.4	164	24.8	53.6
2250	NSG EXP-GT75	GT	NorthStar Genetics	133	28.2	48.8	—	—	—	135	22.6	53.4
2275	PS 2348VT2P RIB	GENVT2P	DLF Pickseed Canada Inc.	162	29.2	50.4	178	27.1	54.8	175	24.0	54.4
2275	P7958AM	YGCB/HX1/LL/RR2	DuPont Pioneer	175	25.5	49.5	169	25.2	52.7	143	24.2	54.0
2275	39V09AM	YGCB/HX1/LL/RR2	DuPont Pioneer	150	27.7	50.4	174	25.2	53.3	163	25.1	53.0
2300	4093	HXT/LL/RR	DOW Seeds	171	27.1	50.2	166	27.5	54.5	178	25.1	53.6
2300	DS80A27	SSX	DOW Seeds	164	30.7	47.2	190	30.8	51.1	183	25.2	51.6
2300	X15014VX	Bt/RR	DOW Seeds	158	31.7	47.7	181	30.7	52.2	197	26.2	52.2
2300	X15102VX	Bt/RR	DOW Seeds	153	32.6	46.4	160	26.8	51.3	151	22.6	52.8
2300	MZ 1624DBR	GENVT2P	Maizex Seeds Inc.	157	28.9	48.3	195	27.2	53.6	164	23.0	55.0
2300	NSG EXP-GT76	GT	NorthStar Genetics	142	29.5	48.6	—	—	—	142	23.9	52.7
2300	A4631G2 RIB	VT2P	PRIDE Seeds	168	29.9	50.2	173	26.2	53.9	164	23.3	54.1
2325	E49A12 R	VT2P	Elite Seeds	165	28.2	50.7	185	27.2	52.9	193	24.3	52.9
2350	HZ 675	GTGBLL	Horizon Seeds	154	30.6	50.8	179	30.9	53.9	168	24.9	53.1
2350	NSG EXP-GT78	GT	NorthStar Genetics	127	31.5	46.9	—	—	—	144	23.9	53.1
2350	A4939G2 RIB	VT2P	PRIDE Seeds	166	29.8	49.1	194	28.2	52.6	191	26.1	52.2
2350	TH 7681VT2P RIB	VT2P	Thunder Seed Inc.	177	30.0	48.5	182	26.8	52.1	182	24.9	52.6
2350	HZ 1885	Agrisure 3010	Horizon Seeds	176	27.5	51.5	168	27.5	54.3	177	23.9	54.6
2375	HZ 730GT	GT	Horizon Seeds	163	29.7	47.8	164	25.3	51.7	158	22.2	52.7
2375	A5095G2 RIB	VT2P	PRIDE Seeds	159	30.2	49.6	192	28.5	53.5	174	25.5	52.4

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	MacGregor			Morden			St. Pierre		
				Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)
2400	DKC 32-12RIB	GENVT2P	Monsanto Canada	186	29.1	48.5	194	28	52.9	198	24.3	53.5
2400	E50P52 R	VT2P	Elite Seeds	183	28.5	49.5	181	29.4	53.3	179	24.4	54.0
2450	E52V92 R	VT2P	Elite Seeds	—	—	—	182	28.8	53.4	—	—	—
2450	NSG EXP-GTCBLL80	GT	NorthStar Genetics	161	31.7	50.1	—	—	—	180	24.9	54.8
2450	NSG EXP-GT80	GT, CB, LL	NorthStar Genetics	152	27.8	51.8	—	—	—	150	23.6	54.5
2475	P8210HR	HX1/LL/RR2	DuPont Pioneer	158	30.7	47.3	176	28.7	51.8	159	22.7	53.4
2500	P8387AM	YGCB/HX1/LL/RR2	DuPont Pioneer	—	—	—	174	26.8	51	—	—	—
2500	E53B22 R	VT2P	Elite Seeds	—	—	—	190	27.4	53	—	—	—
2500	E53G52 R	VT2P	Elite Seeds	—	—	—	190	27.3	52.6	—	—	—
Site Average				155	28.4	49.7	171	26.8	53.5	164	23.7	53.6
CV%				8.7	6.4	2.7	6.1	3.7	1.1	9.0	5.0	6.3
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LSD (0.05)				22	3.0	2.1	17	1.6	0.9	24	1.9	5.5
Planting Date				May 5, 2016			May 9, 2016			May 17, 2016		
Harvest Date				October 15, 2016			October 5, 2016			October 14, 2016		

- 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 will mature in your area. Moisture content at harvest, density, and days to 50% silk are other measurements to look at when evaluating the relative maturity of a hybrid.
- The Canadian Seed Trade Association (CSTA) website provides a database for corn hybrids available in Canada, available at <http://cdnseed.org/list-of-corn-hybrids/>. Information provided includes technology brand name and refuge requirements. BT, HX1, CB, YGCB, VT2PRIB, - resistance to European corn borer; RR, RR2, GT - glyphosate herbicide tolerant; LL - Liberty herbicide tolerant.



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INDUSTRIAL HEMP

Comments:

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

THC testing for some varieties is required.

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 2017 Growing Season" report prior to seeding.

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

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

Variety Descriptions

Variety	Yield % Check	Site Years Tested	2016 Yield: % of CRS-1		
			Carberry	Melita	
Alyssa	82	13	—	—	
Anka	81	10	—	—	
Canda	109	20	110	98	
CanMa	88	3	—	—	
CFX-1	93	20	86	96	
CFX-2	94	19	78	102	
CRS-1	100	23	100	100	
Delores	97	21	93	87	
Finola☉	60	16	—	—	
Grandi☉	82	3	58	93	
GranMa	78	1	—	—	
Joey	113	15	77	93	
Jutta	94	8	—	—	
Katani☉	78	3	45	93	
Piccolo☉	77	3	53	81	
Silesia	76	13	74	102	
X59☉	100	14	89	105	
Varieties that are being evaluated for approval					
Debbie	95	13	101	101	
Judy	64	1	—	—	
CHECK CHARACTERISTICS			CRS-1 (lb/acre)	1465	808
CRS-1	1524 lb/acre	23 site years	CV%	13.7	8.9
			LSD%	19	13
			Sign Diff	Yes	Yes
			Seeding Date	20-May	30-May
			Harvest Date	13-Sep	15-Sep



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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)

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Malt Barley Marketing Package - \$88 (GST Included)

Malt Germ, Protein, Plump Test, Vomitoxin

Germination - \$25 (GST included)

Soil Germination - \$35 (GST included)

Vigour - \$38 (GST included)

Clubroot - \$95 (GST included)

Disease - please call for more info

Aphanomyces - \$113 (GST included)

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Distributor Contacts for Listed Varieties in Seed Manitoba 2017

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

BUCKWHEAT

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

GRAIN CORN

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

INDUSTRIAL HEMP

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.
Jutta	Ontario Hemp Alliance
Katani☺	Hemp Genetics International Inc.
Picolo☺	Hemp Genetics International Inc.
Silesia	Alberta Innovates Technology Futures
X59☺	Terramax

DISTRIBUTOR

PHONE NUMBER


Alberta Innovates Technology Futures.....	1-780-632-8436
Crop Production Services (Canada) Inc.	1-403-603-6000
Delmar Commodities (Legend Seeds).....	1-204-331-3696
DLF Pickseed Canada Inc. (PICKSEED).....	1-204-633-0088
Dow AgroSciences (Dow Seeds).....	1-800-265-7403
DuPont Pioneer (Pioneer).....	1-800-265-9435
Durand Seeds.....	1-204-248-2268
Elite Seeds (BrettYoung).....	1-800-665-5015
Fisher Seeds Ltd.	1-204-622-8800
Hemp Genetics International Inc.....	1-604-607-4953
Hemp Oil Canada Inc.....	1-800-289-4367
Horizon Seeds Canada Inc. (Horizon Seeds)	1-855-983-7255
Maizex Seeds Inc.....	1-877-682-1720
Mancan Genetics Ltd.	1-204-822-4396
Monsanto Canada Inc. (DEKALB).....	1-800-667-4944
Northstar Seed Ltd.....	1-800-430-5955
NorthStar Genetics Ltd.....	1-204-262-2425
Ontario Hemp Alliance.....	1-613-281-2734
Parkland Industrial Hemp Growers Coop Ltd.....	1-204-629-4367
PhytoGene Resources Inc.....	1-613-240-4120
PRIDE Seeds.....	1-800-265-5280
SeCan.....	1-800-665-7333
Springfield Mills Inc.....	1-204-362-1524
Thunder Seed Canada Inc.	1-306-213-8888
Terramax.....	1-306-699-7368




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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.

AC SPRINGFIELD

Oak Bank; Kyle, Lorne C. & C. Angus204-822-4396 F R

HORIZON

Morden; Kenaschuk, Edward O.204-822-5246 S
Oak Bank; Kyle, Lorne C. & C. Angus204-822-4396 S

KOMA

Notre Dame; Durand, Gabriel A. & Marc204-248-2268 S F R C
Ochre River; Schroeder, Ken204-733-2457 C

MANCAN

Notre Dame; Durand, Gabriel A. & Marc204-248-2268 S F R C

CANARYSEED

CDC CALVI☼

Dufrost; Catellier, Patrick Raymond204-347-5503 R
Reston; Greig, Fred L. & Fotheringham, John A. (Jack) 204-877-3813 F 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.

CANDA

Dauphin; Parkland Industrial Hemp Growers204-629-4367 F C

CFX-2

Kenton; Stevenson, Richard D.O. & Douglas204-838-2696 C

CRS-1

Dauphin; Fisher, Roderick Allan & Douglas James204-622-8800 C

FINOLA☼

Ste. Agathe; Hemp Oil Canada Inc204-882-2480 R C

JOEY

Dauphin; Parkland Industrial Hemp Growers204-629-4367 C

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T-14035A (08/2016)



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Forage Crops

Variety Description Key

Except for long term average yield and quality data, variety description information was obtained from the Co-operative Registration Trials.

Disease Resistance Ratings: (HS) highly susceptible; (S) susceptible; (MS) moderately susceptible; (MR) moderately resistant; (R) resistant; (n/a) not available.

☞ 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.

The Canadian Seed Trade Association (CSTA) has launched the new Crop Varieties Registered in Canada and Plant Breeders' Rights Status database to assist seed sector stakeholders to easily identify PBR protection on crop varieties registered for sale in Canada: <http://cdnseed.org/library/crop-kinds-database/>. Additional information is also available at www.PBRfacts.ca.

Key to Yield or Quality Tables

Numbers in brackets indicate site years. Site years tested is the number of locations added up over the years that variety has been tested in trials against the check. The more site years the more dependable the data. Use data with caution when there are fewer than 3 site years for annual crops and 9 site years for perennial crops.

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

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

Forage Variety Registration Changes

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

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



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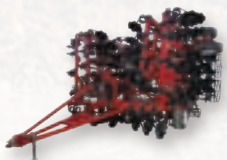


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Manitoba Agriculture Variety Guide

FORAGE ADAPTATION & COMPARISON GUIDE

LEGUMES

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

TAME GRASSES

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

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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, Food and Rural Development — Forage Adaptation & Comparison Guide

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 evaluated at a plant population of 28,000 plants per acre. Plots are planted at a higher rate and thinned to achieve the target population.

Yields are corrected to 65% moisture content.

The Manitoba Corn Committee publishes the annual results along with more detailed lab analysis in their brochure. The brochure is available by calling the Manitoba Corn Growers Association office at 204-745-6661.

CHU ¹	Hybrid	Technology/ Genetic Traits ²	Distributor	St. Pierre						
				65% Yield (Mt/ac)	Moisture ³ (%)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre ⁴ (lbs/ac)	Beef/Acre ⁵ (lbs/ac)
2125	A4177G3 RIB	VT3P	PRIDE Seeds	19.5	59.8	61.0	35.3	57.6	17,845	1,524
2150	YUKON R	RR2	Elite Seeds	21.9	66.2	63.2	33.2	54.7	19,080	1,773
2175	PS 2210VT2P RIB	GENVT2P	DLF Pickseed Canada Inc.	23.8	66.2	67.4	29.3	49.7	21,039	2,060
2200	PS 2320RR	RR2	DLF Pickseed Canada Inc.	24.2	64.5	68.8	28.0	48.0	19,456	2,130
2200	FUSION RR	RR2	Elite Seeds	20.3	67.1	62.3	34.0	55.1	16,146	1,624
2200	E47A17 R	RR2	Elite Seeds	21.5	67.5	67.4	29.3	50.6	20,756	1,855
2200	LR 9676VT2PRIB	VT2PRIB	Legend Seeds	18.5	64.3	67.5	29.2	48.3	15,848	1,599
2200	V30787	RR	Northstar Seeds	21.1	58.9	66.8	29.8	47.8	19,429	1,810
2200	A4415G2 RIB	VT2P	PRIDE Seeds	19.8	61.2	61.5	34.8	55.9	16,915	1,564
2200	TH4578	RR	Thunder Seeds	24.6	58.0	64.1	32.3	53.6	23,638	2,026
2200	TH 7677VT2P RIB	VT2P	Thunder Seeds	25.5	64.8	68.0	28.7	48.0	23,762	2,225
2225	TH 7578VT2P RIB	VT2P	Thunder Seeds	21.9	63.7	65.2	31.3	53.0	20,541	1,831
2250	X14123VH	Bt/RR	DOW Seeds	24.1	66.4	69.1	27.6	46.6	22,256	2,140
2250	4085	HXT/LL/RR	DOW Seeds	22.0	67.4	75.5	21.6	33.4	18,533	2,133
2250	LR 9579RR	RR2	Legend Seeds	19.6	66.8	57.9	38.1	60.6	18,843	1,454
2250	MZ 1482R	RR	Maize Seeds Inc.	18.9	57.7	60.5	35.7	58.4	18,633	1,465
2250	TH4126	RR	Thunder Seeds	23.0	67.0	70.2	26.6	45.5	20,750	2,069
2300	DS80A27	SSX	DOW Seeds	22.8	65.6	77.3	20.0	36.9	20,925	2,258
2300	LF 730CBR	GENVT3P	Maize Seeds Inc.	21.5	66.4	61.1	35.1	56.9	18,867	1,690
2300	A4705HMRR	RR2	PRIDE Seeds	19.7	66.1	64.0	32.4	55.2	16,673	1,619
2350	HZ 675	GTCBLL	Horizon Seeds	22.9	69.1	66.9	29.8	48.7	19,829	1,961
2350	A4939G2 RIB	VT2P	PRIDE Seeds	20.6	69.3	65.9	30.7	51.1	19,556	1,744
2350	TH 7681VT2P RIB	VT2P	Thunder Seeds	24.5	64.2	68.2	28.5	48.2	21,379	2,149
2350	HZ1885	Agrisure 3010	Horizon Seeds	19.2	67.4	68.3	28.4	47.9	19,126	1,686
2375	HZ 730GT	GT	Horizon Seeds	22.2	56.1	60.9	35.3	57.2	20,976	1,738
2375	A5095G2 RIB	VT2P	PRIDE Seeds	21.1	67.0	68.0	28.7	47.2	17,269	1,841
2400	E50P52 R	VT2P	Elite Seeds	23.4	64.5	67.2	29.5	48.8	21,226	2,014
2400	HX 13103T	3000GT	Horizon Seeds	22.7	60.0	61.2	35.0	57.0	20,768	1,784
2400	HX 15203T	3000GT	Horizon Seeds	24.6	63.0	67.4	29.3	49.0	21,494	2,132
2400	DKC 32-12RIB	GENVT2P	Monsanto Canada	25.8	62.5	68.8	27.9	48.0	23,506	2,281
2400	AS1047RR EDF	RR2	PRIDE Seeds	22.9	69.8	66.9	29.7	50.5	19,299	1,962
2425	TMF8106	SSX	DOW Seeds	22.9	70.7	62.8	33.5	54.3	22,102	1,843
2475	PS 2552RR	RR2	DLF Pickseed Canada Inc.	21.1	67.3	66.0	30.6	49.7	20,009	1,785
2475	TMF86H77	SSX	DOW Seeds	25.2	67.2	71.2	25.7	44.0	22,491	2,309
2475	A5433G3 RIB	VT3P	PRIDE Seeds	22.2	68.8	55.4	40.4	64.2	27,119	1,575
2500	VENZA R	RR2	Elite Seeds	25.1	68.4	60.6	35.6	59.0	25,110	1,951
2525	TMF91Q25	SSX	DOW Seeds	23.6	71.0	73.8	23.2	43.0	20,634	2,239
2550	X14008GH	Bt/RR	DOW Seeds	25.9	64.9	66.3	30.3	50.2	23,770	2,200
2600	X14225SX	SSX	DOW Seeds	23.2	67.8	71.4	25.5	43.6	21,775	2,123
2600	F2F298	HX1/LL/RR	DOW Seeds	22.2	68.4	69.8	27.0	47.0	18,134	1,988
2650	TMF94L37	SX	DOW Seeds	27.9	67.0	71.2	25.7	44.7	23,069	2,544
2650	E57L62 R	VT2P	Elite Seeds	24.0	71.6	67.1	29.6	49.3	23,546	2,065
2650	DKC 37-93RIB	GENVT2P	Monsanto Canada	23.4	66.3	66.7	29.9	49.8	22,922	2,005
2700	TH4188	RR	Thunder Seeds	21.7	68.1	62.0	34.3	56.3	18,123	1,726
Site Average				22.4	65.4					
CV				12.0	5.5					
Sign Diff				Yes	Yes					
LSD				4.4	5.9					
Planting Date				May 17, 2016						
Harvest Date				September 22, 2016						

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, available at <http://cdnseed.org/list-of-corn-hybrids/>. Information provided includes technology brand name and refuge requirements. BT, HX1, CB, YGCB, VT2PRIB, - resistance to European corn borer; RR, RR2, GT - glyphosate herbicide tolerant; LL - Liberty herbicide tolerant.

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.

ANNUAL FORAGE — Variety Descriptions

Variety descriptions for wheat, barley and oat crop types can be found in the Cereal Crops section of SEED Manitoba 2017 pages xxxx

Field pea variety information can be found on page XX

Quality is highly dependent on plant maturity at harvest. For optimum quality: harvest barley at early-mid dough stage; oats & triticale at milk-early dough stage; peas at early pod formation; millet at early heading.

Variety	Seed Source		Seed Color	Seed Size (seeds/lb)	Days to Maturity (Banjo)	Resistance Level				
						Lodging	Stem Rust	Leaf Rust	Bunt	Fusarium
TRITICALE										
AC Alta	12	—	—	—	-1	G	R	R	R	—
AC Certa	12	—	—	—	-3	G	R	R	R	I
Banjo	4	—	—	—	100 days	G	R	R	R	—
Pronghorn	12	—	—	—	-4	G	R	R	R	I
SANDRO	4	—	—	—	-3	G	R	R	R	—
		Seed Source	Seed Color	Seed Size (seeds/lb)	Days to Head	Days to Maturity				
FOXTAIL MILLET										
Yellow (Golden German)	13	Yellow	160-170,000	75-90	95-110					
Red (Siberian)	13	Red	169-170,000	55-70	70-90					
PROSO MILLET										
Green (Crown)	13	Gray/Green	70-90,000	50-60	85-90					
Red (Cerise)	13	Red	70-90,000	50-60	85					
Yellow (AC Prairie Gold)	17	Yellow	70-90,000	50-60	75					

ANNUAL FORAGE — Yield Comparisons

Variety	Manitoba Mean ¹		Yield at Test Sites % of check ¹					Forage Quality ²				
			Arborg	Boissevain/ Melita	Hamiota/ Minnedosa	Rosebank	Roblin	RFV (%)	CP (%)	TDN (%)	Beef ³ (lbs/ac)	Site Years
BARLEY												
AC Ranger (6F)	105 (12)	100 (24)	100 (6)	100 (6)	— —	100 (6)	100 (6)	123	9.8	65	1011	(6)
CDC Austenson(2)☉	—	100 (4)	102 (1)	101 (1)	— —	88 (1)	102 (1)	123	9.6	63	1099	(1)
CDC Cowboy (2F)☉	—	103 (24)	101 (6)	97 (6)	— —	103 (6)	110 (6)	112	9.6	63	1018	(6)
CDC Mindon(2)☉	—	97 (8)	95 (2)	93 (2)	— —	94 (2)	107 (2)	133	9.0	64	1043	(2)
Champion(2)☉	—	107 (12)	107 (3)	97 (3)	— —	108 (3)	116 (3)	136	12.1	65	1185	(3)
Chigwell(6)☉	—	96 (4)	87 (1)	97 (1)	— —	98 (1)	103 (1)	115	8.8	62	1038	(1)
Desperado(6F)☉	—	105 (4)	104 (1)	104 (1)	— —	104 (1)	111 (1)	111	7.7	61	1099	(1)
Lacey (6W)☉	—	92 (12)	89 (3)	101 (3)	— —	93 (3)	86 (3)	111	10.4	66	878	(3)
Virден (6F)	100 (28)	99 (13)	100 (7)	100 (7)	100 (4)	100 (3)	100 (3)	103	10.4	63	910	(3)
OATS												
Furlong☉	97 (11)	—	103 (3)	102 (3)	— —	75 (2)	101 (3)	111	11.0	64	997	(3)
Jordan☉	102 (12)	—	94 (3)	102 (3)	— —	94 (3)	97 (3)	98	9.3	61	1061	(3)
Pinnacle☉	95 (26)	—	99 (5)	99 (8)	100 (4)	90 (3)	94 (4)	100	8.8	60	1049	(3)
Triactor☉	99 (8)	—	105 (2)	101 (2)	— —	92 (2)	98 (2)	107	9.2	61	1177	(2)
Triple Crown	100 (34)	—	100 (7)	100 (10)	100 (4)	100 (5)	100 (6)	113	10.4	61	1058	(6)
TRITICALE												
AC Alta	104 (11)	—	82 (1)	117 (4)	94 (4)	—	—	—	—	—	—	—
AC Certa	99 (11)	—	93 (1)	104 (4)	93 (4)	—	—	—	—	—	—	—
Banjo	100 (19)	—	100 (3)	100 (6)	100 (4)	—	—	105	10.4	61	1052	(2)
Pronghorn	108 (3)	—	108 (2)	—	—	—	—	—	—	—	—	—
SANDRO	101 (11)	—	81 (1)	108 (4)	98 (4)	—	—	—	—	—	—	—
TR-196	88 (4)	—	92 (1)	72 (1)	—	97 (1)	89 (1)	106	9.0	61	856	(2)

Variety	Manitoba Mean ¹ % of 4010	Yield at Test Sites % of check ¹					Forage Quality ²				
		Arborg	Boissevain/ Melita	Hamiota/ Minnedosa	Rosebank	Roblin	RFV (%)	CP (%)	TDN (%)	Beef ³ (lbs/ac)	Site Years
PEAS											
40-10 (Check)	100 (22)	100 (5)	—	—	—	100 (4)	122	16	57	980	(4)
CDC Leroy	105 (22)	96 (5)	—	—	—	95 (4)	154	16	63	1136	(4)
CDC Minuet	95 (22)	97 (5)	—	—	—	100 (4)	155	16	64	1050	(4)
CDC Sonata	104 (22)	98 (5)	—	—	—	96 (4)	141	17	60	1077	(4)
CDC Tucker	105 (22)	94 (5)	—	—	—	99 (4)	142	16	62	1118	(4)
Trapper	90 (22)	83 (5)	—	—	—	87 (4)	129	17	58	898	(4)
FOXTAIL MILLET											
Yellow (Golden German)	100 (9)	100 (1)	100 (3)	—	—	100 (3)	85	9.4	59	828	(3)
Red (Siberian)	93 (9)	78 (1)	90 (3)	—	—	99 (2)	89	9.7	59	791	(3)
Check - Golden German average DM yield 5602 lb/ac (6273 kg/ha) over 9 site years.											
PROSO MILLET											
Green (Crown)	100 (10)	100 (1)	100 (3)	—	—	100 (3)	99	10.2	61	823	(3)
Red (Cerise)	101 (10)	91 (1)	109 (3)	—	—	93 (3)	98	10.4	61	862	(3)
Yellow (AC Prairie Gold)	102 (10)	95 (1)	100 (3)	—	—	91 (3)	99	10.5	61	836	(3)
Check - Crown average DM yield 4639 lb/ac (5195 kg/ha) over 10 site years.											
CHECK VARIETIES											
	Virden	8788	lb/ac								
	AC Ranger	6292	lb/ac								
	Triple Crown	9927	lb/ac								
	Banjo	10148	lb/ac								
	40-10	9192	lb/ac								

1 Data collected over 6 years (2003-2008) on six sites: Arborg, Roblin (MB), Sutherland, Floral (SK), Lacombe, Edmonton (AB).

2 Forage quality: average values from a Manitoba Forage Council test in 2005-2010 on 4 sites (Arborg, Melita, Roblin, Rosebank).

3 Relative Feed Value (RFV), Crude Protein (CP), Total Digestive Nutrients (TDN). Beef, is an estimation of pounds of beef produced under optimum feeding conditions using a rule of thumb that one pound of beef requires an average of 6 lbs of TDN.

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ALFALFA — Variety Descriptions

Variety	Root Type ¹	Use ²	Fall ³	Winter	Maturity ⁵	Resistance Level: ⁶			Notes ⁷	Seed Source
			Dormancy	Hardiness ⁴		BW	VW	PRR		
53Q60	Taproot	H,P	3	3.0	Early	HR	R	HR		10
54Q25	Taproot	H,P	4	—	—	HR	HR	HR		10
54V46	Taproot	H	4	3.0	—	R	R	R		10
54V54	Taproot	H	4	2.5	—	HR	HR	HR		10
Able	Taproot	H,P	2.5	2.9	Early	HR	HR	HR		9
AC Blue J	Taproot	H	—	—	Medium	HR	R	R		14
AC Grazeland Br [®]	Taproot	P,H	2	—	Medium	R	S	—	Bloat reduced	9
AC Longview	Taproot	H	3	2.9	Medium	HR	R	—		9
AC Manitou	—	—	—	—	—	—	—	—	—	—
AC Totem	—	—	—	—	—	—	—	—	—	—
Algonquin	Taproot	H,P	2	2.1	Medium	HR	S	S		13
AmeriStand 201+Z	Taproot	H	2	1.7	—	HR	HR	HR	Sunken crown	17
Apica	Taproot	H	3	2.3	Early	R	S	S		15
AT05	—	—	—	—	—	—	—	—	—	—
Beaver	Taproot	H,P	2	2.1	Medium	R	S	S		13
Equinox	Taproot	H	3.5	—	Medium	HR	HR	HR		17
Forerunner	Taproot	H	2	—	Early	HR	HR	HR	Multifoliate	5
Gala	Taproot	H	2	2.7	Early	HR	HR	HR	Multifoliate	17
Halo	Taproot	H	4	—	—	R	R	R	(HR)-Anthracnose, Fusarium; (R)-Aphanomyces	17
Heinrichs	Creeping	P,H	1	2.1	Medium-Late	R	—	—		17
LRC07 4151L	—	—	—	—	—	—	—	—	—	—
Matrix	Creeping	P,H	2	—	Medium	HR	MR	R	Resistant pea aphid	6
Multi5301	Taproot	H	3	2.9	Early-Medium	HR	R	R	Multifoliate	6, 8
Pickseed 2065MF	Taproot	H	3.7	2.0	—	HR	R	HR	Multifoliate	9
Pickseed 3006	Creeping	P,H	2	—	—	HR	MR	MR		9
Rambler	Creeping	P,H	1	—	Late	MR	S	S		13
Rangelander	Creeping	P,H	1	2.0	Late	S	S	S		14
Runner	Creeping	P,H	2	2.6	Medium-Late	HR	S	—		7
SC A101	—	—	—	—	—	—	—	—	—	—
Spredor 4	Creeping	P,H	1.5	2.0	Medium	HR	HR	HR		17
Spyder	Creeping	P,H	1	1.0	Medium-Late	HR	R	R		2
Starbuck	Taproot	H	3.7	—	—	HR	R	HR	Multifoliate	9
Stealth SF	Taproot	H	4	1.9	Early	HR	R	HR		7
Survivor	Taproot	H	3	—	Medium	HR	R	HR	Sunken Crown	2
Tophand	Taproot	H	4	—	Medium	HR	HR	HR	Multifoliate	7
Trident II	Taproot	H	3	—	Early	—	—	—		3
Ultra	Taproot	H	3	—	Medium	—	—	R		5

Check - Beaver Average Dry Matter Yield 8990 lb/ac (10,058 kg/ha) over 150 site years.

- 1 Creeping rooted alfalfa types can be more tolerant to grazing than tap rooted types, and may offer better winter hardiness.
- 2 Use: (H)Hay - developed for maximum yield; may have lower persistence under grazing;(P) Pasture - low growing, higher grazing tolerance. First letter is preferred use
- 3 FD: indicates the varieties characteristic to go dormant in fall. FD 9: will grow vigorously in fall; FD 2: will have little fall growth evident. Varieties with ratings of 1 - 4 are considered adequately winter hardy for Manitoba conditions while those of 5 or higher are not well adapted. Varieties with higher ratings should be managed carefully.
- 4 WH: ability of plants to survive winter and be productive next year. Ratings utilize North American approved Winter Hardiness Zone ratings. Varieties are compared against known check varieties (1=most hardy, 5=least hardy). Score of 1 indicates adaptation to all zones, score of 2 indicates adaptability in zones 2 and above, score of 3 indicates adaptability in 3 and above. (See Winter Hardiness Zone map in front of forage section). Scores are from the Manitoba Forage Council and 3rd party northern US tests using a minimum of 4 sites years of data over 2 winters. Grazing Tolerance: University of Manitoba study (1996 - 1999) determined winter hardiness was more influential than grazing tolerance to stand persistence under grazing.
- 5 Maturity rating indicates relative comparison of first flowering dates. Early varieties will bloom before late varieties, may provide more cuts/year, but are less hardy.
- 6 Disease Resistance:(HR) highly resistant; (R) resistance; (MR) moderately resistant; (S) no resistance. Bacterial Wilt (BW), Verticillium Wilt (VW) Phytophthora Root Rot (PRR).
- 7 Multifoliate varieties have genetic potential to produce 4 or more leaflets per leaf. This trait is influenced by environmental conditions.

ALFALFA — Yield Descriptions

Variety	Yield at test sites % of Beaver					
	Carberry ⁹		Neepawa-Rosebank ¹⁰		St.Adolphe-St. Pierre ¹¹	
53Q60	—	—	96	(3)	98	(3)
54Q25	—	—	84	(3)	104	(2)
54V46	—	—	102	(3)	99	(3)
54V54	—	—	103	(3)	100	(3)
Able	—	—	97	(2)	—	—
AC Blue J	98	(4)	101	(26)	100	(20)
AC Grazeland Br [®]	—	—	96	(3)	104	(3)
AC Longview	—	—	95	(3)	98	(6)
AC Manitou	108	(4)	—	—	—	—
AC Totem	103	(4)	—	—	—	—
Algonquin	—	—	97	(8)	98	(5)
AmeriStand 201+Z	—	—	100	(9)	95	(3)
Apica	—	—	114	(3)	—	—
AT05	101	(4)	—	—	—	—
Beaver	100	(4)	100	(48)	100	(35)
Equinox	—	—	104	(9)	99	(2)
Forerunner	—	—	108	(3)	—	—
Gala	—	—	—	—	109	(2)
Halo	—	—	107	(1)	—	—
Heinrichs	—	—	103	(8)	95	(5)
LRC07 4151L	102	(4)	—	—	—	—
Matrix	—	—	85	(3)	104	(3)
Multi5301	—	—	97	(5)	104	(3)
Pickseed 2065MF	—	—	92	(3)	110	(3)
Pickseed 3006	—	—	94	(3)	101	(3)
Rambler	94	(4)	96	(46)	92	(32)
Rangelander	90	(4)	96	(26)	94	(19)
Runner	—	—	100	(2)	—	—
SC A101	103	(4)	—	—	—	—
Spredor 4	—	—	104	(9)	96	(3)
Spyder	—	—	94	(3)	86	(2)
Starbuck	—	—	83	(2)	97	(3)
Stealth SF	—	—	121	(3)	100	(2)
Survivor	—	—	102	(3)	109	(3)
Tophand	—	—	105	(3)	102	(3)
Trident II	—	—	105	(8)	—	—
Ultra	—	—	108	(3)	—	—

Check - Beaver Average Dry Matter Yield 8980 lb/ac (10,058 kg/ha) over 150 site years.

8 These numbers represent the long term average yields as a percent of Beaver, on a per cut basis.

9 Carberry data is from 2011 to 2014

10 The Neepawa site was moved to Rosebank in 2004.

11 The St.Pierre site was moved to Kelburn Farms (St.Adolphe) in 2009. The average mean yields in this column contain data from the following:

Kelburn Farms (2009-2011);St.Pierre (1999-2008); Steinbach (1993-1998).

OTHER LEGUME — Variety Descriptions and Yield Comparisons *(All Varieties have Limited Data)*

Variety	Manitoba Mean % of Check	Use ¹	Winter Hardiness ²	Regrowth	Maturity	Notes ³	Seed Source
BIRDSFOOT TREFOIL							
AC Langille	95 (5)	P	G	Good	Early	non-bloating	17
Bull	97 (3)	P	G	Good		non-bloating	9
Empire	87 (4)	P	F	Medium		non-bloating	13
Leo	100 (19)	P	G		Early	non-bloating	13
OAC Bright	96 (3)	P	E	Medium		non-bloating	9
Upstart	102 (5)	P	G			non-bloating	9
Check - Leo average Dry Matter Yield 5610 lb/ac (6299 kg/ha) over 19 site years							
CICER MILKVETCH							
Oxley	100 (11)	P	E	—	—	non-bloating	9
Windsor	119 (6)	P	E	—	—	non-bloating	17
Check - Oxley average Dry Matter Yield 4544 lb/ac (5102 kg/ha) over 11 site years							
YELLOW SWEET CLOVER							
Norgold	100 (1)	H	—	—	Very Early	low coumarin	14
Yukon	102 (1)	H	—	—	Early		13
Check - Norgold average Dry Matter Yield 4254 lb/ac (4772 kg/ha) over 1 site year							
SAINFOIN							
Nova	100 (11)	H,P	—	—	—	non-bloating	14
Check - Nova average Dry Matter Yield 4336 lb/ac (4856 kg/ha) over 11 site years							
NATIVE LEGUME SPECIES							
Limited data for the following marketed Native Legume Species							
Purple Prairie Clover, White Prairie Clover, American Vetch							6, 17

1 Use Classes: H - Hay use P - Pasture.

2 Winter Hardiness: Ratings based on winter hardiness with check variety: (F) Fair; (G) Good; (E) Excellent.

3 Coumarin is a substance with anti-coagulant properties that is present in all sweet clover varieties. However, newer varieties have been developed with sub-acute levels.

GRASS SPECIES — Variety Descriptions and Yield Comparisons

Variety	Manitoba Mean % of Check	Use ¹	Maturity	Notes ²	Seed Source
ANNUAL RYEGRASS					
Italian					
Barmultra	101	(3)			17
Fabio	—	—			2
Maris Ledger	100	(8)			13
Max	—				9
Nabucco	99	(3)	Early/medium		7
Check - Maris Ledger average DM yield 7597 lb/ac (8536 kg/ha) over 8 site years.					
WESTERWOLD					
Aubade	100	(9)	Early		2
Elunaria	101	(3)			7
SW Botrus	—				9
Sabroso	105	(3)			17
Check - Aubade average DM yield 7913 lb/ac (8891 kg/ha) over 9 site years.					
CREEPING FOXTAIL					
Garrison	100	(3) P			9
Check - Garrison DM Average yield 2650 lb/ac (2973 kg/ha) over 3 site years					
CREEPING RED FESCUE					
Boreal	100	(10) P	Early		13
Check - Boreal average DM yield 4739 lb/ac (5321kg/ha) over 10 site years.					
CRESTED WHEATGRASS					
AC Goliath	103	(18) —		—	14
AC Parkland	—		P	—	9
Fairway	93	(17) H, P		Diploid	13
Kirk	100	(35) H, P		Tetraploid	14
Nordan	93	(17) H, P		Tetraploid	13
Parkway	91	(17) H, P		Diploid	9
Check - Kirk average DM Yield 5724 lb/ac (6416 kg/ha) over 35 site years.					

Variety	Manitoba Mean % of Check	Use ¹	Maturity	Notes ²	Seed Source
INTERMEDIATE WHEATGRASS					
Chief	100	(9)	H		14
Clarke	97	(5)	H		8
Check - Chief average DM Yield 5329 lb/ac (5978 kg/ha) over 9 site years.					
MEADOW BROME					
Fleet	100	(40)	P,H		14
Montana	99	(15)	P,H		17
MBA					9
Paddock	101	(10)	P,H	Early	14
S9522	93	(2)			
Check - Fleet average DM Yield 4807 lb/ac (5383 kg/ha) over 40 site years.					
MEADOW x SMOOTH BROMEGRASS					
AC Success	—	—	P,H	Hybrid	9
Bigfoot	—	—	P,H	Hybrid	2
Knowles®	103	(12)	P,H	Hybrid	17
S9478B	92	(2)			
Check - Fleet average DM Yield 4498 lb/ac (5054 kg/ha) over 12 site years.					
MEADOW FESCUE					
Ensign	100	(25)	P,H		9
Epic	—		P,H	Early-Medium	2
Prevail					7
Sigmund	—		P,H	Early-Medium	9
Check - Ensign average DM Yield 4157 lb/ac (4667 kg/ha) over 25 site years.					
MEADOW FOXTAIL					
Mountain	127	(5)	P		13
Check - Dan average DM Yield 4696 lb/ac (5272 kg/ha) over 7 site years					
ORCHARDGRASS					
AC Nordic	97	(6)	P,H	Late	Winter Hardiness - VG
Baridana	—		P,H	Late	
Early Arctic	99	(5)	P,H	Medium	Winter Hardiness - E
Kay	100	(53)	P,H	Late	Winter Hardiness - G
Killarney					17
Kootaney					9
Okay	—		H,P	Very Late	Winter Hardiness - VG
OG426	113	(2)			
Check - Kay average DM Yield 4487 lb/ac (5029 kg/ha) over 59 site years.					
PUBESCENT WHEATGRASS					
Greenleaf	—		P,H	—	17
QUACKGRASS x BLUEBUNCH WHEATGRASS					
NewHy	—		P,H	—	17
REED CANARYGRASS3					
Bellevue	—		P, H	Early	Low alkaloid
Marathon	—		P,H	Medium	Low alkaloid
Rival	100	(21)	P,H	—	Low alkaloid
Vantage	112	(21)	P,H	Early	Low alkaloid
Venture	108	(21)	P,H	Very Early	Low alkaloid
Check - Rival average DM Yield 4746 lb/ac (5324 kg/ha) over 21 site years.					
RUSSIAN WILD RYEGRASS					
Swift	100	(6)	P,H		14
Check - Swift average DM yield 3951lb/ac (4432 kg/ha) over 6 site years.					
SLENDER WHEATGRASS					
Revenue	100	(6)	P,H		9
Check - Revenue average DM yield 3928 lb/ac (4407 kg/ha) over 6 site years.					
SMOOTH BROMEGRASS					
AC Rocket®	105	(15)	H		17
Bravo	98	(7)	H, P	Early	9
Carlton	100	(65)	H, P		13
Magna	99	(26)	H, P		14
Check - Carlton average DM Yield 5796 lb/ac (6491 kg/ha) over 65 site years.					
TALL FESCUE					
Courtenay	100	(28)	P,H	Late	Winter Hardiness - G
Kokanee	96	(9)	P,H		Winter Hardiness - G
Maximize	92	(7)	P,H	Late	
Swag	85	(2)			
Check - Courtenay average DM Yield 5751 lb/ac (6441 kg/ha) over 28 site years.					

GRASS SPECIES (continued)

Variety	Manitoba Mean % of Check	Use ¹	Maturity	Notes ²	Seed Source
TALL WHEATGRASS					
Orbit	100	(6) P,H			14
Check - Orbit Average DM yield 4216 lb/ac (4730 kg/ha) over 6 site years.					
TIMOTHY					
Basho	99	(18) H	Medium		14
Champ	98	(25) H,P	Early		13
Climax	100	(88) H,P	Medium-Late		13
Drummond	96	(14) H	Very Late		9
Farol	74	(10) H	Late		9, 17
Grindstad	99	(9) H,P	Early		17
Richmond	103	(23) H,P	Very Early		9
Tuukka	99	(11) H	Late		16
Limited data for the following marketed varieties.					
AC Pratt	92	(2)			
Alexander	85	(6) H	Late		16
Bottnia II	104	(5) H,P	Medium		17
Colt	100	(3) H	Medium		17
Express	112	(6) H,P	Medium-Late		7
Promesse	100	(6) H,P	Medium		2
ST1	90	(2)			
Check - Climax average DM Yield 4742 lb/ac (5315 kg/ha) over 92 site years.					
NATIVE GRASS SPECIES					
Limited data for the following marketed Warm Season Native Grass Species					
Little Bluestem, Big Bluestem, Sand Bluestem, Indiangrass, Prairie Sandreed					1,2,6,7
Sideoats, Grama, Blue Gramma, Switchgrass and Prairie Cordgrass, Western Wheatgrass					9, 11, 16, 17
Limited data for the following marketed Cool Season Native Grass Species					
Canada Wildrye, Green Needlegrass, Western Wheatgrass					1,2,6,7
Northern Wheatgrass, Streambank Wheatgrass and, Needle and Thread gass.					9, 11, 16, 17

1 Use Classes: H - Hay use P - Pasture use. Pasture type varieties tend to display better regrowth.

2 Notes: Reed Canarygrass - Alkaloids adversely affect the nervous system and the rumen digestion.

3 Winter Hardiness: Based on winter hardiness with check variety: (F) Fair; (G) Good; (VG) Very Good; (E) Excellent.

DISTRIBUTOR CONTACTS — Forage Seed

1 Blight Native Seeds.....	1-204-267-2686	10 Pioneer Hi-Bred Ltd.....	1-800-265-9435
2 BrettYoung	1-800-665-5015	11 Prairie Habitats.....	1-204-467-9371
3 Canterra Seeds	1-877-439-7333	12 Progressive Seeds Ltd.	1-403-782-6169
4 Dyck Forages and Grasses Ltd.....	1-888-204-1000	13 Public Variety.....	Contact Manitoba Agriculture
5 Federated Coops Ltd.....	1-306-664-1700	14 SeCan	1-800-665-7333
6 Interlake Forage Seeds	1-800-990-1390	15 S.S. Johnson Seeds.....	1-800-363-9442
7 Northstar Seed Ltd.....	1-800-430-5955	16 Vandaele Seeds Ltd.	1-204-665-2384
8 Oldenburg Inc.....	1-204-348-2294	17 Crop Production Services Canada.....	1-800-661-3334
9 Pickseed Canada	1-800-263-7425		

DISTRIBUTOR CONTACTS — Corn Silage

Crop Production Services Canada.....	Proven Seed	1-403-652-5820	Maizez Seeds Inc.	1-877-682-1720
Delmar Commodities.....	Legend Seeds	1-204-331-3696	Monsanto Canada Inc.	DEKALB
DLF Pickseed Canada Inc.....	PICKSEED	1-204-633-0088	Northstar Seed Ltd.	1.800.430.5955
DuPont Pioneer	Pioneer	1-800-265-9435	NorthStar Genetics Ltd.....	1-204-262-2425
Elite Seeds	BrettYoung	1-800-665-5015	PRIDE Seeds	1-800-265-5280
Horizon Seeds Canada Inc.	Horizon Seeds	1-855-983-7255	Thunder Seed Canada Inc.	1-306-213-8888
Dow AgroSciences.....	Dow Seeds	1-800-265-7403		

Growers List



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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.

135			
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	
2010			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C	
3010			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
4030			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C	
5010			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
4010 BR			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
4020 MF			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C	
54Q25			
Fisher Branch; Gregory, Lee R. & Adam.....	204-372-6720	C	
55Q27			
Fisher Branch; Gregory, Lee R. & Adam.....	204-372-6720	C	
AAC MEADOWVIEW			
Neepawa; Northstar Seed Ltd.....	204-476-5241	F	
ABLE			
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	
AC BRADOR			
Neepawa; Northstar Seed Ltd.....	204-476-5241	C	
AC CARIBOU			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
AC GRAZELAND BR ☉			
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	
AC MELODIE			
Neepawa; Northstar Seed Ltd.....	204-476-5241	C	
ACTIS			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
ADRENALIN			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
AKORI			
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	
ALGONQUIN			
Hodgson; Shergold, Carla.....	204-372-6490	C	
ALTHEA			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C	
ASSALT ST			
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	
BARRICADE SLT			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	

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CALYPSO			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
CONCEPT			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
CORNERSTONE			
Neepawa; Northstar Seed Ltd.....	204-476-5241	F C	
DAKOTA			
Neepawa; Northstar Seed Ltd.....	204-476-5241	F C	
DYNASTY			
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C	
ENDURANCE			
Neepawa; Northstar Seed Ltd.....	204-476-5241	F C	
FORTUNE			
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	
GEMSTONE			
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C	

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GIBRALTAR		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
HAYGRAZER		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
INSTINCT		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
LEADER		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
LEXUS		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
MAGNUM 7		
Fisher Branch; Gregory, Lee R. & Adam	204-372-6720	F
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
MATRIX		
Fisher Branch; Interlake Forage Seeds Ltd.....	204-372-6920	C
MEGAGRAZE		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
MULTI5301		
Fisher Branch; Gregory, Lee R. & Adam	204-372-6720	C
Fisher Branch; Interlake Forage Seeds Ltd.....	204-372-6920	C
MULTIPLIER 3		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
OPTIMUS		
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
PERFECTION		
Neepawa; Northstar Seed Ltd.	204-476-5241	F C
PERFORMER		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
PICKSEED 2065MF		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
PICKSEED 3006		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
PRIZE		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
QWEST		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
REBOUND PLUS		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
RESPONSE WT		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
RHINO		
Fisher Branch; Gregory, Lee R. & Adam	204-372-6720	F
ROBUST		
Neepawa; Northstar Seed Ltd.	204-476-5241	F C
RUGGED ST		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
RUNNER		
Neepawa; Northstar Seed Ltd.	204-476-5241	F C

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SHOCKWAVE-BR		
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	F C
SPYDER		
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
STARBUCK		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
STEALTH SF		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
STOCKPILE		
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
STRONGHOLD		
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
SUPER NOVA		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
TH2		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
TOPHAND		
Neepawa; Northstar Seed Ltd.	204-476-5241	C
VISION		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C

ALSIKE CLOVER

AURORA		
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
DAWN		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	F C

BIRDSFOOT TREFOIL

AC LANGILLE		
Neepawa; Northstar Seed Ltd.	204-476-5241	F
BRUCE		
Fisher Branch; Interlake Forage Seeds Ltd.....	204-372-6920	C
BULL		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
EXACT		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	C
LEO		
Cartier; Qually, Brent	204-792-7274	C
Fisher Branch; Danelak, George & Harvey G.	204-372-6236	C
Fisher Branch; Gregory, Lee R. & Adam	204-372-6720	C
Fisher Branch; Podaima, Mel J.....	204-396-7905	C
Fisher Branch; Podaima, Ryan.....	204-372-6885	C
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
WELLINGTON		
Winnipeg; Pickseed Canada Inc.....	204-633-0088	F

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Neepawa; Northstar Seed Ltd.....204-476-5241	F
AC KNOWLES ☼	
Neepawa; Northstar Seed Ltd.....204-476-5241	F C
AC ROCKET	
Neepawa; Northstar Seed Ltd.....204-476-5241	F
AC SUCCESS ☼	
Winnipeg; Pickseed Canada Inc.....204-633-0088	F C
CARLTON	
St. Norbert; Brett-Young Seeds Limited.....204-261-7932	C
FLEET	
St. Norbert; Brett-Young Seeds Limited.....204-261-7932	F C
MBA	
Winnipeg; Pickseed Canada Inc.....204-633-0088	C
MONTANA	
Winnipeg; Pickseed Canada Inc.....204-633-0088	C

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AC OXLEY II	
Winnipeg; Pickseed Canada Inc.....204-633-0088	C

MEADOW FESCUE

PRADEL	
Neepawa; Northstar Seed Ltd.....204-476-5241	F C
St. Norbert; Brett-Young Seeds Limited.....204-261-7932	C
PREVAL	
Neepawa; Northstar Seed Ltd.....204-476-5241	F C

ORCHARDGRASS

EARLY ARCTIC	
Neepawa; Northstar Seed Ltd.....204-476-5241	C
KILLARNEY	
St. Norbert; Brett-Young Seeds Limited.....204-261-7932	C

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Neepawa; Northstar Seed Ltd. 204-476-5241 F C

RED CLOVER

ALTASWEDE

Winnipeg; Pickseed Canada Inc. 204-633-0088 C

BEARCAT

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

BELLE

Winnipeg; Pickseed Canada Inc. 204-633-0088 C

MERVIOT

Winnipeg; Pickseed Canada Inc. 204-633-0088 C

REED CANARY GRASS

MARATHON

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RIVAL

St. Norbert; Brett-Young Seeds Limited. 204-261-7932 C

RYEGRASS

AUBADE

St. Norbert; Brett-Young Seeds Limited. 204-261-7932 C

BIG BANG

St. Norbert; Brett-Young Seeds Limited. 204-261-7932 C

RYEGRASS

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ELUNARIA

Neepawa; Northstar Seed Ltd. 204-476-5241 C

LACTAL

St. Norbert; Brett-Young Seeds Limited. 204-261-7932 C

MATHILDE

Winnipeg; Pickseed Canada Inc. 204-633-0088 C

RACER 2

Winnipeg; Pickseed Canada Inc. 204-633-0088 F C

SAINFOIN

AAC MOUNTAINVIEW

Neepawa; Northstar Seed Ltd. 204-476-5241 F C

SWEET CLOVER

NORGOLD

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Winnipeg; Pickseed Canada Inc. 204-633-0088 C

TALL FESCUE

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KOKANEE	
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932 F
YUKON	
Neepawa; Northstar Seed Ltd.	204-476-5241 C

TIMOTHY

AC ANTOINE	
Neepawa; Northstar Seed Ltd.	204-476-5241 C
AC OPAL	
Winnipeg; Pickseed Canada Inc.	204-633-0088 C
ARLAKA	
Fisher Branch; Danelak, George & Harvey G.	204-372-6236 C
Winnipeg; Pickseed Canada Inc.	204-633-0088 F C
BARPENTA	
Neepawa; Northstar Seed Ltd.	204-476-5241 F C
BASHO	
Fisher Branch; Bernier, Edward L.	204-372-6937 C
CLAIR	
Middlebro; Ewacha, Alex	204-793-5273 C
CLIMAX	
Beausejour; Horosko, Patrick B.	204-268-3583 C
Cartier; Qually, Brent 204-792-7274	C
Fisher Branch; Cymbalisty, Donald John.....	204-372-6468 C
Fisher Branch; Interlake Forage Seeds Ltd.	204-372-6920 C
Fisher Branch; Malenchak, Daniel Albert.....	204-372-6471 C
Fisher Branch; Plishka, William 204-372-6895	C
Neepawa; Northstar Seed Ltd. 204-476-5241	C
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932 C
Winnipeg; Pickseed Canada Inc. 204-633-0088	F
COMTAL	
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932 C
Winnipeg; Pickseed Canada Inc. 204-633-0088	C
DOLINA	
Winnipeg; Pickseed Canada Inc. 204-633-0088	C
EXPRESS	
Neepawa; Northstar Seed Ltd. 204-476-5241	R C
GLACIER	
Winnipeg; Pickseed Canada Inc. 204-633-0088	C
HOKUO	
Arborg; S.S. Johnson Seeds Limited.....	204-376-5228 C
Fisher Branch; Bernier, Edward L. 204-372-6937	C
ITASCA	
Dauphin; Ritchie, Raymond..... 204-638-0364	C
Winnipeg; Pickseed Canada Inc. 204-633-0088	C
KARA	
Neepawa; Northstar Seed Ltd. 204-476-5241	C
OVATION	
Neepawa; Northstar Seed Ltd. 204-476-5241	C
PROMESSE	
Lac Du Bonnet; Brincheski, Robert John	204-345-2858 C
Lac Du Bonnet; Mc Intosh, Paul Ramsay.....	204-268-5081 C

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RICHMOND		
Dauphin; Tarrant, Don..... 204-638-6443		C
Winnipeg; Pickseed Canada Inc. 204-633-0088		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
TILLER		
Winnipeg; Pickseed Canada Inc. 204-633-0088		C
TITAN		
Neepawa; Northstar Seed Ltd. 204-476-5241		F C
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
TREASURE		
Neepawa; Northstar Seed Ltd. 204-476-5241		F R C

WHEATGRASS

CHIEF		
Winnipeg; Pickseed Canada Inc. 204-633-0088		C
FAIRWAY		
Winnipeg; Pickseed Canada Inc. 204-633-0088		C
KIRK		
Neepawa; Northstar Seed Ltd. 204-476-5241		C
St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	C
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Trade deals loom for dairy farmers
 But compensation packages remain elusive

BY JENNIFER PAIGE
 International trade agreements continue to weigh on the minds of the province's dairy producers. The Dairy Farmers of Manitoba held the first of its fall meetings on October 11 in Elkhorn, where conversations frequently turned to the looming Trans-Pacific Partnership (TPP) and Comprehensive Economic and Trade Agreement (CETA) with the European Union. "There was nothing good in this TPP agreement from a dairy perspective," said David Wiers, chair of DFA. The TPP sees 12 of the Pacific Rim countries, including China, come together to lower both non-tariff and tariff barriers to trade. According to Wiers, revenue losses for the Canadian dairy sector caused by TPP for having full market access in an ongoing basis have been estimated at \$200 million a year. The finalized TPP agreement was expected in February 2015 and is currently awaiting ratification in some time frame.

Farmers fail to rally to tax revolt talk
 But some want to know why their property taxes have more than doubled in a year

Manitoba farmers are all worked up over massive farmland tax increases, but they're not ready to engage in a tax revolt just yet. PHOTO: ANDREW SCHNEIDER

BY ALLAN DAWSON
 Farmland property taxes are too high, Schreier suggested while commenting on Facebook about Manitoba Co-operator notes on skyrocketing farmland taxes. In Schreier, who faces a 50 per cent jump in his Rural Municipality of Springfield tax bill, several suggest a tax revolt is being discussed. Although he likes the idea, which would get elevated officials' attention and possibly lead to reforms, Schreier said he hasn't been flooded with backing by other disgruntled farmers. "It's not how we just take it," he said Oct. 12 in an interview. "It has been happening in British Columbia where property tax increases have farmers that carry out much more farmers than such a high percentage of the burden of education in the province. Why is that? Is education not something that everyone should be paying for?" Manitoba farmers have long complained the special education levy on farmland and production buildings puts the much tax burden on them. Although education tax is part of the 10 to 150 times \$1.75 tax.

SEEDS OF SUCCESS: CANOLA CONSORTIUM SEES OPPORTUNITIES • PAGE 3

Additional Resources

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 Altona; GJ Chemical Co. Ltd.; Box 1648; R0G 0B0204-324-8090
 Altona; LD Seed Company; Box 1977; R0G 0B0204-304-0048
 Altona; Sawatzky Seed Farms Inc.; Box 1827; R0G 0B0.....204-324-4018
 Altona; Wesmar Farms Ltd.; Box 863; R0G 0B0204-324-4097
 Arborg; Burak Seeds; Box 1126; R0C 0A0204-364-2480
 Arborg; Crop Production Services Inc.; Box 219; R0C 0A0204-376-5990
 Arborg; Floyd Seeds; Box 606; R0C 0A0204-364-2308
 Arborg; Foster Ag Services; Box 691; R0C 0A0.....204-364-2358
 Arborg; Paterson Grain; Box 308; R0C 0A0204-376-5353
 Arborg; S.S. Johnson Seeds Ltd.; Box 3000; R0C 0A0.....204-376-5228
 Arborg; Timchishen Seeds; Box 776; R0C 0A0204-376-5116
 Arnaud; GJ Chemical Co. Ltd.; Box 63; R0A 0B0204-427-2337
 Ashville; Intermountain Ag Supply; Box 25; R0L 0A0204-648-3089
 Baldur; David Desrochers; Box 149; R0K 0B0204-535-2090
 Baldur; Pembina Co-op; Box 68; R0K 0B0204-535-2598
 Beausejour; Agritel Grain Ltd.; Box 808; R0E 0C0204-268-1415
 Beausejour; Bangert Farms Ltd.; Box 5228 RR 1; R0E 0C0204-268-1268
 Beausejour; Crop Production Services Inc.; Box 1789; R0E 0C0.....204-268-3497
 Beausejour; Delmar Commodities Ltd.; Box 1236; R0E 0C0.....204-268-9797
 Beausejour; Northland Applicators Ltd.; Box 4008 RR 4; R0E 0C0204-268-5135
 Beausejour; Parrish & Heimbecker Ltd.; Box 430; R0E 0C0204-770-1279
 Benito; Crop Production Services Inc.; Box 265; R0L 0C0204-539-2255
 Binscarth; Inland Seed Corp.; Box 218; R0J 0G0204-683-2316
 Binscarth; Paterson Grain; Box 6; R0J 0G0204-532-2461
 Boissevain; Armstrong Seeds; Box 1076; R0K 0E0204-534-2566
 Boissevain; Boissevain Select Seeds Ltd.; Box 957; R0K 0E0204-534-6846
 Boissevain; Double Diamond Farm Supply; Box 776; R0K 0E0204-534-2427
 Boissevain; Martens, Ben and John; Box 374; R0K 0E0204-534-6952
 Brandon; A.E. McKenzie Co. ULC; 1000 Parker Blvd; R7A 6E1204-517-7525
 Brandon; Kowall Seed Cleaning; RR 1 Box 49; R7A 5Y1204-728-2605
 Brandon; Lindenberg Seed Ltd.; 803 Princess Ave.; R7A 0P5204-727-0575
 Brandon; Richardson Pioneer; Box 53 Site 30 RR 2; R7A 5Y2204-727-5353
 Brandon; Wheat City Seeds Ltd.; Box 74 Site 30 RR 2; R7A 5Y2.....204-727-3337
 Brunkild; MK Agro Ltd.; Box 80; R0G 0E0204-736-4769
 Brunkild; Richardson Pioneer; Box 128; R0G 0E0204-736-5000
 Carberry; Chris Robinson; Box 789; R0K 0H0204-834-2620
 Carberry; Crop Production Services Inc.; Box 9; R0K 0H0.....204-834-2180
 Carman; AGrow 360 Ltd.; Box 585; R0G 0J0204-745-1938
 Carman; Bud McKnight Seeds Ltd.; Box 309; R0G 0J0.....204-745-2310
 Carman; Elias Seeds; Box 430; R0G 0J0204-745-3301
 Carman; Monsanto Canada Inc.; Box 2010; R0G 0J0204-745-3283
 Carman; RJP Seed Ltd.; Box 2239; R0G 0J0204-745-0088
 Carman; Ronlin Farms Ltd.; Box 1164; R0G 0J0204-745-3415
 Carman; Ulrich & Monika Menold Ltd.; Box 238; R0G 0J0204-745-2822
 Crandall; Rolling View Farms Inc.; Box 9; R0M 0H0204-562-3632
 Cromer; Bartel Seeds; Box 53; R0M 0J0204-662-4484
 Crystal City; Buchanan Seeds; Box 363; R0K 0N0204-825-7151
 Crystal City; Mark and Allan Fallis; Box 162; R0K 0N0204-873-2305
 Crystal City; Smith Seeds; Box 89; R0K 0N0204-825-7586
 Darlingford; Crop Production Services Inc.; Box 102; R0G 0L0.....204-246-2500
 Darlingford; Dudgeon's Upper Lye Seeds; Box 10; R0G 0L0.....204-246-2357
 Darlingford; Wilson Seeds Ltd.; RR 1 Box 89; R0G 0L0204-246-2119
 Dauphin; Bonnie Banks Seed Farm; RR 4; R7N 2T7204-638-5369
 Dauphin; Cargill Ltd.; Box 655; R7N 3B3204-638-4033
 Dauphin; Dauphin Consumers Co-op; 601 Whitmore Ave.; R7N 0Y6.....204-622-6080
 Dauphin; Dauphin Plains Seed Ltd.; Box 448; R7N 2V3.....204-638-7800
 Dauphin; Fisher Seeds Ltd.; RR 5 Comp 111; R7N 2T8204-622-8800
 Dauphin; Richardson Pioneer; Box 554; R7N 2V4.....204-622-6030
 Dauphin; Ritchie Seeds; RR 4 Comp 6; R7N 2T7.....204-638-7543
 Decker; Murray Farms Inc.; Box 4; R0M 0K0204-764-2733
 Deloraine; Bolduc & Bell Farms; Box 482; R0M 0M0.....204-747-2913
 Deloraine; Crop Production Services Inc.; Box 760; R0M 0M0.....204-747-2877
 Deloraine; Paterson Grain; Box 507; R0M 0M0204-747-2333
 Domain; Manness Seeds; Box 58; R0G 0M0204-736-2622
 Domain; Pitura Seed Service; Box 2; R0G 0M0.....204-736-2849
 Domain; Shanawan Farms Ltd.; Box 1; R0G 0M0.....204-736-2951
 Douglas; Heritage Co-op 1997 Ltd.; Box 37; R0K 0R0204-763-8998
 Dufrost; Catellier Seed Service Inc.; Box 25; R0A 0K0.....204-347-5588
 Elie; Dyck Forages and Grasses Ltd.; Box 275; R0H 0H0204-353-2885
 Elie; Lachance Seeds; Box 431; R0H 0H0204-353-2694
 Elm Creek; James Runne; Box 187; R0G 0N0204-436-2352
 Elphinstone; Gerrard Family Seeds; Box 87; R0J 0N0.....204-759-2213
 Fannystelle; Nadeau Seeds Inc.; Box 40; R0G 0P0.....204-436-2469
 Fisher Branch; Crop Production Services Inc.; Box 72; R0C 0Z0.....204-372-6600
 Fisher Branch; George & Harvey Danelak; Box 308; R0C 0Z0204-372-6236

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 Fisher Branch; Interlake Forage Seeds Ltd.; Box 328; R0C 0Z0204-372-6920
 Fork River; Crop Production Services Inc.; Box 145; R0L 0V0204-657-2366
 Foxwarren; George Graham Seed Farms; Box 193; R0J 0R0204-773-6389
 Foxwarren; West-Fox Farms; Box 97; R0J 0R0204-683-2247
 Franklin; Crop Production Services Inc.; Box 25; R0J 0S0204-476-2668
 Gilbert Plains; Crop Production Services Inc.; Box 667; R0L 0X0204-548-2281
 Gilbert Plains; Gilbert Plains Consumers Co-op; Box 41; R0L 0X0204-548-2099
 Gilbert Plains; T & S Seeds; RR 3; R0L 0X0204-548-2805
 Gladstone; Crop Production Services Inc.; Box 67; R0J 0T0.....204-385-2349
 Gladstone; Delmar Commodities Ltd.; Box 480; R0J 0T0.....204-331-3696
 Gladstone; Milne Farms Ltd.; Box 258; R0J 0T0.....204-385-2486
 Gladstone; Westpawa-Gladstone Coop; Box 536; R0J 0T0204-385-2906
 Gladstone; Parrish & Heimbecker Ltd.; Box 750; R0J 0T0204-385-2139
 Glenboro; Crop Production Services Inc.; Box 640; R0K 0X0204-827-2842
 Glenboro; Jefferies Seeds; Box 582; R0K 0X0204-827-2102
 Glenlea; Bartmanovich Bros.; Box 6; R0G 0S0204-736-4638
 Grandview; Triple "S" Seeds Ltd.; RR 4; R0L 0Y0204-546-2590
 Grosse Isle; Crop Production Services Inc.; Box 160; R0C 1G0204-467-8026
 Grosse Isle; Rutherford Farms Ltd.; Box 100; R0C 1G0204-467-5613
 Hadashville; Sunburst Seeds; 53021 Whitemouth River Road W.;
 R0E 0X0204-340-7145
 Hamiota; Chappell Ag Ventures Inc.; Box 580; R0M 0T0.....204-764-2844
 Hamiota; Crop Production Services Inc.; Box 460; R0M 0T0204-764-2111
 Hamiota; Knight Seeds; Box 306; R0M 0T0.....204-764-2450
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 Hazelridge; Robert and Andrew Saramaga; Box 100; R0E 0Y0204-755-2817
 Holland; Crop Production Services Inc.; Box 9; R0G 0X0.....204-723-2423
 Holland; Marginetts Farm; Box 45; R0G 0X0204-526-2544
 Holland; Zeghers Seed Inc.; Box 426; R0G 0X0204-526-2145
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Inglis; Jackson Seeds Ltd.; Box 142; R0J 0X0.....	204-564-2293
Kenton; Robert & Sidney Stevenson; Box 206; R0M 0Z0.....	204-838-2012
Kenville; Carmichael Seed Farm; Box 68; R0L 0Z0.....	204-734-8683
Killarney; Chatham Seeds Ltd.; Box 1436; R0K 1G0.....	204-523-8112
Killarney; HB Agriseed Ltd.; Box 1870; R0K 1G0.....	204-523-7464
Killarney; Paterson Grain; Box 1230; R0K 1G0.....	204-523-8936
Killarney; Richardson Pioneer; Box 400; R0K 1G0.....	204-523-7035
Killarney; Shur-Gro Farm Services Ltd.; Box 1139; R0K 1G0.....	204-523-5400
Landmark; Richardson Pioneer; Box 70; R0A 0X0.....	204-355-4061
Landmark; Willow Ridge Seed Farm; Box 63 RR 1; R0A 0X0.....	204-388-4877
Laurier; LaurEx Seeds Ltd.; Box 55; R0J 1A0.....	204-447-2622
Letellier; BBF Enterprises Ltd.; Box 327; R0F 1C0.....	204-737-2605
Letellier; Richardson Pioneer; Box 270; R0G 1C0.....	204-737-2096
Letellier; Seed-Ex Inc.; Box 238; R0G 1C0.....	204-737-2000
Lowe Farm; Crop Production Services Inc.; Box 10 RR 1; R0G 1E0.....	204-343-2136
Lowe Farm; Lowe Farm Co-op Services (1959) Ltd.; Box 220; R0G 1E0.....	204-746-2234
Lowe Farm; MB Seeds Ltd.; Box 217; R0G 1E0.....	204-746-2187
MacGregor; Hulme Agra Products Inc.; Box 68; R0H 0R0.....	204-685-2627
Manitou; Sanders Seed Farm; Box 700; R0G 1G0.....	204-242-4200
Marquette; Ag Advantage Ltd.; Box 5 Grp 40; R0H 0V0.....	204-322-5351
Marquette; Marquette Consumers Co-operative Limited; Box 211; R0H 0V0.....	204-375-6570
Mather; Harms Seeds Ltd.; Box 38; R0K 1L0.....	204-529-2213
Mather; McLennan Farms Ltd.; Box 67; R0K 1L0.....	204-529-2372
McCreary; Musgrave Enterprises Ltd.; Box 369; R0J 1B0.....	204-835-2527
Melita; Cargill Ltd.; Box 148; R0M 1L0.....	204-522-3221
Melita; Paterson Grain; Box 698; R0M 1L0.....	204-522-3472
Miniota; Walker's Seed Service; Box 144; R0M 1M0.....	204-567-3647
Minnedosa; Gugin Seeds; Box 789; R0J 2E0.....	204-867-3411
Minnedosa; Heritage Co-op 1997 Ltd.; Box 1050; R0J 1E0.....	204-867-2295
Minto; CanaMaize Seed Inc.; Box 144; R0K 1M0.....	877-262-4046
Minto; Fraser Seeds Ltd.; Box 85; R0K 1M0.....	204-776-2047
Minto; Pembina Consumers Coop (2000) Ltd.; Box 143; R0K 1M0.....	204-776-2353
Minto; Southern Seed; Box 203; R0K 1M0.....	204-776-2333
Morden; Philip and Norman Hildebrand; Box 276 RR 2; R6M 2A1.....	204-822-3853
Morden; Rampton Seed Services; Box 2421; R6M 1C1.....	204-822-3369
Morden; Scouler Canada Ltd.; 301 South Railway; R6M 1G7.....	204-822-6629
Morden; Winkler Co-op, Morden Agro; 205 Willcocks Road; R6M 1Y4.....	204-325-1658
Morris; Cargill Ltd.; Box 460; R0G 1K0.....	204-746-6771
Morris; Horizon Agro; Box 59 RR 1; R0G 1K0.....	204-746-2026
Morris; Red River Seeds Ltd.; River Lot 346; R0G 1K0.....	204-746-3059
Morris; Tri-M Commodities Inc.; Box 615; R0G 1K0.....	204-746-5316
Neepawa; Chris Kulbacki; Box 1986; R0J 1H0.....	204-476-6449
Neepawa; Northstar Seed Ltd.; Box 2220; R0J 1H0.....	204-476-5241
Nesbitt; Cargill Ltd.; Box 38; R0K 1P0.....	204-824-4484

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Niverville; Paterson Grain; Box 356; R0A 1E0.....	204-388-6565
Niverville; Prairie Sky Crop Solutions; Box 309; R0A 1E0.....	204-388-4303
Niverville; South East Seeds; Box 642; R0A 1E0.....	204-371-2898
Notre Dame; Durand Seeds Inc.; Box 60; R0G 1M0.....	204-248-2268
Oak Bluff; Anseeuw Farms Inc.; 53092 Road 7E; R4G 0B6.....	204-981-6711
Oak Bluff; Derek Erb Seeds Inc.; Box 272; R0G 1N0.....	204-792-6744
Oak Bluff; Terraco; Box 171; R0G 1N0.....	204-261-0731
Oak Lake; Gerlyn Acres Ltd.; Box 329; R0M 1P0.....	204-855-3128
Oak River; Henry, J.S. & Son Ltd.; Box 67; R0K 1T0.....	204-566-2422
Oakbank; Ag Advantage; 26150 Cedar Lake Rd.; R0E 1J0.....	204-444-5052
Oakbank; South East Seeds Inc.; 26150 Cedar Lake Rd.; R0E 1J0.....	204-371-0370
Oakville; Intel Seed Ltd.; Box 218; R0H 0Y0.....	204-267-7389
Oakville; Miller Agritec Inc.; Box 83; R0H 0Y0.....	204-267-2283
Petersfield; Crop Production Services Inc.; Box 340; R0C 2L0.....	204-738-2455
Pilot Mound; Cavers Farms Inc.; Box 90; R0G 1P0.....	204-825-2012
Pilot Mound; Crop Production Services Inc.; Box 419; R0G 1P0.....	204-873-2059
Pilot Mound; Double Diamond Farm Supply; Box 6; R0G 1P0.....	204-825-2429
Pilot Mound; Smith Family Seeds Ltd.; Box 132; R0G 1P0.....	204-825-7810
Pilot Mound; Wallace Seeds; RR 3; R0G 1P0.....	204-825-4543
Plum Coulee; Giesbrecht Seed Farms Ltd.; Box 60; R0G 1R0.....	204-829-3365
Plum Coulee; Janzen Seeds Ltd.; Box 43; R0G 1R0.....	204-829-7749
Plumas; Court Seeds and Greenhouses; Box 280; R0J 1P0.....	204-386-2354
Plumas; Nu Era Seeds Ltd.; Box 127; R0J 1P0.....	204-476-0631
Plumas; Tonn Seeds; Box 5; R0J 1P0.....	204-386-2206
Portage; Jamor Farms Ltd.; RR 1 Box 47; R1N 3A1.....	204-857-8274
Portage; JL Agronomics; 3 Garrioch Park Drive; R1N 3R9.....	204-871-0767
Portage; Lake Manitoba Seed Co. Ltd.; RR 1 Box 64; R1N 3A1.....	204-857-8708
Portage; New Gen Seed Service Ltd.; RR 4 Box 9; R1N 3A4.....	204-274-2417
Portage; Portage Co-op; Box 70; R1N 3B3.....	204-637-3030
Portage; Pugh Seeds Ltd.; RR 4 Box 32; R1N 3A4.....	204-274-2179
Portage; Sanderson, Garry; RR 1 Box 61; R1N 3A1.....	204-857-8406
Portage; Sissons Farms Ltd.; Box 822; R1N 3C3.....	204-857-7341
Rathwell; Payette Seeds Ltd.; Box 101; R0G 1S0.....	204-749-2243
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Reston; Crop Production Services Inc.; Box 416; R0M 1X0.....	204-877-3128
Rivers; Providence Farms; Box 424; R0K 1X0.....	204-328-7189
Rivers; Redsper Enterprises Ltd.; Box 579; R0K 1X0.....	204-328-5346
Roblin; Crop Builders Ltd.; Box 420; R0L 1P0.....	204-937-2211
Roblin; G M Seed Cleaning; RR 1; R0L 1P0.....	204-937-2739
Roblin; Parkway Consumers Co-operatives Limited; Box 729; R0L 1P0.....	204-937-6370
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 Sanford; Bergen Seed Farm; Box 205; R0G 2J0204-736-2278
 Shoal Lake; Richardson Pioneer; Box 446; R0J 1Z0204-759-2917
 Shoal Lake; Shur-Gro Farm Services Ltd.; Box 128; R0J 1Z0204-759-4240
 Snowflake; Double Diamond Farm Supply; Box 74; R0G 2K0204-876-4557
 Solsgirth; Nickel Bros.; Box 52; R0J 2B0204-842-3834
 Somerset; Delmar Commodities Ltd.; Box 89; R0G 2L0204-744-2126
 Somerset; Ronceray Seeds; Box 69; R0G 2L0204-744-2558
 Somerset; Sierens Seed Service; Box 35; R0G 2L0204-744-2883
 Souris; Crop Production Services Inc.; Box 489; R0K 2C0204-483-3860
 Souris; Kohut Seed Farms Ltd.; Box 98; R0K 2C0204-483-3063
 Springstein; Wiebe Seeds; Box 82; R0G 2N0204-735-2750
 St. Claude; R-Way Ag Ltd.; Box 388; R0G 1Z0204-379-2582
 St. Jean Baptiste; Crop Production Services Inc.; Box 369; R0G 2B0204-758-3125
 St. Joseph; AGT Foods Canada; Box 36; R0G 2C0204-737-2625
 St. Joseph; Remillard Seed Farm; Box 45; R0G 2C0204-737-2376
 St. Leon; Labossiere, Luc N.; Box 5106; R0G 2E0204-744-2208
 St. Leon; Pembina Co-op St. Leon Agro; Box 5007; R0G 2E0204-744-2850
 Starbuck; Bestland Air; Box 179; R0G 2P0204-735-2258
 Ste. Agathe; Crop Production Services Inc.; Box 68; R0G 1Y0204-882-2567
 Ste. Anne; Seine River Seed Farm; Box 6-A RR 1; R5H 1R1204-355-4495
 Ste. Rose du Lac; Gagnon Seed Service Ltd.; RR 2; R0L 1S0204-447-2118
 Ste. Rose du Lac; S & L Luke Farms Ltd.; Box 426; R0L 1S0204-447-2547
 Steinbach; Marc Hutlet Seeds Ltd.; Box 3023; R5G 1P4204-422-5805
 Stonewall; Quarry Seed Ltd.; Box 1840; R0C 2Z0204-467-8877
 Stonewall; Richardson Pioneer; Hwy 7; R0C 2Z0204-694-0825
 Stonewall; Unger Seed Farm Ltd.; Box 471; R0C 2Z0204-467-8630
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 Swan River; Oberlin Farms & Seed Service Ltd.; Box 132; R0L 1Z0204-734-2292

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 Swan River; Swan Valley Seeds; Box 2256; R0L 1Z0204-734-2526
 Teulon; Kaljent Ag Services; Box 854; R0C 3B0204-886-2180
 Teulon; Kletke Seed Farm Ltd.; Box 23; R0C 3B0204-886-2822
 Teulon; Paterson Grain; Box 865; R0C 1H0204-886-3401
 Teulon; Willis Agro Ltd.; Box 1015; R0C 3B0204-461-0386
 Treherne; Stinson Seeds; Box 1; R0G 2V0204-526-5351
 Virden; Clearview Acres Ltd.; Box 1060; R0M 2C0204-748-2666
 Virden; Huth Ag; Box 1918; R0M 2C0204-851-6157
 Virden; Nielsen Seeds Ltd.; Box 2050; R0M 2C0204-851-0225
 Warren; Jones Farm Seeds; Box 37; R0C 3E0204-322-5604
 Warren; Riddell Seed Co.; Box 10; R0C 3E0204-227-5679
 Waskada; Shur-Gro Farm Services Ltd.; Box 159; R0M 2E0204-673-2445
 Wawanesa; Ellis Farm Supplies Ltd.; Box 208; R0K 2G0204-824-2290
 Westbourne; Munro Farm Supplies Ltd.; Box 92; R0H 1P0204-274-3050
 Westbourne; Richardson Pioneer; Box 114; R0H 1P0204-274-2301
 Whitemouth; Oldenburg Inc.; Box 147; R0E 2G0204-348-2294
 Winkler; Crop Production Services Inc.; RR 1 Box 72; R6W 4A1204-325-6498
 Winkler; Ens Farms Ltd.; Box 218 RR 1 Group 16; R6W 4A1204-325-4658
 Winkler; Winkler Co-op; Box 1120; R6W 4B2204-327-6424
 Winnipeg; BrettYoung Seeds; Box 99 St. Norbert Postal Stn.; R3V 1L5204-478-2212
 Winnipeg; C.M. Agra Ltd.; Box 35 RR 2; R3C 2E6204-633-6010
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 Winnipeg; James Farms Ltd.; Box 16 Grp 620 SS 6; R2C 2Z3204-222-8785
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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	Crop kinds in Tables I to XI (except orchardgrass), XIII to XX.	None	<u>Cereals:</u> Vomitoxin <u>Pulses:</u> Ascochyta, Anthracnose, Botrytis
BioVision Seed Lab (Winnipeg) Unit 2, 25 Scurfield Blvd. Winnipeg, Manitoba R3Y 1G4	Patrick Greer Tel: 1-877-721-2365 Fax: (204) 775-6614 Patrick.Greer@biovision.ca	Crop kinds in Tables I to XI (except orchardgrass), XIII to XX	See BioVision Edmonton Lab	Grain analysis, Vomitoxin Herbicide tolerance testing in RR Canola and LL Canola and RR Soybeans
Integrity Seed Lab Ltd. 1038 Arlington Street Winnipeg, Manitoba R3E 2G1	Glen Green Tel: (204) 774-1882 Fax: (204) 774-1881 info@integrityseedlab.com g.green@integrityseedlab.com	Crop kinds in Tables I to XI (except orchardgrass), XIII to XX	None	Herbicide tolerance testing in RR Canola and LL Canola and RR Soybeans <u>Cereals:</u> Vomitoxin
Saskatchewan				
Ag Seed Lab Box 998 Carrot River, Saskatchewan S0E 0L0	Janet Stoner Tel: (306) 768-3335 Fax: (306) 768-2169 agseedlab@sasktel.net	All crop kinds	Barley for True Loose Smut	<u>Cereals:</u> Fusarium. <u>Pulses:</u> Ascochyta, Anthracnose, Botrytis, Sclerotinia <u>Canola:</u> 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	Crop kinds in Tables I to XI (except orchardgrass), XIII to XX	Barley for True Loose Smut;	<u>Flax:</u> Triffid detection <u>Cereals:</u> Vomitoxin, Ochratoxin, fusarium, root rots, Wheat Midge Refuge testing, variety identification (wheat & barley) <u>Pulses:</u> Ascochyta, Anthracnose, Botrytis, Sclerotinia <u>Canola:</u> 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	Crop kinds in Tables I to VII and XVIII	None	
Prairie Diagnostic Seed Lab Inc. 1105 Railway Ave. Weyburn, Saskatchewan S4H 3H5	Bonnie Ernst Tel: (306) 842-7375 Fax: (306) 842-7376 pdsi@sasktel.net	Crop kinds in Tables I to VII	Barley for True Loose Smut	
Seed Solutions Seed Labs Inc. Box 1420 Swift Current, Saskatchewan S9H 3G	Shanna Stolhandske-Dale Tel: (306) 741-9309 Fax: (306) 773-4460 seedsolutions@xplornet.com	Purity: none. Germination: Crop kinds in Grade Tables I to VI	Barley for True Loose Smut	
Alberta				
20/20 Seed Labs Inc. (AB) 507-11th Ave Nisku, Alberta T9E 7N5	Carey Matthiessen Tel: (780) 955-3435 Fax: (780) 955-3428 carey@2020seedlabs.ca	Crop kinds in Tables I to XX	Barley for True Loose Smut	<u>Flax:</u> Triffid detection <u>Pulses:</u> Ascochyta spp.
BioVision Seed Labs 280 Portage Close, Unit 310, Sherwood Park, Alberta T8H 2R6	Trevor Mazutinec Tel: 1-800-952-5407 Fax: (866) 589-7051 trevor.mazutinec@biovision.ca	Crop kinds in Tables I to XI (except orchardgrass), XIII to XX	Barley for True Loose Smut	<u>Flax:</u> Triffid detection CLEARFIELD confirm in wheat & lentils <u>Cereals:</u> Fusarium spp., Root Rot, Fungal Scan. <u>Pulses:</u> Botrytis, Anthracnose, Ascochyta spp. <u>Canola:</u> Blackleg Varietal Identification in barley & wheat
BioVision Seed Labs (Grande Prairie) Suite C, 12803 - 100 St. Grande Prairie, Alberta T8V 4H3	Michele Kulba Tel: 1-877-532-8889 Fax: (780) 513-0115 michele.kulba@biovision.ca	Crop kinds in Tables I to XX	None	
Precision Seed Testing Box 210 Beaverlodge, Alberta T0H 0C0	Sherry Corvalan Tel: (780) 354-2259 Fax: (780) 354-8955 precisionseed@xplornet.com	Purity: Crop kinds in Tables I to VI, VIII to XI (except orchardgrass), XII to XV. Germination: Crop kinds in Tables I to XI (except orchardgrass) XIII to XV	None	<u>Cereals:</u> Fusarium, <u>Pulses:</u> Ascochyta spp. <u>Canola:</u> 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	All crop kinds	Barley for True Loose Smut	Fusarium, Blackleg, Alternaria, Sclerotinia, Ascochyta, Anthracnose, Botrytis, Root rot, Dome test, Herbicide tolerance, 1000 Seed weight, Vigour, Tetrazolium, Moisture, Clearfield of Lentil.

*Source: Canadian Food Inspection Agency, November 8, 2016



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