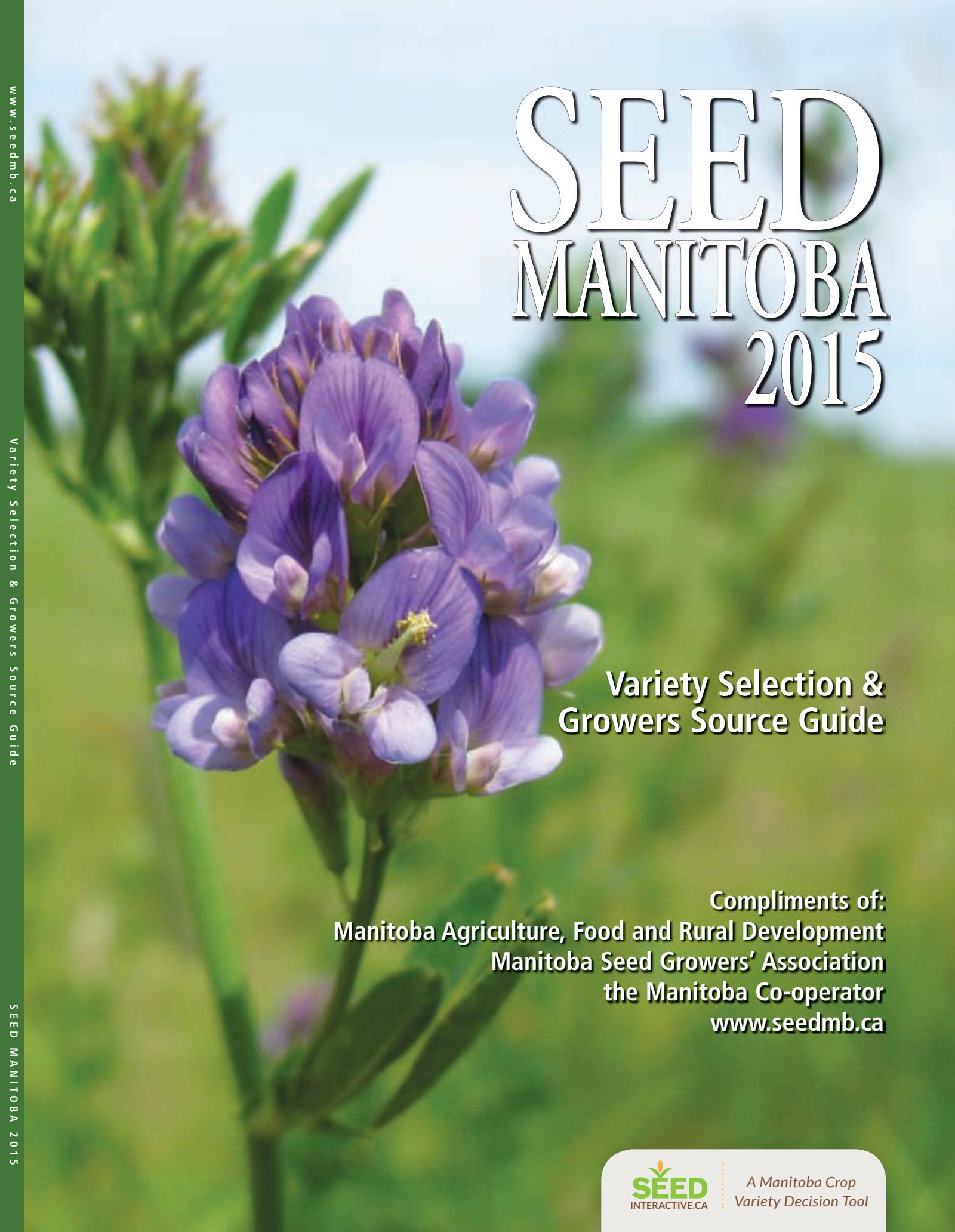




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Minister's Message



As Minister of Manitoba Agriculture, Food and Rural Development (MAFRD), I encourage you to thoroughly explore the 2015 edition of *Seed Manitoba* to help you make your variety selections and planting decisions.

Packed with up-to-date, balanced information on existing and developing cereal, oilseed, forages and special crop varieties in the province, *Seed Manitoba* is the

number one resource available to Manitoba producers.

This guide is made possible by the joint efforts of Manitoba farmers, the seed industry, the crop protections industry, commodity association and MAFRD staff. A special thank you to the Manitoba Seed Growers Association, the Manitoba Crop Variety Evaluation Team (which co-ordinates the trials), commodity groups, research contractors, and MAFRD staff who have joined together to compile and bring you the latest information on crop performance, based on Manitoba-specific growing conditions.

I know you will find value and guidance in this publication. As you begin preparations for the 2015 growing season, I wish you a prosperous and successful crop production season.

Honourable Ron Kostyshyn
Minister of Agriculture, Food and Rural Development

President's Message



The 2014 growing season is now completed and, in most areas harvest delays were experienced. Despite this, seed supplies and quality are excellent, however be sure to book your orders early to avoid any disappointment.

New varieties that advertise superior traits seem to arrive on the market every year, and sorting through each variety to suit your operation can seem daunting. The variety performance data in this seed guide is the product of comprehensive

Third Party Independent testing and *Seed Manitoba* is the only source for independent data available to Manitoba producers.

Seed Manitoba contains information provided by the MCVET team which is a partnership between Manitoba Agriculture Food and Rural Development, Farm Business Communications, Provincial Grower Associations, site co-operators, site contractors and many industry contributors and sponsors.

As you use *Seed Manitoba* to decide which varieties are right for your operation remember that your local seed grower can often provide added insight on how new varieties compare having grown them alongside the established varieties in the years of seed increase leading up to commercial release.

The board of the Manitoba Seed Growers' Association is proud to be a part of this publication, and it is our wish that as farmers are making important decisions for the 2015 growing season, the resources within this guide will be a critical source of information.

Eric McLean
President, Manitoba Seed Growers' Association

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Bayer CropScience for providing seed treatment.

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



Welcome to *Seed Manitoba 2015*

by Anastasia Kubinec, Seed Manitoba editor, Manitoba Agriculture, Food and Rural Development

Welcome to *Seed Manitoba 2015*, the Variety Selection and Growers Source Guide, compliments of Manitoba Agriculture, Food and Rural Development, Manitoba Seed Growers' Association and the *Manitoba Co-operator*.

2014 was a challenging growing season from start to finish — late seeding, flooding, drought, then a wet September and a harvest that went well into late October. Provincially, crop yields were slightly above the 10-year average, but lower-than-average yields were reported in numerous areas, largely due to the extreme weather that impacted stand establishment and crop development. Quality was average to below average. Specifically in cereals, downgrading factors from sprouting, fusarium-infected kernels and mildew are creating challenges for grain marketing.

Is this our new 'normal?' Probably not, but with the 2014 quality and disease issues in mind, new varieties for 2015 can be chosen from the following pages that have better tolerances to some of the production challenges we experienced this year.

Yield is always a key trait to look for in a variety, but other attributes such as disease resistance are important too. In the various crop types 'Variety Description' tables, you will find information on yield, height, maturity, lodging, disease resistance and specific quality attributes on % protein, % oil, test weight, etc. dependent on the crop type. This information is developed through the variety registration system, but as varieties become more commercially grown, modifications can, led by breeders and pathologists better reflect commercial performance in the field. The MCVET trials, primarily record yield performance by location, but are also used for disease assessments and quality analysis. The information collected provides a good snapshot in time and location for the varieties, but also consider that the long-term yields or multi-location yields can identify performance consistency. Check out our online tool Seed Interactive



Picture is of Parkland Crop Diversification Foundation, Roblin, MB.

PHOTO TAKEN BY UAV, CONTROLLED BY JEFF KOSTUIK, MAFRD

(www.seedinteractive.ca) that can perform some of the queries you may be looking for on multi location/variety/year comparisons.

The Manitoba Crop Variety Evaluation Team (MCVET) and commodity groups (canola, corn, pulse and sunflower) annually co-ordinate the testing and analysis of variety performance from 15 to 20 crops types at over 20 locations. The varieties tested are entered by either the breeder or the company marketing the variety. On average, there are 7,000 plots being grown in the summer to feed information into the *Seed Manitoba* publication.

Changes in *Seed Manitoba 2015*

In the Cereal section, a column for Stripe Rust resistance ratings for the Spring Wheat and Durum Wheat tables has been added. In the Oat and Barley tables, Roblin has been added as a site and is shared with the Saskatchewan Variety Performance Group (SVPG). Results are published for those entries also tested by MCVET. For barley, the trial was divided into 2-row and 6-row as what is done in Saskatchewan, and the results are presented as such.

In the Oilseed section, the Canola comments now include a list of the varieties registered as 'clubroot resistant' as a resource for produc-

ers wanting to grow these varieties. As not all the varieties have been tested in the CPT trials, additional information needs to be requested from the marketing company as to yield potential, maturity and blackleg tolerance. In the Flax tables, a new column has been added to indicate seed colour, as specific markets are buying flax based on seed coat colour. In Sunflowers, as no trials made it to yield in 2014, the long-term database is presented on varieties tested from 2011-2013 for both the confection-type and oil-type sunflower currently available in Manitoba for seed sales.

Seed Manitoba continues to be a collaborative effort between industry, government and producers to provide comprehensive 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 MAFRD 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 2015* helpful while you determine your variety choices for the upcoming 2015 growing season.

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Seed inspection's transition to the private sector: How did it go?

Much better than expected

by Allan Dawson, Manitoba Co-operator staff

Mike Scheffel doubted Canada's pedigreed seed field inspection system could be privatized in just two years. He was wrong.

"I told my boss... it was impossible..." Scheffel, the Canadian Food Inspection Agency's (CFIA) national seed section manager said during the Interprovincial Seed Growers meeting in Winnipeg Nov. 5. "Fortunately my colleagues and the CSGA (Canadian Seed Growers Association) and all the people here who helped us make this happen proved me wrong. And I am actually quite happy to be proven wrong."

Amid much trepidation, privatizing Canada's pedigreed seed inspection service this year went better than expected.

The goal was getting private company inspectors to inspect 75 to 80 per cent of Canada's pedigreed seed acres in 2014. They did 89.5 per cent, plus 52 per cent of Canada's seed plots.

"We exceeded our expectations in the first year," Scheffel said in an interview Oct. 29.

Craig Riddell, a seed grower near Warren, agrees.

"Frankly I saw a level of service and communication far beyond what I ever saw before," Riddell said. "A private company wants to keep you happy and the thing that was keeping seed growers unhappy under CFIA (inspection) was an antiquated system of communication with growers."



Mike Scheffel, national manager, seed section, Canadian Food Inspection Agency. PHOTO: ALLAN DAWSON

Electronic reporting

The CSGA administers that communication system. It rolled out its new standardized electronic reporting system to coincide with the change in service providers. As a result, seed growers got field inspection results much sooner this year, said CSGA executive director Dale Adolphe.

"The lag time when an inspection is done and CSGA receives the inspection report was

reduced from an average of 15 days to 2.3 days," Adolphe said.

"It forced us to where we should've been anyways. And it forced seed growers to have on file with us a valid email address so we could communicate with them."

Most inspectors were equipped with electronic tablets. Ninety per cent of inspection reports were filed electronically in 2014 compared to just 10 per cent last year.



Craig Riddell is a seed grower at Warren, Man. PHOTO: ALLAN DAWSON

Most of the private inspections in 2014 were for fields of foundation, registered and certified cereals and pulses, including soybeans, which make up the bulk of Canada's pedigreed seed.

Preliminary results from a survey of seed growers shows 88 per cent were satisfied or very satisfied with their inspector.

Many were former CFIA inspectors, while others were newly trained by CFIA.

Spot checks

While companies want to keep their customers happy, Riddell said he isn't worried they'll cut corners. In fact, he believes his inspector this year was more diligent than ever knowing that CFIA was doing spot checks. Too many errors could cost an inspector his or her licence. Moreover, seed growers want inspectors to follow the letter of the law.

"If they find something, it will save me a wreck down the road," Riddell said.

Despite the relatively trouble-free changeover concerns remain. One is the cost, which in 2014 was two to three times more than it used to be under CFIA. However, cutting CFIA's costs was one of the reasons for privatizing seed inspection in the first place and stemmed from federal government's 2012 budget.

The good news is in 2014 inspection fees were lower than first expected.

"The price is just something people will have to swallow," Riddell said. "We're into a cost-recovery model. I think there's enough competition there to keep that at a reasonable level. The price came along with some gains (in service)."

Small cost increase

While inspection costs took a relatively big jump, the cost increase per bushel to the farmer buying it is still small.

There were also some scheduling problems, but it's something Riddell expects can be addressed in future years.

More **SEED INSPECTION** on page 10 »

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Some service providers were also frustrated that they couldn't get more inspectors trained sooner.

Still, it was a remarkable feat given Canada has the largest seed certification process in the world, said Adolphe. In 2014 there were about 3,500 seed growers with 17,000 fields totalling 1.17 million acres in nine provinces, he said.

In those fields there were more than 2,100 varieties of more than 50 different crop kinds.

Last year there were 1.3 million acres of pedigreed seed grown in Canada — the highest since 2001. This year's plantings were on par with the five-year average.

"I can't look at these numbers and see any obvious negative impact on acreage or (seed grower) membership from alternative service delivery," Adolphe said.

Twenty-four companies were approved by CFIA to offer inspection services this year. (CFIA staff inspected 10 per cent of the acres not done by private inspectors and also conducted spot checks of inspections done by private inspectors.)

Of those 24 companies, six did 70 per cent of the inspections.

More inspectors

More than 280 inspectors were trained by CFIA in 2013 and 2014, resulting in there being more inspectors available than there was under CFIA inspection.

Adolphe, Scheffel and Riddell credit government-industry co-operation for things going so well. And the co-operation will continue as a government-industry advisory group surveys seed growers, service providers and private and CFIA inspectors about what went right and wrong, Scheffel said.

"We're not really anticipating any major modifications to the model in 2015, but we do hope to fine tune and make some minor improvements to the structures we do have in place," he said.



Dale Adolphe, executive director of the Canadian Seed Growers Association. PHOTO: ALLAN DAWSON

"I can't look at these numbers and see any obvious negative impact on acreage or membership from alternative service delivery."

— DALE ADOLPHE

"Eventually the long-term goal is almost 100 per cent of them (inspections) will be done by the private sector, but it will take a few years for people to get the experience and the qualifications to be able to do minor crop kinds and these higher-generation crops as well."

The Canadian Seed Trade Association is pressing for "second-party" seed inspection where companies inspect seed fields grown for them by farmers under contract, Adolphe

said. How that could affect the integrity of the pedigreed seed system needs to be considered, he said. Such a system may give rise to conflicts of interest.

Second party

Second-party inspection will not be allowed in 2015, Scheffel said.

"I realize there's going to be pressure for second party and other models perhaps," he said. "I think they all need to be examined in the Canadian context and the current reality of how we're structured, and recognize what unintended consequences we could perhaps see as a result of any changes we make to the model as well."

In the interim, CFIA wants the new private inspection companies to get better established.

Second-party inspection dominates in Europe, but its pedigreed seed system is much different than Canada's, Scheffel said. In Europe there are no independent seed growers; they all grow seed under contract for variety developers. All the seed sold is certified and almost all of it is protected under Plant Breeders' Rights legislation.





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Winter wheat: *Can it compete?*

It used to be the undisputed yield leader but there are some
new challengers out there

by Allan Dawson, Manitoba Co-operator staff

Winter wheat has traditionally been the go-to crop for Manitoba farmers seeking high yields, with the arrival of new general purpose and unregistered spring wheats on the market.

"I think in 2015 we'll actually see our general purpose and unregistered wheat lines surpass our winter wheat acres," Pam de Rocquigny, Manitoba Agriculture, Food and Rural Development's cereal specialist, said during a panel discussion at the Interprovincial Seed Growers' meeting in Winnipeg Nov. 5.

Industry estimates put winter wheat plantings this fall at 200,000 acres or less — half the five-year average.

Last year there were 133,983 acres of "feed wheat," which includes general purpose and

unregistered wheats, insured in Manitoba. (2014 figures won't be available until early 2015.)

The panel's topic was "Winter wheat: Can it compete?" Its conclusion? Yes.

"From the (milling) quality side, absolutely," said Lisa Nemeth, the Canadian International Grains Institute's winter wheat technical specialist.

Canada Western Red Winter (CWRW) wheat produces excellent flour, well suited for making Asian noodles, steam breads, hearth breads and for blending with other wheats, including Canada Western Red Spring (CWRS), she said.

"The Canadian wheats come with the added value of the uniformity and consistency of the class," she said. "We just had a customer in last week who is very familiar with the U.S. market...

and he said 'Canada, you have it right. You have a fingerprint on your classes, and when we buy a class we know what that quality is going to be and know that it's going to be consistent.'"

Steady supply

One of the biggest issues when promoting Canadian winter wheat sales is having a steady supply, Nemeth added.

"I believe that yes, winter wheat can compete," said University of Manitoba winter wheat breeder Anita Brûlé-Babel. "I think the yield advantage holds in most years."

More **WINTER WHEAT** on page 14 »



Lisa Nemeth of Cigi (l), University of Manitoba winter wheat breeder Anita Brûlé-Babel, and Warren seed grower Craig Riddell discussed winter wheat's competitiveness during the Interprovincial Seed Growers' meeting. Manitoba Agriculture, Food and Rural Development's cereal specialist Pam de Rocquigny facilitated the discussion. PHOTO: ALLAN DAWSON

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It didn't the last two, said Warren-area seed grower Craig Riddell. In 2013 and 2012 the Canada Western General Purpose (CWGP) variety Pasteur and the unregistered American variety Faller yielded 20 to 25 bushels an acre more than winter wheat, he said.

Manitoba's 2012-13 winter wheat crop averaged 67.5 bushels an acre, according to Manitoba crop insurance data — just slightly higher than the hard red spring wheats at 61.1. But last year feed wheat averaged 77.7 bushels an acre — 10 bushels an acre or 15 per cent more than the winter wheat.

"It (winter wheat) has been a good fit," Riddell said. "But we have seen sort of a sea change the last couple of years moving away from it for a number of reasons both market-wise and agronomic."

Poor start

Growing conditions weren't the best for winter wheat in 2012-13 or 2013-14, he said. Many stands got off to a poor start and didn't survive the winter well. The 2013-14 winter wheat crop also got hammered with fusarium head blight.

Meanwhile, Pasteur and Faller, were not only yielding as much or more than winter wheat, they were often selling for almost as much as CWRS varieties, considered the Cadillac of milling wheats.

"This is something new," Riddell said.

"They've had tremendous success and some really big yields (with Pasteur and Faller)," he said.

"Most the last two years they eclipsed winter wheat yields because the stands weren't that great and the winters weren't favourable. So there's been a major reversal where there's hardly any interest in putting any winters in the ground."

Poor growing conditions also masked the potential of some of the new winter wheat varieties, Riddell added.

"We were seeing a very tight spread in the market price — no significant premiums for protein and the slight discrepancy (lower) price for the GP was more than made up with the yield advantage," he said. "This limited price spread between all classes is evident for everything from winter (wheat) right through to feed. We don't really see a massive range at this time so growers are looking for what works for them agronomically..."

"If we get back to more normal winter survival I think the shine will come back to wheat."

Yield gap

Brûlé-Babel agrees. Growing conditions change from year to year and it's likely some



Yield Comparisons (MCVET)

Class	Mean Yield (bu/ac)	% of CWRS
CWRS	60.4	100
CWGP_S	70.0	116
CWRW	79.4	131
CWGP_W	81.9	136

Includes old and new varieties.

Seed Manitoba 2014

Yield of CWGP_W relative to CWRW 103% - Full potential not yet realized.

years will favour winter wheat over spring wheat, she said.

The gap between winter wheat and CWGP wheats isn't that big, Brûlé-Babel said. For example, the average yield of CWGP spring varieties tested under the Manitoba Crop Evaluation Trials (MCVET) in 2014 was 70 bushels an acre, compared to 79.4 for CWRW varieties, she said.

"We have seen sort of a sea change the last couple of years moving away from it for a number of reasons both market-wise and agronomic."

— CRAIG RIDDELL

A comparison of crop insurance yields between 2009 and 2013 shows a similar trend with winter wheat varieties averaging 62.9 bushels an acre versus 54 for feed wheats. It should be noted, however, some of the higher-yielding general purpose wheats are relatively new and would not have been grown during the entire period. Also, CDC Falcon was in the winter wheat class until recently being switched to general purpose.

New higher-yielding winter wheats are in the pipeline, Brûlé-Babel said. But developing new winter wheat varieties takes longer than spring

wheat, she added. Because winter wheat must vernalize before it can produce seed, it can't be harvested in the fall and shipped to the Southern Hemisphere to accelerate seed multiplication.

Winter wheat is in the ground for 11 months and there's a short window between harvesting it in the fall and replanting it, Brûlé-Babel said.

Winter wheat is a good way to diversify a farm and reduce risk, she said. Winter wheat helps farmers fight weeds and it has environmental benefits. It also spreads out a farmer's workload.

One-pass seeding

Many farmers, especially large ones, are trying to spring seed in one pass, but aren't there yet with winter wheat, Riddell said.

"For a lot of producers it's really not a time savings (growing winter wheat) when you have to do separate applications of fertilizer," he said. "And they're not happy with the spring methods of trying to effectively get that purchased pound of nitrogen into the ground compared with what they can do with their drill in a one-pass system seeding spring wheat."

Reduced crop insurance coverage for winter wheat has also made the crop less attractive, he said.

There's also less stubble to seed winter wheat into as farmers increase soybean plantings and cut back on canola.

"I know on our farm canola really hasn't been competing well with soybeans," Riddell said. "Soybeans have taken a large part of our rotation and there's just not that much stubble. There's sort of a joke in our neck of the woods that the only reason we're growing canola is for snow catch if we want something to plant our winter wheat into."



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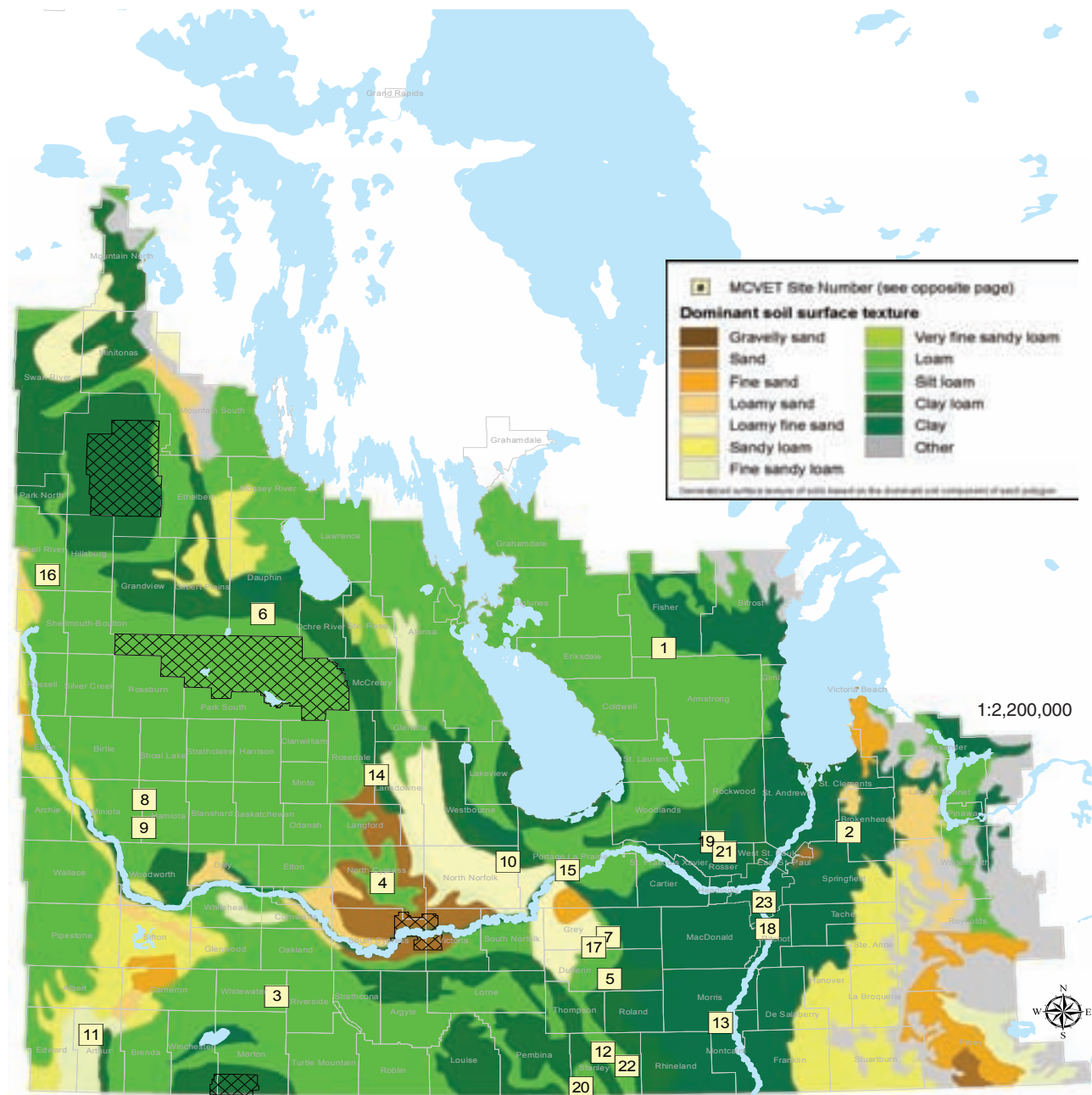


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2014 LOCATIONS OF VARIETY EVALUATION TRIALS



Site Location	Crops Tested	Contractor(s)	Soil Texture	Internal Soil Drainage	Precipitation ¹		Growing Degree Days ¹		Weather Station Used
					Actual (mm)	% of Normal	Actual	% of Normal	
1 Arborg	Spring Wheat, Oats, Barley, Winter Wheat, Industrial Hemp, Soybeans, Edible Beans, Fababeans, Peas	PESAI, S.S. Johnson Seeds Ltd.	clay	imperfect	362	121%	1370	99%	MAFRD Arborg
2 Beausejour	Winter Wheat, Soybeans,	PESAI	clay loam	imperfect	389	122%	1413	92%	MAFRD East Selkirk
3 Boissevain	Spring Wheat, Durum Wheat, Oats, Barley, Soybeans, Edible Beans, Peas	Ag-Quest Inc.	loamy	imperfect	340	122%	1496	94%	MAFRD Boissevain
4 Carberry	Winter Wheat, Industrial Hemp, Soybeans, Forages	CMCDC	clay loam	well	359	123%	1382	96%	EC Carberry
5 Carman	Soybean, Edible Bean, Grain Corn	University of Manitoba, Ag-Quest Inc.	loam	imperfect	345	115%	1480	94%	EC Carman
6 Dauphin	Spring Wheat, Oats, Barley	Ag-Quest Inc.	silty clay loam	imperfect	509	165%	1409	99%	EC Dauphin
7 Elm Creek	Silage Corn	Ag-Quest Inc.	coarse loam	imperfect	346	115%	1562	99%	MAFRD Elm Creek
8 Hamiota	Spring Wheat, Oats, Flax, Peas, Soybean, Lentil	Ag-Quest Inc.	clay loam	well	387	152%	1384	96%	MAFRD Hamiota
9 Isabella	Winter Wheat	WADO	clay loam	well	387	152%	1384	96%	MAFRD Hamiota
10 MacGregor	Grain Corn	Ag-Quest Inc.	coarse loam	imperfect	350	118%	1510	97%	MAFRD Treherne
11 Melita	Spring Wheat, Durum Wheat, Barley, Industrial Hemp, Lentil, Peas	WADO	loamy	imperfect	406	150%	1533	97%	MAFRD/WADO Melita South
12 Morden	Soybeans, Edible Beans, Grain Corn	Agriculture & Agri-Food Canada	clay loam	well	277	90%	1581	95%	EC Morden
13 Morris	Soybeans	Murphy et al. Inc.	heavy clay	imperfect	402	133%	1553	97%	MAFRD Morris
14 Neepawa	Spring Wheat, Barley	Syngenta	clay loam	well	415	139%	1284	99%	MAFRD Minnedosa
15 Portage	Spring Wheat, Barley, Oats, Soybeans, Edible Beans	CROP/ICMS	sandy loam	imperfect	332	111%	1499	93%	MAFRD Portage East
16 Roblin	Oats, Barley, Flax, Soybean, Industrial Hemp, Fababeans, Edible Beans	PCDF	loamy	well	328	106%	1230	90%	EC Roblin
17 Rosebank	Spring Wheat, Barley, Flax, Soybeans	Crop Production Services	loam	imperfect	345	115%	1480	94%	EC Carman
18 St. Adolphe	Spring Wheat, Oats, Barley, Soybeans	James Richardson International - Kelburn Farms/Murphy et al. Inc.	heavy clay	imperfect	360	113%	15773	100%	MAFRD St Adolphe
19 Stonewall	Spring Wheat, Oats, Barley, Soybeans,	SCITC/Murphy et al. Inc.	clay	imperfect	393	131%	1502	97%	MAFRD Woodlands
20 Thornhill	Spring Wheat, Oats, Barley, Peas	ICMS/ DL Seeds	loamy	well	277	90%	1581	95%	EC Morden
21 Warren	Grain Corn	PESAI	clay	imperfect	393	313%	1502	97%	MAFRD Woodlands
22 Winkler	Edible Beans	AAFC	sandy loam	well	251	81%	1567	94%	MAFRD Winkler
23 Winnipeg	Winter Wheat	University of Manitoba	silty clay	imperfect	340	107%	1532	97%	EC Winnipeg Airport

¹ Weather data is reported from May 1st to September 14th and reflects the percentage of the normal accumulations as calculated using the long-term average for the past 30 years.

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

As per MCVET, MCC, NSAC and MPGA 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 2015 can be directed to the individuals listed below:

For Canola 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 all remaining crop types, please contact Craig Linde at (204) 841-4712 or e-mail craig.linde@gov.mb.ca



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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 Co-operative Registration Trials. For Relative Maturity, please keep in mind the actual number of days to reach maturity will depend on local climactic conditions and to some extent on management practices.

Long term yield data is from MCVET plots harvested from 2000 to 2014, while protein data is from MCVET plots harvested from 2002 to 2014. 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 or a variety where protection has been applied for but not yet granted at time of printing.

Key to 2014 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.

Data collected from Portage is not presented as an individual site but data is included in the long term yield and protein columns in the Variety Description table.

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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New for 2015

Variety	Type	Code	Breeder	Distributor	Seed Availability
CDC PlatinumStar [®]	Malting - 2 Row	TR07921	Crop Development Centre	CANTERRA SEEDS	2016

Varieties that have been supported for registration

Malting - 2 Row	TR10214	AAFC - Brandon
Malting - 2 Row	TR11127	Crop Development Centre
Food and Feed - 2 Row	TR11698	Alberta Agriculture & Rural Development
Food and Feed - 2 Row	TR12735	Highland Specialty Grains
Food and Feed - 2 Row	TR12733	Highland Specialty Grains
Food and Feed - 6 Row	BT596	Alberta Agriculture & Rural Development
Hulless - 2 Row	HB623	Alberta Agriculture & Rural Development

Comments:

Seed of the new varieties **AAC Synergy**[®], **Amisk**[®], **Brahma**[®] and **CDC Maverick**[®] will be commercially available for seeding in Spring 2015.

Malting barley varieties are classified into three groups which are established annually by the Canadian Malt Barley Technical Centre (CMBTC) for the 2015/16 crop year. **"Acceptance - Recommended"** are varieties with market acceptance and recommended by the CMBTC. The category of **"Acceptance - Under Testing"** includes varieties currently undergoing commercial market development. The category of **"Malting: Other"** includes varieties not currently recommended by the CMBTC but markets may exist.

Canmore[®] is being evaluated for use in value added end use markets.

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

The hulless 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 Grains 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 2015.

Variety Descriptions

Category / Variety ¹	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 88 days	Height +/- 35 inches	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																
AC Metcalfe (2)☼	141	93	12.7	0	0	0	R	F	R	I	I	S	I	I	MR	I
Bentley (2)☼	41	99	12.3	0	2	-0.8	R	G	MS	MR	I	MS	R	I	MR	MS
CDC Copeland (2)☼	60	94	12.5	0	2	-0.5	R	F	MS	I	I	I	I	S	MR	I
CDC Meredith (2)☼	42	98	12.3	2	-1	-2.1	R	F	R	MR	I	MS	R	MS	MR	I
CDC Polarstar (2)☼	19	94	12.6	-1	0	-0.6	R	F	S	R	MS	S	MR	MS	S	MR
Celebration (6W)☼	34	99	13.1	-1	2	0	S	G	R	R	MS	S	MR	MR	I	MS
LEGACY (6W)☼	36	100	12.8	-2	3	0	S	F	I	MR	MR	S	MR	MR	MR	MS
Newdale (2)☼	61	103	12.5	0	-1	-0.5	R	F	S	MR	MR	I	MR	I	MR	I
Tradition (6W)☼	59	100	12.7	2	4	0.8	S	F	S	MR	MR	S	I	MR	MR	S
Malting: Acceptance - Under Testing																
AAC Synergy (2)☼	30	106	12.1	0	-1	-0.4	R	G	S	I	I	MR	R	R	MR	MS
CDC Kindersley (2)☼	34	98	12.5	-1	-1	0	R	G	S	R	I	MS	MR	I	MR	I
Cerveza (2)☼	36	105	12.3	1	-2	-1.4	R	F	R	R	I	MS	MR	R	MR	I
Merit 57 (2)☼	39	99	12.4	3	-1	-1.9	R	F	S	I	MR	MS	R	MS	I	MS
Malting: Other																
CDC Anderson (6)☼	30	100	12.2	-1	-2	0	R	G	MR	R	I	MS	MR	R	MR	I
CDC Battleford (6W)☼	63	99	12.6	1	-1	1.6	S	G	MS	MR	MR	MS	R	R	MR	S
CDC Kamsack (6)☼	28	96	12.5	0	2	-1	R	VG	I	R	MS	S	I	MR	MR	S
CDC Kendall (2)☼	18	93	—	2	0	0.2	R	F	MS	MS	MR	I	MR	S	MS	I
CDC Mayfair (6)☼	41	102	12.6	-1	3	-1.5	R	G	S	R	MS	MS	MR	I	MR	MS
CDC PlatinumStar (2)☼	5	94	12.5	0	1	-0.5	R	F	S	R	S	I	MR	S	I	MR
Lacey (6W)☼	41	98	12.9	1	2	-0.7	S	G	I	MR	MR	S	I	MR	MR	S
Major (2)☼	35	103	12.4	0	-1	-0.7	R	G	R	MR	MS	I	MR	MR	MR	I
Norman (2)☼	29	95	12.8	-1	-1	-0.5	R	F	S	S	MS	MS	R	S	S	MR
Robust (6W)	94	91	13.1	1	4	-0.7	S	G	I	I	I	S	MS	MR	MR	S
Stellar-ND (6W)☼	32	95	12.6	-2	2	0	R	G	MR	R	MS	S	I	MR	I	I

BARLEY (continued)

Category / Variety ¹	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 88 days	Height +/- 35 inches	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		
Food and Feed																	
AC Ranger (6F)	38	103	12.4	1	-3	0.1	S	G	MS	I	MR	I	MR	MR	MR	MR	S
Amisk (6)☼	16	106	12.5	1	0	-2.3	SS	G	S	MS	MS	I	MR	MR	MR	MR	S
Brahma (2)☼	36	103	12.3	0	-2	0.5	R	G	MS	R	MR	S	I	S	MR	I	I
Breton (6F)☼	30	100	12.3	0	-2	0.8	S	G	MS	MR	I	I	MR	MR	MR	MR	S
Canmore (2)☼	16	103	12.3	1	0	0.7	R	G	R	R	I	MS	MR	I	MS	I	I
CDC Austenson (2)☼	39	109	12.1	1	0	0.5	R	G	S	R	I	MS	R	MR	I	I	I
CDC Coalition (2)☼	39	100	12.4	1	2	0.8	R	VG	R	MR	I	S	MR	I	MR	I	I
CDC Cowboy (2F)☼	50	92	13.0	1	6	1.3	R	G	MS	MR	I	I	MR	I	MR	MR	MR
CDC Helgason (2)☼	33	99	12.3	-1	0	0.8	R	G	R	MR	I	MR	MR	I	I	MS	MS
CDC Maverick (2F)☼	16	94	12.9	1	4	5.4	S	F	S	R	I	I	MR	I	MR	I	I
CDC Mindon (2)☼	56	92	12.7	1	-1	0.3	R	G	R	R	—	S	MR	I	I	MR	MR
CDC Trey (2)☼	63	101	12.4	0	2	0.3	R	G	MS	R	MR	I	R	I	MR	I	I
CDC YORKTON (6W)	22	104	12.6	0	5	-3	S	G	MS	MR	MR	I	MR	MR	MR	MR	S
Champion (2)☼	44	107	12.3	0	0	0.8	R	G	S	R	—	S	I	MS	I	I	I
Chigwell (6)☼	41	97	12.2	0	0	-1.6	S	G	MS	R	S	I	MR	MR	S	S	S
CONLON (2)☼	84	89	12.6	-1	-1	0.8	S	G	I	I	I	I	MR	MS	MR	MR	MR
Desperado (6F)☼	44	101	12.5	1	2	2.5	S	G	MS	R	MR	S	MR	MR	MR	MR	S
Gadsby (2)☼	29	96	12.7	0	3	0.1	R	F	R	R	I	MS	MR	S	MR	I	I
Muskwa (6)☼	30	100	12.5	0	-5	1.3	S	G	MS	R	MS	MS	MR	I	MR	S	S
Sundre (6)☼	5	89	12.4	—	—	—	S	G	MS	R	MS	MS	I	I	I	I	S
XENA (2)	19	98	—	0	0	0.3	R	G	MS	MS	MR	S	I	S	MR	MR	MR
Hulless																	
CDC Carter (2)☼	35	87	12.9	1	0	8	R	F	R	R	S	I	MR	I	I	I	I
CDC Clear (2)☼	28	92	12.4	2	2	9	R	F	R	R	I	MS	R	I	MR	MR	MR
Taylor (2)☼	28	78	12.8	0	0	8	R	G	R	I	MS	MS	MR	I	MR	MR	MR
Varieties that have been supported for registration																	
Malting: Other																	
TR10214 (2)	16	104	12.3	1	1	-0.4	R	F	S	I	S	I	R	I	MR	MR	MR
TR11127 (2)	5	95	12.4	1	1	0.5	R	G	S	I	MS	S	MR	I	MR	MS	MS
Food and Feed																	
BT596 (6)	5	108	12.6	2	1	0.4	S	G	I	MR	I	I	MR	I	I	I	I
TR11698 (2)	5	99	12.3	1	0	-0.3	R	F	R	MR	I	MS	R	I	S	MS	MS
TR12733 (2)	5	105	12.4	0	0	-0.2	R	G	S	R	I	S	I	I	MR	I	I
TR12735 (2)	5	106	12.3	2	-5	0.2	R	G	S	R	I	S	MR	I	I	S	S
Hulless																	
HB623 (2)	5	88	12.8	-1	3	10	R	G	S	I	I	I	MR	I	I	I	I
GRAND MEAN		99	12.7														
LSD (0.05)		5	0.4														

¹ Values in brackets indicate row and type: 2 = two-row; 6 = six-row; B = blue aleurone; 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

Category/Variety	2014 Yield (bu/acre)										
	Arborg	Boissevain	Dauphin	Melita	Neepawa	Rosebank	St. Adolphe	Stonewall	Thornhill	Roblin (6-Row)	Roblin (2-Row)
Malting											
AAC Synergy☼	111	131	127	99	148	118	77	111	112	—	196
AC Metcalfe☼	108	111	111	81	126	102	62	93	96	150	144
CDC PlatinumStar☼	111	112	124	—	—	—	—	—	87	—	155
Food and Feed											
Amisk☼	123	124	112	98	163	126	65	112	130	183	—
Breton☼	98	104	126	94	154	116	71	101	104	178	—
Canmore☼	126	119	124	98	138	115	82	104	119	—	194
CDC Maverick☼	102	109	110	90	124	110	69	107	94	—	164
Varieties that have been supported for registration											
Malting											
TR10214	111	119	134	99	145	122	85	104	100	—	182
TR11127	108	111	111	—	—	—	—	—	105	—	168
Food and Feed											
BT596	109	120	132	—	—	—	—	—	126	183	—
TR12733	120	124	133	—	—	—	—	—	100	—	197
TR12735	125	119	140	—	—	—	—	—	109	—	165
Hulless											
HB623	90	93	103	—	—	—	—	—	97	—	156
SITE GRAND MEAN (bu/acre)	110	114	121	94	142	117	74	105	105	171	168
CV %	6.7	5.7	4.9	5.4	7.3	6.1	7.5	2.6	6.1	3.5	8.0
LSD (bu/acre)	16	11	10	9	18	13	10	5	11	11	22
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	23-May	23-May	26-May	15-May	26-May	09-May	16-May	22-May	15-May	23-May	23-May
Harvest Date	09-Sep	07-Sep	16-Sep	30-Aug	16-Sep	20-Aug	20-Aug	27-Aug	03-Sep	11-Sep	11-Sep

Protein Comparisons

Category/Variety	2014 Protein (%)									
	Arborg	Boissevain	Dauphin	Melita	Neepawa	Rosebank	St. Adolphe	Stonewall	Thornhill	
Malting										
AAC Synergy☼	11.6	11.3	11.7	10.6	—	12.7	11.6	11.0	12.6	
AC Metcalfe☼	12.3	11.8	12.4	11.8	12.3	13.9	13.1	11.3	13.6	
CDC PlatinumStar☼	11.9	11.8	11.0	—	—	—	—	—	13.0	
Food and Feed										
Amisk☼	12.3	11.8	11.9	11.7	12.4	12.1	12.5	11.6	13.5	
Breton☼	11.9	11.7	12.1	11.4	11.8	9.7	13.4	11.5	12.6	
Canmore☼	12.3	11.6	11.9	10.8	11.8	12.4	12.5	11.0	13.2	
CDC Maverick☼	13.3	12.9	12.6	11.7	12.7	12.1	13.8	12.0	14.0	
Varieties that have been supported for registration										
Malting										
TR10214	11.6	11.8	11.7	11.0	12.0	11.5	12.6	11.2	13.4	
TR11127	12.0	11.8	11.4	—	—	—	—	—	12.4	
Food and Feed										
BT596	12.1	11.7	12.2	—	—	—	—	—	13.4	
TR12733	12.2	11.1	10.7	—	—	—	—	—	12.9	
TR12735	11.8	10.9	10.9	—	—	—	—	—	12.6	
Hulless										
HB623	12.1	13.2	12.5	—	—	—	—	—	14.2	
SITE GRAND MEAN (%)	12.1	11.8	11.8	11.3	12.2	12.1	12.8	11.4	13.2	

2015-16 Canadian Malting Barley Technical Centre Recommendations

The following varieties of two-row and six-row malting barley are registered with the Canadian Food Inspection Agency based on good agronomic and industry malting quality evaluations. Since registration these varieties have been pilot scale tested by the CMBTC for their malting and brewing properties. All varieties listed below exhibit good malting and brewing properties. In addition to market opportunities, seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators and malting companies. The CMBTC and its members recommend that you talk with your local malting barley buyer about opportunities in your area to grow and market two-row and six-row malting barley varieties. Visit CMBTC's website for detailed pilot malting & brewing data http://www.cmbtc.com/CMBTC_Site/Variety_Technical_Data.html

Two-Row Varieties

VARIETY	SOURCE ³	MARKET COMMENTS
AC Metcalfe	1	Established Demand
CDC Copeland	1	Established Demand
CDC Meredith	1	Limited, Increasing Demand
Bentley	2	Limited, Stable Demand
CDC Kindersley	1	Undergoing Commercial Market Development
Cerveza	6	Undergoing Commercial Market Development
AAC Synergy	5	Undergoing Commercial Market Development
Additional Two-Row Varieties¹		
Newdale	4	Limited, Stable Demand
CDC PolarStar	2	Limited, Stable Demand
Merit 57	2	Undergoing Commercial Market Development

¹ These two-row varieties are primarily handled by one company. For interest in growing Newdale, please contact Canada Malting Company. CDC PolarStar is produced in a closed loop, identity preserved program. For interest in growing CDC PolarStar, please contact Prairie Malt/Cargill. For interest in growing Merit 57, please contact BARI-Canada.

Note: CDC Landis is not yet grown for commercial use. Production is limited to quantities required for pre-market development testing.

Six-Row Varieties²

VARIETY	SOURCE ³	MARKET COMMENTS
Legacy	3,4	Limited Demand
Tradition	4	Limited Demand
Celebration	2	Limited Demand

² Demand for six-row malting barley has been declining. Please talk to your local malting company selector in regard to demand for six-row varieties in your area.

Note: CDC Anderson is not yet grown for commercial use. Production is limited to quantities required for pre-market development testing.

³ The following companies have pedigreed seed distribution rights for those varieties that are footnoted:

1-SeCan; 2 - CANTERRA SEEDS; 3 - Crop Production Services; 4 - FP Genetics; 5 - Syngenta; 6 - Mastin Seeds

CMBTC Members: Canadian Grain Commission, Parrish & Heimbecker, Prairie Malt, Public Barley Breeders, Richardson International, Viterra, ADM-Benson Quinn, SAB Miller, CWB, Manitoba Liquor and Lotteries, Molson Coors, Tsingtao Brewery, New Glarus Brewing, SeCan, Syngenta, Alberta Barley Commission, Alberta Agriculture, CANTERRA SEEDS, Hilar MDL Beer Material, Manitoba Agriculture, Saskatchewan Agriculture.

Other organizations providing input to this list: The BMBRI and BARI-Canada.

OATS

New for 2015

Variety	Code	Breeder	Distributor	Seed Availability
Bia	CFA00137	Lantmännen SW Seed AB	La Coop Federee	n/a
Nice	QO.685.43	McGill University	La Coop Federee	n/a
CS Camden	OT4001R	Lantmännen SW Seed AB	CANTERRA SEEDS	2015

Varieties that are being tested or proposed for registration

OT3066	Crop Development Centre
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Comments:

Seed of the new varieties **CDC Haymaker**, **CDC Morrison** and **CS Camden** will be commercially available for seeding in Spring 2015.

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

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.

Variety Descriptions

Variety ¹	Years Tested	Site Yield bu/acre	Maturity +/- 96 days	Height +/- 33 inches	Test Wt +/- 39.3 lb/bu	Hull %	Hull Colour	Resistance Level:				
								Lodging	Smut	Crown Rust	Stem ² Rust	BYD ³
AAC Justice	20	144	0	2	0.5	22.8	White	G	R	R	I	I
AC Morgan	36	136	-1	6	-1.0	25.2	White	G	I	S	S	MS
Bia	8	140	-4	4	-0.2	25.8	White	G	—	S	—	—
Bradley	29	133	2	3	—	—	White	G	R	MS	MS	MS
CDC Big Brown	41	135	-1	1	0	20.4	Tan	G	R	R	MS	MS
CDC Dancer	60	128	-3	5	0.5	19.6	White	G	R	I	I	MS
CDC Haymaker (F)	20	120	2	10	-1.0	22.0	White	G	MR	S	S	—
CDC Minstrel	40	138	0	3	-0.2	22.3	White	VG	R	MS	I	MS
CDC Morrison	5	128	-2	-1	-1.0	24.4	White	VG	R	R	I	I
CDC ProFi	39	122	-3	1	-1.0	20.0	White	G	MS	S	I	MS
CDC Ruffian	30	146	0	0	-0.8	20.5	White	G	R	I	S	S
CDC Seabiscuit	34	135	0	6	-0.5	20.1	White	G	MR	S	I	S
CDC Weaver	36	129	-1	5	-1.0	19.0	White	F	R	S	I	MS
CS Camden	7	149	2	0	-1.5	21.1	White	G	I	MS	S	S
Furlong	93	128	-1	8	0.5	20.3	Tan	G	R	S	I	MR
HiFi	63	137	-3	6	0	24.7	White	G	MS	R	I	MR
Jordan	51	138	2	3	-2.0	23.6	White	VG	R	I	I	MR
Leggett	116	136	0	0	0	23.0	White	G	R	R	I	MS
Nice	8	136	-3	4	1	25.4	White	G	—	MS	—	—
Pinnacle	68	145	3	4	-1.2	23.7	White	G	R	S	I	MS
Ronald	84	128	0	1	0	22.1	White	VG	R	S	I	MR
Souris	59	134	-4	0	0.5	20.9	White	G	R	R	MR	MS
Stainless	25	130	-3	5	-0.5	22.4	Light Grey	G	R	R	MR	MR
Stride	36	134	-2	5	0.6	23.7	White	VG	R	R	I	I
Summit	41	141	0	-1	0.5	20.8	White	G	R	R	I	I
Triactor	42	153	-1	3	-1.5	22.1	White	VG	I	MR	S	MS
Varieties that have been supported for registration												
OT3066	5	136	-3	2	-1.0	20.5	White	G	MS	MR	S	I
GRAND MEAN (bu/acre)		135										
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	2014 Yield (bu/acre)						
	Arborg	Boissevain	Hamiota	St. Adolphe	Stonewall	Thornhill	Roblin
AAC Justice☼	177	82	114	178	154	177	248
Bia☼	170	79	101	159	157	175	279
CDC Haymaker☼	136	57	140	109	119	117	253
CDC Ruffian☼	149	78	125	179	161	135	292
CS Camden☼	162	72	141	—	164	191	302
Leggett☼	159	65	93	166	159	166	232
Nice	154	77	99	159	156	154	255
Souris☼	159	92	115	149	143	155	244
Varieties that have been supported for registration							
OT3066	152	83	114	—	—	178	273
SITE GRAND MEAN (bu/acre)	158	75	116	157	153	161	261
CV %	8.4	12.9	10.6	1.8	2.3	4.9	6.9
LSD (bu/acre)	—	17	21	5	6	14	31
Sign Diff	No	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	23-May	23-May	17-May	09-May	16-May	22-May	15-May
Harvest Date	09-Sep	10-Sep	12-Sep	20-Aug	08-Sep	28-Aug	03-Sep

HULLESS OATS

Comments:

Hulless oats were last tested in 2008.

GEHL☼ is the first bald hulless oat variety as it does not have surface-borne hairs (trichomes). **GEHL**☼ also has improved hulless expression.

The yield of hulless oats is less than that of common oats in which the hull is part of the yield. Hulless oats should be stored at <12% moisture.

Hulless oats are a specialty product for which a market should be ensured prior to planting.

Crown rust races capable of attacking varieties with the Pc68 gene are now prevalent in Manitoba. This has resulted in varieties being redefined as Susceptible (S) for Crown Rust resistance. Early seeding may reduce the likelihood of severe infection.

Variety Descriptions

Variety	Yield % Check	Site Years Tested	Days to Maturity +/- Check	Height +/- Check	Test Weight +/- Check	Resistance Level:				
						Lodging	Smut	Crown Rust	Stem ¹ Rust	BYD ²
AC Belmont	80	3	0	-5	1.1	G	R	S	I	MS
AC Gwen	82	3	2	-2	5.2	VG	R	S	I	I
Furlong☼	100	3	0	0	0	G	R	S	I	MR
GEHL	62	3	-2	-3	9.8	G	R	S	MS	S
Navan	70	3	-3	-3	5.0	G	—	S	—	I
CHECK CHARACTERISTICS										
Furlong☼	4780 lbs/acre	3 site years	95 days	41 inches	39.8 lb/bu					

¹ 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.

² BYD = Barley Yellow Dwarf - a viral disease carried and spread by aphids - early seeding will generally reduce the likelihood of severe infection.



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SPRING WHEAT

New for 2015

Variety	Class	Code	Breeder	Distributor	Seed Availability
AAC Prevail VB	CWRS	BW462	AAFC - Winnipeg	Alliance Seed	—
AAC W1876	CWRS	BW957	AAFC - Swift Current	CANTERRA SEEDS	2015, Limited Supply
CDC Titanium VB	CWRS	PT584	Crop Development Centre	CPS Canada Inc.	—
Coleman	CWRS	PT765	University of Alberta	Lefsrud Seed	2015
Thorsby	CWRS	BW947	University of Alberta	CANTERRA SEEDS	2015
AAC Penhold	CPSR	HY1319	AAFC - Swift Current	SeCan	—
AAC Tenacious VB	CPSR	HY1615	AAFC - Winnipeg	Alliance Seed	—
SY995	CPSR	HY995	Syngenta Canada Inc.	—	—
CDC Whitewood	CWHWS	HW612	Crop Development Centre	SeCan	—
SY087	CWGP	GP087	Syngenta Canada Inc.	—	—
AAC NRG097	CWGP	GP097	AAFC - Swift Current	CANTERRA SEEDS	2016
WFT603	CWGP	GP119	Western Feed Grains Dev. Co-op Ltd.	Western Feed Grains Dev. Co-op Ltd.	2015

Varieties that have been supported for registration

CWRS	BW472	Crop Development Centre
CWRS	BW479	Syngenta Canada Inc.
CWRS	BW483	AAFC - Winnipeg
CWRS	BW485	AAFC - Winnipeg
CWRS	BW487	AAFC - Winnipeg
CWRS	BW961	AAFC - Swift Current
CWRS	PT245	AAFC - Swift Current
CWRS	PT468	AAFC - Winnipeg
CWRS	PT637	Syngenta Canada Inc.
CPSR	HY1603	AAFC - Winnipeg
CPSR	HY1610	AAFC - Winnipeg
CWHWS	HW363	AAFC - Swift Current

Comments:

Seed of the new CWRS varieties **AAC Brandon**, **AAC Elie**, **AAC Redwater**, **AAC W1876**, **CDC Plentiful**, **Coleman** and **Thorsby**, and CPSR varieties **AAC Ryley** and **Enchant VB** will be commercially available for seeding in Spring 2015.

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).

Producers are strongly encouraged to use a combination of the Canadian Food Inspection Agency's **List of Registered Varieties** (www.inspection.gc.ca) and the Canadian Grains Commission's **Variety Designation Lists** (www.grainscanada.gc.ca) to determine the registration and grade eligibility status of varieties.

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 37 inches	Spike Awned	Resistance Level:										Fusarium ²	
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust	Head Blight			
Canada Western Red Spring																		
5602HR☼	90	63	14.9	1	0	Y	F	F	R	MR	I	R	R	I	MR			
5603HR☼	41	63	14.1	2	0	Y	G	VG	MS	I	MR	MR	R	MS	I			
5604HR CL☼	40	61	14.7	-1	-1	Y	G	G	MS	I	MS	R	R	—	I			
5605HR CL☼	16	62	14.2	1	-1	Y	VG	—	R	MR	MS	MS	R	MR	MR			
AAC Bailey☼	27	50	14.5	-1	0	N	G	G	MS	MR	I	R	R	—	I			
AAC Brandon☼	27	65	13.9	2	-5	Y	VG	P	MR	S	I	R	R	MR	MR			
AAC Elie☼	27	66	13.9	2	-6	Y	VG	F	I	I	I	R	R	MR	I			
AAC Prevail VB☼	16	63	13.6	1	2	N	G	F	S	S	MS	MR	R	R	I			
AAC Redwater☼	27	60	14.1	-1	-2	Y	G	VG	MS	I	MS	R	R	MR	I			
AAC W1876☼	4	60	14.6	3	-4	Y	VG	—	I	I	MS	MR	R	I	I			
AC Barrie☼	164	57	14.6	0	0	N	G	G	MR	I	MS	MR	MS	S	I			
AC Cadillac	6	60	—	-1	3	N	F	F	R	R	I	R	MR	I	I			
AC Domain	22	55	14.8	-2	-1	N	VG	VG	R	I	S	R	I	MR	MS			
Alvena☼	30	60	14.8	-2	0	N	G	P	MR	I	—	MR	I	I	MS			
Carberry☼	54	62	14.5	2	-5	Y	VG	F	MR	R	MS	MR	R	MR	MR			
Cardale☼	27	63	14.1	2	-4	Y	VG	G	I	MR	MS	R	R	MR	MR			
CDC Abound☼	42	59	14.4	2	-4	Y	G	F	I	I	MS	R	MS	MS	S			
CDC Go	24	62	14.3	-1	-2	Y	G	P	MS	I	S	R	I	MR	MS			
CDC Kernen☼	39	60	14.7	1	1	Y	G	P	R	I	MS	MR	MR	I	I			
CDC Plentiful☼	27	62	14.1	-3	-2	N	VG	P	R	I	I	R	R	MR	MR			
CDC Stanley☼	34	62	14.6	0	-1	N	G	G	MR	S	I	R	MR	I	MS			
CDC Thrive☼	37	57	14.6	-1	0	N	G	F	MR	I	I	MR	I	I	MS			
CDC Titanium☼	16	61	14.2	2	0	Y	G	—	MS	I	MS	I	R	R	MR			
CDC Utmost VB☼	38	63	14.4	-1	-1	N	G	G	MS	S	I	MR	R	I	MS			
CDC VR Morris☼	27	63	14.2	0	0	N	G	P	I	I	I	MR	R	—	MR			
Coleman	16	57	13.7	2	2	Y	G	—	S	S	MS	MR	R	MR	MR			

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 37 inches	Spike Awne	Resistance Level:										Fusarium ² Head Blight
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust			
Fieldstar VB ☼	43	64	14.6	0	1	Y	F	VG	I	I	I	MR	R	MS	I		
Glenn☼	92	62	14.1	2	-2	Y	VG	F	I	I	I	R	R	MR	I		
Goodeve VB☼	53	62	14.8	-2	-1	N	VG	G	MR	S	MS	MR	MR	I	S		
Harvest☼	61	60	14.3	-1	-2	N	VG	VG	MR	S	MS	R	MR	MR	S		
Infinity☼	37	60	15.2	-2	0	N	G	G	MR	MR	MS	MR	MR	MS	S		
KANE☼	90	61	14.4	1	-2	Y	G	VG	MS	I	I	R	R	MR	I		
Muchmore☼	40	62	14.4	2	-6	Y	VG	G	MR	R	MS	R	R	MR	MS		
Shaw VB☼	40	63	14.4	0	2	N	G	G	S	MR	MS	R	MR	I	MS		
Somerset☼	38	59	15.1	-1	3	N	G	F	R	MS	MS	R	MR	—	MS		
Stettler☼	40	59	14.8	1	-2	Y	G	G	R	MR	MS	MR	MS	MR	MS		
Superb☼	83	60	14.4	2	-3	Y	VG	F	I	MR	MS	R	S	MS	MS		
SY433☼	38	57	14.6	2	1	Y	G	VG	I	S	I	R	R	—	MR		
Thorsby☼	5	60	14.3	-2	0	N	VG	—	I	S	MS	MR	R	R	I		
Unity VB☼	53	65	14.3	0	0	Y	F	VG	MS	R	I	MR	R	MS	I		
Vesper VB☼	39	65	14.4	0	-1	Y	G	F	I	S	I	MR	R	S	I		
Waskada☼	43	62	14.6	1	2	Y	F	VG	MR	R	MS	R	I	MS	MR		
WR859 CL☼	42	62	14.6	0	-3	Y	G	G	R	R	MS	MR	R	I	MR		
Canada Prairie Spring Red																	
5700PR☼	33	63	13.3	3	-6	Y	VG	F	MS	R	MS	R	I	MS	MS		
5702PR☼	30	66	12.8	1	-4	Y	VG	P	MS	I	I	I	MR	MS	MS		
AAC Penhold☼	16	70	13.1	1	-9	Y	VG	—	I	R	I	MR	R	MR	MR		
AAC Ryley☼	28	67	12.6	1	-4	Y	G	G	I	R	MS	R	R	S	MS		
AAC Tenacious VB☼	16	59	12.1	1	3	Y	G	G	R	MR	MS	MR	R	R	R		
Conquer VB☼	40	64	13.2	2	-1	Y	G	P	MS	R	I	R	MR	MR	MS		
Enchant VB☼	28	68	12.8	1	-2	Y	G	G	MR	R	MS	MR	R	S	S		
SY985☼	44	66	13.3	2	-6	Y	G	P	R	MR	I	R	R	—	I		
SY995☼	16	68	12.4	2	-5	Y	VG	—	S	MR	MS	MR	R	MR	MS		
Canada Western Extra Strong																	
Burnside	52	59	14.3	-1	2	N	G	G	R	I	MS	R	R	R	S		
CDN Bison	39	65	13.7	1	-2	Y	G	F	R	I	I	R	MR	—	I		
Glencross VB	41	62	14.1	0	3	N	G	F	R	I	MS	R	MR	MR	S		
Canada Western Hard White Spring																	
AAC Iceberg☼	26	57	13.5	0	-4	Y	G	P	MS	MR	MS	R	R	I	I		
AAC Whitefox☼	16	62	13.3	-2	-2	N	G	—	MS	MS	MS	MR	MR	MS	I		
CDC Whitewood☼	16	54	13.6	0	-4	Y	VG	G	S	S	MS	MR	MR	I	I		
Snowbird☼	93	59	13.8	0	0	N	G	G	MR	MS	MS	MR	I	MS	I		
Snowstar☼	37	63	13.5	-1	-4	N	VG	G	MS	S	MS	R	MR	MS	MS		
Whitehawk☼	32	55	13.7	-2	0	N	VG	G	I	MS	MS	I	R	MS	MS		
Canada Western Soft White Spring																	
AAC Chiffon☼	15	77	11.2	4	-1	Y	F	VP	S	S	—	S	I	MR	S		
AC Andrew	30	72	10.8	4	-4	Y	VG	P	S	S	—	MR	MS	I	I		
Sadash☼	34	71	10.8	4	-2	Y	VG	P	I	S	—	MR	I	R	S		
Canada Western General Purpose																	
AAC Innova☼	15	71	11.6	4	-3	Y	F	VP	S	S	I	MR	R	R	S		
AAC NRG097☼	16	70	11.8	5	-4	Y	VG	—	I	R	I	MR	R	S	I		
AAC Proclaim☼	28	68	12.1	3	-1	Y	F	F	MR	S	I	MR	R	MS	MR		
CDC NRG003☼	40	68	12.9	1	-4	Y	G	G	MS	R	MS	R	MS	—	S		
Minnedosa☼	40	67	13.0	-1	-4	Y	G	G	I	R	MS	MR	R	—	MS		
NRG010☼	40	71	12.8	4	-3	Y	VG	F	MS	R	I	R	R	R	MS		
Pasteur	38	74	12.9	7	-3	N	VG	G	MS	S	I	MR	R	MR	I		
SY087☼	16	69	13.0	2	-3	Y	VG	—	MS	MR	I	MR	MR	MR	MR		
WFT603☼	5	70	12.2	5	-5	Y	G	—	I	R	I	I	I	MR	MR		
Varieties that have been supported for registration																	
Canada Western Red Spring																	
BW472☼	5	62	14.2	3	-3	Y	VG	—	MR	R	MS	MR	R	MS	I		
BW479☼	5	63	14.9	1	0	Y	VG	—	MS	R	MS	I	R	S	I		
BW483	5	71	14.0	1	0	Y	G	—	S	MS	I	I	R	I	I		
BW485	5	71	13.6	1	0	Y	G	—	S	R	I	MR	MR	S	I		
BW487	5	62	14.0	4	-3	Y	G	—	MS	MR	I	R	MR	S	I		
BW961☼	5	59	14.3	1	-4	Y	VG	—	MS	MR	S	R	MR	I	I		
PT245☼	5	58	14.8	1	-1	N	VG	—	MR	I	I	R	MR	R	MR		
PT468	5	59	14.6	0	3	N	G	—	MR	I	I	I	MR	MR	I		
PT637☼	5	62	14.1	3	2	Y	VG	—	MS	MR	I	MR	R	MR	MR		
Canada Prairie Spring Red																	
HY1603☼	15	69	13.2	0	-6	Y	G	—	MR	I	MS	R	R	MR	I		
HY1610☼	16	73	12.4	1	-3	Y	VG	—	MS	I	MS	MR	R	I	I		
Canada Western Hard White Spring																	
HW363	5	63	13.9	-1	-4	Y	VG	—	MR	MS	MS	MR	MR	R	I		
GRAND MEAN		66	14.0														
LSD (0.05)		4	0.6														

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 environment and heading date. Under high levels of the disease all varieties will sustain damage.

SPRING WHEAT (continued)

Yield Comparisons

Class/Variety	2014 Yield (bu/acre)									
	Arborg	Boissevain	Dauphin	Hamiota	Melita	Neepawa	Rosebank	St. Adolphe	Stonewall	Thornhill
Canada Western Red Spring										
5605HR CL☺	71	81	81	88	50	94	74	52	63	88
AAC Bailey☺	57	67	67	83	44	72	56	40	55	64
AAC Brandon☺	64	80	82	85	52	90	78	58	67	82
AAC Elie☺	79	77	79	82	52	92	82	55	69	89
AAC Prevail VB☺	65	84	95	99	50	88	76	60	50	76
AAC Redwater☺	68	79	75	83	48	76	76	54	60	82
AAC W1876☺	—	81	74	82	—	—	—	—	—	73
Carberry☺	72	72	69	84	42	83	67	53	66	82
Cardale☺	75	87	68	83	44	86	80	55	59	78
CDC Plentiful☺	77	69	87	86	47	92	75	51	64	88
CDC Titanium☺	65	83	82	80	53	103	67	56	59	78
CDC Utmost VB☺	81	76	91	99	49	102	76	58	57	77
CDC VR Morris☺	76	81	80	84	49	87	81	54	65	83
Coleman☺	59	78	76	76	54	80	72	45	60	68
Glenn☺	71	78	80	82	47	78	74	51	59	77
SY433☺	—	—	70	78	—	80	—	—	—	77
Thorsby☺	64	75	84	80	—	—	—	—	—	80
Canada Western Hard White Spring										
AAC Iceberg☺	58	82	59	81	40	75	73	52	50	75
AAC Whitefox☺	80	70	86	95	55	80	78	53	57	83
CDC Whitewood☺	53	67	71	78	38	74	70	47	50	77
Varieties that have been supported for registration										
Canada Western Red Spring										
BW472☺	74	77	82	85	—	—	—	—	—	80
BW479☺	76	80	90	84	—	—	—	—	—	70
BW483	79	90	96	104	—	—	—	—	—	90
BW485	78	101	91	96	—	—	—	—	—	91
BW487	68	83	86	78	—	—	—	—	—	80
BW961☺	71	82	72	77	—	—	—	—	—	80
PT245☺	67	68	80	73	—	—	—	—	—	70
PT468	65	75	78	84	—	—	—	—	—	78
PT637☺	76	83	78	84	—	—	—	—	—	79
Canada Western Hard White Spring										
HW363	70	83	78	82	—	—	—	—	—	76
SITE GRAND MEAN (bu/acre)	71	79	80	85	48	85	74	53	59	79
CV%	8.5	5.4	6.2	5.6	5.2	5.0	5.7	6.6	2.4	6.7
LSD (bu/acre)	10	7	8	8	4	7	7	6	2	9
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Canada Western Red Spring										
Glenn☺	78	75	82	80	43	82	90	46	59	87
Canada Prairie Spring Red										
AAC Penhold☺	86	78	85	80	51	95	108	51	72	94
AAC Ryley☺	74	78	92	91	51	110	88	51	68	90
AAC Tenacious VB☺	74	79	79	82	61	88	76	49	51	67
Enchant VB☺	87	80	91	98	55	106	87	53	67	81
SY985☺	—	—	87	88	—	96	—	64	—	84
SY995☺	70	77	93	92	53	108	85	54	67	90
Canada Western Soft White Spring										
AAC Chiffon☺	84	88	105	98	61	128	106	60	77	92
Canada Western General Purpose										
AAC Innova☺	78	77	94	105	53	115	94	58	61	76
AAC NRG097☺	65	86	89	92	56	109	101	53	65	97
AAC Proclaim☺	88	74	103	92	56	103	87	60	65	71
SY087☺	72	82	88	101	54	107	100	52	69	86
WFT 603☺	84	76	98	94	—	—	—	—	—	88
Varieties that have been supported for registration										
Canada Prairie Spring Red										
HY1603☺	86	78	93	101	47	96	93	54	65	96
HY1610☺	86	88	98	93	54	119	91	59	61	93
SITE GRAND MEAN (bu/acre)	80	80	92	92	53	104	93	55	66	86
CV%	5.6	6.2	4.2	7.0	3.7	6.6	9.2	7.3	3.8	5.0
LSD (bu/acre)	7	8	6	11	3	12	14	7	4	7
Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date	23-May	23-May	26-May	17-May	16-May	26-May	09-May	16-May	22-May	15-May
Harvest Date	11-Sep	07-Sep	24-Sep	19-Sep	02-Sep	16-Sep	20-Aug	08-Sep	28-Aug	03-Sep



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SPRING WHEAT (continued)

Protein Comparisons

Class/Variety	2014 Protein (%)									
	Arborg	Boisevain	Dauphin	Hamiota	Melita	Neepawa	Rosebank	St. Adolphe	Stonewall	Thornhill
Canada Western Red Spring										
5605HR CL☼	13.7	15.6	14.0	14.1	14.8	—	14.0	14.5	14.2	15.0
AAC Bailey☼	13.9	15.1	14.9	13.5	14.7	—	13.3	14.1	14.3	14.7
AAC Brandon☼	13.2	14.6	13.7	13.9	14.1	—	12.8	13.5	13.0	13.7
AAC Elie☼	13.6	15.2	13.9	13.1	14.5	—	12.5	13.9	12.9	14.0
AAC Prevail VB☼	12.6	14.6	13.9	12.6	14.2	—	12.5	14.5	14.1	14.9
AAC Redwater☼	13.3	14.8	14.9	13.6	14.8	—	12.7	14.7	13.8	14.9
AAC W1876☼	—	14.3	15.0	13.9	—	—	—	—	—	15.1
Carberry☼	13.4	14.7	13.9	14.1	14.6	—	13.3	14.9	14.2	14.7
Cardale☼	13.6	14.9	14.9	13.8	15.2	—	12.5	14.9	14.1	14.6
CDC Plentiful☼	13.2	14.9	15.4	13.0	14.9	—	13.5	14.0	14.2	14.3
CDC Titanium☼	13.9	15.3	14.8	14.2	14.7	—	13.0	14.8	14.8	15.7
CDC Utmost VB☼	13.6	14.7	14.1	13.0	14.5	—	13.1	14.3	14.2	14.7
CDC VR Morris☼	13.3	15.6	14.6	13.2	14.1	—	12.6	14.3	13.7	15.2
Coleman☼	13.1	14.3	13.8	13.8	13.6	—	13.1	14.5	13.6	15.0
Glenn☼	12.9	14.9	13.8	13.2	15.2	—	13.1	14.5	13.6	14.6
SY433☼	—	—	14.4	12.4	—	—	—	—	—	14.9
Thorsby☼	13.5	15.4	15.0	12.7	—	—	—	—	—	15.1
Canada Western Hard White Spring										
AAC Iceberg☼	13.3	16.4	14.3	12.9	13.8	—	11.4	13.3	13.5	14.0
AAC Whitefox☼	12.4	14.2	13.8	12.4	13.9	—	12.0	14.4	13.2	14.2
CDC Whitewood☼	13.9	15.1	14.0	12.8	14.2	—	12.2	13.5	13.2	13.7
Varieties that have been supported for registration										
Canada Western Red Spring										
BW472☼	13.5	14.7	14.9	13.2	—	—	—	—	—	14.6
BW479☼	13.6	15.7	15.1	13.9	—	—	—	—	—	16.1
BW483	13.8	14.6	13.9	12.7	—	—	—	—	—	15.0
BW485	12.6	14.6	13.6	12.3	—	—	—	—	—	14.9
BW487	13.2	15.0	13.6	13.6	—	—	—	—	—	14.6
BW961☼	13.6	14.5	—	14.1	—	—	—	—	—	14.8
PT245☼	13.6	15.3	15.6	14.4	—	—	—	—	—	15.3
PT468	13.5	14.5	15.6	14.0	—	—	—	—	—	15.5
PT637☼	13.3	14.8	13.9	13.9	—	—	—	—	—	14.6
Canada Western Hard White Spring										
HW363	13.5	14.3	13.9	13.6	—	—	—	—	—	14.4
SITE GRAND MEAN (%)	13.4	14.9	14.4	13.4	14.5	—	12.8	14.3	13.8	14.8
Canada Western Red Spring										
Glenn☼	12.8	14.3	13.5	13.8	14.6	—	12.9	14.8	13.4	14.5
Canada Prairie Spring Red										
AAC Penhold☼	12.3	13.8	13.7	14.0	14.1	—	11.2	13.9	12.7	13.0
AAC Ryley☼	12.7	12.7	13.0	12.8	13.6	—	10.9	12.6	11.8	13.2
AAC Tenacious VB☼	12.2	11.6	12.6	12.6	12.7	—	11.9	13.0	12.9	13.0
Enchant VB☼	12.1	13.0	12.3	12.2	13.1	—	11.4	13.2	12.6	13.3
SY985☼	—	—	13.4	12.4	—	—	—	10.1	—	13.5
SY995☼	12.0	12.2	12.4	12.9	13.0	—	12.0	13.0	11.6	13.2
Canada Western Soft White Spring										
AAC Chiffon☼	10.5	10.9	10.7	10.3	11.5	—	10.8	10.2	10.5	11.4
Canada Western General Purpose										
AAC Innova☼	10.1	11.8	11.4	11.0	12.0	—	9.6	11.0	11.6	12.2
AAC NRG097☼	11.4	12.0	12.0	11.7	12.5	—	11.2	11.4	11.2	11.7
AAC Proclaim☼	11.3	11.8	11.7	11.2	12.5	—	11.2	12.1	11.1	12.5
SY087☼	12.7	13.3	12.5	12.8	13.5	—	11.7	13.3	12.2	14.2
WFT 603☼	11.9	12.0	12.5	12.0	—	—	—	—	—	12.6
Varieties that have been supported for registration										
Canada Prairie Spring Red										
HY1610☼	12.0	12.3	13.3	12.5	13.1	—	11.3	12.7	11.7	12.9
HY1603☼	12.2	13.2	12.8	12.3	13.6	—	11.4	13.0	11.8	13.2
SITE GRAND MEAN (%)	11.9	12.5	12.5	12.3	13.1	—	11.3	12.5	11.9	13.0

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DURUM WHEAT

New for 2015

Variety	Code	Breeder	Distributor	Seed Availability
AAC Cabri	DT840	AAFC - Swift Current	SeCan	2018
AAC Durafield	DT832	AAFC - Swift Current	SeCan	2015
AAC Spitfire	DT844	AAFC - Swift Current	SeCan	2017
CDC Carbide VB	DT574	Crop Development Centre	Crop Production Services (CPS)	2016
CDC Fortitude	DT570	Crop Development Centre	Crop Production Services (CPS)	2015

Comments:

Seed of the new varieties **AAC Current**, **AAC Raymore** and **CDC Fortitude** will be commercially available for seeding in Spring 2015.

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

AAC Marchwell VB and **CDC Carbide VB** are varieties with orange wheat blossom midge tolerance based on the Sm1 gene and will be marketed as varietal blends.

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 101 days	Height +/- 35 inches	Spike Awned	Resistance Level:										Fusarium ² Head Blight
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Stripe Rust			
AAC Cabri☼	2	65	14.0	1	1	Y	G	—	MR	R	I	MR	R	R	MS		
AAC Current☼	5	52	14.1	1	1	Y	G	F	MS	MR	I	R	R	MR	MS		
AAC Durafield☼	3	71	14.0	0	0	Y	G	—	S	R	I	R	R	—	S		
AAC Marchwell VB☼5	65	13.9	0	0	0	Y	G	—	MR	R	MS	R	R	R	MS		
AAC Raymore☼	5	62	14.0	0	0	Y	G	F	MS	MR	I	R	R	MR	S		
AAC Spitfire☼	2	59	14.2	0	-1	Y	VG	—	MS	R	MS	R	R	R	S		
Brigade☼	23	71	13.5	2	2	Y	G	F	S	R	I	R	R	MR	MS		
CDC Carbide VB☼	2	60	14.0	0	0	Y	G	—	MS	R	MS	R	R	R	MS		
CDC Desire☼	3	55	14.0	-2	0	Y	G	G	MS	R	I	R	R	MR	S		
CDC Fortitude☼	5	61	14.0	1	0	Y	VG	—	MS	R	MS	MR	R	R	MS		
CDC Verona☼	21	64	14.1	2	0	Y	G	F	MS	R	MS	R	R	R	MS		
CDC Vivid☼	5	57	14.3	0	0	Y	VG	F	I	R	I	R	R	MR	S		
Enterprise☼	12	65	14.1	0	1	Y	F	G	MS	MR	I	R	R	R	MS		
Eurostar☼	23	65	13.9	2	2	Y	F	F	S	R	I	R	R	R	MS		
Strongfield☼	52	61	14.2	0	0	Y	G	F	S	MR	I	R	R	MR	S		
Transcend☼	11	66	14.0	2	3	Y	G	G	S	R	I	R	R	R	MS		
GRAND MEAN		62	14.2														
LSD (0.05)		6	0.7														

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 environment and heading date. Under high levels of the disease all varieties will sustain damage.

Yield Comparisons

Variety	2014 Yield (bu/acre)	
	Boissevain	Melita
AAC Cabri	57	51
AAC Current	44	36
AAC Marchwell VB	46	48
AAC Raymore	46	48
AAC Spitfire	54	34
Brigade	75	53
CDC Carbide	51	46
CDC Fortitude	54	39
CDC Vivid	47	37
Eurostar	56	51
Strongfield	47	42
Transcend	56	54
SITE GRAND MEAN (bu/acre)	54	45
CV %	8.1	9.4
LSD %	7	7
Sign Diff	Yes	Yes
Seeding Date	23-May	16-May
Harvest Date	06-Oct	03-Sep

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DURUM WHEAT (continued)**Protein Comparisons**

Variety	2014 Protein (%)	
	Boissevain	Melita
AAC Cabri☼	—	13.6
AAC Current☼	—	14.7
AAC Marchwell VB☼	—	13.4
AAC Raymore☼	—	14.1
AAC Spitfire☼	—	15.3
Brigade☼	—	13.4
CDC Carbide☼	—	13.7
CDC Fortitude☼	—	14.3
CDC Vivid☼	—	15.0
Eurostar☼	—	13.3
Strongfield☼	—	14.3
Transcend☼	—	13.5
SITE GRAND MEAN (%)	—	14.1

WINTER WHEAT**New for 2015**

Variety	Class	Code	Breeder	Distributor	Seed Availability
CDC Chase	CWRW	DH01-28-137	Department of Plant Sciences, U of S	CANTERRA SEEDS	2016

Varieties that have been supported for registration

CWGP	1303-132-1	Department of Plant Sciences, U of M
CWGP	1603-137-1	Department of Plant Sciences, U of M

Comments:

Seed of the new variety **AAC Gateway**☼ will be commercially available for seeding in Fall 2015.

As of August 1, 2014, the variety **CDC Falcon** belongs to the Canada Western General Purpose class.

Accipiter☼, **Broadview**☼, **CDC Falcon**, **CDC Harrier**, **CDC Raptor**, **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.

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Height +/- 26 inches	Relative ¹ Maturity	Resistance Level:					
						Lodging	Common Bunt	Stem rust	Leaf rust	Fusarium ²	Relative ³
										Head Blight	Winter Hardiness
Canada Western Red Winter											
AAC Gateway☼	10	79	11.9	1	M	VG	S	MR	I	I	F
CDC Buteo	96	78	11.2	4	M	G	S	I	I	MR	VG
CDC Chase	5	81	11.4	7	M	G	S	R	R	MS	F
Emerson☼	10	80	12.1	4	M	VG	S	R	I	R	G
Flourish☼	26	80	11.4	2	E	VG	MR	I	I	S	F
McClintock☼	80	76	11.5	7	L	VG	S	R	MR	S	F
Moats☼	28	81	11.5	6	E	G	MS	R	R	S	G
Canada Western General Purpose											
Accipiter☼	35	82	10.9	3	M	VG	S	R	MR	MS	G
Broadview☼	37	81	11.0	2	E	VG	S	R	R	S	G
CDC Falcon	100	77	11.3	0	E	VG	S	MR	MR	S	F
CDC Harrier	47	78	10.6	8	M	G	S	MR	MS	S	G
CDC Ptarmigan	42	81	9.7	8	M	F	S	S	S	I	G
CDC Raptor	73	76	11.1	3	M	VG	S	R	I	S	G
Peregrine☼	36	84	10.8	10	M	G	S	I	MR	I	VG
Sunrise	38	84	10.4	6	M	G	S	MR	MR	—	G
Swainson	20	86	10.8	8	M	F	S	R	R	—	F

Variety Descriptions

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Height +/- 26 inches	Relative ¹ Maturity	Resistance Level:					
						Lodging	Common Bunt	Stem rust	Leaf rust	Fusarium ² Head Blight	Relative ³ Winter Hardiness
Varieties that have been supported for registration											
Canada Western General Purpose											
1303-132-2	10	85	10.7	6	M	G	S	R	R	MS	F
1603-137-1	20	82	11.1	4	M	G	S	R	R	MS	G
GRAND MEAN		80	11.1								
LSD (0.05)		4	0.5								

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 Winter wheat varieties generally have poor genetic resistance to fusarium head blight. Earlier flowering of winter wheat relative to spring wheat may allow winter wheat to escape infection. The ratings provided are based on data from the Co-operative Registration Trials and/or performance in commercial fields.

3 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.

Yield Comparisons

Class/Variety	2014 Yield (bu/acre)				
	Arborg	Beausejour	Carberry	Isabella	Winnipeg
Canada Western Red Winter					
AAC Gateway☼	90	53	93	83	80
CDC Buteo	86	38	97	93	76
CDC Chase	81	48	94	83	91
Emerson☼	90	55	93	82	80
Flourish☼	76	47	85	88	66
Moats☼	74	39	93	92	77
Canada Western General Purpose					
Broadview☼	80	48	83	92	73
CDC Falcon	78	45	90	89	61
Sunrise	98	54	111	97	82
Swainson	85	48	111	95	80
Varieties that have been supported for registration					
Canada Western General Purpose					
1303-132-2	92	60	100	95	82
1603-137-1	92	55	106	98	77
SITE GRAND MEAN (bu/acre)	85	49	96	91	76
CV%	11.6	13.0	3.1	3.5	6.9
LSD (bu/acre)	—	11	5	5	9
Sign Diff	No	Yes	Yes	Yes	Yes
Seeding Date	13-Sep	12-Sep	17-Sep	20-Sep	26-Sep
Harvest Date	20-Aug	18-Aug	28-Aug	12-Sep	20-Aug

Protein Comparisons

Class/Variety	2014 Protein (%)				
	Arborg	Beausejour	Carberry	Isabella	Winnipeg
Canada Western Red Winter					
AAC Gateway☼	12.6	10.6	12.9	12.2	11.8
CDC Buteo	11.5	10.2	11.2	11.5	11.4
CDC Chase	11.7	10.6	11.8	11.5	11.2
Emerson☼	12.6	9.9	11.9	12.0	12.4
Flourish☼	11.9	10.5	12.1	11.8	11.0
Moats☼	11.7	11.2	11.8	11.4	11.1
Canada Western General Purpose					
Broadview☼	11.7	9.9	11.6	11.8	11.1
CDC Falcon	11.8	10.6	11.6	11.5	10.9
Sunrise	11.0	8.8	9.7	10.8	9.5
Swainson	11.0	9.9	9.9	10.6	9.9
Varieties that have been supported for registration					
Canada Western General Purpose					
1303-132-2	10.6	9.4	10.1	11.3	11.0
1603-137-1	11.1	9.8	11.3	11.1	10.8
SITE GRAND MEAN (%)	11.6	10.1	11.3	11.5	11.0

FALL RYE

Comments:

Fall Rye was last tested in 2009.
All fall rye varieties have good winter survival.

Variety Descriptions

Variety	Yield % Check	Site Years Tested	Height + / - Check	Resistance Level:		
				Lodging	Shattering	Ergot
AC Remington	93	26	-10	VG	VG	MS
AC Rifle	86	26	-11	VG	VG	MS
Hazlet	110	26	-4	G	G	MS
Prima	100	26	0	F	F	MS
CHECK CHARACTERISTICS						
Prima	97 bu/acre	26 site years	45 inches			

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Distributor Contacts for Varieties in Seed Manitoba 2015

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

AC Metcalfe (2)☎	SeCan
Bentley (2)☎	CANTERRA SEEDS
CDC Copeland (2)☎	SeCan
CDC Meredith (2)☎	SeCan
CDC Polarstar (2)☎	CANTERRA SEEDS
Celebration (6W)☎	CANTERRA SEEDS
LEGACY (6W)☎	Crop Production Services (CPS)/ FP Genetics
Newdale (2)☎	FP Genetics
Tradition (6W)☎	Crop Production Services (CPS)/ FP Genetics

Malting: Acceptance - Under Testing

AAC Synergy (2)☎	Syngenta Seeds Canada Inc.
CDC Kindersley (2)☎	SeCan
Cerveza (2)☎	Mastin Seeds
Merit 57 (2)☎	CANTERRA SEEDS

Malting: Other

CDC Anderson (6)☎	SeCan
CDC Battleford (6W)☎	SeCan
CDC Kamsack (6)☎	CANTERRA SEEDS
CDC Kendall (2)☎	Crop Production Services (CPS)
CDC Mayfair (6)☎	CANTERRA SEEDS
CDC PlatinumStar (2)☎	CANTERRA SEEDS
Lacey (6W)☎	Alliance Seed
Major (2)☎	CPS Canada
Norman (2)☎	FP Genetics
Robust (6W)☎	Crop Development Centre
Stellar-ND (6W)☎	CANTERRA SEEDS

Food and Feed

AC Ranger (6F)	FP Genetics
Amisk (6)☎	SeCan
Brahma (2)☎	Crop Production Services (CPS)
Breton (6F)☎	CANTERRA SEEDS
Canmore (2)☎	CANTERRA SEEDS
CDC Austenson (2)☎	SeCan
CDC Coalition☎	CANTERRA SEEDS
CDC Cowboy (F)☎	SeCan
CDC Helgason (2)☎	SeCan
CDC Maverick (2F)☎	SeCan
CDC Mindon (2)☎	SeCan
CDC Trey (2)☎	FP Genetics
CDC YORKTON (6W)	CANTERRA SEEDS
Champion (2)☎	Crop Production Services (CPS)
Chigwell (6)☎	SeCan
CONLON (2)☎	Seed Depot

BARLEY

Desperado (6F)☎	Alliance Seed
Gadsby (2)☎	SeCan
Muskwa (6)☎	SeedNet
Sundre (6)☎	Mastin Seeds
XENA (2)	Crop Production Services (CPS)

Hulless

CDC Carter (2)☎	SeCan
CDC Clear (2)☎	Crop Development Centre
Taylor (2)☎	Alliance Seed

OATS

AAC Justice☎	FP Genetics
AC Morgan	SeCan
Bia☎	La Coop Federee
Bradley☎	SeCan
CDC Big Brown☎	SeCan
CDC Dancer☎	FP Genetics
CDC Haymaker☎	SeCan
CDC Minstrel☎	FP Genetics
CDC Morrison☎	CANTERRA SEEDS
CDC ProFi	Crop Development Centre
CDC Ruffian☎	FP Genetics
CDC Seabiscuit☎	CANTERRA SEEDS
CDC Weaver☎	FP Genetics
CS Camden☎	CANTERRA SEEDS
Furlong☎	CANTERRA SEEDS
HiFi☎	Seed Depot
Jordan☎	SeCan
Leggett☎	FP Genetics
Nice	La Coop Federee
Pinnacle☎	FP Genetics
Ronald☎	SeCan
Souris☎	Seed Depot
Stainless☎	AAFC - Cereal Research Centre
Stride☎	SeCan
Summit☎	FP Genetics
Triactor☎	CANTERRA SEEDS

HULLESS OATS

AC Belmont	SeCan
AC Gwen	SeCan
GEHL☎	Wedge Farms
Navan	Eastern Cereal Research Centre

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- ✓ **Excellent Disease package**
- ✓ **Earliest – 3-4 days earlier than Summit or Furlong**
- ✓ **Heaviest oat on the market with smaller seed**

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SPRING WHEAT**Canada Western Red Spring**

5602HR	Crop Production Services (CPS)
5603HR	Crop Production Services (CPS)
5604HR CL	Crop Production Services (CPS)
5605HR CL	Crop Production Services (CPS)
AAC Bailey	CANTERRA SEEDS
AAC Brandon	SeCan
AAC Elie	Alliance Seed
AAC Prevail	Alliance Seed
AAC Redwater	SeCan
AAC W1876	CANTERRA SEEDS
AC Barrie	SeCan
AC Cadillac	FP Genetics
AC Domain	SeCan
Alvena	SeCan
Carberry	SeCan
Cardale	Seed Depot
CDC Abound	Crop Production Services (CPS)
CDC Go	Crop Development Centre
CDC Kernan	CANTERRA SEEDS
CDC Plentiful	FP Genetics
CDC Stanley	Crop Production Services (CPS)
CDC Thrive	Cargill Ltd.
CDC Titanium	Crop Production Services (CPS)
CDC Utmost VB	FP Genetics
CDC VR Morris	Crop Production Services (CPS)
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
Somerset	SeCan
Stettler	SeCan
Superb	SeCan
SY433	Cargill Ltd.
Thorsby	CANTERRA SEEDS
Unity VB	SeCan
Vesper VB	SeCan
Waskada	SeCan
WR859 CL	Richardson Pioneer

Canada Prairie Spring Red

5700PR	Crop Production Services (CPS)
5702PR	Crop Production Services (CPS)
AAC Penhold	SeCan
AAC Ryley	SeCan
AAC Tenacious	Alliance Seed
Conquer VB	CANTERRA SEEDS
Enchant VB	FP Genetics
SY985	Crop Production Services (CPS)

SY995

Canada Western Extra Strong

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

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
AC Andrew	SeCan
Sadash	SeCan

Canada Western General Purpose

AAC Innova	Alliance Seed
AAC NRG097	CANTERRA SEEDS
AAC Proclaim	FP Genetics
CDC NRG003	CANTERRA SEEDS
Minnedosa	SeCan
NRG010	CANTERRA SEEDS

SPRING WHEAT

Pasteur	SeCan
SY087	—
WFT603	Western Feed Grains Development Co-op Ltd.

Canada Western Amber Durum

AAC Cabri	SeCan
AAC Current	Alliance Seed
AAC Durafield	SeCan
AAC Marchwell	SeCan
AAC Raymore	SeCan
AAC Spitfire	SeCan
Brigade	Crop Production Services (CPS)
CDC Carbide	Crop Production Services (CPS)
CDC Desire	Syngenta Canada Inc.
CDC Fortitude	Crop Production Services (CPS)
CDC Verona	Alliance Seed
CDC Vivid	Crop Production Services (CPS)
Enterprise	CANTERRA SEEDS
Eurostar	SeCan
Strongfield	SeCan
Transcend	FP Genetics

WINTER WHEAT**Canada Western Red Winter**

AAC Gateway	Seed Depot
CDC Buteo	SeCan
CDC Chase	CANTERRA SEEDS
Emerson	CANTERRA SEEDS
Flourish	SeCan
McClintock	CANTERRA SEEDS
Moats	SeCan

Canada Western General Purpose

Accipiter	SeCan
Broadview	CANTERRA SEEDS
CDC Falcon	SeCan
CDC Harrier	SeCan
CDC Ptarmigan	Western Ag
CDC Raptor	SeCan
Peregrine	SeCan
Sunrise	Western Ag
Swainson	Department of Plant Sciences, U of S

FALL RYE

AC Remington	CANTERRA SEEDS
AC Rifle	SeCan
Hazlet	SeCan
Prima	SeCan

DISTRIBUTOR**PHONE NUMBER**

AAFC - Cereal Research Centre	1-204-578-6601
Alliance Seed	1-877-270-2890
CANTERRA SEEDS	1-877-439-7333
Cargill Ltd.	1-888-855-8558
Crop Development Centre.....	1-306-966-8195
Crop Production Services (CPS)	1-306-569-5052
Department of Plant Sciences, U of S.....	1-306-931-9299
Faurschou Farms Ltd. III	1-204-857-7109
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	1-403-725-2126
Syngenta Canada Inc.....	1-877-964-3682
Western Ag.....	1-306-978-0373
Western Feed Grains Development Co-op Ltd.	1-877-250-1552

Growers List



BARLEY

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

BENTLEY☼

Miniota; Walker, Alan Glen 204-567-3647 C
Rivers; Redesper Ent. Ltd. 204-328-5346 C

BRAHMA☼

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

CANMORE☼

Warren; Riddell, Clifford Royden & Craig Thomas 204 227-5679 S

CDC AUSTENSON☼

Darlingford; Dudgeon, Gilbert Arthur 204-246-2357 R
Decker; Murray, Donald H. & Ryan 204-764-2733 C
Hamiota; Knight, Ronald M. & Jeff 204-764-2450 F
Miniota; Walker, Alan Glen 204-567-3647 R C
Newdale; Wareham, Bruce E. 204 849-2112 C
Oakville; Miller, Darcy Charles 204-267-2283 R
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 C
Plumas; Tonn, Todd 204-386-2206 S C
Stonewall; Unger, Ronald K. & Darcy 204-467-8630 S F
Warren; Jones, Gavin R. 204-322-5604 C
Winkler; Ens, Abram E. & Chris & Friesen, Jake 204-325-4658 R

CDC COPELAND☼

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

CDC COWBOY☼

Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon 204 842-3757 R C

CDC KINDERSLEY☼

Warren; Jones, Gavin R. 204-322-5604 F

CDC MAVERICK☼

Crystal City; Buchanan, Kenneth S. & Dean K. 204-873-2661 F C
Decker; Murray, Donald H. & Ryan 204-764-2733 S C
Ste. Rose Du Lac; Gagnon, Arthur Donald 204-447-2118 F

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CDC MEREDITH☼

Miami; Elias, Isaac 204-745-3301 C
Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 C
Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon 204 842-3757 C

CDC POLARSTAR☼

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

CELEBRATION☼

Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 C
Decker; Murray, Donald H. & Ryan 204-764-2733 C
Mac Gregor; Hulme, Lorne 204-685-2627 C
Ste. Rose Du Lac; Gagnon, Arthur Donald 204-447-2118 C

CONLON☼

Crystal City; Fallis, J. Allan & Mark A. 204-873-2305 C
Grosse Isle; Rutherford, Rick 204-467-5613 C
Oakville; Miller, Darcy Charles 204-267-2283 C
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 C
Portage La Prairie; Pugh, William G. & B.M. 204-274-2179 C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-355-4495 C

DESPERADO☼

Plumas; Tonn, Todd 204-386-2206 F R

LACEY☼

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

NEWDALÉ☼

Binscarth; Pizzey, J. David 403-609-3588 C
Binscarth; Pizzey, Tim V. 204-683-2316 C
Crystal City; Smith, R. Wally 204 873-2352 C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom 204-736-2849 C
Hamiota; Knight, Ronald M. & Jeff 204-764-2450 C
Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 C
Russell; Woroneski, Frank M. 204-773-3262 C
Somerset; Sierens, Joseph & Chris 204-744-2883 F
Souris; Kohut, David Anton 204-483-3063 S F
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-355-4495 C

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SUNDRE ☼

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

TRADITION ☼

Gladstone; Milne, Wilmot George 204-385-2486 C
Rosser; Krym, Lynden 204-467-5143 R
Winnipeg; James, David G. 204-222-8785 C

OATS**AAC JUSTICE** ☼

Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
Domain; Pitura, Carl & Calvin C. & Connor J. &
Greaves, Tom 204-736-2849 F
Swan River; Alford, Wayne G. 204-734-2526 F

CDC BALER

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

CDC BIG BROWN ☼

Dufrost; Catellier, Roger & Richard 204 347-5588 R
Oakville; Miller, Darcy Charles 204-267-2283 C

CDC DANCER ☼

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

CDC HAYMAKER ☼

Gilbert Plains; Tokar, Bob & Stoughton, Murray 204-548-2805 R
Warren; Riddell, Clifford Royden & Craig Thomas 204 227-5679 R



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CDC MORRISON ☼

Morris; Hamblin, Donald & Bradley 204 209-0506 C
Warren; Riddell, Clifford Royden & Craig Thomas 204 227-5679 S F
Winnipeg; Canterra Seeds Ltd. 204-988-9750 C
Winnipeg; Canterra Seeds Ltd. 204-988-9750 C

CS CAMDEN ☼

Dufrost; Catellier, Patrick Raymond 204-347-5503 F
Dufrost; Catellier, Roger & Richard 204 347-5588 R
Homewood; Froebe, Earl W., Bruce D. & Murray 204-745-2868 F R
Manitou; Sanders, Andre O. & Daniel 204-242-2576 S
Morris; Dueck, Arthur 204-746-2026 S F R C
Morris; Hamblin, Donald & Bradley 204 209-0506 R
Stonewall; Unger, Ronald K. & Darcy 204-467-8630 F
Winnipeg; Canterra Seeds Ltd. 204-988-9750 S

FURLONG ☼

Mac Gregor; Hulme, Lorne 204-685-2627 C
St. Claude; Rouire, Roland & Guy 204-379-2582 C

PINNACLE ☼

Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 R
Mac Gregor; Hulme, Lorne 204-685-2627 C
Rosser; Krym, Justin 204-467-5143 C
Rosser; Krym, Lynden 204-467-5143 F

SOURIS ☼

Arborg; Timchishen, Donald Victor & Darcy 204 376-5116 C
Brandon; Martens, David 204-728-5510 C
Carman; Park, Robert J. 204 745-3304 C
Domain; Pitura, Carl & Calvin C. & Connor J. &
Greaves, Tom 204-736-2849 C
Elm Creek; Runne, James Armin 204 436-3321 C
Glenboro; Jefferies, Ron 204-827-2102 C
Homewood; Froebe, Earl W., Bruce D. & Murray 204-745-2868 C
Mac Gregor; Hulme, Lorne 204-685-2627 C
Notre Dame De Lourdes; Durand, Gabriel A. & Marc 204-248-2268 C
Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 C
Pilot Mound; Seed Depot Corporation 204-825-2000 C
Pilot Mound; Smith, John M. & Walter George 204-825-2715 C
Portage La Prairie; Pugh, William G. & B.M. 204-274-2179 C
Sanford; Bergen, Edward Harry & Tim 204-736-2278 C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-355-4495 C
St. Claude; Rouire, Roland & Guy 204-379-2582 C
Ste. Rose Du Lac; Gagnon, Arthur Donald 204-447-2118 C
Viriden; Heaman, Douglas J., Walter, Robert, Kenneth,
Brett & Brittany 204-748-2666 C
Wawanesa; Ellis, Warren P. & Simon 204-824-2290 C
Winkler; Ens, Abram E. & Chris & Friesen, Jake 204-325-4658 C

STRIDE ☼

Minto; Fraser, Rick G. 204-776-2047 C
Portage La Prairie; Sanderson, Garry 204-857-8406 R
Stonewall; Unger, Ronald K. & Darcy 204-467-8630 C
Swan River; Oberlin, Walter John & George 204 734-2292 C
Warren; Riddell, Clifford Royden & Craig Thomas 204 227-5679 S F

SUMMIT ☼

Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
Dauphin; Kaleta, James & Debra 204 638-7800 C
Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S C
Domain; Pitura, Carl & Calvin C. & Connor J. &
Greaves, Tom 204-736-2849 S R
Fannystelle; Nadeau, Brian 204-436-2469 C
Gladstone; Milne, Wilmot George 204-385-2486 C
Grosse Isle; Rutherford, Rick 204-467-5613 R
Hamiota; Knight, Ronald M. & Jeff 204-764-2450 C
Killarney; Chatham, Don & Linda 204-523-8412 C
Mac Gregor; Hulme, Lorne 204-685-2627 C
Minto; Ayre, Andrew 204-776-2333 C
Morris; Hamblin, David & Lorraine 204-746-4779 C
Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 S C
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 R C
Rosenort; Friesen, Lloyd 204-746-8198 F C

OATS

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Somerset; Sierens, Joseph & Chris	204-744-2883	R
Souris; Kohut, Anton	204-483-2004	R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
Winnipeg; James, David G.	204-222-8785	C

TRIACITOR ☼

Miniota; Walker, Alan Glen	204-567-3647	C
Morris; Dueck, Arthur	204-746-2026	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	C

SPRING WHEAT

5604HR CL ☼

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	R
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	R C
Regina; Proven Seed/ Crop Production Services (Canada) Inc. (Mb Acct)	306-569-5027	C

5605HR CL ☼

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	R
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	R

AAC BRANDON ☼

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	R C
Arborg; Timchishen, Donald Victor & Darcy	204 376-5116	C
Baldur; Desrochers, David Oscar	204-535-2090	C
Binscarth; Cook, Gerry	204-532-2268	C
Binscarth; Pizzey, J. David	403-609-3588	R C
Binscarth; Pizzey, Tim V.	204-683-2316	S R C

SPRING WHEAT

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Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952	C
Brandon; Martens, David	204-728-5510	R
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Brandon; Whetter, Rodney & Darren	204-727-0045	S R C
Carman; Menold, Thomas	204-745-3377	C
Carman; Menold, Ulrich & Lucas	204-745-2822	S F C
Carman; Park, Robert J.	204 745-3304	R C
Crandall; Doupe, Neil D.	204-562-3632	C
Cromer; Bartel, Bob	204-662-4484	C
Crystal City; Fallis, J. Allan & Mark A.	204-873-2305	S
Darlingford; Wilson, James M.	204-246-2388	C
Dauphin; Kaleta, James & Debra	204 638-7800	R C
Decker; Murray, Donald H. & Ryan	204-764-2733	S
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S F
Dufrost; Catellier, Roger & Richard	204 347-5588	C
Elie; Lachance, J.B. Adrien & Paul M. & Lionel	204-353-2694	R C
Elphinstone; Gerrard, Jody	204-759-2213	R C
Foxwarren; Falloon, Larry	204-683-2247	R C
Foxwarren; Graham, George Arthur	204-683-2367	S F R C
Grosse Isle; Rutherford, Rick	204-467-5613	F C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	R C
Holland; Patenaude, Donald & Robert	204-526-2391	C
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	R C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	C
Mac Gregor; Hulme, Lorne	204-685-2627	R
Manitou; Sanders, Andre O. & Daniel	204-242-2576	F C
Miami; Elias, Isaac	204-745-3301	C
Miniota; Walker, Alan Glen	204-567-3647	C
Minto; Fraser, A. Jay C.	204-776-7722	C
Minto; Fraser, Rick G.	204-776-2047	R
Morris; Dueck, Arthur	204-746-2026	R



Cardale Performance on our Farm

- Cardale was our Highest yielding wheat last two years
- Cardale 79.5 Bus/A on 494 Acres in 2014
- Outyielded our Brandon and CDC Go

"We left our Cardale to harvest last... still Cardale did not sprout or shatter and kept its colour!"

*Lucas and Ulrich Menold
Carman*



"Straight Cut"

Cardale

*"More Wheat...
Less Shatter"*

- ✓ Consistent Yields & Protein
- ✓ Less Sprouting - Weathering
- ✓ Best Fusarium Performance
- ✓ Semi dwarf
- ✓ 15-20 % Faster Harvest Speeds

Manitoba Farmers, this fall we all experienced a very challenging harvest. Cardale came through with less sprouting & weathering and delivered exceptional yields. **My trust in Cardale grew this year.** All the best as you make your plans for 2015.

*John M. Smith
(204) 825-2000*

**"Working Hard
To Earn Your Trust"**

SPRING WHEAT

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Morris; Hamblin, David & Lorraine	204-746-4779	S F
Morris; Hamblin, Donald & Bradley	204 209-0506	C
Newdale; Wareham, Bruce E.....	204 849-2112	R
Notre Dame De Lourdes; Durand, Gabriel A. & Marc.....	204-248-2268	S F
Notre Dame De Lourdes; Durand, Leo	204-248-2372	R
Oak Bluff; Gousseau, Marcel E.....	204-895-1357	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Pilot Mound; Cavers, Landon	204-825-2012	C
Pilot Mound; Wallace, Brad & Joe	204-825-2628	R C
Plum Coulee; Janzen, Ken & Ernie A.....	204-829-7749	S F
Plumas; Tonn, Todd	204-386-2206	R
Portage La Prairie; Askin, Raymond T. & Jeffrey S.....	204-274-2417	S F C
Portage La Prairie; Sanderson, Garry.....	204-857-8406	S F C
Portage La Prairie; Sissons, Grant G., Donald Angus & Blye	204-857-7341	S F C
Rosenort; Friesen, Lloyd	204-746-8198	C
Rosenort; Friesen, Rick	204-746-8325	S F C
Russell; Keating, Mark.....	204-773-3854	R
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	S F C
Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon	204 842-3757	R
Somerset; Sierens, Joseph & Chris	204-744-2883	S F C
Somerset; Van Deynze, Marc.....	204-744-2384	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	S F C
Ste. Rose Du Lac; Gagnon, Arthur Donald	204-447-2118	R C
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	S F C
Treherne; Stinson, Gary Donald	204-723-2319	C
Warren; Jones, Gavin R.....	204-322-5604	C
Warren; Riddell, Clifford Royden & Craig Thomas	204 227-5679	S F R
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	S F C
Winnipeg; James, David G.	204-222-8785	C

SPRING WHEAT

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

AAC ELIE☼

Baldur; Desrochers, David Oscar.....	204-535-2090	R
Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	R C
Elphinstone; Gerrard, Jody.....	204-759-2213	R
Grosse Isle; Rutherford, Rick	204-467-5613	C
Mather; Mc Lennan, Donald D.....	204-529-2372	C
Virde; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany	204-748-2666	R

AAC ICEBERG☼

Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696	C
Mather; Mc Lennan, Donald D.....	204-529-2372	C
Winnipeg; Alliance Seed Corporation.....	204-272-2890	R

AAC NRG097☼

Miniota; Walker, Lawrence William	204-567-3647	S
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AAC PENHOLD☼

Baldur; Desrochers, David Oscar.....	204-535-2090	F R
Brandon; Wheat City Seeds Ltd.	204-727-3337	F
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	S R
Dufrost; Catellier, Patrick Raymond.....	204-347-5503	R
Morris; Dueck , Arthur	204-746-2026	S
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	S
Rosenort; Friesen, Lloyd	204-746-8198	R
Warren; Riddell, Clifford Royden & Craig Thomas	204 227-5679	S F
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	S R



Midge tolerant wheat protects your crop against devastating pest damage, but it's up to you to protect the technology. The Stewardship Agreement limits the use of farm-saved seed to one generation past Certified seed. It's a simple step that keeps the interspersed refuge system at the proper level, preventing build-up of resistant midge. Without the refuge, we risk losing the one and only tolerant gene. There is no plan B.

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AAC PROCLAIM☼

Plumas; Court, Randolph A. & Tracy L. 204-386-2354 S F

AAC W1876☼

Dauphin; Kaleta, James & Debra 204 638-7800 S C
Morris; Dueck, Arthur 204-746-2026 S

AC DOMAIN

Dauphin; Ritchie, John Ross & Raymond 204-638-7543 C
Gilbert Plains; Tokar, Bob & Stoughton, Murray 204-548-2805 C
Kenville; Carmichael, John A. 204-734-3913 C
Plum Coulee; Janzen, Ken & Ernie A. 204-829-7749 R
Russell; Woroneski, Frank M. 204-773-3262 R
Swan River; Oberlin, Walter John & George 204 734-2292 C

AC SPLENDOR

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

CARBERRY☼

Altona; Sawatsky, Joni 204-324-6140 C
Binscarth; Cook, Gerry 204-532-2268 C
Binscarth; Pizzey, J. David 403-609-3588 C
Binscarth; Pizzey, Tim V. 204-683-2316 F R C
Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
Boissevain; Latimer, Kevin B. & Duane E. 204-534-6631 C
Boissevain; Martens, Ben F. & John J. & Ryan 204-534-6952 R C
Brandon; Martens, David 204-728-5510 C
Brandon; Wheat City Seeds Ltd. 204-727-3337 R
Carman; Mc Cutcheon, Shawn Milton 204-745-3245 C
Clearwater; Bere, Craig R. 204-529-2558 C
Crandall; Doupe, Neil D. 204-562-3632 C
Cromer; Bartel, Patrick 204-662-4466 C
Crystal City; Buchanan, Kenneth S. & Dean K. 204-873-2661 R
Crystal City; Fallis, J. Allan & Mark A. 204-873-2305 C
Darlingford; Dudgeon, Gilbert Arthur 204-246-2357 C
Dauphin; Kaleta, James & Debra 204 638-7800 C
Dauphin; Ritchie, John Ross & Raymond 204-638-7543 C
Decker; Murray, Donald H. & Ryan 204-764-2733 R C
Deloraine; Bolduc, Ronald And Bell, A.J. & J.C. 204-747-2913 C
Dufrost; Catellier, Patrick Raymond 204-347-5503 C
East Selkirk; Kuzminski, John William 204-482-3813 R
Elie; Lachance, J.B. Adrien & Paul M. & Lionel 204-353-2694 C
Fannystelle; Nadeau, Brian 204-436-2469 C
Grandview; Storey, R. Kip & Troy K. 204-546-2590 R
Grosse Isle; Rutherford, Rick 204-467-5613 R
Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 F C
Holland; Vigar, Murray & Gary 204-526-2108 C
Holland; Zeghers, Donald Edmond 204-526-7829 C
Kenton; Stevenson, Richard D.O. & Douglas 204-838-2696 R C
Kenton; Stevenson, Robert H. & Sidney H. 204-838-2012 C
Killarney; Brinkschulte, Hermann 204-523-7464 C
Killarney; Chatham, Don & Linda 204-523-8412 C

SPRING WHEAT

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

La Salle; Wiens, Edward & Ernie 204-736-2646 R
Mac Gregor; Hulme, Lorne 204-685-2627 C
Miniota; Walker, Alan Glen 204-567-3647 R C
Minto; Ayre, Andrew 204-776-2333 C
Minto; Fraser, Rick G. 204-776-2047 C
Morris; Hamblin, David & Lorraine 204-746-4779 R
Newdale; Wareham, Bruce E. 204 849-2112 C
Notre Dame De Lourdes; Durand, Leo 204-248-2372 R
Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 C
Oakville; Miller, Darcy Charles 204-267-2283 R C
Pilot Mound; Cavers, Landon 204-825-2012 R
Pilot Mound; Wallace, Brad & Joe 204-825-2628 F C
Plum Coulee; Giesbrecht, H. Edward & Raymond J. 204-829-3365 C
Plum Coulee; Janzen, Ken & Ernie A. 204-829-7749 C
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 C
Plumas; Tonn, Todd 204-386-2206 S F R
Portage La Prairie; Askin, Raymond T. 204-274-2417 R
Portage La Prairie; Moorhouse, James.R., Scott & Brown, Alan 204-857-8274 C
Portage La Prairie; Sanderson, Garry 204-857-8406 C
Portage La Prairie; Sissons, Grant G., Donald Angus & Blye. 204-857-7341 S F R
Rivers; Krahn, Abe M., Ronald J. & Robert A. 204-328-7189 S F R
Rivers; Redspers Ent. Ltd. 204-328-5346 C
Rossburn; Mitchell, John 204-859-2431 C
Rosser; Krym, Lynden 204-467-5143 R C
Rosser; Mulligan, Kenneth 204-322-5373 R
Somerset; Van Deynze, Marc 204-744-2384 C
St. Joseph; Parent, Renald & Paul 204-737-2625 C
St. Leon; Labossiere, Luc N. & Rejean F. 204-744-2208 R
Ste. Rose Du Lac; Gagnon, Arthur Donald 204-447-2118 C
Stonewall; Unger, Ronald K. & Darcy 204-467-8630 R
Swan River; Oberlin, Walter John & George 204 734-2292 C
Virden; Hutchison, Barry 204-851-6157 C
Winnipeg; James, David G. 204-222-8785 C

CARDALE☼

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 R
Arborg; Timchishen, Donald Victor & Darcy 204 376-5116 C
Binscarth; Pizzey, Tim V. 204-683-2316 C
Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 C
Brandon; Wheat City Seeds Ltd. 204-727-3337 R
Carman; Menold, Ulrich & Lucas 204-745-2822 S F C
Crystal City; Fallis, J. Allan & Mark A. 204-873-2305 C
Crystal City; Smith, R. Wally 204 873-2352 C
Dauphin; Fisher, Roderick Allan & Douglas James 204-622-8800 C
Dauphin; Kaleta, James & Debra 204 638-7800 C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom 204-736-2849 C
Domain; Wiens, Robert Frank 204-736-2951 R
Dufrost; Catellier, Patrick Raymond 204-347-5503 R
Elphinstone; Gerrard, Jody 204-759-2213 C
Gilbert Plains; Tokar, Bob & Stoughton, Murray 204-548-2805 C
Glenboro; Jefferies, Ron 204-827-2102 C

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SPRING WHEAT

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

Grandview; Storey, R. Kip & Troy K.	204-546-2590	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Holland; Kubinec, Anastasia	204-526-2776	C
Holland; Zeghers, Donald Edmond	204-526-7829	C
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	R C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	R
Killarney; Brinkschulte, Hermann	204-523-7464	C
Lowe Farm; Sawatsky, Matt	204-746-2187	C
Mac Gregor; Hulme, Lorne	204-685-2627	C
Miniota; Walker, Alan Glen	204-567-3647	C
Minto; Ayre, Andrew	204-776-2333	C
Morris; Hamblin, David & Lorraine	204-746-4779	C
Notre Dame De Lourdes; Durand, Gabriel A. & Marc	204-248-2268	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Oakville; Miller, Darcy Charles	204-267-2283	C
Pilot Mound; Seed Depot Corporation	204-825-2000	C
Pilot Mound; Seed Depot Corporation	204-825-2000	F R
Pilot Mound; Smith, John M. & Walter George	204-825-2715	F R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	R C
Portage La Prairie; Pugh, William G. & B.M.	204-274-2179	R
Rivers; Redspers Ent. Ltd.	204-328-5346	C
Rosenort; Friesen, Lloyd	204-746-8198	F R
Sanford; Bergen, Edward Harry & Tim	204-736-2278	R
Solsgrith; Nickel, James D. & John H. & Kevin J. & J.Gordon	204-842-3757	C
Somerset; Sierens, Joseph & Chris	204-744-2883	F R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	R C
St. Claude; Rouire, Roland & Guy	204-379-2582	C
St. Joseph; Parent, Renald & Paul	204-737-2625	C
Ste. Rose Du Lac; Gagnon, Arthur Donald	204-447-2118	C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	R
Viriden; Heaman, Douglas J., Walter, Robert, Kenneth, Brett & Brittany	204-748-2666	R C

SPRING WHEAT

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

Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	C
Wawanesa; Ellis, Warren P. & Simon	204-824-2290	R C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	C

CDC GO

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Brandon; Martens, David	204-728-5510	F R
Carman; Menold, Ulrich & Lucas	204-745-2822	S F C
Killarney; Brinkschulte, Hermann	204-523-7464	R
Minto; Fraser, Rick G.	204-776-2047	C

CDC PLENTIFUL ☼

Baldur; Desrochers, David Oscar	204-535-2090	F R
Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C
Dauphin; Kaleta, James & Debra	204-638-7800	F R
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S F R
Grandview; Storey, R. Kip & Troy K.	204-546-2590	R
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	R
Killarney; Brinkschulte, Hermann	204-523-7464	R
Minto; Ayre, Andrew	204-776-2333	R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	R
Rosenort; Friesen, Lloyd	204-746-8198	R
Russell; Keating, Mark	204-773-3854	R C
Russell; Woroneski, Frank M.	204-773-3262	F
Somerset; Sierens, Joseph & Chris	204-744-2883	S F
Swan River; Alford, Wayne G.	204-734-2526	F R

GLENN ☼

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Crandall; Doupe, Neil D.	204-562-3632	C
Decker; Murray, Donald H. & Ryan	204-764-2733	C
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom	204-736-2849	C
Glenboro; Jefferies, Ron	204-827-2102	C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	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
Portage La Prairie; Sissons, Grant G., Donald Angus & Blye	204-857-7341	C
Rivers; Redspers Ent. Ltd.	204-328-5346	C
St. Claude; Rouire, Roland & Guy	204-379-2582	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	C

HARVEST ☼

Baldur; Desrochers, David Oscar	204-535-2090	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Grandview; Storey, R. Kip & Troy K.	204-546-2590	R C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Killarney; Chatham, Don & Linda	204-523-8412	C
Minto; Ayre, Andrew	204-776-2333	C
Newdale; Wareham, Bruce E.	204-849-2112	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Russell; Woroneski, Frank M.	204-773-3262	C
Somerset; Sierens, Joseph & Chris	204-744-2883	R C
Souris; Kohut, David Anton	204-483-3063	R
Swan River; Alford, Wayne G.	204-734-2526	C

KANE ☼

Portage La Prairie; Moorhouse, James.R., Scott & Brown, Alan	204-857-8274	C
Portage La Prairie; Sanderson, Garry	204-857-8406	C

MUCHMORE ☼

Hamiota; Knight, Ronald M. & Jeff	204-764-2450	S F R
Killarney; Brinkschulte, Hermann	204-523-7464	C
Killarney; Chatham, Don & Linda	204-523-8412	C
Newdale; Wareham, Bruce E.	204-849-2112	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Souris; Kohut, David Anton	204-483-3063	R

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PASTEUR

Binscarth; Pizzey, J. David.....	403-609-3588	C
Binscarth; Pizzey, Tim V.....	204-683-2316	C
Carman; Menold, Thomas.....	204-745-3377	C
Carman; Park, Robert J.....	204-745-3304	C
Crandall; Doupe, Neil D.....	204-562-3632	C
Domain; Manness, Ronald & Patricia & Graeme.....	204-736-2622	S F C
Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom.....	204-736-2849	C
Glenboro; Jefferies, Ron.....	204-827-2102	C
Hazelridge; Saramaga, Robert P. & Andrew.....	204-755-2817	C
Holland; Patenaude, Donald & Robert.....	204-526-2391	C
Mac Gregor; Hulme, Lorne.....	204-685-2627	C
Morris; Dueck, Arthur.....	204-746-2026	C
Morris; Hamblin, Donald & Bradley.....	204-209-0506	C
Oakville; Miller, Darcy Charles.....	204-267-2283	C
Pilot Mound; Wallace, Brad & Joe.....	204-825-2628	C
Plum Coulee; Janzen, Ken & Ernie A.....	204-829-7749	C
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....	204-355-4495	C
St. Claude; Rouire, Roland & Guy.....	204-379-2582	C
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	C
Viriden; Hutchison, Barry.....	204-851-6157	C
Warren; Riddell, Clifford Royden & Craig Thomas.....	204-227-5679	C

SNOWSTAR☼

Killarney; Chatham, Don & Linda.....	204-523-8412	C
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WFT603☼

Minnedosa; Galbraith, Neil.....	204-874-2206	R
Minto; Rourke, David.....	204-776-5557	S F R

WINTER WHEAT

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

AAC GATEWAY☼

Brandon; Whetter, Rodney & Darren.....	204-727-0045	S
Dufrost; Catellier, Patrick Raymond.....	204-347-5503	F
Glenboro; Jefferies, Ron.....	204-827-2102	S F
Mac Gregor; Hulme, Lorne.....	204-685-2627	S R
Minto; Ayre, Andrew.....	204-776-2333	R
Notre Dame De Lourdes; Durand, Gabriel A. & Marc.....	204-248-2268	S F
Pilot Mound; Seed Depot Corporation.....	204-825-2000	S F
Pilot Mound; Smith, John M. & Walter George.....	204-825-2715	S
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	S F
Reston; Greig, Fred L. & Fotheringham, John A. (Jack).....	204-877-3813	S R
Rosenort; Friesen, Lloyd.....	204-746-8198	F
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	S F
Warren; Riddell, Clifford Royden & Craig Thomas.....	204-227-5679	S F

ACCIPITER☼

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

BROADVIEW☼

Mac Gregor; Hulme, Lorne.....	204-685-2627	R
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CDC BUTEO

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

CDC FALCON

Mac Gregor; Sims, Curtis Edwin.....	204-685-2237	C
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EMERSON☼

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Brandon; Wheat City Seeds Ltd.	204-727-3337	R
Dauphin; Kaleta, James & Debra	204 638-7800	FR
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S FR
Domain; Pitura, Calvin C. & Barbara	204-736-2849	R
Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom	204-736-2849	S FR
Dufrost; Catellier, Roger & Richard	204 347-5588	R
Fannystelle; Nadeau, Brian	204-436-2469	R
Grosse Isle; Rutherford, Rick	204-467-5613	R
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	S R
Holland; Zeghers, Shawn M.	204-526-2366	R
Killarney; Brinkschulte, Hermann	204-523-7464	R
Lowe Farm; Sawatsky, Matt	204-746-2187	R
Mac Gregor; Hulme, Lorne	204-685-2627	R C
Miniota; Walker, Alan Glen	204-567-3647	R
Morris; Dueck, Arthur	204-746-2026	R
Morris; Hamblin, David & Lorraine	204-746-4779	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	R
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	R
Portage La Prairie; Munro, Clarke Allan & Jared Cory &		
Trevor Clarke	204-857-8272	FR
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	R
Rosenort; Friesen, Lloyd	204-746-8198	R
Somerset; Sierens, Joseph & Chris	204-744-2883	R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	R
St. Joseph; Parent, Renald & Paul	204-737-2625	R
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	R
Thornhill; Rothenburger, Kelvin W.	204-822-1444	FR

WINTER WHEAT

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Viriden; Heaman, Douglas J., Walter, Robert, Kenneth,		
Brett & Brittany	204-748-2666	R
Warren; Riddell, Clifford Royden & Craig Thomas	204 227-5679	S FR
Winnipeg; Cloutier, Denis C.	204 261-4532	R

FLOURISH☼

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	R
Arborg; Timchishen, Donald Victor & Darcy	204 376-5116	R
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Brandon; Redfern, Raymond	204-328-5346	C
Brandon; Wheat City Seeds Ltd.	204-727-3337	R C
Brandon; Whetter, Rodney & Darren	204-727-0045	S F
Carman; Park, Robert J.	204 745-3304	C
Crandall; Doupe, Neil D.	204-562-3632	C
Crystal City; Smith, R. Wally	204 873-2352	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	F
Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom	204-736-2849	S F
Dufrost; Catellier, Patrick Raymond	204-347-5503	C
Glenboro; Jefferies, Ron	204-827-2102	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Holland; Zeghers, Donald Edmond	204-526-7829	F
Killarney; Brinkschulte, Hermann	204-523-7464	C
Killarney; Chatham, Don & Linda	204-523-8412	C
Lowe Farm; Penner, Curtis	204-829-3556	S C
Mac Gregor; Sims, Curtis Edwin	204-685-2237	R C
Mather; Mc Lennan, Donald D.	204-529-2372	R
Miami; Elias, Isaac	204-745-3301	C
Minto; Ayre, Andrew	204-776-2333	C
Minto; Fraser, Rick G.	204-776-2047	R
Morris; Hamblin, David & Lorraine	204-746-4779	C

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Minto, Manitoba

1/2 mile South of Minto on #10
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Cell: 204-534-7458

RED SPRING WHEAT

SPRING VARIETIES AVAILABLE – RED SPRING

AAC Brandon	A cross between Superb & CDC Ofler, highest yielder on our farm good protein, short strong straw, resistance to leaf, stem & stripe rust, and smut. (MR rating to PHB)
CDC GO	Short Strong Straw, Very High Yielder, Good Protein
AC Carberry	Short, High Yielder
AC Vesper	Midge Tolerant, Tall Straw, Strong Yielder And Protein

OATS

AC Stride	High test weight & yield, high protein, resistance to smut, and most races of crown rust.
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Notre Dame De Lourdes; Durand, Gabriel A. & Marc.....	204-248-2268	S F R
Plum Coulee; Giesbrecht, H. Edward & Raymond J.....	204-829-3365	C
Plumas; Court, Randolph A. & Tracy L.....	204-386-2354	R C
Plumas; Tonn, Todd.....	204-386-2206	R
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	C
Rosenort; Friesen, Lloyd.....	204-746-8198	R C
Rosser; Mulligan, Kenneth.....	204-322-5373	C
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	S F
Sanford; Schlichting, Martin.....	204 736-4068	C
Somerset; Van Deynze, Marc.....	204-744-2384	R
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G.....	204-355-4495	C
St. Claude; Rouire, Roland & Guy.....	204-379-2582	C
St. Joseph; Parent, Renald & Paul.....	204-737-2625	R
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	R
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	C
Thornhill; Rothenburger, Kelvin W.....	204-822-1444	C
Viriden; Heaman, Douglas J., Walter, Robert, Kenneth,		
Brett & Brittany.....	204-748-2666	C
Warren; Riddell, Clifford Royden & Craig Thomas.....	204 227-5679	F R C
Winkler; Ens, Abram E. & Chris & Friesen, Jake.....	204-325-4658	C
Winnipeg; Grenkow, Bruce & Daniel.....	204-632-4390	C
Winnipeg; James, David G.....	204-222-8785	C

MOATS☼

Minto; Fraser, Rick G.....	204-776-2047	R
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RYE

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DANKO

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

HAZLET

Carman; Park, Robert J.....	204 745-3304	C
Dauphin; Durston, Scott L., Dean D. & James A.....	204 638-5569	R
Holland; Patenaude, Donald & Robert.....	204-526-2391	C
St. Claude; Rouire, Roland & Guy.....	204-379-2582	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake.....	204-325-4658	C

PRIMA

Boissevain; Froese, Wesley A.J. & Ian.....	204-534-6846	R C
Hamiota; Knight, Ronald M. & Jeff.....	204-764-2450	R

TRITICALE

ELEVATOR

St. Norbert; Brett-Young Seeds Limited.....	204-261-7932	R
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Clearview Acres Ltd.	204-748-2666
Court Seeds	204-386-2354
Durand Seeds Inc.	204-248-2268
Friesen Seeds Ltd.	204-746-8325
Gerrard Family Seeds	204-365-0321
Hulme Agra Products Inc.	204-685-2627
James Farms Ltd.	204-222-8785
Jeffries Seed Service	204-827-2102
L&L Farms	204-324-5798
M B Seeds Ltd.	204-746-2187
Manness Seeds	204-736-2622
Miller Agritec	204-267-2363
New Gen Seed Services Ltd.	204-274-2417
Pitura Seed Service Ltd.	204-736-2849
Red River Seeds Ltd.	204-746-4779
Riddell Seed Co.	204-227-5679
RJP Seed Ltd.	204-745-3304
Rutherford Farms	204-467-5613
R-Way Ag Ltd.	866-398-9643
Seine River Seed Farm Ltd.	204-355-4495
Smith Family Seeds	204-825-7810
Southern Seed Ltd.	204-776-2333
Timchishen Seeds	204-376-5116
Unger Seed Farm Ltd.	204-467-8630
Wheat City Seeds	204-727-3337
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Variety Description Key

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

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

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

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

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

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

Key to 2014 Yield Tables

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

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

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

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

Canola Comments

For specific notes regarding the canola tables, refer to the CANOLA COMMENTS at the top of page 55.

Soybean Comments

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

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O-67-10/14-10238264-E

Canola Comments

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

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

Data Sources:

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

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

Blackleg Rating for Canola

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

continued on next page

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Comments continued

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

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

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

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

Variety Descriptions

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

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

CANOLA PERFORMANCE TRIAL — 2014 Field Scale Trial Location Data Summary

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

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

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

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

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

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

FLAX

New for 2015

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

Comments:

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

AC Emerson demonstrates the greatest tolerance to flax chlorosis.

All varieties are immune to rust.

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

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



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FLAX (continued)

Variety Descriptions

Variety	Site	Yield bu/acre	Maturity	Height	Seed			Oil Quality ¹ :		Resistance to:		
	Years Tested		+/- 102 days	+/- 27 inches	Seed Color	Size TKW	Oil Content	Iodine Number	ALA Content	Lodging	Fusarium Wilt	Powdery Mildew
AAC Bravo	12	32	1	0	brown	6.4	44.6	194.0	60.2	G	MR	MR
AC Carnduff	6	32	0	-1	brown	5.6	44.7	192.3	57.0	VG	MR	MR
AC Emerson	30	32	-2	-1	brown	6.4	43.8	196.1	59.3	G	R	R
AC Watson	3	31	-2	-2	brown	6.2	44.4	192.7	57.1	VG	MR	R
CDC Arras	13	32	0	-2	brown	6.1	45.2	189.2	54.4	G	MR	MS
CDC Bethune	110	34	0	0	brown	5.8	45.6	188.6	54.7	G	MR	MR
CDC Glas	12	35	1	1	brown	5.2	45.8	192.0	56.6	G	MR	MR
CDC Neela	12	33	1	1	brown	5.7	45.5	194.4	59.1	G	MR	MR
CDC Sanctuary	23	34	3	1	brown	5.8	45.6	190.7	57.2	G	MR	MR
CDC Sorrel	50	34	1	1	brown	6.4	45.1	192.7	57.8	F	MR	MR
Flanders	1	33	1	-2	brown	5.3	45.4	191.9	57.2	F	MR	MR
Hanley	69	32	-2	-2	brown	5.7	44.7	197.7	58.6	VG	R	MR
Lightning	40	33	1	-2	brown	6.0	47.6	192.5	56.1	G	MR	R
Macbeth	29	34	0	-1	brown	6.2	47.7	193.1	56.7	G	R	MR
NorLin	50	32	0	-1	brown	5.7	43.5	189.7	56.7	VG	MR	MS
VT50	3	32	4	-2	yellow	5.1	47.1	209.4	67.6	VG	MR	MR
Prairie Blue	68	34	1	-1	brown	5.2	46.3	192.2	57.3	VG	MR	MR
Prairie Grande	40	33	-2	-4	brown	5.8	45.6	192.9	57.5	G	MR	MR
Prairie Sapphire	34	35	2	-1	brown	5.8	48.1	193.1	57.2	G	MR	MR
Prairie Thunder	47	33	0	-3	brown	5.9	45.3	194.7	57.9	G	R	MR
Taurus	39	33	0	-1	brown	5.6	45.6	187.0	53.9	VG	MR	R
Vimy	4	32	1	0	brown	6.1	45.0	191.9	57.6	F	MR	MS
Westlin 70	12	32	2	2	brown	6.4	45.8	194.5	61.9	G	MR	R
Westlin 71	8	34	2	-2	brown	5.6	47.5	198.1	61.2	G	MR	MS
Varieties that are being tested or proposed for registration												
FP2308	9	34	1	0	brown	5.8	45.5	191.8	57.5	G	MR	MR
FP2376	3	33	3	-1	brown	5.4	47.0	192.8	57.0	VG	MR	MR
FP2385	3	34	-2	-1	brown	5.7	46.5	195.5	57.2	G	MR	MR
GRAND MEAN (bu/ac)		33										
LSD (0.05)		1.9										

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

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

Yield Comparisons

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

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MUSTARD

Comments:

All varieties are rated resistant tolerance to blackleg.

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

Variety Descriptions¹

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

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

² Volatile oil = allyl glucosinolate

³ Data from 2008-2012 Co-operative Mustard Test

SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

Please Note: Experimental Lines that are being tested in Manitoba

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

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

- Soybean varieties have been organized into 3 maturity zones - short, mid and long season areas. Although there are no variety restrictions, the short season grouping is meant to be a starting point for new growers in the outer production areas. The long season group is targeted for the southern Manitoba generally south of Highway 23, with the mid season grouping making up the bulk of the production area in between the short and long season area.
- Company Crop Heat Unit ratings are assigned to assist growers select varieties suitable for their area. Unfortunately Company Heat Unit ratings do not always reflect the actual maturity in Manitoba. Growers should never rely on just 1 criteria for judging maturity. Experimental lines are not assigned a HU rating until they become registered.
- Maturity grouping is a ranking of maturity provide by seed suppliers. These rankings are assigned to varieties to assist growers to select varieties suited for their area. For future years, maturity grouping will be used instead of CHU Ranking.
- Relative days to maturity (dtm) is the number of days from seeding to plant maturity (95% of the pods on the plant are mature with seeds rattling in the pods when plant is shaken) and is expressed as + or - days from the check. Growers need to be cautious when using only one year data when evaluating maturity and yield. Using multiple year maturity data when available will give you a better indication on how a variety will mature with different growing seasons. Actual days to maturity for the check is found in the grey Check Box at the bottom of the table.

General Notes:

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

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WESTERN MANITOBA SOYBEAN ADAPTATION TRIAL

Comments:

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

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

Variety Descriptions

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

1 Maturity Based on Data from Boissevain, Hamiota, Roblin

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NATTO SOYBEANS

Comments:

Natto soybeans were last tested in 2012.

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

Variety Descriptions

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

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

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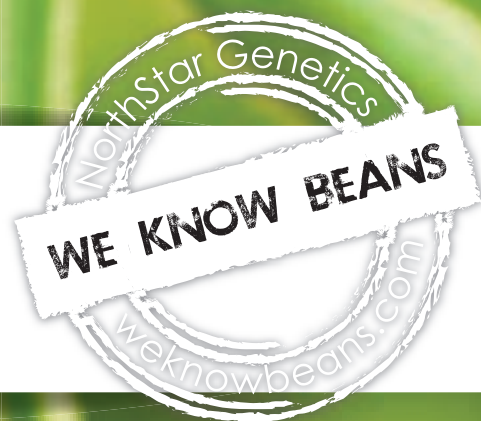
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CONVENTIONAL SOYBEANS

Comments:

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

Variety Descriptions

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

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

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



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CONVENTIONAL SOYBEANS (continued)

Yield Comparisons

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

ROUNDUP READY SOYBEANS

New for 2015

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

Variety Descriptions

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

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

- 1 R2Y Indicates Genuity Roundup Ready 2 Yield Soybeans
- 2 Maturity Ratings for 2014 are average across Carman, Morris, St. Adolphe
- 3 Lodging ratings are average across Loams(Carman) Clays (St. Adolphe, Morris)
- 4 Iron Deficiency Chlorosis (IDC) Groupings- These ratings determined at a separate trial near Winnipeg that is prone to IDC. S=Susceptible, ST=Semi-Tolerant, T=Tolerant, NT=Not Tested.
- 5 Notes 2a, 1c, etc. Phytophthora Resistance genes, SCN=Soybean Cyst Nematode Resistance

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ROUNDUP READY SOYBEANS (continued)

Yield Comparisons

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

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



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SUNFLOWERS — Non-Oil Type

Comments:

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

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

Disease Management:

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

Variety Descriptions

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

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

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*All comparisons are to untreated unless otherwise stated. **AgCelence benefits refer to products that contain the active ingredient pyraclostrobin.

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SUNFLOWERS — Oil Type

Variety Descriptions

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

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

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Distributor Contacts for Varieties in Seed Manitoba 2015

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

MUSTARD

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

CONVENTIONAL SOYBEANS

OAC PRUDENCE	SeCan
DH404	Sevita International
DH863	Sevita International

NATTO SOYBEANS

AC QGC 12N	Quarry Seeds Ltd.
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ROUNDUP READY SOYBEANS

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

ROUNDUP READY SOYBEANS

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

SUNFLOWERS

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

DISTRIBUTOR

PHONE NUMBER

Alliance Seed	1-877-270-2890
Bayer CropScience	1-888-283-6847
Brett Young	1-800-665-5015
CANTERRA SEEDS	1-877-439-7333
Cargill Ltd.	1-888-855-8558
CHS Sunflower	1-701-484-5313
DEKALB	1-800-667-4944
Delmar Commodities	1-888-974-7246
FP Genetics	1-877-791-1045
Hyland Seeds	1-800-265-7403
LA COOP FEDEREE	1-450-799-2326
North Star Genetics Manitoba	1-701-454-6427
DuPont Pioneer	1-800-265-9435
PRIDE Seeds	1-800-265-5280
Crop Production Service (CPS)	1-306-569-5027
Quarry Seeds Ltd.	1-888-274-9243
SeCan	1-800-665-7333
Nuseed Americas Inc	1-877-841-7447
Sevita International	1-613-989-5400
Syngenta Canada Inc.	1-877-964-3682

Growers List



CANOLA

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

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

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

FLAX

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

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

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

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

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

SOYBEANS

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

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

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

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

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

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

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

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

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



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- Destoners

- Bean/Pea Polishers

- Aspiration Machinery

Precision Air-Screen Seed Cleaners

VistaSort Color Sorters

- Infrared Camera

- RGB Camera

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OAC Prudence

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RR Varieties

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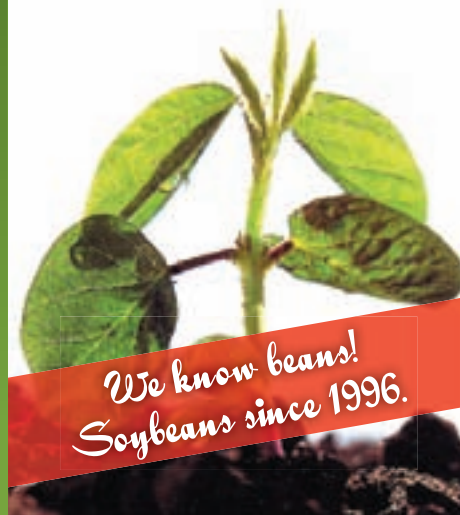


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SOYBEANS

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CURRIE R2

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 R
Winkler; Ens, Abram E. & Chris & Friesen, Jake 204-325-4658 C

GRAY R2

Carman; Park, Robert J. 204 745-3304 R C
Dufrost; Catellier, Patrick Raymond..... 204-347-5503 C

HERO R2

Carman; Menold, Thomas 204-745-3377 R
Carman; Park, Robert J. 204 745-3304 R
Darlingford; Wilson, James M. 204-246-2388 R C
Dauphin; Kaleta, James & Debra 204 638-7800 R C
Warren; Riddell, Clifford Royden & Craig Thomas 204 227-5679 R
Wawanesa; Ellis, Warren P. & Simon 204-824-2290 R C

JARI

Oak Bluff; Gousseau, Marcel E. 204-895-1357 C

LS 002R24N

Winkler; Delmar Commodity Ltd. (Mb Acct) F R C

LS 003R24N

Winkler; Delmar Commodity Ltd. (Mb Acct) C

LS002R23

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

LS005R22

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

LS005R24

Winkler; Delmar Commodity Ltd. (Mb Acct) F R C

MCLEOD R2

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 F C
Arborg; Timchishen, Donald Victor & Darcy 204 376-5116 F C

SOYBEANS

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

Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 C
Boissevain; Froese, Wesley A.J. & Ian 204-534-6846 F
Brandon; Wheat City Seeds Ltd. 204-727-3337 S F C
Carman; Menold, Ulrich & Lucas 204-745-2822 S F
Carman; Park, Robert J. 204 745-3304 R C
Darlingford; Wilson, James M. 204-246-2388 S C
Dauphin; Kaleta, James & Debra 204 638-7800 C
Dufrost; Catellier, Patrick Raymond..... 204-347-5503 C
Glenboro; Jefferies, Ron..... 204-827-2102 C
Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 C
Morris; Hamblin, Donald & Bradley 204 209-0506 C
Oak Bluff; Anseeuw, Mark J. 204-895-8375 C
Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 C
Pilot Mound; Wallace, Brad & Joe 204-825-2628 C
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 C
Portage La Prairie; Askin, Raymond T. & Jeffrey S. 204-274-2417 S F C
Portage La Prairie; Pugh, William G. & B.M. 204-274-2179 R C
St Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-355-4495 C
Stonewall; Unger, Ronald K. & Darcy 204-467-8630 S F C
Warren; Riddell, Clifford Royden & Craig Thomas 204 227-5679 S F C
Whitemouth; Klepatz, Wayne..... 204-348-2294 C
Winnipeg; James, David G. 204-222-8785 C

NSC ANOLA RR2Y

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

NSC GLADSTONE RR2Y

Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S R
Domain; Pitura, Carl & Calvin C. & Connor J. & Greaves, Tom 204-736-2849 R
Fannystelle; Nadeau, Brian 204-436-2469 R
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 R
Rosenort; Friesen, Rick 204-746-8325 C
Winnipeg; Northstar Genetics, 204-467-5613 C

NSC LIBAU RR2Y

Grosse Isle; Rutherford, Rick 204-467-5613 R C
Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 C
Rosenort; Friesen, Rick 204-746-8325 C

NSC MOOSOMIN RR2Y

Dauphin; Fisher, Roderick Allan & Douglas James..... 204-622-8800 C
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
Grosse Isle; Rutherford, Rick 204-467-5613 R C
Grosse Isle; Rutherford, Rick 204-467-5613 C
Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 R
Oak River; Henry, Cameron & Mc Lean, Eric 204-566-2422 R
Plumas; Court, Randolph A. & Tracy L. 204-386-2354 C
Rosenort; Friesen, Lloyd 204-746-8198 C

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Rosenort; Friesen, Rick	204-746-8325	C
Somerset; Sierens, Joseph & Chris	204-744-2883	C
Wawanesa; Ellis, Warren P. & Simon	204-824-2290	C
Winnipeg; Northstar Genetics,	204-467-5613	C

NSC NIVERVILLE RR2Y

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S
Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom	204-736-2849	C
Fannystelle; Nadeau, Brian	204-436-2469	C
Winnipeg; Northstar Genetics,	204-467-5613	C

NSC OSBORNE RR2Y

Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	R
St. Jean Baptiste; Sabourin, Eric	204-427-3010	R

NSC RESTON RR2Y

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	R
Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom	204-736-2849	S F C
Fannystelle; Nadeau, Brian	204-436-2469	FR
Grosse Isle; Rutherford, Rick	204-467-5613	S FR
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	F
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	R C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	C
Plumas; Court, Randolph A. & Tracy L.	204-386-2354	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	C
Rosenort; Friesen, Lloyd	204-746-8198	F C
Rosenort; Friesen, Rick	204-746-8325	F C
Rosser; Nolting, Heinz	204-467-5922	C
Somerset; Sierens, Joseph & Chris	204-744-2883	C
Winnipeg; Northstar Genetics,	204-467-5613	C

NSC RICHER RR2Y

Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom	204-736-2849	S F C
Fannystelle; Nadeau, Brian	204-436-2469	C
Letellier; Cadieux, Kerry	204-737-2319	C
Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	C
Rosenort; Friesen, Lloyd	204-746-8198	C

NSC SANFORD R2Y

Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom	204-736-2849	S F

NSC TILSTON RR2Y

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	C
Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	C
Portage La Prairie; Yuill, Kevin A.	204-857-8708	C
Winnipeg; Northstar Genetics,	204-467-5613	C

OAC PRUDENCE

Carman; Menold, Ulrich & Lucas	204-745-2822	S F
Domain; Wiens, Robert Frank	204-736-2951	C

P002T04R☼

Chatham; Pioneer Hi-Bred Production L.P. (Soybeans - Mb) 800-265-0554	R
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P008T22R2☼

Chatham; Pioneer Hi-Bred Production L.P. (Soybeans - Mb) 800-265-0554	FR
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P008T70R☼

Chatham; Pioneer Hi-Bred Production L.P. (Soybeans - Mb) 800-265-0554	F
---	---

PEKKO R2

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

SAMPSA R2

St. Norbert; Brett-Young Seeds Limited	204-261-7932	S F R C
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TH 34006R2Y

Morris; Dueck, Arthur	204-746-2026	C
Stonewall; Quarry Grain Commodities Inc.	204-467-8877	C
Stonewall; Thunder Seeds		S F C

TH32004R2Y

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Brunkild; Kaminsky, Kenneth & Jonathan	204-792-2081	C
Dufrost; Catellier, Patrick Raymond	204-347-5503	C

SOYBEANS

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

Elma; Friesen, Richard	204-426-5506	C
Morris; Dueck, Arthur	204-746-2026	C
Stonewall; Quarry Grain Commodities Inc.	204-467-8877	FR C
Stonewall; Thunder Seeds		C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	S

TH33003R2Y

Birtle; Butcher, Garth F.	204-842-3713	C
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Stonewall; Quarry Grain Commodities Inc.	204-467-8877	FR C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	S

TH33005R2Y

Brunkild; Kaminsky, Kenneth & Jonathan	204-792-2081	C
Dufrost; Catellier, Roger & Richard	204 347-5588	C
Morris; Dueck, Arthur	204-746-2026	S F
Stonewall; Quarry Grain Commodities Inc.	204-467-8877	C
Stonewall; Thunder Seeds		C

VITO R2

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Domain; Pitura, Carl & Calvin C. & Connor J. &		
Greaves, Tom	204-736-2849	C
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Portage La Prairie; Yuill, Kevin A.	204-857-8708	C
Rosenort; Friesen, Lloyd	204-746-8198	C
Wawanesa; Ellis, Warren P. & Simon	204-824-2290	C
Winnipeg; Northstar Genetics,	204-467-5613	C
Winnipeg; Northstar Genetics,	204-467-5613	C

1655 – Apply granular inoculants with planters for soybeans.

1665 – Increase acres between fills by adding a 1665 to airseeders to apply inoculants or canola seed.



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Variety Description Key

A "CHECK CHARACTERISTICS" box has been placed at the bottom of each table for fababean, field beans and lentil 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 climactic conditions and to some extent on management practices.

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

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

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

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

Key to 2014 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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*115 independent large-plot trials in Canada between 1997 and 2012 showed an average yield increase of 8%. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

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Comments:

The fababean variety trial was tested by MCVET and partially sponsored by the Manitoba Pulse Growers Association. 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	Seed Size TKW (g)	Maturity * (days)	2014 Yield % Check Variety	
			Arborg	Roblin
Colored Flower (Tannins)				
CDC Fatima	520	105	100	100
CDC SSNS-1	335	105	98	87
Florent	660	107	—	—
Taboar☉	480	107	98	96
CHECK CHARACTERISTICS	CDC Fatima (lb/acre)		5302	8623
CDC Fatima (tannin)	CV %		6.6	4.2
	LSD (%)		11	7
	Sign Diff		Yes	Yes
White Flower (Zero Tannin)				
CDC Snowdrop	335	104	100	100
Snowbird☉	495	104	143	101
Tabasco☉	530	106	119	98
	Snowbird (lb/acre)		3317	8966
CDC Snowbird (zero tannin)	CV%		10.5	4.3
	LSD (%)		17	7
	Sign Diff		Yes	Yes

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



Manitoba
Pulse Growers
Association Inc.

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

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www.manitobapulse.ca

FIELD BEANS — Western Manitoba Adaptation Trials (*formerly called Narrow Row trials*)

Comments:

Long term yield data and days to maturity are from Manitoba Pulse Growers Association Trials grown in 10 to 12 inch row spacing.

More detailed measurements from the trials are available to MPGA 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	Days to ¹	Plant ²
		2014	2013	2012	2011	Check	Tested	Maturity	Type
Small Seeded Types						% of Envoy		+/- Envoy	
Navy	Envoy	x	x	x	x	100	40	0	I
Navy	Portage	x	x			87	7	1	II
Black	CDC Jet	x	x	x	x	110	31	2	II
Black	CDC Superjet	x	x	x	x	117	10	1	II
Black	CDC Blackcomb	x	x	x	x	123	12	-1	II
Black	Eclipse	x				125	4	4	II
Large Seeded Types						% CDC Pintium		+/- CDC Pintium	
Pinto	CDC Pintium	x	x	x	x	100	40	0	I
Pinto	CDC Marmot	x	x	x		118	10	3	II
Pinto	CDC WM-2	x	x	x	x	124	12	6	III
Pinto	Island	x	x	x	x	118	10	6	II
Pinto	Mariah	x	x	x	x	133	12	7	II
Pinto	Stampede	x				133	4	11	II
Varieties that are registered in the US or being tested or proposed for registration in Canada									
Navy	2918-25	x	x			121	7	-5	II
Navy	3458-7	x				107	4	-3	II
Black	2921-14	x	x			125	7	-4	II
CHECK CHARACTERISTICS									
	Bean Grouping	Check Varieties					Yield (lbs/acre)	Site Years	Days to Maturity
	Small seeded	Envoy					1941	40	104
	Large seeded	CDC Pintium					2057	40	98

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

FIELD BEANS — Wide Row Trials

Varieties or Lines Tested for the First Time in 2014

Navy: Avalanche, H60-111, H60-224, NA6-27-2

Black: ACUG 10-B3, ISB TR3

Pinto: PIN 1314, Monterrey, ISB P1, ISB P2, ISB P3

Pink: Rosetta

Cranberry: 1031

Light Red Kidney: 09357, 09378

Great Northern: Aries, Coyne

Comments:

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

Long term yield data and days to maturity are from Manitoba Pulse Growers Association 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 ² +/- Check
	2014	2013	2012	2011			
NAVY							
					% of Envoy		+/- Envoy
AC Cruiser			x	x	122	41	5
Aspen			x		120	16	3
Bolt	x	x			113	4	3
Cargo	x	x	x	x	103	41	-1
Envoy	x	x	x	x	100	61	0
Indi	x	x	x		129	9	3
Lightning	x	x	x	x	125	18	2
Nautica		x			131	1	8
OAC Spark	x	x	x	x	98	21	-2
Portage	x	x	x	x	121	17	1
T9903	x	x	x	x	117	37	1
T9905	x	x	x	x	131	17	4
Varieties that are registered in the US or being tested or proposed for registration in Canada							
Avalanche	x				105	3	2
H60-111	x				107	3	5
H60-224	x				107	3	5
ISB 1815-2	x	x	x		118	8	2
ISB 1816	x	x			114	8	3
NA6-27-2	x				104	3	2
NAVC6V1200	x	x			115	4	5
PINTO							
					% of Windbreaker		+/- Windbreaker
AC Ole			x	x	91	23	-1
AC Pintoba			x	x	94	30	3
CDC WM-2	x	x	x		87	9	1
Mariah	x	x	x	x	92	22	-1
Maverick		x	x	x	89	27	1
Medicine Hat	x	x	x		93	21	-4
ND 307	x	x	x		97	12	3
Stampede	x	x	x		94	12	3
Windbreaker	x	x	x	x	100	39	0
Varieties that are registered in the US or being tested or proposed for registration in Canada							
cob 2824-99			x	x	97	10	-1
GTS 907			x	x	100	10	0
ISB P1	x				81	4	5
ISB P2	x				79	4	3
ISB P3	x				81	4	0
Max		x	x		85	5	4
Monterrey	x				109	4	3
PIN 1314	x				94	4	0
PIN DJ09-1012	x	x		x	101	9	-1
Sequoia		x	x		84	5	4
BLACK							
					% of Eclipse		+/- Eclipse
Blackjack	x	x			91	4	5
Carman Black	x	x	x	x	94	17	1
CDC Blackcomb			x		87	4	1
CDC Jet	x	x	x	x	90	26	3
CDC Superjet	x	x	x	x	87	14	2
Eclipse	x	x	x	x	100	26	0
Varieties that are registered in the US or being tested or proposed for registration in Canada							
ACUG 10-B3	x				99	3	1
BKBC6V 1312	x	x			91	4	3
cob 2159-00	x	x			91	4	8
GTS 1103	x	x			93	4	4
ISB TR3	x				73	3	-1
PINK							
					% of Windbreaker		+/- Windbreaker
Varieties that are registered in the US or being tested or proposed for registration in Canada							
Rosetta	x				113	4	6
CRANBERRY							
					% Cran 09		+/- Cran 09
Cran 09	x	x	x	x	100	49	0
Etna	x	x	x	x	98	41	1

FIELD BEANS (continued)

MARKET CLASS/Variety	Years Tested				Yield % of Check	Site Years Tested	Days to Maturity ² +/- Check	
	2014	2013	2012	2011				
Varieties that are registered in the US or being tested or proposed for registration in Canada								
1031		x			118	1	-4	
BRB 1013	x				84	3	0	
Krimson	x	x			80	4	5	
GREAT NORTHERN								
					% of Beryl R		+/- Beryl R	
Beryl R	x		x		100	50	0	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
99118	x		x		102	12	2	
Aries	x				123	4	3	
Coyne	x				117	4	0	
GN13-10-1			x		88	4	1	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
DARK RED KIDNEY								
					% of Pink Panther		+/- Pink Panther	
1013		x			67	1	0	
1030		x			89	1	0	
LIGHT RED KIDNEY								
					% Pink Panther		+/-Pink Panther	
Pink Panther	x	x	x	x	100	39	0	
Varieties that are registered in the US or being tested or proposed for registration in Canada								
9350			x		109	4	-1	
09351	x		x		103	7	-3	
09357	x				103	3	-2	
09378	x				88	3	-3	
Clouseau		x	x		103	8	1	
White Kidney								
			x	x	% of Pink Panther		+/- Pink Panther	
GTS 402					91	15	-2	
YELLOW								
					% of Windbreaker		+/- Windbreaker	
CDC Sol	x	x	x	x	81	15	5	
					First Year Tested	Yield lbs/acre	Site Years Tested	Days to Maturity
Check Varieties								
Beryl R					2002	2424	50	100
Cran 09					2000	1902	49	99
Eclipse					2005	2370	26	100
Envoy					1994	2032	61	100
Pink Panther					2001	2003	39	100
Windbreaker					2002	2628	39	97

1 Long term Average Yield is the best indicator of variety performance. Use single site-year data with caution.

2 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.

Comments:

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

The lentil variety trial was tested by MCVET and partially sponsored by the Manitoba Pulse Growers Association.

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 ¹ Rating	Resistance Level:		Seed Wt (TKW)	Cotyledon Colour	2014 Yield:
					Asochyta Blight	Anthracnose ¹ Race			% of CDC Maxim Melita
Small green	CDC Asterix	91	3	Early	G	F	26	Yellow	78
	CDC Invincible CL	76	12	Early	G	G	35	Yellow	68
	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	101	1	Med/Late	G	F	73	Yellow	101
	CDC Impower CL	65	5	Medium	G	P	74	Yellow	68
	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	109	3	Early/Med	F	G	32	Yellow	113
	CDC QG-2	67	1	Early/Med	F	G	33	Yellow	67
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	91	3	Early/Med	G	G	30	Red	83
	CDC Rosetown	88	11	Early	G	G	31	Red	—
	CDC Ruby	92	2	Early	G	G	29	Red	—
Small red	CDC Dazil	94	4	Early/Med	G	F	35	Red	85
	CDC Imax CL	81	12	Medium	G	G	50	Red	71
	CDC Impact CL	78	10	Early	G	P	34	Red	—
	CDC Maxim CL	100	14	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 Scarlet	106	3	Early/Med	G	F	36	Red	105
Large red	CDC KR-1	79	9	Medium	G	G	56	Red	115
CHECK CHARACTERISTICS							CDC Maxim (lb/ac)		2148
CDC Maxim		3329	13				CV%		14.7
		lb/ac	site years				LSD (%)		29
							Sign Diff		Yes
							Seeding Date		13-May
							Harvest Date		03-Sep

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

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 2015

Variety	Code	Breeder	Distributor	Seed Availability
AAC Ardill	MP 1892	AAFC - Lacombe	Wagon Wheel Seed Corp	2016
Abarth	LN 4206	Limagrain Europe SA	FP Genetics	Available
AC Earlystar	MP 1862	AAFC - Lacombe	CANTERRA SEEDS	2015
CDC Greenwater	CDC 2472-4	Crop Development Centre	Saskatchewan Pulse Growers	2017
CDC Limerick	CDC 2336-1	Crop Development Centre	Saskatchewan Pulse Growers	2016
CDC Amarillo	CDC 2462-30	Crop Development Centre	Saskatchewan Pulse Growers	2016

Varieties that are being tested or proposed for registration

Code	Breeder	Distributor	Seed Availability
MP 1867	AAFC - Lacombe	—	n/a

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Relative Maturity	Relative Vine Length	Seed Size (TSW)	Resistance Level:								Seed Coat Breakage	Seed ³ Coat Dimpling
						Green ¹ Seed Coats	Lodging	Powdery Mildew	Mycos- phaerella			Fusarium ² Wilt	Bleaching		
									Blight						
Yellow															
AAC Ardill☼	2	72	M	M	240	n/a	G	VG	F	G	n/a	G	n/a		
Abarth☼	2	71	E	M	280	G	VG	VG	F	F	n/a	F	G		
AC Earlystar☼	2	72	E	M	210	G	G	VG	F	F	n/a	F	G		
Agassiz☼	39	74	M	M	230	G	G	VG	F	F	n/a	G	F		
Argus ☼	14	69	M	M	230	G	G	VG	F	F	n/a	F	F		
CDC Amarillo	2	74	M	M	230	G	VG	VG	F	G	n/a	F	F		
CDC Bronco	31	62	M	M	230	G	G	VG	F	F	n/a	G	G		
CDC Centennial	20	72	E	S	270	F	F	VG	F	F	n/a	G	G		
CDC Golden	44	68	M	M	230	G	G	VG	F	F	n/a	G	G		
CDC Hornet	30	70	M	M	220	G	G	VG	F	F	n/a	F	G		
CDC Meadow	52	73	E	M	220	G	G	VG	F	F	n/a	G	G		
CDC Mozart	34	70	M	S	220	F	F	VG	F	F	n/a	G	G		
CDC Prosper	29	64	E	M	150	G	G	VG	F	G	n/a	G	F		
CDC Saffron	16	73	M	M	250	G	G	VG	F	F	n/a	G	F		
CDC Treasure	37	70	E	M	210	G	G	VG	F	G	n/a	F	F		
Cutlass	65	67	M*	M*	220	G	G	VG	F	F	n/a	F	F		
Eclipse☼	62	71	M	M	250	G	G	VG	F	F	n/a	G	F		
Hugo ☼	14	69	M	M	220	n/a	G	VG	F	G	n/a	G	n/a		
Polstead☼	35	70	M	M	280	F	G	VG	P	P	n/a	F	F		
Reward☼	20	71	M	L	240	F	G	VG	F	F	n/a	G	G		
SW MIDAS☼	29	69	E	M	220	G	G	VG	F	F	n/a	G	G		
Sorento☼	28	71	M	M	260	G	F	VG	F	F	n/a	G	F		
Thunderbird☼	26	71	M	M	220	F	G	VG	F	F	n/a	G	G		
Green															
CDC Greenwater	2	75	L	M	220	n/a	G	VG	F	G	G	VG	G		
CDC Limerick	2	67	L	M	210	n/a	VG	VG	F	F	G	VG	G		
CDC Patrick	38	67	M	M	190	n/a	G	VG	F	G	G	G	G		
CDC Pluto	9	68	M	M	160	n/a	F	VG	F	F	G	G	G		
CDC Raezer	11	67	M	M	220	n/a	VG	VG	F	G	G	G	G		
CDC Sage	19	59	M	M	220	n/a	G	VG	F	G	G	G	F		
CDC Striker	57	65	M	M	230	n/a	VG	P	F	G	G	VG	G		
CDC Tetris	25	68	L	M	210	n/a	G	VG	F	G	G	G	G		
COOPER☼	47	69	L	M	270	n/a	G	VG	F	F	G	F	G		

Variety	Site Years Tested	Yield bu/acre	Relative Maturity	Relative Vine Length	Seed Size (TSW)	Resistance Level:								Seed Coat Breakage	Seed ³ Coat Dimpling
						Green ¹ Seed Coats	Lodging	Powdery Mildew	Mycos- phaerella Blight	Fusarium ² Wilt	Bleaching				
Varieties that have been supported for registration															
MP 1867	2	55	M	M	230	n/a	G	VG	F	G	VG	VG	G		
Other Pea types															
CDC Mosaic (Maple)	17	60	L	M	180	n/a	G	VG	F	n/a	n/a	G	VG		
CDC Rocket (Maple)	19	64	M	M	210	n/a	F	VG	F	n/a	n/a	G	VG		
CDC Dakota (Dun)	19	75	M	M	205	n/a	VG	VG	F	n/a	n/a	G	VG		
CDC Horizon (Silage)	17	63	M	L	170	G	G	VG	F	n/a	n/a	G	G		
CDC Leroy (Silage)	20	62	M	L	150	G	F	VG	F	n/a	n/a	G	G		
CDC Tucker (Silage)	21	64	M	L	170	F	G	VG	F	n/a	n/a	G	G		
Stella (Silage) ☼	14	58	L	L	220	n/a	G	VG	F	n/a	n/a	G	n/a		
GRAND MEAN		67													
LSD (0.05)		5													

* 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	2014 Average Yield (bu/acre)	2014 Yield (bu/acre)	
		Arborg	Thornhill
Yellow			
AAC Ardill☼	100	100	100
Abarth☼	97	93	101
AC Earlystar☼	96	95	97
Agassiz☼	96	96	95
CDC Amarillo	100	99	102
CDC Golden	95	93	96
CDC Meadow	94	92	97
CDC Saffron	97	97	98
Green			
CDC Greenwater	103	102	104
CDC Limerick	89	88	90
CDC Patrick	91	93	89
CDC Raezer	83	83	83
CDC Striker	88	86	90
CDC Tetris	92	90	93
Varieties that have been supported for registration			
MP 1867	70	64	76
Other			
CDC Dakota	99	97	101
SITE GRAND MEAN (bu/acre)		92	94
CV %		5.1	5.3
LSD (bu/ac)		8	8
Sign Diff		Yes	Yes
Seeding Date		24-May	15-May
Harvest Date		10-Sep	13-Aug

Distributor Contacts for Varieties in Seed Manitoba 2015

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	Legumex Walker Canada Inc.
Florent	Legumex Walker Canada Inc.
Snowbird🌱	Cyre Seed Farms
Taboar🌱	Terramax Holding Corp.
Tabasco🌱	Riddell Seed Co.

FIELD BEANS

NAVY (WHITE)

AC Cruiser	Hensall District Coop
Aspen	Saskcan Pulse Trading
Bolt	Hensall District Coop
Cargo	Various Bean Dealers
Envoy	Various Bean Dealers
Indi	ADM- Seed West
Lightning	Hensall District Coop
Nautica	Hensall District Coop
OAC Spark	University of Guelph
Portage	CANTERRA SEEDS
T9903	Hyland Seeds - Beans
T9905	Hyland Seeds - Beans

PINTO

AC Ole	Various Bean Dealers
AC Pintoba	CANTERRA SEEDS
CDC Pintium	Various Bean Dealers
CDC WM-2🌱	University of Saskatchewan
Maverick	Various Bean Dealers
Mariah🌱	CANTERRA SEEDS
Medicine Hat 🌱	CANTERRA SEEDS
ND 307	Legumex Walker Canada Inc.
Stampede	Legumex Walker Canada Inc.
Windbreaker	CANTERRA SEEDS
Winmor	Viterra

BLACK

Blackjack	Gen-Tec Seeds Ltd.
Carman Black	Agriculture and Agri-Food Canada
CDC Blackcomb	University of Saskatchewan
CDC Jet	Ben Martens Charlois & Seed
Eclipse🌱	Legumex Walker Canada Inc.
CDC SuperJet	Ben Martens Charlois & Seed

CRANBERRY

Cran 09	Various Bean Dealers
Etna	Seminis Vegetable Seeds

GREAT NORTHERN

Beryl R	Various Bean Dealers
---------	----------------------

LIGHT RED KIDNEY

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

WHITE KIDNEY

GTS 402	Various Bean Dealers
---------	----------------------

YELLOW

CDC Sol🌱	Legumex Walker Canada Inc.
----------	----------------------------

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 Invincible 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

LENTILS

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 Rosebud	Saskatchewan Pulse Growers
CDC Rosetown	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.
Abarth🌱	FP Genetics
AC Earlystar🌱	CANTERRA SEEDS
Agassiz🌱	CANTERRA SEEDS
Argus 🌱	SeCan
Canstar	Canseed (Canada) Ltd.
CDC Amarillo	Saskatchewan Pulse Growers
CDC Bronco	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 Leroy	Saskatchewan Pulse Growers
CDC Limerick	Saskatchewan Pulse Growers
CDC Meadow	Saskatchewan Pulse Growers
CDC Mosaic	Saskatchewan Pulse Growers
CDC Mozart	Saskatchewan Pulse Growers
CDC Patrick	Saskatchewan Pulse Growers
CDC Pluto	Saskatchewan Pulse Growers
CDC Prosper	Saskatchewan Pulse Growers
CDC Raezer	Saskatchewan Pulse Growers
CDC Rocket	Saskatchewan Pulse Growers
CDC Saffron	Saskatchewan Pulse Growers
CDC Sage	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
Hugo 🌱	Alliance Seed
Polstead🌱	FP Genetics
Reward🌱	SeCan
Sorento🌱	FP Genetics
Stella 🌱	Alliance Seed
SW MIDAS🌱	FP Genetics
Thunderbird🌱	CANTERRA SEEDS

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
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
Legumex Walker 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
Seminis Vegetable Seeds	1-519-351-7640
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

Growers List



FABA BEANS

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

CDC FATIMA

Dauphin; Fisher Seed Farms Ltd..... 204-622-8800 R

TABASCO☼

Warren; Riddell, Clifford Royden & Craig Thomas 204 227-5679 S C

FIELD BEAN

CDC JET

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

ENVOY

High Bluff; Lytle, Robert 204-857-9950 R

PORTAGE

Winkler; Ens, Abram E. & Chris & Friesen, Jake 204-325-4658 F

WINDBREAKER

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 C

Portage La Prairie; Sissons, Grant G., Donald Angus & Blye. 204-857-7341 C

St. Joseph; Parent, Renald & Paul 204-737-2625 C

Winkler; Ens, Abram E. & Chris & Friesen, Jake 204-325-4658 C

PEAS

AGASSIZ☼

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

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

Glenboro; Jefferies, Ron..... 204-827-2102 R

Stonewall; Unger, Ronald K. & Darcy..... 204-467-8630 R

Viriden; Heaman, Douglas J..... 204-748-2666 F

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

ARGUS☼

Domain; Manness, Clayton..... 204-736-2922 C

CDC AMARILLO

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

PEAS

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

CDC MEADOW

Brandon; Wheat City Seeds Ltd. 204-727-3337 C

Brandon; Whetter, Rodney & Darren 204-727-0045 R

Crystal City; Buchanan, Kenneth S. & Dean K..... 204-873-2661 C

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

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

Holland; Kubinec, Anastasia..... 204-526-2776 C

Holland; Patenaude, Donald & Robert 204-526-2391 C

Holland; Vigar, Murray & Gary..... 204-526-2108 R

Kenton; Stevenson, Richard D.O. & Douglas 204-838-2696 C

Kenton; Stevenson, Robert H. & Sidney H..... 204-838-2012 C

Miniota; Walker, Alan Glen 204-567-3647 C

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

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

Rivers; Redsper Ent. Ltd..... 204-328-5346 C

CDC PATRICK

Marquette; Friesen, Paul 204-322-5773 C

CDC RAEZER

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

CDC STRIKER

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

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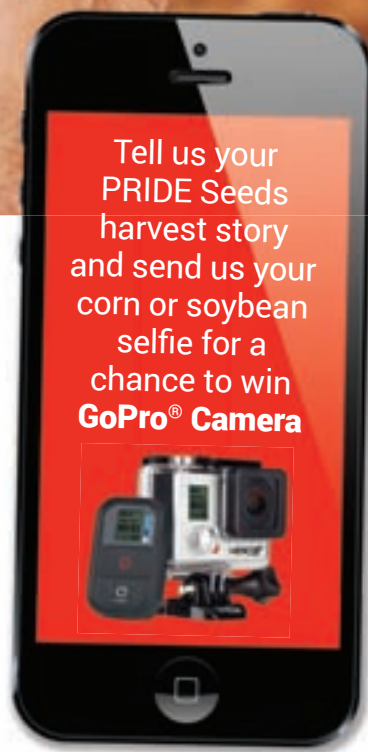
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Variety Description Key

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

Except for the long term average yield, variety description information for canary seed and buckwheat was obtained from the Co-operative 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 or a variety where protection has been applied for but not yet granted at time of printing.

Key to 2014 Yield Tables

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

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

LSD = Least Significant Difference. Varieties must differ by the LSD 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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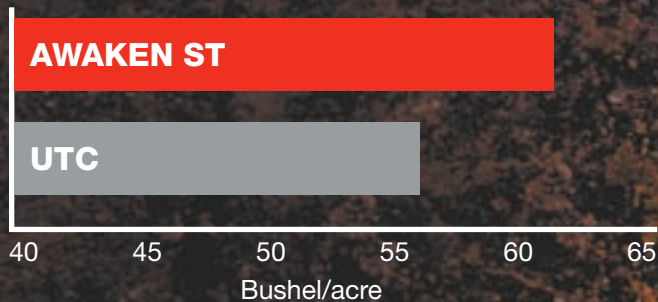
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*Dr. Joel Ransom NDSU 2009

Comments:

Buckwheat was not tested in 2014, and was last tested in 2013.

Buckwheat variety trials prior to 2014 were tested by MCVET and partially sponsored by the Manitoba Buckwheat Growers Association.

Variety Descriptions

Variety	Yield % Check	Site Years Tested	Days to 50% Bloom +/- Check	Height +/- Check
AC Manisoba	113	18	-3	-2
AC Springfield	115	18	-1	-5
Horizon	127	9	—	—
Koma	100	18	0	0
Koto	121	18	-2	-3
Mancan	106	18	-2	-6
Manor	111	4	—	—
CHECK CHARACTERISTICS				
Koma	1387 lb/acre	18 site years	47 days	45 inches



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CANARY SEED

Comments:

Canary Seed was last tested in 2006.

Variety Descriptions

Variety	Yield % Check	Site Years Tested	Days to Maturity +/- Check	Height +/- Check	Seed ¹ Size
Conventional Types (Hairy)					
Cantate	92	6	-2	-2	L
Keet	100	38	0	0	S
Hairless Types					
CDC Bastia	81	4	5	-1	M
CDC Maria	73	14	4	-3	M
CDC Togo	70	10	6	-1	L
CHECK CHARACTERISTICS					
Keet	1588 lb/acre	38 site years	105 days	44 inches	

1 TKW ranges from 7.1 g to 8.0 g, L= Large, M = Medium, S= Small.



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GRAIN CORN

Comments:

The 2014 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	Genetic Traits ²	Distributor	Carman			Morden			MacGregor		
				Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)
2050	LR 9573VT2PRIB	VT2PRIB	Delmar Commodities	216	27.1	52.5	126	27.2	54.6	108	23.3	52.1
2050	P7213R	RR2	DuPont Pioneer	156	23.0	54.2	65	18.1	49.6	100	20.5	55.0
2050	P7332R	RR2	DuPont Pioneer	190	25.8	51.7	112	19.6	50.9	123	23.7	49.5
2075	DKC 23-22	VT2PRIB	DEKALB	—	—	—	—	—	—	112	22.3	53.3
2075	TH 7574	GENVT2PRIB	Thunder Seed	201	25.9	53.0	120	24.2	55.3	114	23.8	52.7
2100	P7410HR	HX1/LL/RR2	DuPont Pioneer	186	24.0	51.2	98	17.6	46.5	97	23.0	48.2
2100	P7443R	RR2	DuPont Pioneer	168	24.1	54.0	96	19.9	51.3	108	21.6	52.5
2100	G Focus	GT	Fraser Seeds	167	24.1	52.1	99	21.1	49.6	—	—	—
2100	PS 2263VT2P RIB	GENVT2PRIB	PICKSEED	197	25.5	51.7	110	17.6	52.7	105	24.7	50.2
2125	DKC 26-25	RR	DEKALB	159	23.0	53.6	92	20.0	52.9	88	21.0	53.1
2125	LR 9474VT2PRIB	VT2PRIB	Delmar Commodities	211	27.1	50.6	145	29.7	51.2	130	28.1	46.8
2125	LR 9574GT	GT	Delmar Commodities	178	26.0	51.2	119	23.9	51.8	104	27.9	47.5
2150	E44A02 R	VT2PRIB	BrettYoung	211	24.4	52.7	109	23.2	53.1	120	25.4	50.3
2150	DKC 26-28	VT2PRIB	DEKALB	210	24.4	52.3	97	18.7	53.6	100	21.5	53.1
2150	MZ 1244R	RR2	Maizex Seeds Inc.	205	26.6	52.8	115	28.6	52.5	120	24.9	51.6
2150	MZ 1610R	RR2	Maizex Seeds Inc.	170	25.6	52.7	113	21.2	53.4	126	22.7	52.0
2150	N04F-3110	CB/GT	Syngenta Canada Inc.	174	25.3	53.4	113	21.0	54.4	105	23.3	51.5
2175	LR 9975RR	RR	Delmar Commodities	225	22.7	52.2	130	21.2	52.8	126	25.9	49.1
2175	39D95	RR2	DuPont Pioneer	190	23.9	54.0	123	20.7	51.6	107	22.7	41.5
2175	G Magnum	3110	Fraser Seeds	172	24.7	55.0	117	23.2	63.0	—	—	—
2175	G 13D	3110	Fraser Seeds	168	24.2	52.3	110	18.7	52.8	—	—	—
2175	TH 7677	GENVT2PRIB	Thunder Seed	221	24.9	53.1	112	29.1	50.9	137	24.8	49.3
2200	DKC 27-55	VT2PRIB	DEKALB	179	26.1	53.9	118	19.8	57.0	118	22.5	54.3
2200	LR 9376RR	RR	Delmar Commodities	193	25.9	51.5	137	28.5	50.5	—	—	—
2200	G Target	GT	Fraser Seeds	208	26.1	50.1	149	26.6	51.2	—	—	—
2200	MZ 1624DBR	GENVT2PRIB	Maizex Seeds Inc.	233	27.1	52.0	141	24.5	53.1	124	26.2	49.2
2200	MZ 1633DBR	GENVT2PRIB	Maizex Seeds Inc.	212	25.7	52.9	144	26.4	52.6	135	24.2	50.3
2200	SG0822	GT/CB/LL	Syngenta Canada Inc.	182	24.9	52.2	118	22.5	56.5	105	22.3	53.8
2200	TH7578	GENVT2PRIB	Thunder Seed	217	24.4	52.5	112	31.3	50.6	123	24.7	49.7
2225	E47A12 R	VT2PRIB	BrettYoung	211	25.9	52.4	124	30.1	61.2	133	24.4	35.9
2225	39Z69	HX1/LL/RR2	DuPont Pioneer	154	23.3	53.2	102	19.5	53.5	116	23.6	51.8
2225	P7632AM	YGCB/HX1/LL/RR2	DuPont Pioneer	200	24.0	51.7	133	20.7	50.5	115	24.6	49.2
2250	E48A29 R	VT3PRIB	BrettYoung	222	26.1	51.4	105	21.4	52.0	133	24.8	49.8
2250	39D97	HX1/LL/RR2	DuPont Pioneer	190	24.2	52.8	106	24.5	51.2	100	25.3	50.3
2250	39V05	RR2	DuPont Pioneer	188	23.1	53.6	108	18.1	52.2	91	23.8	51.1
2250	3075	RR	Hyland Seeds	173	25.3	52.4	111	25.1	51.7	133	22.6	49.7
2250	3085	RR	Hyland Seeds	214	23.9	53.4	132	22.8	52.4	121	27.3	45.9
2250	MZ 1710DBR	GENVT2PRIB	Maizex Seeds Inc.	214	25.8	52.3	140	29.8	52.2	123	27.3	48.7
2250	PS 2305VT3P RIB	GENVT3PRIB	PICKSEED	190	24.6	52.0	98	21.3	53.2	101	21.8	53.0
2250	PS SilEx VT3P RIB	GENVT3PRIB	PICKSEED	196	26.8	55.2	138	26.9	54.4	—	—	—
2250	N07H	GT/CB/LL	Syngenta Canada Inc.	208	23.0	52.8	132	20.5	51.7	117	27.5	46.7
2275	P7958AM	YGCB/HX1/LL/RR2	DuPont Pioneer	238	25.9	50.6	141	23.6	51.7	132	26.1	48.0
2275	G Caliber	GT	Fraser Seeds	194	28.3	49.2	139	28.4	50.5	—	—	—
2275	BAXXOS RR	RR	Hyland Seeds	200	26.2	53.9	123	28.3	53.9	93	29.6	50.9
2275	PS 2348VT2P RIB	GENVT2PRIB	PICKSEED	208	26.0	51.4	112	26.4	52.4	—	—	—
2290	HZ 675	Agrisure GTCBLL	Horizon Seeds	—	—	—	—	—	—	118	29.7	47.9
2300	E53B22 R	VT2PRIB	BrettYoung	230	26.0	52.4	139	29.5	52.1	—	—	—
2300	E49A12R	VT2PRIB	BrettYoung	227	24.5	52.9	125	28.6	52.4	131	25.8	49.5
2300	39V07	HX1/LL/RR2	DuPont Pioneer	194	24.7	52.3	100	20.7	50.6	—	—	—
2300	G 14T	3000GT	Fraser Seeds	224	29.1	49.4	144	31.4	55.6	—	—	—
2300	3093	RR	Hyland Seeds	199	25.9	51.5	126	21.2	54.1	111	26.2	49.9
2300	4093	HXT/LL/RR	Hyland Seeds	209	26.3	51.3	140	27.5	58.7	121	25.7	49.7
2300	A4631G2 RIB	VT2PRIB	PRIDE Seeds	212	25.7	51.3	117	25.6	52.3	115	25.9	49.4
2300	N09V	GT/CB/LL	Syngenta Canada Inc.	206	25.6	52.1	137	22.2	53.8	118	22.8	50.7

CHU ¹	Hybrid	Genetic Traits ²	Distributor	Carman			Morden			MacGregor		
				Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)
2325	DKC 30-07	VT2PRIB	DEKALB	204	25.1	52.6	137	28.5	51.3	124	22.9	51.8
2350	A4881G2 RIB	VT2PRIB	PRIDE Seeds	207	27.8	51.3	134	22.9	53.1	106	27.5	47.5
2350	A4939G2 RIB	VT2PRIB	PRIDE Seeds	233	25.1	51.9	138	24.5	51.9	129	26.1	47.0
2375	HZ 730GT	Agrisure GT	Horizon Seeds	—	—	—	—	—	—	126	26.9	47.8
2375	XP5095	VT2PRIB	PRIDE Seeds	226	27.4	51.6	148	31.9	52.3	—	—	—
2400	DKC 31-10	VT2PRIB	DEKALB	215	25.7	47.6	119	27.6	50.2	126	25.3	47.4
2400	8105	SmartStax	Hyland Seeds	218	26.1	51.8	139	33.1	52.1	115	26.1	47.1
2400	A5151G2 RIB	VT2PRIB	PRIDE Seeds	214	28.2	50.5	154	25.1	51.8	—	—	—
2425	P8210R	RR2	DuPont Pioneer	173	25.6	50.5	137	22.3	50.6	131	—	47.3
2475	P8210HR	HX1/LL/RR2	DuPont Pioneer	219	27.1	51.7	131	23.5	50.9	126	25.5	48.0
2500	4164	Agrisure3122	Hyland Seeds	230	25.1	51.6	143	32.3	50.2	125	31.1	46.7
2525	8166	SmartStax	Hyland Seeds	228	26.9	51.3	158	33.0	51.4	115	30.2	46.7
2550	P8651HR	HX1/LL/RR2	DuPont Pioneer	227	29.5	51.7	157	29.4	51.3	—	—	—
2550	P8673AM	YGCB/HX1/LL/RR2	DuPont Pioneer	240	29.1	50.7	149	31.8	49.5	123	29.0	47.2
2575	P8581R	RR2	DuPont Pioneer	215	30.6	47.5	146	31.5	49.3	—	—	—
2600	P8622AM	YGCB/HX1/LL/RR2	DuPont Pioneer	206	30.2	50.4	95	27.7	48.6	136	31.7	47.4
Site Average				202	25.7	52.0	124	24.8	52.5	117	25.2	49.4
CV%				9.1	5.9	2.4	10.9	9.3	6.8	9.6	8.5	8.6
Sign Diff				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LSD (0.05)				30	2.5	2.0	21.8	3.7	5.7	18	3.5	6.9
Planting Date				23-May			17-May			28-May		
Harvest Date				21-Oct			13-Oct			27-Oct		

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

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.

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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 2015 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	2014 Average Yield	2014 Yield: % of CRS-1			
				Arborg	Carberry	Melita	Roblin
Alyssa	82	13	—	—	—	—	—
Anka	81	10	—	—	—	—	—
Canda	111	17	95	89	96	95	100
CanMa	88	3	—	—	—	—	—
CFX-1	93	17	88	85	94	80	93
CFX-2	94	16	95	96	85	82	112
CRS-1	100	20	100	100	100	100	100
Delores	97	18	95	84	88	91	110
Finola	58	15	54	53	38	66	58
Joey	120	12	132	129	126	112	153
Jutta	94	8	—	—	—	—	—
Silesia	75	10	91	86	99	94	86
X59	103	11	105	102	104	99	113
Varieties that are being evaluated for approval							
Debbie	94	10	95	99	86	96	97
CHECK CHARACTERISTICS			CRS-1 (lb/acre)	1117	1128	1229	1491
CRS-1	1359	20	CV%	10.0	12.1	10.8	11.0
	lb/acre	site years	LSD%	14	18	19	16
			Sign Diff	Yes	Yes	Yes	Yes
			Seeding Date	26-May	16-May	22-May	28-May
			Harvest Date	25-Sep	12-Sep	25-Sep	16-Sep

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*Some restrictions apply.

Distributor Contacts for Varieties in Seed Manitoba 2015

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

CANARY SEED

Cantate	Hansen Seeds
CDC Bastia	Crop Development Center
CDC Maria	Public
CDC Togo	CANTERRA SEEDS
Keet	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.
Joey	Parkland Industrial Hemp Growers Coop Ltd.
Jutta	Ontario Hemp Alliance
Silesia	Alberta Innovates Technology Futures
X59	Terramax

DISTRIBUTOR

PHONE NUMBER

Alberta Innovates Technology Futures	1-780-632-8436
CANTERRA SEEDS	1-877-439-7333
Crop Development Center	1-306-966-5855
Delmar Commodities (Legend Seeds)	1-204-331-3696
DLF Pickseed Canada Inc. (PICKSEED)	1-204-633-0088
DuPont Pioneer (Pioneer)	1-800-265-9435
Durand Seeds	1-204-248-2268
Elite (BrettYoung)	1-800-665-5015
Fisher Seeds Ltd.	1-204-622-8800
Fraser Seeds (Greenfield Genetics)	1-604-929-7371
Hansen Seeds	1-306-465-2525
Hemp Genetics International Inc.	1-604-607-4953
Hemp Oil Canada Inc.	1-800-289-4367
Horizon Seeds Canada	1-855-983-7255
Hyland Seeds	1-800-265-7403
Maizex Seeds Inc.	1-877-682-1720
Mancan Genetics Ltd.	1-204-822-4396
Monsanto Canada Inc. (DEKALB)	1-800-667-4944
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
Quarry Seed (Thunder Seed Inc.)	1-888-274-9243
SeCan	1-800-665-7333
Springfield Mills Inc.	1-204-362-1524
Syngenta Canada Inc.	1-888-756-7333
Terramax	1-306-699-7368

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Growers List



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

AC MANISOBA

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

MANCAN

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

CANARYSEED

CDC CALVI

Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S F
Winnipeg; Canterra Seeds Ltd. 204-988-9750 F

INDUSTRIAL HEMP

CANDA

Dauphin; Parkland Industrial Hemp Growers 204-629-4367 F C

INDUSTRIAL HEMP

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

CFX-2

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

CRS-1

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

DELORES

Dauphin; Parkland Industrial Hemp Growers 204-629-4367 F R

FINOLA☼

Ste. Agathe; Hemp Oil Canada Inc 204-882-2480 C

HEMPNUT

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

JOEY

Dauphin; Parkland Industrial Hemp Growers 204-629-4367 R

USO 14

Carberry; Robinson, Chris T. 204 834-2620 C

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– Aristotle



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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 or a variety where protection has been applied for but not yet granted at time of printing.

*Seed sources can be found at the back of the forage section

Key to 2014 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.

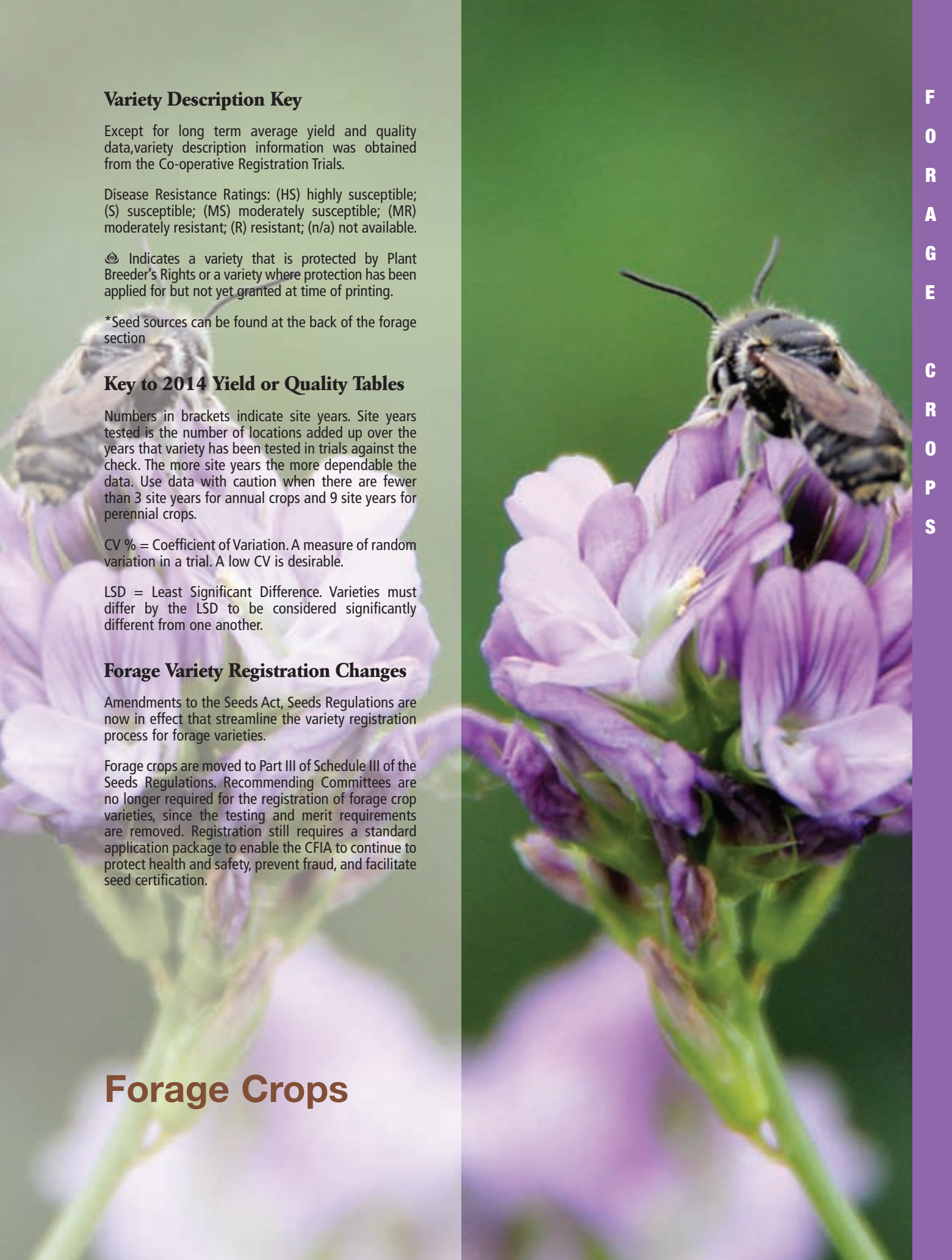
LSD = Least Significant Difference. Varieties must differ by the LSD to be considered significantly different from one another.

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.

Forage Crops





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FORAGE CULTIVAR EVALUATION

The Manitoba Forage and Grassland Association coordinates the Manitoba sites within the Western Canadian Forage Variety Testing Program (West Test). Management of the program is through an industry team approach. Producers, seed trade, extension and researchers are involved in the forage evaluation management committee.

The perennial forage cultivar evaluation is coordinated with similar programs in Saskatchewan and Alberta, allowing for sharing of test data. The

annual forage testing is coordinated with other testing facilities and producer organizations. The testing sites are Arborg, Carberry, Melita, Rosebank (formerly Neepawa), Roblin and St. Adolphe (formerly St. Pierre Jolys). Cooperation and support from program partners have allowed the efficient operation of testing in 2014.

The objective of the evaluation program is to provide information to Manitoba's forage producers and industry partners on the performance of annual and perennial forage cultivars under

Manitoba conditions. The program measures dry matter yields of perennials under a three-cut system over three production years and annuals under a one-cut system over three years. The program has also developed test procedures to evaluate persistence, winter-hardiness and grazing tolerance.

The Manitoba Forage and Grassland Association publishes results from West Test, and Manitoba Agriculture, Food and Rural Development compiles data for **Seed Manitoba**.

Support for Western Canadian Forage Variety Testing Program was obtained from various sectors of the agricultural industry. In appreciation of their partnership in this program, the following sponsors are acknowledged:

Manitoba Agriculture, Food and Rural Development
Agricultural Sustainability Initiative
Green Cover Program – Agriculture and Agri-Food Canada
The Western Canadian Forage Variety Testing System

Crop Production Services Canada
Manitoba Forage and Grassland Association
Manitoba Forage Seed Association
Parkland Crop Diversification Foundation
Prairies East Sustainable Agricultural Initiative
S.S. Johnson Seeds
Manitoba Corn Growers Association

Westman Agricultural Diversification Organization
Crop Diversification Center - University of Saskatchewan with funding from Saskatchewan Pulse Growers and Saskatchewan Agriculture and Food Canada Manitoba Crop Diversification Centre

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	Widely adapted to most Manitoba soils but will not tolerate areas that have periodic flooding.
Alsike Clover	Hay & Pasture	Short	Fair	Poor	Moderate	Low	Prefers low-lying moist areas.
Birdsfoot Trefoil	Pasture	Long	Good	Moderate	High	Low to Moderate	Prefers moist areas.
Cicer Milkvetch	Pasture	Long	Good	Moderate to High	Low	Moderate	Widely adapted but exhibits its creeping habit best on more coarse textured soils.
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 & Silage	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 Wheatgrass	Hay & Pasture	Long	Excellent	Moderate to High	Low	Low to Moderate	Adapted to dry areas with good soils but will also establish on lighter soils.
Dahurian Wild Ryegrass	Pasture	Short	Good	Moderate	Low	High	Adapted to all soil zones.
Intermediate Wheatgrass	Hay & Pasture	Short to Medium	Good	Moderate to High	Low	Low	Well drained soils with ample moisture.

FORAGE ADAPTATION & COMPARISON GUIDE — 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 2-3 years	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	3-5 years	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. Elm Creek was planted May 15, 2014 and harvested September 26, 2014.

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	Genetic Traits ²	Distributor	Elm Creek						
				Yield (Mt/ac)	Moisture ³ (%)	TDN (%)	ADF (%)	NDF (%)	Milk/Acre ⁴ (lbs/ac)	Beef/Acre ⁵ (lbs/ac)
2050	P7332R	RR2	DuPont Pioneer	5.9	57.1	73.7	23.3	41.6	13,920	1,606
2100	P7410HR	HX1/LL/RR2	DuPont Pioneer	5.5	58.2	69.3	27.5	48.1	14,474	1,402
2100	P7443R	RR2	DuPont Pioneer	6.6	48.7	71.5	25.4	44.2	15,072	1,716
2100	PS 2263VT2P RIB	GENVT2PRIB	PICKSEED	6.6	56.7	77.7	19.6	37.5	16,136	1,880
2125	DKC 26-25	RR	DEKALB	4.3	59.8	70.1	26.7	47.0	10,374	1,115
2125	A4176BTRR	BT/RR	PRIDE Seeds	5.8	64.2	73.5	23.6	42.6	14,775	1,562
2150	YUKON R	RR	BrettYoung	7.1	66.6	72.5	24.5	43.7	17,989	1,876
2150	DKC 26-28	VT2PRIB	DEKALB	6.0	51.7	74.1	23.0	41.0	13,897	1,641
2200	E47A17 R	RR	BrettYoung	8.0	61.0	75.8	21.3	39.7	18,962	2,214
2200	FUSION RR	RR	BrettYoung	7.3	68.6	70.8	26.0	46.4	17,891	1,901
2200	DKC 27-55	VT2PRIB	DEKALB	7.0	61.6	68.4	28.3	49.3	16,573	1,761
2200	LR 9376RR	RR	Delmar Commodities	6.0	68.2	70.3	26.5	47.7	16,031	1,540
2200	MZ 1633DBR	GENVT2PRIB	Maizex Seeds Inc.	6.6	65.9	73.9	23.2	42.5	16,278	1,779
2225	P7632AM	YGCB/HX1/LL/RR2	DuPont Pioneer	6.5	62.7	70.3	26.5	47.8	16,624	1,678
2225	PS2304RR	RR2	PICKSEED	5.8	53.8	71.9	25.1	43.5	13,412	1,539
2250	39V05	RR2	DuPont Pioneer	5.6	62.3	71.7	25.2	44.3	13,848	1,472
2250	3085	RR	Hyland Seeds	6.9	63.7	73.1	23.9	43.6	17,408	1,854
2250	TH 8781	RR2	Thunder Seed	7.3	67.1	69.6	27.2	49.1	17,890	1,866
2250	39D97	RR2	DuPont Pioneer	6.9	61.6	69.3	27.5	48.0	17,684	1,756
2275	P7958AM	YGCB/HX1/LL/RR2	DuPont Pioneer	8.0	63.4	71.4	25.5	45.7	20,022	2,081
2275	BAXXOS RR	RR	Hyland Seeds	6.2	65.7	72.0	25.0	45.1	15,464	1,622
2300	E53B22 R	VT2PRIB	BrettYoung	7.7	65.5	72.8	24.2	43.8	19,000	2,056
2300	E49A12 R	VT2PRIB	BrettYoung	6.4	67.3	72.4	24.6	43.5	15,396	1,698
2300	3093	RR	Hyland Seeds	7.4	59.7	75.3	21.9	40.1	19,091	2,029
2300	LF 728R	RR	Maizex Seeds Inc.	8.1	66.0	74.0	23.1	43.3	20,490	2,202
2300	TH 2146	RR2	Thunder Seed	8.9	66.1	71.1	25.8	46.8	22,705	2,323
2325	DKC 30-07	VT2PRIB	DEKALB	7.1	62.5	69.7	27.1	47.9	16,482	1,806
2325	A4705HMRR	RR	PRIDE Seeds	6.8	66.9	70.6	26.3	45.5	16,699	1,767
2350	HL R219	RR	Hyland Seeds	9.2	59.7	71.5	25.4	45.9	21,948	2,415
2350	LF 755RR	RR	Maizex Seeds Inc.	7.7	68.7	68.9	27.8	49.2	19,440	1,938
2400	DKC 31-10	VT2PRIB	DEKALB	7.2	65.3	73.9	23.2	43.0	18,443	1,962
2400	HL SR22	RR	Hyland Seeds	7.6	66.9	71.8	25.1	44.9	19,009	1,991
2400	AS1047RR EDF	RR	PRIDE Seeds	8.3	70.4	73.1	24.0	43.7	20,299	2,220
2425	P8210R	RR2	DuPont Pioneer	6.4	59.6	73.3	23.7	43.7	15,869	1,711
2450	E57L62 R	VT2PRIB	BrettYoung	8.2	69.5	73.2	23.9	43.6	21,993	2,210
2500	VENZA R	RR	BrettYoung	8.9	68.4	71.1	25.8	46.1	21,396	2,313
2500	4164	Agrisure3122	Hyland Seeds	8.9	62.4	72.7	24.3	43.4	21,240	2,360
2525	E61P12 R	VT2PRIB	BrettYoung	8.2	67.3	74.3	22.8	41.6	20,365	2,245
2550	P8651HR	HX1/LL/RR2	DuPont Pioneer	7.2	67.3	70.6	26.3	46.8	18,585	1,855
2550	P8673AM	YGCB/HX1/LL/RR2	DuPont Pioneer	7.8	66.8	69.5	27.3	48.2	19,102	1,998
2575	P8581R	RR2	DuPont Pioneer	7.4	70.5	70.5	26.4	45.6	17,371	1,899
2600	P8622AM	YGCB/HX1/LL/RR2	DuPont Pioneer	6.6	64.9	71.0	25.9	46.5	17,509	1,715
2650	HL SR35	RR	Hyland Seeds	8.1	73.3	67.5	29.2	51.3	18,021	1,999
2650	HLS 4302	HX1/LL/RR	Hyland Seeds	9.0	70.4	69.0	27.8	49.5	21,177	2,284
Site Average				7.1	63.9	71.8	25.1	45.0	17,546	1,874
CV (%)				12.5	6.2	4.6	12.3	10.3	—	—
Sign Diff				Yes	Yes	Yes	Yes	Yes	—	—
LSD				1.4	6.5	5.4	5.0	7.5	—	—

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 2015 pages 21.

Field pea variety information can be found on page 98.

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			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				
	% of Virden	% of Ranger	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	9.6	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)
Virden (6F)	100 (28)	99 (13)	100 (7)	100 (7)	100 (4)	100 (3)	100 (3)		103	10.4	63	910	(3)
Xena (2)	— —	101 (16)	92 (4)	110 (4)	— —	100 (4)	101 (4)		120	9.5	63	1064	(4)
Hulless													
Falcon (6)	102 (2)	— —	102 (1)	— —	— —	— —	— —		—	—	—	—	—
Variety	Manitoba Mean ¹		Yield at Test Sites % of check ¹						Forage Quality ²				
	% of Triple Crown		Arborg	Boissevain/Melita	Hamiota/Minnedosa	Rosebank	Roblin		RFV (%)	CP (%)	TDN (%)	Beef ³ (lbs/ac)	Site Years
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)

Variety	Manitoba Mean ¹ % of Banjo		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		
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)
Variety	Manitoba Mean ¹ (% of check)		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		
FOXTAIL MILLET														
Yellow (Golden German)	100	(9)	100	(1)	100	(3)	—	—	100	(2)	100	(3)	85	9.4 59 828 (3)
Red (Siberian)	93	(9)	78	(1)	90	(3)	—	—	99	(2)	105	(3)	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)	100	(3)	99	10.2 61 823 (3)
Red (Cerise)	101	(10)	91	(1)	109	(3)	—	—	93	(3)	112	(3)	98	10.4 61 862 (3)
Yellow (AC Prairie Gold)	102	(10)	95	(1)	100	(3)	—	—	91	(3)	121	(3)	99	10.5 61 836 (3)
Check - Crown average DM yield 4639 lb/ac (5195 kg/ha) over 10 site years.														
CHECK VARIETIES														
	Viriden	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.

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	—	—	—	—	—	R	HR	—	Tap rooted	17
AC Totem	—	—	—	—	—	R	HR	HR		17
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	—	—	—	2.0	—	MR	R	—		9
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	—	—	—	—	—	—	—	—	Salt tolerance	—
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 Comparisons

Variety	% Manitoba Mean ⁸			Manitoba Mean % of Beaver	Yield at test sites % of Beaver			
	1st Cut	2nd Cut	3rd Cut		Arborg	Carberry ⁹	Neepawa-Rosebank ¹⁰	St. Adolphe-St. Pierre ¹¹
53Q60	92 (6)	103 (6)	— —	97 (6)	— —	— —	96 (3)	98 (3)
54Q25	97 (8)	104 (6)	87 (1)	96 (8)	101 (3)	— —	84 (3)	104 (2)
54V46	95 (9)	107 (8)	106 (4)	100 (9)	98 (3)	— —	102 (3)	99 (3)
54V54	97 (9)	104 (7)	— —	102 (9)	102 (3)	— —	103 (3)	100 (3)
Able	94 (2)	106 (2)	— —	97 (2)	— —	— —	97 (2)	— —
AC Blue J	97 (70)	107 (63)	112 (21)	101 75	98 (24)	98 (4)	101 (26)	100 (20)
AC Grazeland Br ☼	97 (9)	107 (9)	110 (4)	99 (9)	97 (3)	— —	96 (3)	104 (3)
AC Longview	98 (17)	101 -16	114 (9)	98 17	101 (8)	— —	95 (3)	98 (6)
AC Manitou	— —	— —	— —	— —	— —	108 (4)	— —	— —
AC Totem	— —	— —	— —	— —	— —	103 (4)	— —	— —
Algonquin	102 (28)	106 (27)	126 (19)	103 (28)	108 (12)	— —	97 (8)	98 (5)
AmeriStand 201+Z	100 (6)	98 (6)	115 (1)	99 (12)	— —	— —	100 (9)	95 (3)
Apica	101 (18)	102 (17)	147 (14)	106 (18)	104 (6)	— —	114 (3)	— —
AT05	— —	— —	— —	— —	— —	101 (4)	— —	— —
Beaver	100 (142)	100 (133)	100 (56)	100 150	100 (49)	100 (4)	100 (48)	100 (35)
Equinox	94 (7)	94 (7)	109 (2)	100 (13)	95 (2)	— —	104 (9)	99 (2)
Forerunner	125 (5)	119 (5)	154 (1)	117 (5)	127 (2)	— —	108 (3)	— —
Gala	94 (10)	110 (10)	163 (10)	104 (10)	100 (7)	— —	—	109 (2)
Halo	— —	— —	— —	107 (1)	— —	— —	107 (1)	— —
Heinrichs	100 (37)	98 (37)	119 (27)	98 (37)	96 (15)	— —	103 (8)	95 (5)
LRC07 4151L	— —	— —	— —	— —	— —	102 (4)	— —	— —
Matrix	92 (9)	101 (8)	108 (1)	95 (9)	95 (3)	— —	85 (3)	104 (3)
Multi5301	100 (8)	101 (8)	—	100 (8)	—	— —	97 (5)	104 (3)
Pickseed 2065MF	97 (9)	108 (8)	129 (1)	100 (9)	97 (3)	— —	92 (3)	110 (3)
Pickseed 3006	95 (9)	99 (9)	112 (4)	95 (9)	91 (3)	— —	94 (3)	101 (3)
Rambler	99 (131)	93 (122)	68 (44)	94 (139)	98 (44)	94 (4)	96 (46)	92 (32)
Rangelander	98 (75)	92 (68)	75 (24)	94 (81)	99 (27)	90 (4)	96 (26)	94 (19)
Runner	95 (8)	102 (8)	91 (5)	101 (8)	110 (2)	— —	100 (2)	— —
SC A101	— —	— —	— —	— —	— —	103 (4)	— —	— —
Spredor 4	97 (12)	101 (6)	— —	102 (12)	— —	— —	104 (9)	96 (3)
Spyder	96 (8)	94 (8)	98 (3)	95 (8)	105 (3)	— —	94 (3)	86 (2)
Starbuck	92 (9)	96 (9)	97 (1)	93 (9)	99 (3)	— —	83 (2)	97 (3)
Stealth SF	107 (8)	111 (8)	96 (3)	119 (8)	107 (3)	— —	121 (3)	100 (2)
Survivor	95 (9)	108 (7)	129 (4)	99 (9)	87 (3)	— —	102 (3)	109 (3)
Tophand	97 (9)	111 (7)	—	102 (9)	99 (3)	— —	105 (3)	102 (3)
Trident II	105 (12)	108 (11)	152 (3)	106 (12)	109 (4)	— —	105 (8)	— —
Ultra	125 (5)	116 (5)	125 (1)	115 (5)	122 (2)	— —	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-accurate 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 (5321 kg/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	2
Baridana	—	—	P,H	Late		17
Early Arctic	99	(5)	P,H	Medium	Winter Hardiness - E	7
Kay	100	(53)	P,H	Late	Winter Hardiness - G	9
Killarney	—	—	—			17
Kootaney	—	—	—			9
Okay	—	—	H,P	Very Late	Winter Hardiness - VG	11
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	9
Marathon	—	—	P,H	Medium	Low alkaloid	7, 17
Rival	100	(21)	P,H		Low alkaloid	2
Vantage	112	(21)	P,H	Early	Low alkaloid	10
Venture	108	(21)	P,H	Very Early	Low alkaloid	7
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	7
Kokanee	96	(9)	P,H		Winter Hardiness - G	2
Maximize	92	(7)	P,H	Late		9
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.

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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
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Beausejour; Bangert Farms Ltd.; Box 5228, RR 1; R0E 0C0204-268-1268
Beausejour; Crop Production Services (Canada) Inc.-Beausejour; Box 1789;
R0E 0C0204-268-3497
Beausejour; Delmar Commodities Ltd.-Beausejour; Box 1236;
R0E 0C0204-268-9797
Benito; Crop Production Services (Canada) Inc.-Benito; Box 265;
R0L 0C0204-539-2255
Binscarth; Cochrane Seeds; Box 272; R0J 0G0204-532-2005
Binscarth; Inland Seed Corp.; Box 218; R0J 0G0204-683-2316
Binscarth; Paterson Grain, Division of Paterson GlobalFoods ; 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; Crop Production Services (Canada) Inc.-Boissevain; Box 1327; R0K
0E0204-534-7246
Boissevain; Double Diamond Farm Supply - Boissevain; Box 776;
R0K 0E0204-534-2427
Boissevain; Martens, Ben and John; Box 374; R0K 0E0204-534-6952
Boissevain; West-Gro Seeds Service Ltd.; Box 1060; R0K 0E0204-534-6692
Brandon; A.E. McKenzie Co. ULC; 1000 Parker Blvd; R7A 6E1204-571-7525
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 - Brandon; Site 30, Box 53, RR 2;
R7A 5Y2204-727-5353
Brandon; Westman Aerial Spray (1994) Ltd.; Site 50, Box 56, RR 5;
R7A 5Y5204-763-8998
Brandon; Wheat City Seeds Ltd.; Box 74 Site 30 RR 2; R7A 5Y2204-727-3337
Brunkild; MK Agro Ltd.; Box 80; R0G 0E0204-736-4769
Brunkild; Richardson Pioneer - Mollard; Box 128; R0G 0E0204-736-5000
Carberry; Chris Robinson; Box 789; R0K 0H0204-834-2620
Carberry; Crop Production Services (Canada) Inc.-Carberry; Box 9;
R0K 0H0204-834-2180
Carman; Bud McKnight Seeds Ltd.; Box 309; R0G 0J0204-745-2310
Carman; Krahn Agri Farms Ltd.; Box 585; R0G 0J0204-745-1938
Carman; Monsanto Canada Inc. - Carman; P.O. Box 2010;
R0G 0J0204-745-3283
Carman; RJP Seed Ltd.; P.O. Box 2239; R0G 0J0204-745-0088
Carman; Ronlin Farms Ltd.; Box 1164; R0G 0J0204-745-3415
Carman; Ulrich & Monika Menold Ltd.; Box 238, RR 3; R0G 0J0204-745-2822

REGISTERED SEED MERCHANTS

Cartwright; Crop Production Services (Canada) Inc.-Cartwright;
PO Box 311; R0K 0L0204-529-2674
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 0N0204-873-2248
Darlingford; Crop Production Services (Canada) Inc.-Darlingford;
Box 102; R0G 0L0204-246-2500
Darlingford; Dudgeon's Upper Lye Seeds; Box 10; R0G 0L0204-246-2357
Darlingford; Wilson Seeds Ltd.; RR 1; R0G 0L0204-246-2119
Dauphin; Bonnie Banks Seed Farm; RR 4; R7N 2T7204-638-5369
Dauphin; Dauphin Plains Seed Ltd.; Box 448; R7N 2V3204-638-7800
Dauphin; Fisher Seeds Ltd.; RR 5 - Compartment 111; R7N 2T8204-622-8800
Dauphin; Richardson Pioneer - Dauphin; Box 554; R7N 2V4204-622-6030
Dauphin; Ritchie Seeds; RR 4, Comp 6; R7N 2T7204-638-7543
Decker; Murray Farms Inc.; Box 4; R0M 0K0204-764-2733
Deloraine; Bolduc & Bell Farms; Box 482; R0M 0M0204-747-2913
Deloraine; Crop Production Services (Canada) Inc.-Deloraine;
Box 760; R0M 0M0204-747-2877
Domain; Manness Seeds; Box 58; R0G 0M0204-736-2622
Domain; Pitura Seed Service; Box 2; R0G 0M0204-736-2849
Domain; Shanawan Farms Ltd.; Box 1; R0G 0M0204-736-2951
Dufrost; Catellier Seed Service Inc.; Box 25; R0A 0K0204-347-5588
Dufrost; Crop Production Services (Canada) Inc.-Dufrost;
Box 26; R0A 0K0204-347-5988
Dunrea; Crop Production Services (Canada) Inc.-Dunrea;
Box 6; R0K 0S0204-776-2051
East Selkirk; Kuzminski Seed Farm; Box 8, Grp 35, RR 1;
R0E 0M0204-482-5475
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 0N0204-759-2213
Fannystelle; Crop Production Services (Canada) Inc.-Fannystelle;
Box 116; R0G 0P0204-436-2075
Fannystelle; Nadeau Seeds Inc.; Box 40; R0G 0P0204-436-2469

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Fisher Branch; Crop Production Services (Canada) Inc.-Fisher Branch; Box 72; R0C 0Z0	204-372-6600
Fisher Branch; George & Harvey Danelak; Box 308; R0C 0Z0	204-372-6236
Fisher Branch; Interlake Agri Ltd.; Box 190; R0C 0Z0	204-372-6720
Fisher Branch; Interlake Forage Seeds Ltd.; Box 328; R0C 0Z0	204-372-6920
Fork River; Crop Production Services (Canada) Inc.-Fork River; PO Box 145; R0L 0V0	204-657-2366
Forrest; Crop Production Services (Canada) Inc.-Brandon North; Box 43; R0K 0W0	204-727-6669
Foxwarren; George Graham Seed Farms; Box 193; R0J 0R0	204-847-2000
Foxwarren; Hamilton Seeds; Box 43; R0J 0R0	204-683-2496
Foxwarren; West-Fox Farms; Box 97; R0J 0R0	204-683-2247
Franklin; Crop Production Services (Canada) Inc.-Franklin; Box 25; R0J 0S0	204-476-2668
Gilbert Plains; Crop Production Services (Canada) Inc.-Gilbert Plains; PO Box 667; R0L 0X0	204-548-2281
Gilbert Plains; T & S Seeds; RR 3; R0L 0X0	204-548-2805
Gladstone; Crop Production Services (Canada) Inc.-Gladstone; Box 67; R0J 0T0	204-385-2349
Gladstone; Delmar Commodities - Gladstone; Box 480; R0J 0T0	204-331-3696
Gladstone; Milne Farms Ltd.; Box 258; R0J 0T0	204-385-2486
Gladstone; Neepawa-Gladstone Coop; Box 536; R0J 0T0	204-385-2906
Glenboro; Crop Production Services (Canada) Inc.-Glenboro; Box 640; R0K 0X0	204-827-2842
Glenboro; Jefferies Seeds; Box 582; R0K 0X0	204-827-2102
Glenlea; Bartmanovich Bros.; Box 6; R0G 0S0	204-736-4638
Grandview; Elliott Ag Ventures; Box 283; R0L 0Y0	204-546-3075
Grandview; Triple "S" Seeds Ltd.; RR 4; R0L 0Y0	204-546-2590
Gretna; Crop Production Services (Canada) Inc.-Gretna ; Box 429; R0G 0V0	204-327-5343
Griswold; Crop Production Services (Canada) Inc.-Griswold; Box 128; R0M 0S0	204-855-2218
Grosse Isle; Crop Production Services (Canada) Inc.-Grosse Isle; Box 160; R0C 1G0	204-467-8026
Grosse Isle; Rutherford Farms Ltd.; Box 100; R0C 1G0	204-467-5613
Hamiota; Chappell Ag Ventures Inc.; Box 628; R0M 0T0	204-764-2844
Hamiota; Crop Production Services (Canada) Inc.-Hamiota; Box 460; R0M 0T0	204-764-2111
Hamiota; Knight Seeds; Box 306; R0M 0T0	204-764-2450
Hargrave; Crop Production Services (Canada) Inc.-Hargrave; 213 Railway Ave.; R0M 0W0	204-748-1126
Hazelridge; Andrew Saramaga; Box 100; R0E 0Y0	204-755-2817
Hazelridge; Robert and Andrew Saramaga; Box 100; R0E 0Y0	204-755-2817
Holland; Crop Production Services (Canada) Inc.-Holland; Box 9; R0G 0X0	204-723-2423
Holland; Marginets Farm; P.O Box 45; R0G 0X0	204-526-2544
Holland; Zeghers Seed Inc.; Box 426; R0G 0X0	204-526-2145
Homewood; Agassiz Seed Farm Ltd.; Box 54; R0G 0Y0	204-745-2868
Homewood; Pembina Consumers Coop (2000) Ltd - Homewood Agro; Box 26; R0G 0Y0	204-745-6421
Inglis; Jackson Seeds Ltd.; Box 142; R0J 0X0	204-564-2293
Kenton; Robert H. Stevenson Ltd.; Box 206; R0M 0Z0	204-838-2012
Kenville; Carmichael Seed Farm; Box 68; R0L 0Z0	204-734-3913
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, Division of Paterson GlobalFoods; Box 1230; R0K 1G0	204-523-8936
Killarney; Richardson Pioneer - Killarney; Box 98; R0K 1G0	204-523-7035
Killarney; Shur-Gro Farm Services Ltd. - Killarney; Box 1139; R0K 1G0	204-523-5400
Landmark; Gehrre Farms; Box 3, RR 1; R0A 0X0	204-355-7588
Landmark; Richardson Pioneer - Landmark; 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 - Red River South; Box 270; R0G 1C0	204-737-2096
Letellier; Seed-Ex Inc.; Box 238; R0G 1C0	204-737-2000
Lowe Farm; Crop Production Services (Canada) Inc.-Kane AG Retail; 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

REGISTERED SEED MERCHANTS

Marquette; Ag Advantage Ltd.; Box 5, Grp 40; R0H 0V0	204-322-5351
Marquette; Marquette Consumers Co-operative Limited; PO Box 211; R0H 0V0	204-375-6570
Marquette; Paul Friesen; Box 16, Grp 40; R0H 0V0	204-322-5773
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 Ag Horizons - Elva; Box 148; R0M 1L0	204-522-3221
Melita; Paterson Grain, Division of Paterson GlobalFoods ; Box 698; R0M 1L0	204-522-3472
Miami; Crop Production Services (Canada) Inc.-Miami; Box 176; R0G 1H0	204-435-2223
Miami; Elias Seeds; Mod. 1 Comp 5, RR 2; R0G 1H0	204-745-3301
Miniota; Walker's Seed Service; Box 144; R0M 1M0	204-567-3647
Minitonas; Crop Production Services (Canada) Inc.-Minitonas; Box 85; R0L 1G0	204-525-2090
Minnedosa; Cordova Seeds; RR 2; R0J 1E0	204-867-2546
Minnedosa; Gugin Seeds; Box 789; R0J 2E0	204-867-3411
Minto; Fraser Seeds Ltd.; Box 85; R0K 1M0	204-776-2047
Minto; Southern Seed; Box 203; R0K 1M0	204-776-2333
Morden; Legumex Walker Canada Inc. - Elias Site; SW-22-4-5; R6M 1V9	204-829-6629
Morden; Legumex Walker Canada Inc. - Morden; 301 South Railway; R6M 1G7	204-822-6629
Morden; Philip Hildebrand and Norman Hildebrand; Box 276, RR 2; R6M 2A1	204-822-3853
Morris; Horizon Agro; Box 59, RR 1; R0G 1K0	204-746-2026
Morris; Red River Seeds Ltd.; River Lot 346; R0G 1K0	204-712-6170
Neepawa; Northstar Seed Ltd.; Box 2220; R0J 1H0	204-476-5241
Newdale; Warehamdale Seeds Ltd.; Box 56; R0J 1J0	204-849-2029
Niverville; Paterson Grain, Division of Paterson GlobalFoods ; Box 356; R0A 1E0	204-388-6565
Niverville; Prairie Sky Crop Solutions; Box 309; R0A 1E0	204-388-4303
Niverville; South East Seeds; PO Box 642; R0A 1E0	204-371-2898
Notre Dame De Lourde; Durand Seeds Inc.; Box 60; R0G 1M0	204-248-2268
Oak Bluff; Anseeuw Farms Inc.; 53092 Road 7E; R4G 0B6	204-895-8375
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; South East Seeds Inc.; 26150 Cedar Lake Rd.;	204-371-0370
Oakville; Miller Agritec Inc.; Box 83; R0H 0Y0	204-267-2283
Petersfield; Crop Production Services (Canada) Inc.-Petersfield; PO Box 340; R0C 2L0	204-738-2455
Pilot Mound; Cavers Farms Inc.; Box 90; R0G 1P0	204-825-2012
Pilot Mound; Crop Production Services (Canada) Inc.-Pilot Mound; Box 419; R0G 1P0	204-873-2063
Pilot Mound; Double Diamond Farm Supply - Pilot Mound; Box 6; R0G 1P0	204-825-2429
Pilot Mound; John M. Smith; Box 208; R0G 1P0	204-825-2715
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; Crop Production Services (Canada) Inc.-Plum Coulee; Box 71; R0G 1R0	204-829-3810
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 La Prairie; Jamor Farms Ltd.; RR 1, Box 47; R1N 3A1	204-857-8274
Portage La Prairie; JL Agronomics ; 524 6th Avenue NW; R1N 3C9	204-871-0767
Portage La Prairie; Lake Manitoba Seed Co. Ltd.; RR 1, Box 64; R1N 3A1	204-857-8708
Portage La Prairie; New Gen Seed Service Ltd.; RR 4, Box 9; R1N 3A4	204-274-2417
Portage La Prairie; Pugh Seeds Ltd.; RR 4, Box 32; R1N 3A4	204-274-2179
Portage La Prairie; Sanderson, Garry; RR 1, Box 61; R1N 3A1	204-857-8406
Portage La Prairie; Sissons Farms Ltd.; Box 822; R1N 3C3	204-856-9908
Portage la Prairie; Yellow Quill Farms Ltd.; RR 4, Box 47; R1N 3A4	204-252-2411
Rathwell; Crop Production Services (Canada) Inc.-Rathwell; Box 28; R0G 1S0	204-749-2212
Reston; Avondale Seed Farm Ltd.; Box 190; R0M 1X0	204-877-3813
Reston; Crop Production Services (Canada) Inc.-Reston; Box 416; R0M 1X0	204-877-3128
Rivers; Providence Farms; Box 424; R0K 1X0	204-328-7189

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Rivers; Redsper Enterprises Ltd.; Box 579; R0K 1X0.....	204-328-5346
Roblin; Crop Production Services (Canada) Inc.-Roblin; Box 1058;	
R0L 1P0	204-937-4444
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
Rosenort; Friesen Seeds Ltd.; Box 308; R0G 1W0.....	204-746-8325
Rosser; Krym Farms Ltd.; Box 56; R0H 1E0.....	204-467-9081
Rosser; Mei-West Enterprises Inc.; Box 87; R0H 1E0	204-467-5922
Russell; Crop Production Services (Canada) Inc.-Binscarth; Box 327;	
R0J 1W0	204-773-2448
Russell; Keating Seed Farms Inc.; Box 820; R0J 1W0	204-773-3854
Russell; Woroneski's Seed Plant; Box 1328; R0J 1W0	204-773-3262
Sanford; Bergen Seed Farm; Box 205; R0G 2J0	204-736-2278
Shoal Lake; Richardson Pioneer - Shoal Lake; Box 446; R0J 1Z0	204-759-2917
Shoal Lake; Shur-Gro Farm Services Ltd. - Shoal Lake; Box 128;	
R0J 1Z0	204-759-4240
Snowflake; Double Diamond Farm Supply - Snowflake; Box 74;	
R0G 2K0	204-876-4557
Solsgrith; Nickel Bros.; Box 52; R0J 2B0	204-842-3834
Somerset; Sierens Seed Service; Box 35; R0G 2L0	204-744-2883
Somerset; Van Deynze Farms Ltd.; Box 95; R0G 2L0	204-825-7431
Souris; Crop Production Services (Canada) Inc.-Souris East;	
Box 489; R0K 2C0	204-483-3860
Souris; Kohut Seed Farms Ltd.; Box 98; R0K 2C0.....	204-483-3063
Springstein; Wiebe Seeds; Box 82; R0G 2N0	204-735-2750
St. Claude; R-Way Ag Ltd.; Box 388; R0G 1Z0	204-379-2582
St. Jean Baptiste; Crop Production Services (Canada) Inc.-St.Jean Baptiste;	
Box 369; R0G 2B0.....	204-758-3125
St. Joseph; Remillard Seed Farm; Box 45; R0G 2C0.....	204-737-2376
St. Joseph; AGT Foods; PO Box 36; R0G 2C0	204-737-2625
St. Leon; Labossiere, Luc N.; CP 5106; R0G 2E0	204-744-2208
Starbuck; Crop Production Services (Canada) Inc.-Starbuck; Box 179;	
R0G 2P0	204-735-2258
Ste Rose du Lac; S & L Luke Farms Ltd.; Box 426; R0L 1S0	204-447-2547
Ste-Agathe; Crop Production Services (Canada) Inc.-Ste-Agathe;	
Box 68; R0G 1Y0.....	204-882-2567
Ste. Anne; Seine River Seed Farm; Box 6-A, RR 1; R5H 1R1	204-355-4495
Ste. Rose Du Lac; Gagnon Seed Service Ltd.; RR 2; R0L 1S0.....	204-447-2118
Steinbach; Marc Hutlet Seeds Ltd.; Box 3023; R5G 1P4.....	204-422-5805
Stonewall; Quarry Grain Commodities Inc.; Box 1840; R0C 2Z0.....	204-467-8877
Stonewall; Richardson Pioneer - South Lakes; Hwy 7; R0C 2Z0.....	204-694-0825

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Stonewall; Unger Seed Farm Ltd.; Box 471; R0C 2Z0	204-467-8630
Strathclair; Parrish & Heimbecker Ltd. - Glossop; Box 426; R0J 2C0	204-365-5282
Swan River; Crop Production Services (Canada) Inc.-Swan River;	
Box 1589; R0L 1Z0	204-734-6162
Swan River; Oberlin Farms & Seed Service Ltd. ; Box 132; R0L 1Z0	204-734-2292
Swan River; Swan Valley Seeds; Box 2256; R0L 1Z0.....	204-734-2526
Teulon; Kletke Seed Farm Ltd.; Box 23; R0C 3B0	204-886-2822
Teulon; Paterson Grain, Division of Paterson GlobalFoods ;	
Box 865 ; R0C 1H0	204-886-3401
Teulon; Willis Agro Ltd.; Box 1015; R0C 3B0	204-461-0386
Treherne; Stinson Seeds; Box 1; R0G 2V0	204-723-2319
Virde; Clearview Acres Ltd.; Box 1060; R0M 2C0.....	204-748-2666
Warren; Jones Farm Seeds; Box 37; R0C 3E0	204-322-5604
Warren; Riddell Seed Co.; Box 334; R0C 3E0	204-227-5679
Waskada; Shur-Gro Farm Services Ltd. - Waskada; Box 159;	
R0M 2E0	204-673-2445
Wawanesa; Ellis Farm Supplies Ltd.; Box 208; R0K 2G0	204-824-2290
Westbourne; Munro Farm Supplies Ltd. - Westbourne; Box 92;	
R0H 1P0	204-274-3050
Westbourne; Richardson Pioneer - Dundonald; Box 114; R0H 1P0	204-274-2301
Whitemouth; Oldenburg Inc.; Box 147; R0E 2G0.....	204-348-2294
Winkler; Crop Production Services (Canada) Inc.-Winkler;	
RR 1 Box 72; R6W 4A1.....	204-325-6498
Winkler; Delmar Commodities Ltd.; Box 1055; R6W 4B1	204-343-2323
Winkler; Ens Farms Ltd.; Box 218, RR 1, Grp 16; R6W 4A1	204-325-4658
Winkler; Winkler Co-op; Box 1120; R6W 4B2	204-327-6424
Winnipeg; Botanical Paperworks Inc.; 111 Pacific Ave.; R3B 0M1	204-956-7393
Winnipeg; Brett Young; PO Box 99, St. Norbert Postal Stn; R3V 1L5	204-478-2212
Winnipeg; C.M. Agra Ltd.; Box 35, RR 2; R3C 2E6.....	204-633-6010
Winnipeg; DL Seeds Inc.; Box 98 St. Norbert Postal Station;	
R3V 1L5	204-781-8273
Winnipeg; Imperial Seed (1979) Ltd.; 1038 Arlington Street;	
R3E 2G1	204-786-8457
Winnipeg; James Farms Ltd.; Box 16, Grp 620, SS 6; R2C 2Z3	204-222-8785
Winnipeg; Monsanto Canada Inc. - Winnipeg; 900 One Research Road;	
R3T 6E3	204-985-1021
Winnipeg; Parrish & Heimbecker Ltd. - Transcona; Box 199 B, RR 5;	
R2C 2Z2	204-222-7171
Winnipeg; Pickseed Canada Inc. - Winnipeg; Box 4, Grp 200, RR 1;	
R3C 2E6	204-633-0088

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20/20 Seed Labs (Winnipeg) 1357 Dugald Road Winnipeg, Manitoba R2J 0H3	Shari Lafreniere Tel: 1-877-420-2099 Fax: 1-888-900-1810 shari@2020seedlabs.ca	Purity: none. Germination: Crop kinds in Tables I to XI and XVI to XX	None	
Accu-Test Seed Lab Box 579 2nd Ave. E Rivers, Manitoba R0K 1X0	Dorothy Gerrard Tel: (204) 328-5313 Fax: (204) 328-7400 dgerrard@redsper.ca kerickson@redsper.ca	Purity: Crop kinds in Tables I to VII, XI (except orchardgrass), XIV to XX. Germination: Crop kinds in Tables 1 to XI (except orchardgrass), XIII to XX	None	Pulses: Anthracnose, Botrytis Vomitoxin, Ascochyta spp.
BioVision Seed Lab (Winnipeg) B17-1391 St.James Street. Winnipeg, Manitoba R3H 0Z1	Ken Penner Tel: (204) 775-6463 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
BrettYoung (Winnipeg) Box 99, St. Norbert Postal Station Winnipeg, Manitoba R3V 1L5	Harold Murphy Tel: (204) 478-2212 Fax: (204) 275-8397 harold.murphy@brettyoung.ca	Crop kinds in Tables I to XX		
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 Cereals: 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	Crop kinds in Tables I to XX	Barley for True Loose Smut	Cereals: Fusarium. Pulses: Ascochyta, Anthracnose, Botrytus, Sclerotinia Canola: Blackleg, Alternaria, Sclerotinia
Crop Production Service - Nipawin S Box 1630 Nipawin, SK S0E 1E0	Dawn Lungul Tel: (306) 862-4757 Fax: (306) 862-2366 dawn.appenmaier@viterra.ca	Crop kinds in Tables I to VII		
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 and wheat for True Loose Smut;	Flax: Trifid detection Cereals: Vomitoxin, Ochratoxin, fusarium, root rots, Wheat Midge Refuge testing, variety identification (wheat & Barley) Pulses: Ascochyta, Anthracnose, Botrytis, Sclerotinia Canola: Blackleg, Alternaria, Sclerotinia Herbicide tolerance testing in RR Canola and LL Canola and RR Soybeans, clubroot (plant & soil) Clearfield confirm
Lendon Seed Lab 147 Hodsman Road Regina, Saskatchewan S4N 5W5	Tej Prasad Tel: (306) 585-7333 Fax: (306) 585-7337 lendon.seeds@gmail.com	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 pdsl@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 3G6	Shanna Stolhandske-Dale Tel: (306) 741-9309 Fax: (306) 773-4460 seedsolutions@xplornet.com	Purity: none. Germination: Crop kinds in Grade Tables I to VI	Barley for True Loose Smut	
Alberta				
20/20 Seed Labs Inc. (AB) 507-11th Ave Nisku, Alberta T9E 7N5	Carey Matthiessen Tel: (780) 955-3435 Fax: (780) 955-3428 carey@2020seedlabs.ca	Crop kinds in Tables I to XX	Barley for True Loose Smut	Flax: Trifid detection Pulses: Ascochyta spp.
20/20 Seed Labs Inc. (Lethbridge) 3618-6 Avenue North Lethbridge, Alberta T1H 5C4	Sarah Foster Tel: 1-877-420-2099 Fax: 1-888-900-1810 sarah@2020seedlabs.ca	Purity: none. Germination: Crop kinds in Tables I to XI (except orchardgrass), XVI to XX	None	
BioVision Seed Labs 280 Portage Close, Unit 310 Sherwood Park, Alberta T8H 2R6	Terry McIntee Tel: (780) 436-8822 Fax: (866) 589-7051 terry.mcintee@biovision.ca	Crop kinds in Tables I to XI (except orchardgrass), XIII to XX	Barley for True Loose Smut	Flax: Trifid detection CLEARFIELD confirm in wheat & lentils Cereals: Fusarium spp., Root Rot, Fungal Scan. Pulses: Botrytis, Anthracnose, Ascochyta spp. Canola: Blackleg Varietal Identification in barley & wheat
BioVision Seed Labs (Grande Prairie) Suite C, 12803 - 100 St. Grande Prairie, Alberta T8V 4H3	Michele Kulba Tel: (780) 532-8890 Fax: (780) 513-0115 michele.kulba@biovision.ca	Crop kinds in Tables I to XX	None	
Parkland Laboratories 5410 Gaetz Avenue Red Deer, Alberta T4N 4B7	Walter Pitz Tel: (403) 342-0404 Fax: (403)358-3836 waltpitz@telusplanet.net	Purity: Crop kinds in Tables I to VI; Germination: Crop kinds in Tables I to VII	None	Cereals: Fusarium
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 VII, XI (except orchardgrass), XIV to XX. Germination: Crop kinds in Tables I to XI (except orchardgrass) XIII to XX	None	Cereals: Fusarium, Pulses: Ascochyta spp. Canola: Blackleg
Seed Check Technologies Inc. 101, 5906 - 50th Street Leduc, Alberta T9E 0R6	Morgan Webb Tel: (780) 980-8324 Fax: (780) 980-8375 morgan@seedcheck.net	Crop kinds in Tables I to XX	Barley for True Loose Smut	Fusarium, Blackleg, Alternaria, Sclerotinia, Ascochyta, Anthracnose, Botrytis, Root rot, Dome test, Herbicide tolerance, 1000 Seed weight, Vigour, Tetrazolium, Moisture, Clearfield of Lentil.

*Source: Canadian Food Inspection Agency, September 3, 2014

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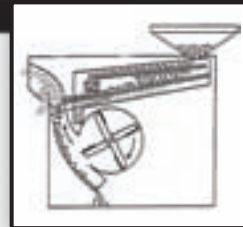
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traits to create an expanded lineup of soybean varieties that are ready to deliver on your farm. Ask your local Pioneer sales representative about the right T Series soybean varieties for your acres or visit pioneer.com/tseries

Our experts are grown locally

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*All comparisons are to untreated unless otherwise stated. **AgCelence benefits refer to products that contain the active ingredient pyraclostrobin.

Always read and follow label directions.

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