

SEED MANITOBA 2014

Variety Selection &
Growers Source Guide

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Correspondence may be addressed to:
Seed Manitoba
c/o Box 1149, Carman, MB R0G 0J0,
Phone: 204-745-5663,
Fax: 204-745-5690.

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The grower's list was prepared by CSGA and includes varieties eligible for sale in Canada and seed crops issued certificates as of October 23, 2013. CSGA assumes no responsibility for errors or omissions. The pedigree class code is listed after the growers' phone number. (S=Select; F=Foundation; R=Registered; and C=Certified.)

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

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Minister's Message



As Minister of Manitoba Agriculture, Food and Rural Development, I applaud the release of the 2014 edition of *Seed Manitoba* and recognize its value in guiding farmers as they make crop variety decisions.

Seed Manitoba 2014 contains the latest disease tolerance to yield information on the current, as well as the up-and-coming varieties for cereals, oilseeds, specialty crops and forages.

This guide is a result of a collaborative effort of those leading in the industry including farmers, the seed industry, crop protection industry, commodity associations, and MAFRD staff. All partners play a valuable role in producing this publication — the Manitoba Seed Growers Association, the Manitoba Crop Variety Evaluation Team that co-ordinates the trials, commodity groups, research contractors who conduct the trials, and MAFRD staff who compile the results all for your benefit.

I trust you find the information in *Seed Manitoba* 2014 beneficial. This resource is designed specifically for Manitoba farmers, based on Manitoba growing conditions. I wish you good weather, success and profitability in the 2014 growing season.

Honourable Ron Kostyshyn
Minister of Agriculture, Food and Rural Development

President's Message



On behalf of the board of the Manitoba Seed Growers' Association, I am pleased to offer the 2014 edition of *Seed Manitoba*. *Seed Manitoba* is your best possible resource for unbiased third-party variety testing available and provides valuable information on the ever-changing genetics that flood the market every season.

Expanded coverage of soybeans by MASC is making this crop a permanent rotation option for many areas of the province. We urge you,

however, when making variety decisions on all crop types to consider parameters other than yield and take into account your growing region for the most profitable variety fit. As you use this guide 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 Manitoba Seed Growers' Association is proud to be a part of the MCVET team and wishes to thank the extensive network that comes together to make this publication happen. This guide receives excellent support from Manitoba Agriculture, Food and Rural Development staff, Farm Business Communications staff, provincial grower associations, site co-operators, site contractors and our many industry contributors and sponsors.

Ryan Murray
President, Manitoba Seed Growers' Association

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

Manitoba Agriculture, Food and Rural Development	CANTERRA SEEDS
Manitoba Co-operator	FP Genetics
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SeCan	Winter Cereals Manitoba Inc.
Manitoba Pulse Growers Association	Alliance Seed Corporation

MCVET greatly appreciates the efforts of our site contractors:

Ag-Quest Inc.	Parkland Crop Diversification Foundation
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MCVET would also like to express its gratitude to:

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

Companies and individuals who performed seed quality analysis.

Syngenta for providing seed treatment.



Welcome to Seed Manitoba 2014

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

W

Welcome to *Seed Manitoba 2014*, the Variety Selection and Growers Source Guide, compliments of Manitoba Agriculture, Food and Rural Development, Manitoba Seed Growers' Association and the Manitoba Co-operator.

The growing season of 2013 was quite a year! Throughout the season we had it all — late planting, flooding, heat waves, unseasonably cold, frost warnings and harvest well into October for many of our core crops. At the end of the season though, the statistics on the weather show the 2013 growing season was average. The resulting yields on the other hand, were far from average and “bin busting” hardly covers it. In *Seed Manitoba 2014*, there are many phenomenal yields, as our MCVET trial system is designed to closely reflect what is occurring in Manitoba fields.

Table 1 shows the average yield for the six core MCVET crop types. The yield highs are in green and the lows in blue. Even though yields for some crops doubled from 2012 to 2013, the long-term averages do not change much. Like the 2013 highs/lows in the weather, when looking at all the information as a whole and not just as individual events, the very highs and lows even out and provide more realistic results. Identifying the varieties with the highest yield in your area may be the first thing you look for, but the long-term yields or multi-location yields are just as important for identifying which varieties are consistent for yield. It is the combination of information that has the greatest merit for use in variety selection for your individual farm.

Changes in Seed Manitoba 2014

Some changes have occurred in the 2014 edition to better display the information on the crops being tested.

In the cereal section, durum wheat has new data available. The last time durum was tested in Manitoba was in 2010, so many new varieties are included. Spring wheat entries were separated into two trials, one testing Canada Western Red Spring and Canada Western Hard White Spring and the second testing Canada Prairie Spring and

Table 1: Yearly Average Yields for MCVET's Core Crop Types (2000 – 2013)

Year	Yield (bu/acre)					
	Spring Wheat	Winter Wheat	Barley	Oats	Peas	Flax
2000	59	88	91	120	64	33
2001	54	77	86	127	63	24
2002	56	76	84	120	53	30
2003	65	85	109	127	69	32
2004	67	91	114	148	71	39
2005	51	51	84	110	36	26
2006	58	81	97	121	62	33
2007	43	74	74	126	63	33
2008	63	92	94	151	75	32
2009	78	82	119	161	75	40
2010	60	79	107	133	60	35
2011	60	72	87	125	53	-
2012	55	84	54	104	64	22
2013	87	85	139	181	94	48
GRAND MEAN (2000-13)	60	80	96	132	64	33
GRAND MEAN (2000-12)	60	80	93	129	62	31

Note: Green indicates-highest yielding year; blue indicates lowest-yielding year

Canada Western General Purpose (Glenn was still included as reference). The change in the trial design is reflected in the Yield Comparisons and Protein Comparisons tables, which are divided into two separate sections displaying the data from the 2013 trials. In the Barley Variety Descriptions Table, the Feed/Forage category has been changed to “Food and Feed.” This classification change is to better reflect the potential end markets of the varieties included in that section, as well as provide consistency with other Western Canada seed guides.

In the oilseed section, column additions were made to the Roundup Ready soybean variety description table to provide information to better reflect unique traits and maturity. This included notes on specific features, Soybean Cyst Nematode (SCN) resistance and Phytophthora resistance, and additional information showing maturity groupings similar to the USA and Ontario system. The check variety in the RR soybean tables has also changed from the RR1 variety NSC Portage RR to the RR2 variety 004R21.

There has been minor changes to the pulse and forage section. In the pulse section, the only change

is to the check variety for lentils. CDC Redberry has been replaced with CDC Milestone. In the forage crop section, the western Canadian trial data has been added, to provide more comprehensive information on the variety performance.

Seed Manitoba 2014 is the collaborative effort of many people in industry, government and producers to produce and provide comprehensive variety performance information. Without the MCVET sponsors and supporters, site contractors who conducted the trials, and commodity groups that donated data to be included in *Seed Manitoba*, this publication would not be possible. Thank you!

As well, special thanks need to be given to Patti Rothenburger and Craig Linde of MAFRD who do a lot of the behind-the-scenes work on making things transition smoothly from organizing seed packaging to which groups will plant the sites where, site location visits throughout the season, data analysis, data proofing, etc.

We hope you find the information contained in *Seed Manitoba 2014* helpful in the upcoming months while you determine your variety choices for the upcoming 2014 growing season.



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A large, artistic photograph of a tractor spraying a bright yellow liquid, presumably canola oil, onto a field of yellow canola plants. The spray is captured mid-air, creating a dynamic, flowing pattern against a backdrop of a clear blue sky with scattered white clouds. The tractor is visible in the background, positioned on the right side of the frame.

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Privatizing seed crop field inspections

on schedule for 2014

It used to be CFIA's job, but federal agency will now license and oversee private inspectors and their companies

by Allan Dawson, Manitoba Co-operator staff

Most Canadian farmers are blissfully unaware of the Byzantine intricacies of the pedigreed seed system because, well, it works.

That's not surprising, since seed growers and the federal government have had more than 100 years to perfect it.

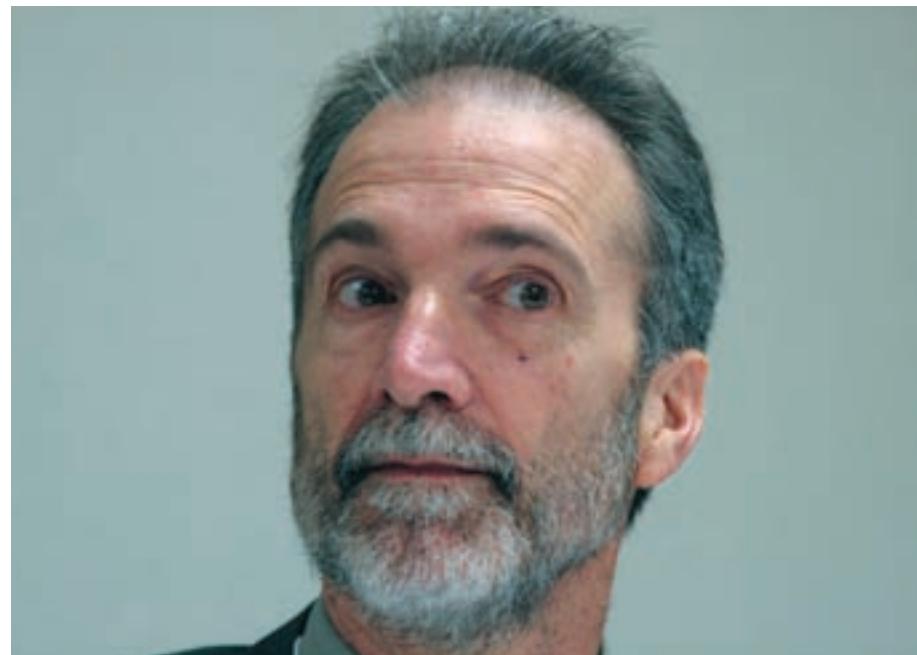
"It's like the banquet that goes off without a hitch because of all the waitresses and chefs are just doing their jobs and you hardly notice them as they whisk in and out," says Michael Scheffel, national manager of the Canadian Food Inspection Agency's (CFIA) seed section.

"People maybe take it for granted... but there's a lot of work behind the scenes."

When farmers buy certified seed, known by the famous blue tag, they know what they're getting — a variety that meets specific purity, germination and cleanliness standards. It's seed with a pedigree.

For decades federal inspectors — these days part of CFIA — have inspected fields of seed as part of the process towards certification. But in its 2012 budget, the federal government announced inspection services would be privatized starting in 2014. The government wants CFIA to focus on its primary mandate — food inspection. However, CFIA will still oversee the process by training private inspectors, conducting spot checks on their work, approving the Authorized Seed Crop Inspection Service providers that employ the inspectors and auditing them.

"I want to make sure the message is



CFIA's Michael Scheffel says the transition to private field inspection of pedigreed seed crops is on schedule. PHOTO: ALLAN DAWSON

clear — CFIA is not walking away from its role in terms of being Canada's seed authority," Brian Lemon, director of CFIA's field crops and inputs division told the Manitoba Seed Growers Association's annual meeting in Brandon last December.

"The key to us is maintaining the integrity of the system and maintaining the quality and reputation of the blue tag."

Blue tag intact

Privatization will save the government money. Field inspection fees don't cover the cost.

Seed growers are bracing to pay around \$4 an acre for inspections instead of 75 cents — a fivefold increase, says Dale Adolphe, executive director of the Canadian Seed Growers Association (CSGA). It's a big cost increase



CSGA executive director Dale Adolphe says privatized seed inspection services will cost seed growers a lot more than what they've paid CFIA inspectors in the past. PHOTO: ALLAN DAWSON

"People maybe take it for granted... there's a lot of work behind the scenes."

— MICHAEL SCHEFFEL

for seed growers, who typically operate on thin margins due to strong competition, and they are likely to pass those increased costs along to their farmer-customers. But Adolphe doesn't expect buyers will notice much difference. On a 50-bushel-an-acre wheat crop, inspection fees of \$4 an acre work out to eight cents a bushel.

"The marketplace fluctuates more than that," Adolphe says. "I don't think it will be that visible to the certified seed buyer."

Privatizing seed inspection is a big change.

The federal government and Canadian Seed Growers Association, which represents seed growers, have been partners in generating pedigreed seed since 1904. But Scheffel said he's "cautiously optimistic," about the transition.

"We seem to be pretty much on schedule," he says during an interview Oct. 31.

"We expect the private sector to do about 75 per cent of the inspections this year (2014) and CFIA will do about 25 per cent," he says.

Licence to inspect

Twenty-nine companies have submitted quality management manuals to CFIA in preparation for delivering inspection services in 2014, Scheffel says. CFIA expects to start licensing the companies in December.

This summer CFIA trained 150 seed inspectors. In addition 40 former CFIA inspectors have indicated they'll be available, he says. CFIA will start licensing inspectors in mid-November.

"It looks like we've got quite a good number of inspectors who will be in a position to be licensed and conduct seed crop inspections next year."

One of the concerns seed growers have is whether there will be enough inspectors in more remote areas. Scheffel says Atlantic Canada might be short, but CFIA inspectors will fill any gaps.

More **PRIVATIZING** on page 10 »

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CFIA will also continue to inspect so-called "high generation" or select seed plots, at least at the start of the change to private inspections. These one-hectare plots are the next generation after breeder seed. The following stages are foundation, registered and certified — the latter being what farmers buy for planting.

Transition to take years

Private field inspections in 2014 will focus mainly on cereals and soybeans, which account for 80 per cent of the work. CFIA inspectors will inspect the forage and special crops, although former CFIA inspectors will also have the credentials to inspect those crops, says Scheffel.

CFIA doesn't have a firm target for when all field inspections will be privatized.

"It will take a number of years to transition over," Scheffel says. "Ultimately we will get close to 100 per cent. For some crops it might not make sense for CFIA to not do it in certain situations."

"It will just take time for us to provide training to the private sector in some of these other crop kinds. We want to make sure the licensee crop inspectors are very good before we start licensing them for the very high-generation crops."

The CSGA's role in maintaining the pedigreed seed database and co-ordinating crop inspections remains the same, but now instead of dealing with one inspection provider there

will be 29. That complicates things, but there are benefits, too, he says.

For example, private inspectors will use tablet computers in the field, electronically filing their results to the CSGA. That's going to speed up the process, Adolphe says. Growers should get their inspection reports in four days instead of 15.

More services

Private inspections will also widen the services some companies already provide farmers. Some fear that could lead to a conflict of interest. But Scheffel says it's CFIA's job to make sure it doesn't.

"The licences are fairly specific in terms of conflict of interest and the expectations that unbiased inspection services are expected and demanded," he says. "We feel we have fairly good provisions over all in terms of conflict of interest. Really it's in the interest of the seed grower... to make sure they get the right inspection results because they don't want to be turning around and selling a product that passed inspection because it had a lazy inspector only to disappoint the customers at the end of the day."

"It looks like we've got quite a good number of inspectors who will be in a position to be licensed and conduct seed crop inspections next year."

— MICHAEL SCHEFFEL





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Flax seed supplies rebooted and ready to plant for 2014

by Anastasia Kubinec, Oilseed Crop Specialist, Manitoba Agriculture, Food and Rural Development

As many of us know, numerous export markets closed to Canadian flax in 2009 when traces of the genetically modified variety Triffid were found in shipments. The largest market, Europe, which typically accounted for 80 per cent of our exports, has zero tolerance for genetically modified crops.

Since 2009, industry and governments have made many efforts in education of producers/industry and provided funding for seed testing to identify where the contamination was and to clean it out of the system. This has been one of the largest campaigns of the program to clean up the flax supplies. In addition to the seed-testing protocols in place for the past three years, in 2013 there was also a large campaign promoting cleaning out flax bins of older production in 2013 and start fresh in 2014 by buying seed free of Triffid. In doing this, producers would be starting fresh and chances of contamination in the seed going to export would be reduced even more.

Confidence in pedigree seed supply

Through the testing for Triffid in the seed supply chain, it was identified that some varieties were contaminated at the Breeder seed level. After finding very low traces of Triffid in their breeder seed lines, breeders at the Crop Development Centre at the U of S worked on producing flax seed that is 100 per cent Triffid free. In 2014, growers will have access to the reconstituted Triffid-free seed supply of CDC Bethune, CDC Sorrel, and new varieties CDC Sanctuary and CDC Glas.

Other breeding programs also tested their varieties through the pedigree seed categories, but no contamination was found, so they did not have to go to the reconstitution process. Stringent testing procedures are in place in all breeding programs to ensure that the contamination does not occur in the future. As well, the production of pedigree seed from Breeder seed level through Select, Foundation, Registered and Certified is tested



With exceptional yields in 2013, there should be a large amount of certified seed available to rejuvenate flax seed supplies for planting in 2014.

along the way to ensure no traces of contamination have occurred. Pedigree seed has not had a single positive test in any of the last three seasons.

Testing will still be required on flax for seed to be planted and seed delivered to the buyer to test for presence of Triffid. This continuation of testing is to ensure that the contamination has

been removed and to increase the confidence that exports to other countries will meet their standards for zero GM presence.

Reminder on deregistered varieties

As of August 1, 2013 the following varieties of CDC Mons, CDC Normandy and Solin varieties CDC Gold, 2047, 2126, 1084, 2090 and 2149 have been deregistered. Production of these varieties will no longer be eligible for top grade (and price) of Flaxseed #1 Canada Western/Canada Eastern and will drop to Flaxseed #3 Canada grade.

Many well-known varieties are still available for planting as well as a number of new varieties. With exceptional yields in 2013, there should be a large amount of certified seed available to rejuvenate flax seed supplies for planting in 2014 and further ensuring clean production for export in fall 2014 and beyond.



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The gene jockeys have found a faster horse in the race for crop improvement

Molecular biology is blurring the lines between traditional plant breeding, biotechnology and information technology

by Laura Rance, Manitoba Co-operator editor

TJOHNSTON, IOWA The tour guide paused as she searched for plain language to explain trait-stacking in modern plant breeding to a group of international journalists touring DuPont Pioneer's research facilities here.

It all starts with a hybrid seed. But then the farmer can choose whether to add different options for weed and insect resistance to the base package, she said. "It's like buying a car, kind of," she said. "Do you want this on it, or this, or that on it?"

Much of the attention, and the controversy, over biotechnology has been focused on the still-inexact science of genetic engineering — transferring a gene from one species into another in order to achieve a desired trait. After decades of research and nearly 20 years of commercialization, the genetically modified crops in production are limited to those that have insect resistance or tolerance to a few select herbicides, largely because those are the markets that support the huge research and development investment these companies are making in biotechnology.

Scientists have in recent years begun to "stack" those herbicide-resistant traits to give farmers access to more herbicide combinations to address increasing weed resistance issues, or combine them with insect control traits.

But behind the front lines, molecular marking and screening technologies have transformed how plant breeders carry out their work, cutting in half the time it takes to develop a new variety.



John Soper PHOTO: LAURA RANCE

"It allows us to look under the hood," said John Soper, Pioneer Hi-Bred's vice-president of crop genetics, research and development. "We can use genetic screening to predict things like drought tolerance, which is very genetically complex."

By looking at the genetics and the performance of the parents, plant breeders can now predict how their offspring will perform. And they can measure that performance with exactitude.

"All I had as a plant breeder 15 or 20 years ago was my eyes," he said, noting plant breeders of yesteryear spent most of their lives in the field subjectively selecting lines based

on their appearance. Today, they spend their time in a laboratory analyzing the results of computer-generated data.

To say it speeds up the screening process would be an understatement.

In 2012 alone, Pioneer Hi-Bred's Beaver Creek Research laboratory screened 80,000 samples, as many inbred parental lines as it had previously screened in the company's entire 86-year history.

Phenotype versus genotype

Making selections by phenotype, which is based on observable traits such as height, width, cob size and colour, can now be backed up by genotype selection, which is based on hereditary traits.

Molecular screening technology is equally useful whether researchers are working on the so-called GM traits or developing traditional hybrids. In fact, officials are careful to note that Pioneer's new AquaMax drought-tolerant corn lines are not the product of genetically modified organisms (GMOs).

Drought tolerance isn't something that can be conveyed through a single gene. It is a factor of a plant's ability to withstand both excess heat and moisture deficits. However, researchers are looking for genes that can further enhance those traits.

In short, the new techniques are blurring the lines between traditional plant breeding and biotechnology.

More **GENE JOCKEYS** on page 16 »



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"Breeding and biotechnology are really becoming the same science," said Robert Fraley, Monsanto's chief biotechnology officer and one of this year's recipients of the World Food Prize. "Once you know all of the 33,000 genes in a corn plant and all the genes in a tomato plant, breeders have that knowledge as they are making all those crosses, they are literally starting to improve products by breeding gene by gene," he told reporters recently.

And it won't stop there.

"If you look into the future, what we see is those advances in biology are going to combine with advances in information technology — and I think that will create a whole new science," Fraley said.

"We are very close right now to understanding the genes in the crop to be able to predict how a seed will perform in different kinds of soils under different moisture conditions," he said. "So the biology and the

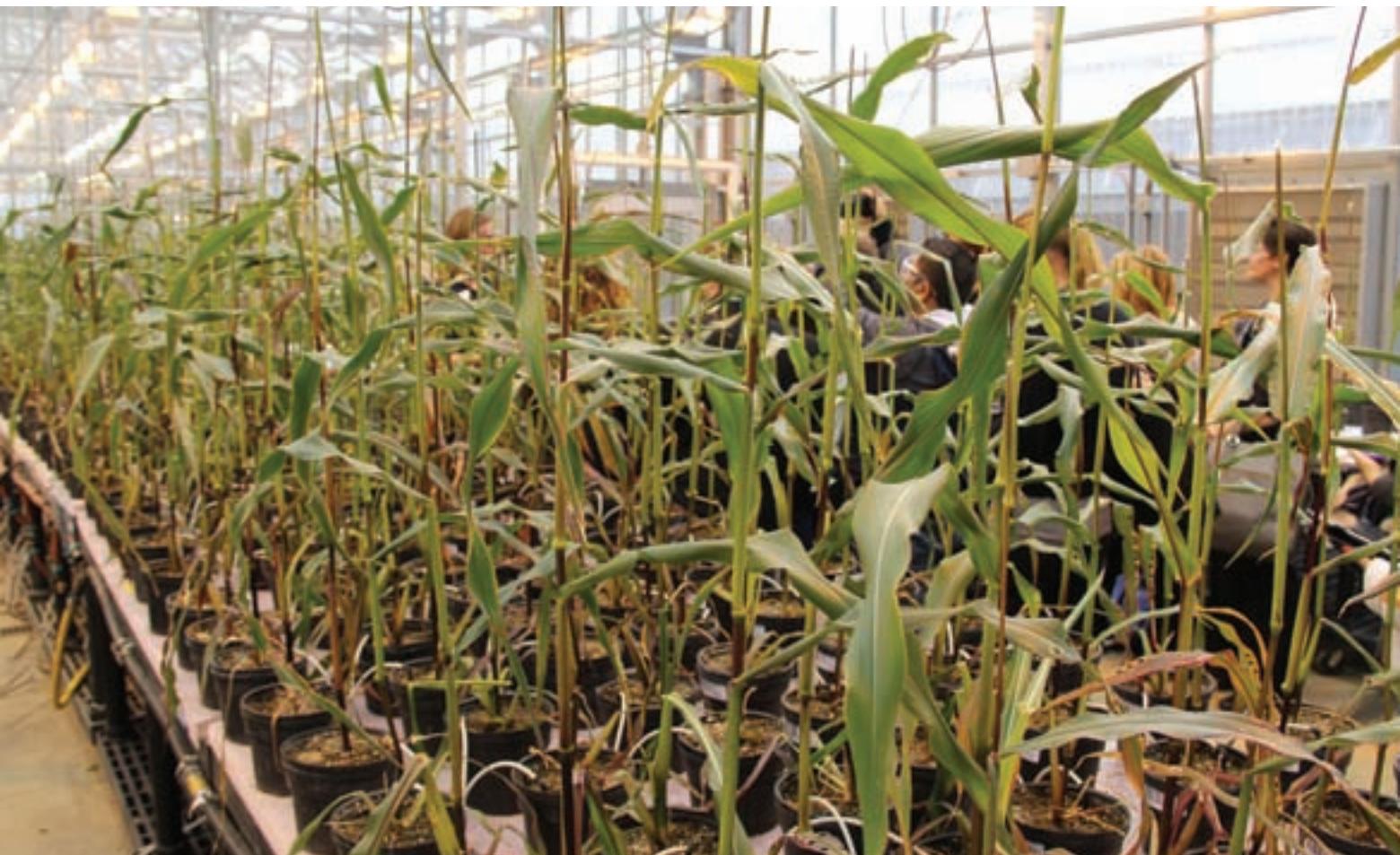


Robert Fraley PHOTO: LAURA RANCE

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"We are very close right now to understanding the genes in the crop to be able to predict how a seed will perform in different kinds of soils under different moisture conditions. So the biology and the knowledge of that farm and field will come together to create really special opportunities for farmers to really understand how to improve yields in their fields."

— ROBERT FRALEY,
CHIEF BIOTECHNOLOGY OFFICER,
MONSANTO



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THE FOUNDERS

Theodore Kipp (1880-1941) Engineer

Born at Peoria, Illinois in 1880, he was educated at public school and Bradley Polytechnic. He came to Canada in 1908 and was Chief Engineer successively for the Tillson Company at Tillsonburg, Ontario, Robin Hood Mills Limited, and Ogilvie Flour Mills Company. In 1913 he organized the Kipp-Kelly Company in partnership with G. H. Kelly where he was Vice- President and Managing Director.

George H. Kelly (1860-1940) Engineer

Born at St. Germain, Cornwall, England on 29 August 1860, he immigrated to Canada at the age of 7 and settled at Glencoe, Ontario. He worked in flour mills before coming to Manitoba in 1879, where he operated an elevator at Brandon. He came to Winnipeg in 1881 and operated the Ogilvie Flour Mills. In 1886 he joined the Lake of the Woods Milling Company at Keewatin, Ontario as General Superintendent. He rejoined the Ogilvie Flour Mills in 1912 as General Superintendent. After building a large mill at Medicine Hat, Alberta, he left the company in 1913 to establish the engineering firm of Kipp-Kelly, in partnership with Theodore Kipp.

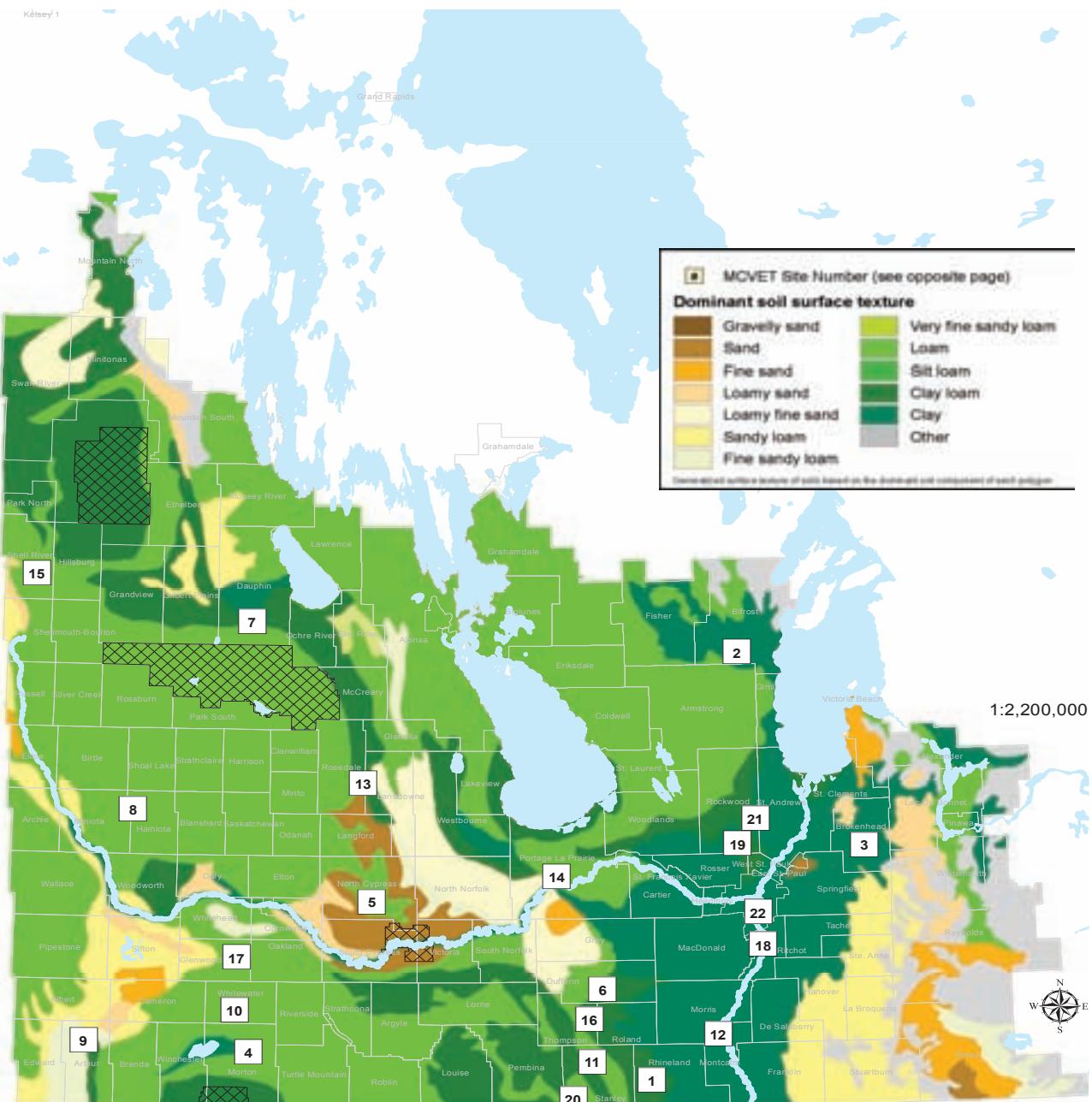


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2013 LOCATIONS OF VARIETY EVALUATION TRIALS



Canada

Growing Forward

Manitoba

Site Location	Crops Tested	Soil Texture	Internal Soil Drainage	Precipitation ¹		Growing Degree Days ¹		Weather Station Used
				Actual (mm)	% of Normal	Actual	% of Normal	
1 Altona	Grain Corn	clay loam	imperfect	310	108%	1603	100%	MAFRD Altona
2 Arborg	Spring Wheat, Oats, Barley, Winter Wheat, Flax, Buckwheat, Industrial Hemp, Soybeans, Edible Beans, Forages	clay	imperfect	209	74%	1416	106%	MAFRD Arborg
3 Beausejour	Spring Wheat, Oats, Winter Wheat, Buckwheat, Soybeans, Grain Corn, Sunflowers	clay loam	imperfect	220	71%	1571	103%	MAFRD East Selkirk
4 Boissevain	Spring Wheat, Durum Wheat, Oats, Barley, Peas	loamy	imperfect	349	134%	1541	102%	MAFRD Boissevain
5 Carberry	Buckwheat, Soybeans, Edible Beans, Forages	clay loam	well	379	140%	1463	105%	EC Carberry
6 Carman	Winter Wheat, Soybean, Edible Bean	loam	imperfect	287	103%	1539	102%	EC Carman
7 Dauphin	Spring Wheat, Oats, Barley	silty clay loam	imperfect	324	114%	1465	107%	EC Dauphin
8 Hamiota	Spring Wheat, Oats, Barley, Flax, Peas, Soybean, Lentil	clay loam	well	335	142%	1455	105%	MAFRD Hamiota
9 Melita	Spring Wheat, Durum Wheat, Oats, Soybean, Buckwheat, Industrial Hemp, Forages	loamy	imperfect	368	149%	1545	102%	MAFRD/WADO Melita South
10 Minto	Sunflowers	loamy	imperfect	349	134%	1541	102%	MAFRD Boissevain
11 Morden	Flax, Peas, Soybeans, Edible Beans	clay loam	well	332	117%	1618	101%	EC Morden
12 Morris	Soybeans	heavy clay	imperfect	317	113%	1599	105%	MAFRD Morris
13 Neepawa	Spring Wheat, Oats, Barley	clay loam	well	243	88%	1373	109%	MAFRD Minnedosa
14 Portage	Spring Wheat, Barley, Oats, Soybeans, Buckwheat, Edible Beans	sandy loam	imperfect	338	121%	1580	103%	MAFRD Portage East
15 Roblin	Soybean, Industrial Hemp, Lentil, Edible Beans	loamy	well	238	82%	1328	101%	EC Roblin
16 Rosebank	Spring Wheat, Oats, Barley, Flax, Soybeans	loam	imperfect	287	103%	1539	102%	EC Carman
17 Souris	Spring Wheat, Durum Wheat, Barley	clay loam	imperfect	429	159%	1510	109%	MAFRD Souris
18 St. Adolphe	Spring Wheat, Oats, Barley, Soybeans	heavy clay	imperfect	320	107%	1646	109%	MAFRD St. Adolphe
19 Stonewall	Spring Wheat, Oats, Barley, Winter Wheat, Flax, Soybeans	clay	imperfect	266	95%	1561	105%	MAFRD Woodlands
20 Thornhill	Spring Wheat, Oats, Barley	loamy	well	360	127%	1630	102%	MAFRD Winkler
21 Warren	Grain Corn	clay	imperfect	266	95%	1561	105%	MAFRD Woodlands
22 Winnipeg	Winter Wheat	silty clay	imperfect	225	76%	1570	104%	U of M (The Point)

1 Weather data is reported from May 15th to September 15th 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 2014 can be directed to the individuals listed below:

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

For Grain Corn, please contact Pam de Rocquigny at (204) 750-1584 or e-mail pamela.deroocquigny@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 2013, while protein data is from MCVET plots harvested from 2002 to 2013. 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 2013 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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Manitoba Agriculture, Food and Rural Development Variety Guide

BARLEY

New for 2014

Variety	Type	Code	Breeder	Distributor	Seed Availability
Amisk	Food and Feed - 6 Row	BT593	Alberta Agriculture & Rural Development	SeCan	2015
Canmore	Food and Feed - 6 Row	TR10694	Alberta Agriculture & Rural Development	CANTERRA SEEDS	2015
CDC Maverick	Forage - 2 Row	FB205	Crop Development Centre	SeCan	2015

Varieties that have been supported for registration

Malting - 2 Row	TR10214	AAFC - Brandon
Malting - 2 Row	TR09402	BARI
Food and Feed - 2 Row	TR11698	Alberta Agriculture & Rural Development

Comments:

Seed of the new varieties **CDC Kindersley** and **CDC Anderson** will be commercially available for seeding in Spring 2014.

Malting barley varieties are classified into three groups which are established annually by the Canadian Malting Barley Technical Centre (CMBTC). “Acceptance - Recommended” are varieties with market acceptance and recommended by the CMBTC. “Acceptance - Under Testing” are varieties currently undergoing evaluation for market acceptance. “Other” are varieties not currently recommended but markets may exist.

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

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

It is strongly recommended for producers to use a combination of the Canadian Food Inspection Agency’s **List of Registered Varieties** (www.inspection.gc.ca) and the Canadian Grains Commision’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 2014.

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:									
								Lodging	Loose Smut	Surface -borne Smut	Netted Root Rot	Netted Net Blotch	Spotted Net Blotch	Fusarium ³			
														Head	Spot	Stem ²	Rust
Malting: Acceptance - Recommended																	
AC Metcalfe (2)	129	92	12.8	0	0	0	R	F	R	I	I	S	I	I	MR	I	
Bentley (2)	41	97	12.4	0	2	-0.8	R	G	MS	MR	I	MS	R	I	MR	MS	
CDC Copeland (2)	60	92	12.5	0	2	-0.5	R	F	MS	I	I	I	I	S	MR	I	
CDC Kindersley (2)	33	97	12.6	-1	-1	0	R	G	S	R	I	MS	MR	I	MR	I	
CDC Meredith (2)	42	97	12.4	2	-1	-2.1	R	F	R	MR	I	MS	R	MS	MR	I	
CDC Polarstar (2)	18	92	12.7	-1	0	-0.6	R	F	S	R	MS	S	MR	MS	S	MR	
Celebration (6W)	33	98	13.3	-1	2	0	S	G	R	R	MS	S	MR	MR	I	MS	
LEGACY (6W)	36	98	12.9	-2	3	0	S	F	I	MR	MR	S	MR	MR	MR	MS	
Major (2)	35	102	12.5	0	-1	-0.7	R	G	R	MR	MS	I	MR	MR	MR	I	
Merit 57 (2)	39	97	12.4	3	-1	-1.9	R	F	S	I	MR	MS	R	MS	I	MS	
Newdale (2)	61	102	12.6	0	-1	-0.5	R	F	S	MR	MR	I	MR	I	MR	I	
Tradition (6W)	59	99	12.9	2	4	0.8	S	F	S	MR	MR	S	I	MR	MR	S	
Malting: Acceptance - Under Testing																	
AAC Synergy (2)	19	104	12.2	0	-1	-0.4	R	G	S	I	I	MR	R	MR	MR	MS	
CDC Anderson (6)	29	98	12.3	-1	-2	0	R	G	MR	R	I	MS	MR	R	MR	I	
CDC Mayfair (6)	41	100	12.7	-1	3	-1.5	R	G	S	R	MS	MS	MR	I	MR	MS	
Cerveza (2)	36	104	12.4	1	-2	-1.4	R	F	R	R	I	MS	MR	R	MR	I	
Norman (2)	29	93	12.9	-1	-1	-0.5	R	F	S	S	MS	MS	R	S	S	MR	
Malting: Other																	
CDC Battleford (6W)	63	98	12.6	1	-1	1.6	S	G	MS	MR	MR	MS	R	R	MR	S	
CDC Kamsack (6)	28	94	12.6	0	2	-1	R	VG	I	R	MS	S	I	MR	MR	S	
CDC Kendall (2)	18	91	—	2	0	0.2	R	F	MS	MS	MR	I	MR	S	MS	I	
CDC Reserve (2)	38	96	12.2	0	-1	0	R	F	S	MS	I	S	R	I	MR	I	
Lacey (6W)	41	97	13.0	1	2	-0.7	S	G	I	MR	MR	S	I	MR	MR	S	
Robust (6W)	94	90	13.2	1	4	-0.7	S	G	I	I	I	S	MS	MR	MR	S	
Stellar-ND (6W)	32	94	12.7	-2	2	0	R	G	MR	R	MS	S	I	MR	I	I	
Food and Feed																	
AC Ranger (6F)	38	102	12.4	1	-3	0.1	S	G	MS	I	MR	I	MR	MR	MR	S	
Amisk (6)	5	101	12.5	1	0	-2.3	R	G	S	MS	MS	I	MR	MR	MR	S	
Brahma (2)	36	102	12.3	0	-2	0.5	R	G	MS	R	MR	S	I	S	MR	I	
Bretton (6F)	19	99	12.3	0	-2	0.8	S	G	MS	MR	I	I	MR	MR	MR	S	
Canmore (2)	5	97	12.5	1	0	0.7	R	G	R	R	I	MS	MR	I	MS	I	
CDC Austenson (2)	38	108	12.1	1	0	0.5	R	G	S	R	I	MS	R	MR	I	I	
CDC Coalition (2)	39	99	12.3	1	2	0.8	R	VG	R	MR	I	S	MR	I	MR	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:							
								Lodging	Loose Smut	Surface -borne Smut	Netted Root Rot	Spotted Net Blotch	Stem ² Spot Blotch	Fusarium ³ Head Blight	
CDC Cowboy (2F)	50	90	13.1	1	6	1.3	R	G	MS	MR	I	I	MR	I	MR
CDC Helgason (2)	33	97	12.3	-1	0	0.8	R	G	R	MR	I	MR	MR	I	MS
CDC Maverick (2F)	5	89	12.9	1	4	5.4	S	F	S	R	I	I	MR	I	MR
CDC Mindon (2)	56	90	12.8	1	-1	0.3	R	G	R	R	—	S	MR	I	I
CDC Trey (2)	63	100	12.4	0	2	0.3	R	G	MS	R	MR	I	R	I	MR
CDC YORKTON (6W)	22	103	12.7	0	5	-3	S	G	MS	MR	MR	I	MR	MR	S
Champion (2)	44	105	12.3	0	0	0.8	R	G	S	R	—	S	I	MS	I
Chigwell (6)	41	96	12.3	0	0	-1.6	S	G	MS	R	S	I	MR	MR	S
CONLON (2)	84	88	12.7	-1	-1	0.8	S	G	I	I	I	I	MR	MS	MR
Desperado (6F)	44	100	12.6	1	2	2.5	S	G	MS	R	MR	S	MR	MR	S
Gadsby (2)	28	94	12.9	0	3	0.1	R	F	R	R	I	MS	MR	S	MR
Muskwa (6)	29	99	12.6	0	-5	1.3	S	G	MS	R	MS	MS	MR	I	MR
Sundre (6)	5	87	12.5	—	—	—	S	G	MS	R	MS	MS	I	I	S
XENA (2)	19	97	—	0	0	0.3	R	G	MS	MS	MR	S	I	S	MR
Hulless															
CDC Carter (2)	35	86	13.1	1	0	8	R	F	R	R	S	I	MR	I	I
CDC Clear (2)	27	90	12.5	2	2	9	R	F	R	R	I	MS	R	I	MR
CDC Lophy-I (2)	13	74	12.9	-1	0	8	R	G	R	MR	MS	I	I	I	MR
Taylor (2)	27	76	12.9	0	0	8	R	G	R	I	MS	MS	MR	I	MR
Varieties that have been supported for registration															
Malting: Acceptance - Under Testing															
TR09402 (2)	5	97	12.5	0	-1	-0.7	R	G	R	R	MS	I	MR	S	MR
Malting: Other															
TR10214 (2)	5	101	12.5	1	1	-0.4	R	F	S	I	S	I	R	I	MR
Food and Feed															
TR11698 (2)	5	96	12.4	1	0	-0.3	R	F	R	MR	I	MS	R	I	S
GRAND MEAN		98	12.7												
LSD (0.05)		5	0.3												

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.

Yield Comparisons

Variety	2013 Yield (bu/acre)									
	Arborg	Boissevain	Dauphin	Hamota	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill
Malting										
AAC Synergy	157	160	120	167	234	97	196	127	133	165
AC Metcalfe	136	140	98	140	169	97	168	110	115	148
CDC Anderson	134	142	98	152	216	95	164	106	121	167
CDC Kindersley	144	146	108	144	181	91	173	116	110	148
Food and Feed										
Amisk	164	153	108	183	—	—	—	—	—	141
Breton	152	161	98	132	191	90	181	132	120	163
Canmore	144	138	112	169	—	—	—	—	—	158
CDC Maverick	135	144	108	147	—	—	—	—	—	136
Gadsby	162	150	116	147	193	91	168	117	107	119
Muskwa	159	151	104	164	181	81	185	128	128	166
Hulless										
CDC Clear	142	120	94	177	177	98	170	125	110	155
Varieties that have been supported for registration										
Malting										
TR09402	144	145	107	168	—	—	—	—	—	146
TR10214	150	157	115	160	—	—	—	—	—	153
Food and Feed										
TR11698	156	148	108	138	—	—	—	—	—	130
SITE GRAND MEAN (bu/acre)	148	147	107	156	193	93	176	120	119	149
CV %	4.6	4.5	4.7	6.4	13.6	6.1	7.3	7.2	5.6	8.0
LSD (bu/acre)	12	11	8	17	—	10	—	—	12	20
Sign Diff	Yes	Yes	Yes	Yes	No	Yes	No	No	Yes	Yes
Seeding Date	22-May	17-May	20-May	23-May	16-May	13-May	23-May	09-May	13-May	06-Jun
Harvest Date	05-Sep	22-Sep	29-Aug	30-Sep	09-Sep	23-Aug	13-Sep	19-Aug	17-Aug	03-Oct

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Protein Comparisons

Variety	2013 Protein (%)									
	Arborg	Boissevain	Dauphin	Hamiota	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill
Malting										
AAC Synergy	12.0	12.2	10.7	12.1	12.2	11.8	11.9	12.5	12.4	12.9
AC Metcalfe	12.4	12.6	11.0	12.6	13.0	12.5	12.7	13.1	13.2	13.5
CDC Anderson	12.4	12.4	11.2	12.7	12.7	12.4	12.5	13.4	12.4	13.0
CDC Kindersley	12.5	12.3	10.4	12.6	12.8	12.3	12.6	12.8	13.0	13.5
Food and Feed										
Amisk	12.1	12.5	10.8	12.2	—	—	—	—	—	13.4
Breton	11.8	12.2	11.3	12.7	12.3	12.3	12.5	12.8	12.3	13.2
Canmore	12.1	12.4	10.6	12.6	—	—	—	—	—	13.6
CDC Maverick	12.6	13.1	11.3	12.8	—	—	—	—	—	14.1
Gadsby	11.9	12.8	11.0	12.8	12.9	13.5	13.0	13.2	13.0	14.1
Muskwa	12.2	12.7	10.9	12.6	13.1	13.1	12.5	12.9	13.1	13.4
Hulless										
CDC Clear	12.1	12.4	9.9	11.6	11.5	11.1	11.4	12.5	12.7	13.2
Varieties that have been supported for registration										
Malting										
TR09402	12.3	12.1	11.0	12.2	—	—	—	—	—	13.5
TR10214	12.1	12.3	10.8	12.3	—	—	—	—	—	13.6
Food and Feed										
TR11698	12.0	12.5	10.5	12.4	—	—	—	—	—	12.8
SITE GRAND MEAN (%)	12.2	12.5	10.8	12.4	12.6	12.4	12.4	12.9	12.8	13.4



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2014-15 Canadian Malting Barley Technical Centre Recommendations

These recommendations are based on the varieties expected to be selected by grain and malting companies for both domestic and export markets from the 2014 harvest. Seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators and malting companies. This list is published on behalf of the members of the CMBTC, and other companies that have provided their input. Varieties not listed are not recommended. The varieties are listed in descending order to the amount expected to be selected next crop year.

Recommended Two-Row Barley Varieties

VARIETY	SOURCE	DOMESTIC	EXPORT
AC Metcalfe	4	Established	Established
CDC Copeland	4	Established	Established
CDC Meredith	4	Established	Limited
CDC Polarstar*	5	Established	Established

The four varieties listed above will represent 80 to 85% of the anticipated selections.

VARIETY	SOURCE	COMMERCIALIZATION STATUS
Newdale	3	Established
Major	1	Increasing
Bentley	5	Increasing
Merit 57	5	Increasing
CDC Kindersley	4	Increasing

The five varieties listed above represent 15 to 20% of the anticipated selections and it is expected that several of them will become dominant varieties in the future.

Norman, Cerveza, CDC Landis, ABI Voyager, and AAC Synergy are not yet being grown for the commercial market. Production is limited to quantities required for testing and market development.

*CDC Polarstar is available only through a closed loop Identity Preserved program offered by Prairie Malt Limited/Sapporo Breweries and their agents.

Recommended Six-Row Barley Varieties

VARIETY	SOURCE	DOMESTIC	EXPORT
Legacy	1,2,3	Established	Established
Tradition	1,2,3	Established	Established
Celebration	5	Limited	Limited

CDC Mayfair and CDC Anderson are not yet being grown for the commercial market. Production is limited to quantities required for testing and market development. Please talk to your local malting company selector in regards to demand for Lacey and Robust.

"Domestic" as used in this publication, means barley selected for domestic processing into malt to supply domestic brewers as well as for malt destined for export. Export is that malting barley designated for markets outside of Canada including the U.S., shipped as unmalted grain.

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

1 - Viterra ; 2 - BARI-Canada; 3 - FP Genetics; 4 - SeCan; 5 - CANTERRA SEEDS

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New for 2014

Variety	Code	Breeder	Distributor	Seed Availability
AAC Justice®	OT2084	AAFC - Winnipeg/U of Minnesota	FP Genetics	2016
CDC Haymaker®	SA04412	Crop Development Centre	SeCan	2015
CDC Ruffian®	OT3054	Crop Development Centre	FP Genetics	2016

Varieties that are being tested or proposed for registration

OT3061	Crop Development Centre
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Comments:

Seed of the new varieties **CDC Big Brown®** and **Stride®** will be commercially available for seeding in Spring 2014.

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® is 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	Site		Maturity		Height		Test Wt		Resistance Level:					
	Years Tested	Yield bu/acre	Protein %	+/- 96 days	+/- 33 inches	+/- 39.3 lb/bu	Hull %	Hull Colour	Lodging	Smut	Crown Rust	Stem ² Rust	I	BYD ³
AAC Justice®	12	143	11.8	0	2	0.5	22.8	White	G	R	R	I	I	
AC Morgan	36	133	11.8	-1	6	-1.0	25.2	White	G	I	S	S	MS	
Bradley®	29	131	12.6	2	3	—	—	White	G	R	MS	MS	MS	
CDC Big Brown®	39	134	12.5	-1	1	0	20.4	Tan	G	R	R	MS	MS	
CDC Dancer®	59	127	12.6	-3	5	0.5	19.6	White	G	R	I	I	MS	
CDC Haymaker (F)®	12	119	12.8	2	10	-1.0	22.0	White	G	MR	S	S	—	
CDC Minstrel®	40	136	11.1	0	3	-0.2	22.3	White	VG	R	MS	I	MS	
CDC ProFi	39	121	13.0	-3	1	-1.0	20.0	White	G	MS	S	I	MS	
CDC Ruffian®	22	145	12.0	0	0	-0.8	20.5	White	G	R	I	S	S	
CDC Seabiscuit®	34	134	12.4	0	6	-0.5	20.1	White	G	MR	S	I	S	
CDC Weaver®	36	127	12.5	-1	5	-1.0	19.0	White	F	R	S	I	MS	
Furlong®	93	125	12.4	-1	8	0.5	20.3	Tan	G	R	S	I	MR	
HiFi®	63	136	12.9	-3	6	0	24.7	White	G	MS	R	I	MR	
Jordan®	51	136	11.3	2	3	-2.0	23.6	White	VG	R	I	I	MR	
Leggett®	108	135	13.3	0	0	0	23.0	White	G	R	R	I	MS	
Pinnacle®	68	144	11.7	3	4	-1.2	23.7	White	G	R	S	I	MS	
Ronald®	84	125	12.3	0	1	0	22.1	White	VG	R	S	I	MR	
Souris®	51	133	12.5	-4	0	0.5	20.9	White	G	R	R	MR	MS	
Stainless	25	128	12.7	-3	5	-0.5	22.4	Light Grey	G	R	R	MR	MR	
Stride®	34	133	13.5	-2	5	0.6	23.7	White	VG	R	R	I	I	
Summit®	40	139	12.4	0	-1	0.5	20.8	White	G	R	R	I	I	
Triactor®	42	152	12.1	-1	3	-1.5	22.1	White	VG	I	MR	S	MS	
Varieties that have been supported for registration														
OT3061	12	124	11.9	0	4	-0.8	23.0	White	VG	R	R	I	I	
GRAND MEAN		135	12.4											
LSD (0.05)		7	0.3											

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.

OATS (continued)

Yield Comparisons

Variety	2013 Yield (bu/acre)										
	Arborg	Beausejour	Boissevain	Dauphin	Hamрюta	Melita	Neepawa	Rosebank	St. Adolphe	Stonewall	Thornhill
AAC Justice	178	169	187	204	204	201	316	112	191	157	176
CDC Big Brown	177	171	192	168	209	184	310	77	208	130	173
CDC Haymaker	171	174	160	148	210	158	268	88	172	121	164
CDC Ruffian	183	184	198	191	236	199	273	75	200	159	173
CDC Seabiscuit	172	180	205	187	217	170	278	81	203	159	172
Leggett	178	173	201	163	211	171	279	91	204	98	151
Souris	168	180	211	174	200	172	284	90	168	133	186
Stride	181	187	204	159	189	183	321	89	200	124	163
Varieties that have been supported for registration											
OT3061	164	179	183	157	153	155	283	84	205	149	163
SITE GRAND MEAN (bu/acre)	175	178	193	172	203	177	290	87	195	142	169
CV %	5.3	5.4	4.0	7.3	6.7	6.5	9.1	8.8	6.0	6.0	9.0
LSD (bu/acre)	—	—	14	22	23	20	—	13	20	15	—
Sign Diff	No	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	No
Seeding Date	22-May	15-May	16-May	20-May	23-May	27-May	16-May	13-May	09-May	13-May	06-Jun
Harvest Date	06-Sep	03-Sep	22-Sep	25-Sep	30-Sep	12-Sep	09-Sep	28-Aug	22-Aug	02-Sep	03-Oct

Protein Comparisons

Variety	2013 Protein (%)										
	Arborg	Beausejour	Boissevain	Dauphin	Hamрюta	Melita	Neepawa	Rosebank	St. Adolphe	Stonewall	Thornhill
AAC Justice	12.0	11.8	12.1	10.7	12.0	—	12.5	13.2	12.6	11.8	11.7
CDC Big Brown	13.1	12.7	13.4	11.9	13.3	—	13.5	13.1	13.3	13.1	13.0
CDC Haymaker	13.9	13.1	13.3	12.2	13.3	—	13.5	13.6	13.6	13.3	12.5
CDC Ruffian	12.3	12.5	12.5	11.3	11.9	—	12.0	13.0	13.0	11.9	12.1
CDC Seabiscuit	12.6	12.5	13.2	11.5	12.1	—	13.6	13.2	15.7	12.5	12.6
Leggett	13.6	13.4	13.6	11.9	13.4	—	14.4	14.1	14.6	12.4	13.6
Souris	12.8	13.0	12.8	12.1	12.9	—	14.4	13.4	13.6	12.1	12.1
Stride	14.0	13.3	13.4	12.1	13.8	—	13.1	14.4	15.2	14.0	12.8
Varieties that have been supported for registration											
OT3061	12.6	12.2	11.9	11.1	12.2	—	12.9	13.0	13.2	13.0	12.0
SITE GRAND MEAN (%)	13.0	12.7	12.9	11.6	12.8	—	13.3	13.4	13.9	12.7	12.5

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	Site	Days to			Resistance Level:				
	% Check	Years Tested	Maturity +/- Check	Height +/- Check	Test Weight +/- Check	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 2014

Variety	Class	Code	Breeder	Distributor	Seed Availability
5605HR CL	CWRS	BW918	Syngenta Canada Inc.	Crop Protection Services (CPS)	2015
AAC Brandon	CWRS	BW932	AAFC - Swift Current	SeCan	2015
AAC Elie	CWRS	BW931	AAFC - Swift Current	Alliance Seed Corporation	2015
AAC Ryley	CPSR	HY1312	AAFC - Swift Current	SeCan	2015
AAC Iceberg	CWHWS	HW021	AAFC - Winnipeg	Alliance Seed Corporation	2014
AAC Whitefox	CWHWS	HW027	AAFC - Winnipeg	SeCan	2015
AAC Chiffon	CHSWS	SWS408	AAFC - Lethbridge	SeedNet	—
AAC Innova	CWGP	GP047	AAFC - Lethbridge	Alliance Seed Corporation	2016
AAC Proclaim	CWGP	GP080	AAFC - Lethbridge	FP Genetics	2015

Varieties that have been supported for registration

CWRS	BW462	AAFC - Winnipeg
CWRS	PT584	Crop Development Centre
CWRS	PT765	University of Alberta
CPSR	HY1319	AAFC - Swift Current
CPSR	HY1610	AAFC - Winnipeg
CPSR	HY1615	AAFC - Winnipeg
CPSR	HY995	Syngenta Canada Inc.
CWHWS	HW612	Crop Development Centre
CWGP	GP087	Syngenta Canada Inc.
CWGP	GP097	AAFC - Swift Current

Comments:

Seed of the new varieties AAC Bailey, SY433, CDC VR Morris, CDC Thrive & AAC Iceberg will be commercially available for seeding in Spring 2014.

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 Commision'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:							
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Fusarium ² Head Blight
Canada Western Red Spring														
5602HR	90	63	14.9	1	0	Y	F	F	R	MR	I	R	R	MR
5603HR	41	62	14.4	2	0	Y	G	VG	MS	I	MR	MR	R	I
5604HR CL	40	61	14.5	-1	-1	Y	G	G	MS	I	MS	R	R	I
5605HR CL	5	58	14.5	1	-1	Y	VG	—	R	MR	MS	MS	R	MR
AAC Bailey	16	51	14.9	-1	0	N	G	G	MS	MR	I	R	R	I
AAC Brandon	16	65	14.3	2	-5	Y	VG	—	MR	S	I	R	R	MR
AAC Elie	16	64	14.3	2	-6	Y	VG	—	I	I	I	R	R	I
AAC Redwater	16	59	14.3	-1	-2	Y	G	G	MS	I	MS	R	R	I
AC Barrie	164	57	14.5	0	0	N	G	G	MR	I	MS	MR	MS	I
AC Cadillac	6	59	—	-1	3	N	F	F	R	R	I	R	MR	I
AC Domain	20	55	15.2	-2	-1	N	VG	VG	R	I	S	R	I	MS
Alvena	30	59	14.7	-2	0	N	G	P	MR	I	—	MR	I	MS
Carberry	43	62	14.5	2	-5	Y	VG	F	MR	R	MS	MR	R	MR
Cardale	16	64	14.6	2	-4	Y	VG	G	I	MR	MS	R	R	MR
CDC Abound	38	59	14.4	2	-4	Y	G	F	I	I	MS	R	MS	S
CDC Go	24	61	14.2	-1	-2	Y	G	P	MS	I	S	R	I	MS
CDC Kernend	39	59	14.7	1	1	Y	G	F	R	I	MS	MR	MR	I
CDC Plentiful	16	60	14.4	-3	-2	N	VG	F	R	I	I	R	R	MR
CDC Stanley	34	61	14.5	0	-1	N	G	G	MR	S	I	R	MR	MS
CDC Thrive	37	56	14.6	-1	0	N	G	P	MR	I	I	MR	I	MS
CDC Utmost VB	27	62	14.5	-1	-1	N	G	G	MS	S	I	MR	R	MS
CDC VR Morris	16	62	14.5	0	0	N	G	P	I	I	I	MR	R	MR
Fieldstar VB	43	63	14.5	0	1	Y	F	VG	I	I	I	MR	R	I
Glenn	70	62	14.5	2	-2	Y	VG	F	I	I	I	R	R	I
Goodeve VB	53	61	14.8	-2	-1	N	VG	G	MR	S	MS	MR	MR	S
Harvest	61	60	14.3	-1	-2	N	VG	VG	MR	S	MS	R	MR	S

Class/Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity +/- 99 days	Height +/- 37 inches	Spike Awned	Resistance Level:							
							Lodging	Sprouting	Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	Fusarium ² Head Blight
Infinity	37	59	15.0	-2	0	N	G	G	MR	MR	MS	MR	MR	S
KANE	90	61	14.4	1	-2	Y	G	VG	MS	I	I	R	R	I
Muchmore	40	62	14.2	2	-6	Y	VG	G	MR	R	MS	R	R	MS
Shaw VB	40	62	14.2	0	2	N	G	G	S	MR	MS	R	MR	MS
Somerset	38	59	15.1	-1	3	N	G	F	R	MS	MS	R	MR	MS
Stettler	40	58	14.7	1	-2	Y	G	G	R	MR	MS	MR	MS	MS
Superb	83	60	14.3	2	-3	Y	VG	F	I	MR	MS	R	S	MS
SY433	34	57	14.6	2	1	Y	G	G	I	S	I	R	R	MR
Unity VB	53	65	14.2	0	0	Y	F	VG	MS	R	I	MR	R	I
Vesper VB	39	64	14.4	0	-1	Y	G	F	I	S	I	MR	R	I
Waskada	68	61	14.6	1	2	Y	F	VG	MR	R	MS	R	I	MR
WR859 CL	42	62	14.5	0	-3	Y	G	G	R	R	MS	MR	R	MR
Canada Prairie Spring Red														
5700PR	33	63	12.8	3	-6	Y	VG	F	MS	R	MS	R	I	MS
5702PR	30	66	12.8	1	-4	Y	VG	P	MS	I	I	I	MR	MS
AAC Ryley	17	66	12.9	1	-4	Y	G	—	I	R	MS	R	R	MS
Conquer VB	40	64	13.0	2	-1	Y	G	P	MS	R	I	R	MR	MS
Enchant VB	17	68	13.2	1	-2	Y	G	G	MR	R	MS	MR	R	S
SY985	39	65	13.5	2	-6	Y	G	P	R	MR	I	R	R	I
Canada Western Extra Strong														
Burnside	52	58	14.3	-1	2	N	G	G	R	I	MS	R	R	S
CDN Bison	38	64	13.7	1	-2	Y	G	F	R	I	I	R	MR	I
Glencross VB	42	61	14.1	0	3	N	G	F	R	I	MS	R	MR	S
Canada Western Hard White Spring														
AAC Iceberg	15	58	13.5	0	-4	Y	G	—	MS	MR	MS	R	R	I
AAC Whitefox	5	62	13.4	-2	-2	N	G	—	MS	MS	MS	MR	MR	I
Snowbird	93	58	13.7	0	0	N	G	G	MR	MS	MS	MR	I	I
Snowstar	37	62	13.4	-1	-4	N	VG	G	MS	S	MS	R	MR	MS
Whitehawk	32	54	13.7	-2	0	N	VG	G	I	MS	MS	I	R	MS
Canada Western Soft White Spring														
AAC Chiffon	4	75	12.1	4	-1	Y	F	—	S	S	—	S	I	S
AC Andrew	30	72	10.9	4	-4	Y	VG	P	S	S	—	MR	MS	I
Sadash	34	71	10.7	4	-2	Y	VG	P	I	S	—	MR	I	S
Canada Western General Purpose														
AAC Innova	4	73	12.1	4	-3	Y	F	—	S	S	I	MR	R	S
AAC Proclaim	17	67	12.6	3	-1	Y	F	—	MR	S	I	MR	R	MR
CDC NRG003	40	68	12.9	1	-4	Y	G	G	MS	R	MS	R	MS	S
Minnedosa	40	67	12.9	-1	-4	Y	G	G	I	R	MS	MR	R	MS
NRG010	40	71	12.6	4	-3	Y	VG	F	MS	R	I	R	R	MS
Pasteur	37	74	12.9	7	-3	N	VG	G	MS	S	I	MR	R	I
Varieties that have been supported for registration														
Canada Western Red Spring														
BW462	5	64	14.0	1	2	N	G	F	S	S	MS	MR	R	I
PT584	5	59	14.5	2	0	Y	G	—	MS	I	MS	I	R	MR
PT765	5	58	14.1	2	2	Y	G	—	S	S	MS	MR	R	MR
Canada Prairie Spring Red														
HY995	5	69	13.0	2	-5	Y	VG	—	S	MR	MS	MR	R	MS
HY1319	5	68	13.3	1	-9	Y	VG	—	I	R	I	MR	R	MR
HY1610	5	73	13.0	1	-3	Y	VG	—	MS	I	MS	MR	R	I
HY1615	5	63	12.7	1	3	Y	G	—	R	MR	MS	MR	R	R
Canada Western Hard White Spring														
HW612	5	56	13.9	0	-4	Y	VG	—	S	S	MS	MR	MR	I
Canada Western General Purpose														
GP087	4	68	14.0	2	-3	Y	VG	—	MS	MR	I	MR	MR	MR
GP097	5	70	12.9	5	-4	Y	VG	—	I	R	I	MR	R	I
GRAND MEAN		64	14.1											
LSD (0.05)		4	0.4											

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

2 Fusarium head blight (FHB) infection is highly influenced by environment and heading date. Under high levels of the disease all varieties will sustain damage.

SPRING WHEAT (continued)

Yield Comparisons

Class/Variety	Arborg	Beausejour	Boissevain	Dauphin	Hamiota	Melita	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill	2013 Yield (bu/acre)											
													C	E	R	E	A	L	C	R	O	P	S	C
Canada Western Red Spring																								
5605HR CL	80	—	83	79	97	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	83	
AAC Bailey	76	80	66	60	85	—	137	63	73	65	56	84												
AAC Brandon	85	81	88	74	98	—	132	85	104	87	60	90												
AAC Elie	87	80	83	82	102	—	141	77	105	81	62	85												
AAC Redwater	75	77	67	69	97	—	132	73	85	81	59	80												
Cardale	82	81	87	72	99	—	136	88	86	92	66	93												
CDC Kernen	75	86	72	77	94	—	123	79	87	85	54	84												
CDC Plentiful	75	82	77	85	97	—	125	75	84	85	64	104												
CDC Stanley	77	83	84	85	101	—	135	90	96	85	69	85												
CDC Thrive	79	89	73	73	100	—	121	70	82	81	58	87												
CDC Utmost VB	83	81	74	78	101	—	138	80	87	78	64	98												
CDC VR Morris	83	84	77	80	102	—	136	76	98	81	72	83												
Glenn	78	71	84	73	95	—	131	84	94	86	64	96												
KANE	72	78	71	75	98	—	126	77	94	78	58	93												
SY433	73	71	61	59	92	—	115	72	67	71	62	75												
Vesper VB	85	81	90	87	109	—	133	87	98	85	63	96												
Canada Western Hard White Spring																								
AAC Iceberg	82	85	74	71	93	—	133	84	80	77	50	82												
Whitehawk	76	83	69	60	101	—	125	76	88	77	49	97												
AAC Whitefox	82	—	78	82	103	—	—	—	—	—	—	92												
Varieties that have been supported for registration																								
Canada Western Red Spring																								
BW462	80	—	84	81	107	—	—	—	—	—	—	97												
PT584	77	—	74	76	97	—	—	—	—	—	—	85												
PT765	77	—	73	89	90	—	—	—	—	—	—	80												
Canada Western Hard White Spring																								
HW612	74	—	73	72	89	—	—	—	—	—	—	82												
SITE GRAND MEAN (bu/acre)	79	81	77	76	98	—	131	78	89	81	61	88												
CV%	3.9	8.4	6.1	6.8	3.7	—	6.5	3.5	6.7	3.9	3.6	7.1												
LSD (bu/acre)	5	—	8	9	6	—	—	5	10	5	4	10												
Sign Diff	Yes	No	Yes	Yes	Yes	—	No	Yes	Yes	Yes	Yes	Yes												
Canada Western Red Spring																								
Glenn	80	80	89	89	101	67	125	79	83	87	62	87												
Canada Prairie Spring Red																								
AAC Ryley	88	87	85	93	106	57	153	76	94	88	76	75												
Enchant VB	92	88	87	87	110	66	137	69	113	89	84	78												
SY985	87	79	87	87	107	62	137	75	93	98	79	85												
Canada Western General Purpose																								
AAC Proclaim	96	84	91	86	115	71	136	72	97	98	75	94												
CDC NRG003	81	83	86	84	111	61	151	0	104	86	81	97												
Pasteur	100	90	94	108	116	74	157	78	88	114	84	100												
Varieties that have been supported for registration																								
Canada Prairie Spring Red																								
HY995	86	—	83	98	114	—	—	—	—	—	—	92												
HY1319	88	—	90	91	106	—	—	—	—	—	—	93												
HY1610	93	—	96	89	115	—	—	—	—	—	—	103												
HY1615	80	—	90	89	111	—	—	—	—	—	—	63												
Canada Western General Purpose																								
GP087	81	—	94	84	110	—	—	—	—	—	—	87												
GP097	92	—	95	91	105	—	—	—	—	—	—	89												
SITE GRAND MEAN (bu/acre)	88	84	90	91	110	66	142	75	96	94	76	88												
CV%	3.6	5.9	4.5	6.2	5.6	5.7	4.7	7.7	11.2	3.2	4.2	7.7												
LSD (bu/acre)	5	—	7	10	—	7	12	—	—	5	5	11												
Sign Diff	Yes	No	Yes	Yes	No	Yes	Yes	No	No	Yes	Yes	Yes												
Seeding Date	21-May	15-May	17-May	20-May	23-May	29-May	15-May	13-May	23-May	09-May	13-May	06-Jun												
Harvest Date	10-Sep	03-Sep	22-Sep	24-Sep	30-Sep	11-Sep	12-Sep	28-Aug	04-Sep	22-Aug	02-Sep	03-Oct												

Off-Types, Variants and Uniformity in Wheat Varieties

Farmers surveying their crops love to see uniformity in the plant stand.

It is important to understand that there are no varieties where the plant stand is uniform, or 'tabletop'. Producers taking just a quick glance of any plant stand will see that some plants are taller and some are shorter.

In the past virtually all CWRS varieties were awnless and tall. The variations were typically not observed in the tall varieties, mostly because no one (except perhaps breeders and other scientists) was looking for them. The introduction of new CWRS varieties with tall awned types and awned semi-dwarf varieties now increases the likelihood of noticing off-types and variants within varieties.

Variants within varieties are described in the variety descriptions. These variants are determined by the Breeder. For example, number of tall bearded plants (off-types) allowed in an awned semi-dwarf variety.

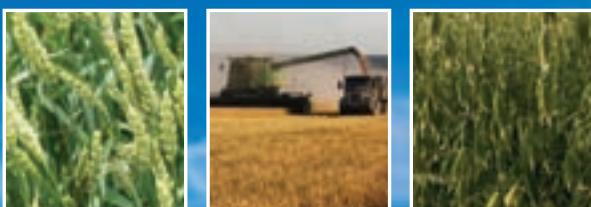
Producers appreciate the bonus of a semi-dwarf variety as it gives them high yields and standability. However with the shorter semi-dwarf variety the producer will be more likely to notice the tall variants (not tabletop).

AC® Muchmore CWRS is a semi-dwarf variety which has performed exceptionally well across Western Canada.

For more information about available semi-dwarf varieties contact your local FP Genetics shareholder or Territory Manager.



Why Certified Seed? Because you want the best!



At FP Genetics our focus is the success of our customers. We strive to be first by being innovative to maintain our competitive edge in the market. By being innovative at our core, we bring the best in products and services, which brings value and profit to our seed growers and the commercial growers they serve.

Wheat - CWRS

CDC Utmost VB
AC® Muchmore
AC® Harvest

Barley

AC® Newdale – 2R Malt
Legacy – 6R Malt
CDC Trey – 2R Feed

Oats - Milling

AC® Summit
AC® Leggett
CDC Minstrel
CDC Ruffian
AAC Justice

**Bringing Value and Profit
to Canadian Farms**

SPRING WHEAT (continued)

Protein Comparisons

Class/Variety	Arborg	Beausejour	Boissevain	Dauphin	Hamiota	Melfa	Neepawa	Rosebank	Souris	St. Adolphe	Stonewall	Thornhill	2013 Protein (%)
Canada Western Red Spring													
5605HR CL	13.3	—	13.8	12.8	14.1	—	—	—	—	—	—	—	14.8
AAC Bailey	13.5	14.1	13.9	13.3	14.5	—	14.3	13.8	15.5	14.4	14.6	15.1	
AAC Brandon	12.7	13.9	13.5	12.9	13.6	—	13.4	13.2	14.3	14.0	14.3	13.9	
AAC Elie	12.6	14.0	13.0	12.5	13.5	—	13.6	12.8	14.5	14.2	14.4	14.5	
AAC Redwater	13.8	14.5	13.8	13.5	13.6	—	13.8	13.5	15.0	14.7	14.2	14.8	
Cardale	13.4	14.6	13.9	13.4	14.0	—	13.9	13.3	14.8	14.5	14.4	14.6	
CDC Kernen	12.9	14.4	13.7	13.7	14.1	—	13.9	13.4	15.5	14.7	15.2	15.0	
CDC Plentiful	12.8	14.3	13.5	12.8	14.0	—	13.8	12.3	14.9	14.3	14.2	14.3	
CDC Stanley	13.0	14.8	13.3	12.5	13.8	—	13.4	13.4	14.9	14.5	14.4	14.5	
CDC Thrive	13.1	14.4	13.5	13.1	13.7	—	13.8	13.8	15.2	14.7	14.7	15.0	
CDC Utmost VB	12.9	14.8	13.7	13.0	13.9	—	14.1	13.0	14.7	14.7	14.5	14.5	
CDC VR Morris	12.9	14.9	14.0	12.8	13.5	—	13.0	12.4	15.3	14.6	14.3	15.1	
Glenn	12.8	14.3	13.1	13.0	13.6	—	13.1	13.4	14.0	14.4	14.3	14.4	
KANE	13.3	14.2	13.0	12.7	13.7	—	13.5	12.5	14.2	14.2	14.2	14.1	
SY433	13.3	14.9	13.6	13.1	14.0	—	13.9	13.5	15.4	14.6	14.8	15.2	
Vesper VB	13.0	14.6	13.4	12.2	13.4	—	13.4	13.9	14.1	14.9	15.2	14.2	
Canada Western Hard White Spring													
AAC Iceberg	12.9	13.7	12.7	12.5	13.5	—	12.2	12.8	14.3	14.1	13.8	14.1	
Whitehawk	12.6	14.2	13.1	12.4	12.9	—	12.6	13.3	13.9	14.4	13.8	13.5	
AAC Whitefox	12.4	—	12.7	11.6	12.9	—	—	—	—	—	—	13.5	
Varieties that have been supported for registration													
Canada Western Red Spring													
BW462	12.6	—	13.3	12.5	13.8	—	—	—	—	—	—	—	14.0
PT584	13.1	—	13.9	13.0	13.9	—	—	—	—	—	—	—	15.0
PT765	13.1	—	13.5	12.5	13.8	—	—	—	—	—	—	—	13.9
Canada Western Hard White Spring													
HW612	12.9	—	12.8	12.6	13.4	—	—	—	—	—	—	—	13.8
SITE GRAND MEAN (%)	13.0	14.4	13.4	12.8	13.7	—	13.5	13.2	14.7	14.5	14.4	14.4	
Canada Western Red Spring													
Glenn	12.8	14.4	13.4	13.7	13.4	—	13.0	12.6	13.9	14.4	14.4	14.4	
Canada Prairie Spring Red													
AAC Ryley	11.7	12.3	12.3	11.8	12.2	—	11.9	10.9	13.3	12.4	12.5	12.5	
Enchant VB	12.3	13.7	13.7	12.8	11.8	—	12.1	11.8	12.8	12.9	12.5	13.7	
SY985	11.5	13.3	12.7	12.7	12.8	—	12.4	11.4	13.7	13.2	13.0	13.5	
Canada Western General Purpose													
AAC Proclaim	11.3	12.2	12.6	12.0	12.1	—	11.3	11.9	12.9	12.1	12.7	12.9	
CDC NRG003	11.4	12.6	12.9	12.2	12.5	—	11.9	10.8	13.1	12.7	12.8	13.0	
Pasteur	11.7	12.5	13.0	12.0	12.3	—	11.6	10.7	13.5	12.4	12.7	13.2	
Varieties that have been supported for registration													
Canada Prairie Spring Red													
HY995	11.6	—	12.2	12.1	11.7	—	—	—	—	—	—	—	13.0
HY1319	11.8	—	12.7	12.2	12.6	—	—	—	—	—	—	—	13.4
HY1610	11.2	—	12.8	11.9	11.6	—	—	—	—	—	—	—	13.1
HY1615	11.5	—	11.9	11.4	11.8	—	—	—	—	—	—	—	12.6
Canada Western General Purpose													
GP087	12.8	—	13.2	13.3	12.5	—	—	—	—	—	—	—	14.1
GP097	11.4	—	12.2	11.9	12.0	—	—	—	—	—	—	—	12.8
SITE GRAND MEAN (%)	11.8	13.0	12.7	12.3	12.3	—	12.0	11.4	13.3	12.9	12.9	13.2	

New for 2013

Variety	Code	Breeder	Distributor	Seed Availability
AAC Current	DT813	AAFC - Swift Current	Alliance Seed Corporation	2015
AAC Marchwell VB	DT833	AAFC - Swift Current	SeCan	2016
AAC Raymore	DT818	AAFC - Swift Current	SeCan	2015
CDC Desire	DT561	Crop Development Centre	Syngenta Canada Inc.	2014
CDC Vivid	DT562	Crop Development Centre	Crop Protection Services (CPS)	2015

Varieties that have been supported for registration

DT570	Crop Development Centre
DT832	AAFC - Swift Current

Comments:

Limited seed of the new variety **CDC Desire** will be commercially available for seeding in Spring 2014.

Previous to 2013, durum wheat was last tested by MCVET in 2010.

The variety **AAC Marchwell VB** is the first midge tolerant durum variety registered for production in Canada. It will be grown as a varietal blend to protect the Sm1 gene.

The variety **AAC Raymore** is the first solid stemmed durum variety registered for production in Canada.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Protein %	Maturity		Spike Awned	Lodging	Sprouting	Resistance Level:					Fusarium ² Head Blight
				+/-	101 days				Loose Smut	Common Bunt	Leaf ¹ Spots	Stem Rust	Leaf Rust	
				G	—				MS	MR	I	R	R	MS
AAC Current	3	53	14.3	1	1	Y	G	—	MS	MR	I	R	R	MS
AAC Marchwell VB	3	66	14.3	0	0	Y	G	—	MR	R	MS	R	R	MS
AAC Raymore	3	64	14.1	0	0	Y	G	—	MS	MR	I	R	R	S
Brigade	21	72	13.3	2	2	Y	G	F	S	R	I	R	R	MS
CDC Desire	3	57	14.2	-2	0	Y	G	—	MS	R	I	R	R	S
CDC Verona	21	65	14.1	2	0	Y	G	F	MS	R	MS	R	R	MS
CDC Vivid	3	58	14.8	0	0	Y	VG	—	I	R	I	R	R	S
Enterprise	12	65	14.2	0	1	Y	F	F	MS	MR	I	R	R	MS
Eurostar	21	67	13.9	2	2	Y	F	F	S	R	I	R	R	MS
Strongfield	50	62	14.4	0	0	Y	G	F	S	MR	I	R	R	S
Transcend	9	67	14.1	2	3	Y	G	F	S	R	I	R	R	MS
Varieties that have been supported for registration														
DT570	3	64	14.2	1	0	Y	VG	—	MS	R	MS	MR	R	MS
DT832	3	72	14.1	0	0	Y	G	—	S	R	I	R	R	S
GRAND MEAN		65	14.1											
LSD (0.05)		6	0.5											

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	2013 Yield (bu/acre)		
	Boissevain	Melita	Souris
AAC Current	60	41	63
AAC Marchwell VB	58	69	86
AAC Raymore	62	54	83
Brigade	70	65	82
CDC Desire	59	47	83
CDC Verona	58	66	81
CDC Vivid	57	54	76
Eurostar	73	66	82
Strongfield	61	65	82
Transcend	60	61	85
Varieties that have been supported for registration			
DT570	71	51	79
DT832	79	64	87
SITE GRAND MEAN (bu/acre)	64	59	81
CV %	9.2	7.1	6.4
LSD %	10	7	9
Sign Diff	Yes	Yes	Yes
Seeding Date	17-May	27-May	23-May
Harvest Date	17-Sep	12-Sep	04-Sep

DURUM WHEAT (continued)

Protein Comparisons

Variety	2013 Protein (%)		
	Boissevain	Melita	Souris
AAC Current	14.2	—	13.1
AAC Marchwell VB	13.9	—	13.2
AAC Raymore	13.8	—	12.8
Brigade	12.9	—	11.8
CDC Desire	13.9	—	13.0
CDC Verona	14.1	—	12.6
CDC Vivid	14.1	—	14.4
Eurostar	13.3	—	12.6
Strongfield	14.1	—	13.3
Transcend	13.1	—	13.3
Varieties that have been supported for registration			
DT570	14.3	—	12.7
DT832	13.4	—	13.1
SITE GRAND MEAN (%)	13.8	—	13.0

WINTER WHEAT

New for 2014

Variety	Class	Code	Breeder	Distributor	Seed Availability
AAC Gateway	CWRW	W478	AAFC - Lethbridge	Seed Depot	2015
Emerson	CWRW	W454	AAFC - Lethbridge	CANTERRA SEEDS	2014
Swainson	CWGP	DH01-25-135*R	Department of Plant Sciences, U of S	Department of Plant Sciences, U of S	2014

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 **Emerson** will be commercially available for seeding in Fall 2014.

As of August 1, 2013, the varieties **CDC Kestrel**, **CDC Clair**, **CDC Harrier** and **CDC Raptor** belong to the Canada Western General Purpose class.

The Canadian Grain Commission will move **CDC Falcon** from the Canada Western Red Winter class to the Canada Western General Purpose class as of August 1, 2014.

Accipiter, **Broadview**, **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 the first winter wheat variety registered for production in Canada that 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 Head Blight	Relative ³ Winter Hardiness
Canada Western Red Winter											
AAC Gateway	5	79	11.9	1	M	VG	S	MR	I	I	F
CDC Buteo	91	79	11.3	4	M	G	S	I	I	MR	VG
CDC Falcon	95	78	11.3	0	E	VG	S	MR	MR	S	F
Emerson	5	79	12.6	4	M	VG	S	R	I	R	F
Flourish	21	82	11.5	2	E	VG	MR	I	I	S	F
McClintock	80	77	11.5	7	L	VG	S	R	MR	S	F
Moats	23	82	11.6	6	E	G	MS	R	R	S	G
Canada Western General Purpose											
Accipiter	35	82	11.0	3	M	VG	S	R	MR	MS	G
Broadview	32	81	11.0	2	E	VG	S	R	R	S	G
CDC Harrier	47	79	10.5	8	M	G	S	MR	MS	S	G
CDC Ptarmigan	41	81	9.7	8	M	F	S	S	S	I	G
CDC Raptor	73	76	11.2	3	M	VG	S	R	I	S	G

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
Peregrine	36	84	10.9	10	M	G	S	I	MR	I	VG
Sunrise	33	84	10.4	6	M	G	S	MR	MR	—	G
Swainson	15	86	10.9	8	M	F	S	R	R	—	F
Varieties that have been supported for registration											
Canada Western General Purpose											
1303-132-2	5	84	10.8	6	M	G	S	R	R	MS	F
1603-137-1	15	82	11.2	4	M	G	S	R	R	MS	G
GRAND MEAN		80	11.1								
LSD (0.05)		4	0.3								

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	2013 Yield (bu/acre)				
	Arborg	Beausejour	Carman	Stonewall	Winnipeg
Canada Western Red Winter					
AAC Gateway	79	63	84	92	88
CDC Buteo	86	71	87	95	99
CDC Falcon	80	59	86	82	82
Emerson	80	62	92	86	77
Flourish	84	—	88	98	87
Moats	91	48	96	94	100
Canada Western General Purpose					
Broadview	82	64	85	87	82
Sunrise	97	60	104	108	86
Swainson	108	66	113	117	86
Varieties that have been supported for registration					
Canada Western General Purpose					
1303-132-2	99	64	102	97	97
1603-137-1	91	58	93	110	93
SITE GRAND MEAN (bu/acre)	89	61	94	97	89
CV%	6.5	7.8	5.8	5.8	6.1
LSD (bu/acre)	10	8	9	10	12
Sign Diff	Yes	Yes	Yes	Yes	Yes
Seeding Date	05-Sep	25-Sep	17-Sep	06-Sep	11-Sep
Harvest Date	13-Aug	28-Aug	22-Aug	28-Aug	15-Aug

Protein Comparisons

Class/Variety	2013 Protein (%)				
	Arborg	Beausejour	Carman	Stonewall	Winnipeg
Canada Western Red Winter					
AAC Gateway	12.8	12.2	13.1	13.0	10.7
CDC Buteo	12.1	11.2	12.1	12.0	10.7
CDC Falcon	12.0	11.2	12.5	11.9	10.6
Emerson	13.0	13.1	13.8	13.4	12.0
Flourish	12.3	—	12.9	12.2	10.5
Moats	11.9	12.1	12.6	12.1	11.5
Canada Western General Purpose					
Broadview	11.4	10.9	12.2	11.6	10.5
Sunrise	11.1	10.9	11.5	11.4	9.7
Swainson	11.7	11.0	11.8	11.6	10.2
Varieties that have been supported for registration					
Canada Western General Purpose					
1303-132-2	11.3	11.0	11.6	11.9	10.2
1603-137-1	11.6	11.2	12.1	11.9	10.9
SITE GRAND MEAN (%)	11.9	11.5	12.4	12.1	10.7

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			

TRITICALE

Comments:

Triticale was last tested in 2000.

Triticale is used in Canada both as a food and livestock feed. Seed yield is generally higher than Glenlea wheat but protein content is slightly lower.

The newer available varieties, although susceptible, have reduced incidence of ergot compared to nonregistered varieties and rye.

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

Variety Descriptions

Variety	Yield % Check	Site Years Tested	Days to Maturity +/- Check	Height +/- Check	Resistance Level:				
					Lodging	Stem Rust	Leaf Rust	Bunt	Fusarium ¹ Head Blight
AC Alta	102	22	-1	-7	G	R	R	R	—
AC Certa	101	22	-3	-2	G	R	R	R	I
AC Copia	92	18	-2	-3	G	R	R	R	—
AC Ultima	104	5	-4	-4	G	R	R	R	I
Banjo	100		0	0	G	R	R	R	—
Pronghorn	97	17	-4	-2	G	R	R	R	MR
SANDRO	105	20	-3	-6	G	R	R	R	—
CHECK CHARACTERISTICS									
Banjo	62 bu/acre	32 site years	100 days	42 inches					

¹ Fusarium head blight (FHB) infection is highly influenced by environment and heading date. Data on varietal reaction to FHB is limited and should be used with caution. Under high levels of the disease all varieties will sustain damage.

Distributor Contacts for Varieties in Seed Manitoba 2014

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 Kindersley (2)◎	SeCan
CDC Meredith (2)◎	SeCan
CDC Polarstar (2)◎	CANTERRA SEEDS
Celebration (6W)◎	CANTERRA SEEDS
LEGACY (6W)◎	Crop Production Services (CPS) & FP Genetics
Major (2)◎	CPS Canada
Merit 57 (2)◎	CANTERRA SEEDS
Newdale (2)◎	FP Genetics
Tradition (6W)◎	Crop Production Services (CPS) & FP Genetics

Malting: Acceptance - Under Testing

AC Synergy (2)◎	Syngenta Seeds Canada Inc.
CDC Anderson (6)◎	SeCan
CDC Mayfair (6)◎	CANTERRA SEEDS
Cerveza (2)◎	Mastin Seeds
Norman (2)◎	FP Genetics
Malting: Other	
CDC Battleford (6W)◎	SeCan
CDC Kamsack (6)◎	CANTERRA SEEDS
CDC Kendall (2)◎	Crop Production Services (CPS)
CDC Reserve (2)◎	SeCan
Lacey (6W)◎	Alliance Seed Corporation
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
Desperado (6F)◎	Alliance Seed Corporation
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
CDC Lophy-I (2)	Crop Development Centre
Taylor (2)◎	Alliance Seed Corporation

OATS

AAC Justice	FP Genetics
AC Morgan	SeCan
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
Furlong◎	CANTERRA SEEDS
HiFi◎	Seed Depot
Jordan◎	SeCan
Leggett◎	FP Genetics
Pinnacle◎	FP Genetics

OATS

Ronald◎	SeCan
Souris◎	Seed Depot
Stainless◎	AAFC - Cereal Research Centre
Stride◎	SeCan
Summit◎	FP Genetics
Triactor◎	CANTERRA SEEDS

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AC Gwen	SeCan
GEHL◎	Wedge Farms
Navan	Eastern Cereal Research Centre

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AAC Brandon◎	SeCan
AAC Bailey◎	CANTERRA SEEDS
AAC Redwater◎	SeCan
AC Barrie◎	SeCan
AC Cadillac	FP Genetics
AC Domain	SeCan
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CDC Kernen◎	CANTERRA SEEDS
CDC Plentiful◎	FP Genetics
CDC Stanley◎	Crop Production Services (CPS)
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Pilot Mound; Wallace, Brad & Joe	204-825-2628	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	R
Virden; Heaman, Douglas J., Walter, Robert & Kenneth...	204-748-2666	C

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Minota; Walker, Lawrence William	204-567-3647	S
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Domain; Pitura, Carl & Calvin C.....	204-736-2849	S F C
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Glenella; Schmidt, Kenneth Frederick & Adrene, Lukin, Shirley	204-352-4435	S F R
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	C
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Brandon; Martens, David.....	204-728-5510	F
Brandon; Whetter, Rodney & Darren	204-727-0045	F R
Cromer; Bartel, Bob	204-662-4484	R
Crystal City; Smith, R. Wally.....	204-873-2248	F
Dauphin; Kaleta, James & Debra	204-638-8587	R
Decker; Murray, Donald H. & Ryan.....	204-764-2733	C
Domain; Pitura, Carl & Calvin C.....	204-736-2849	S R
Dufrost; Catellier, Patrick Raymond.....	204-347-5503	R
Elie; Lachance, J.B. Adrien & Paul M. & Lionel	204-353-2694	F R
Foxwarren; Graham, George Arthur.....	204-683-2367	R C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	F R
Holland; Patenaude, Donald & Robert	204-526-2391	R
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	F R
Mac Gregor; Hulme, Lorne.....	204-685-2627	F
Manitou; Sanders, Andre O. & Daniel	204-242-2576	F
Mather; Mc Lennan, Donald D.....	204-529-2372	R
Minto; Fraser, Rick G.....	204-776-2047	S F
Morris; Hamblin, Lorne & Christine	204-746-6403	S
Notre Dame; Durand, Gabriel A. & Marc.....	204-248-2268	S
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	S R

SPRING WHEAT

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Oakville; Miller, Darcy Charles	204-267-2283	S	R
Pilot Mound; Wallace, Brad & Joe	204-825-2628	R	
Plum Coulee; Janzen, Ken & Ernie A.	204-829-7749	S	
Portage; Sanderson, Garry	204-857-8406	S	R
Portage; Sissons, Grant G., Donald Angus & Blye	204-857-7341	S	R
Rosenort; Friesen, Rick & Lloyd	204-746-8325	S	R
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S	R
Somerset; Sierens, Joseph & Chris	204-744-2883	S	R
Somerset; Van Deynze, Marc	204-744-2384	R	
St. Leon; Labossiere, Luc N. & Rejean F.	204-744-2208	S	R
Treherne; Stinson, Gary Donald	204-723-2319	R	
Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	S	F R
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	S	

AAC ELIE©

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	F
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AAC ICEBERG©

Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	R
Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696	F
Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	S F R
Winnipeg; Alliance Seed Corporation.....	204-272-2890	C

AAC PROCLAIM©

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S F
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AAC RYLEY©

Swan River; Alford, Wayne G.	204-734-2526	R
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AC BARRIE©

Binscarth; Pizsey, Tim V.	204-683-2316	C
Portage; Pugh, William G. & B.M.	204-274-2179	R

AC CADILLAC

Cromer; Bartel, Patrick	204-662-4466	C
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AC DOMAIN

Dauphin; Ritchie, John Ross & Raymond	204-638-7543	C
Dauphin; Ritchie, Raymond	204-638-7543	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	R C
Kenville; Carmichael, John A.	204-734-3913	R C
Plum Coulee; Janzen, Ken & Ernie A.	204-829-7749	S F 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	S	C
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CARBERRY©

Altona; Sawatsky, Joni	204-324-6140	C
Altona; Wiebe, Henry D. & Lloyd	204-324-8036	R C
Binscarth; Cook, Gerry	204-532-2268	C
Binscarth; Pizsey, Tim V.	204-683-2316	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
Boissevain; Peters, Scott	204-534-6692	C
Brandon; Martens, David	204-728-5510	C
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Brandon; Whetter, Rodney & Darren	204-727-0045	S F R
Carman; Elias, Isaac	204-745-3301	C
Carman; Mc Cutcheon, Shawn Milton	204-745-3245	R C
Carman; Menold, Thomas	204-745-3377	R
Clearwater; Bere, Craig R.	204-529-2558	C
Crandall; Doupe, Neil D.	204-562-3632	C
Cromer; Bartel, Bob	204-662-4484	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
Darlingford; Wilson, James M.	204-246-2388	C
Dauphin; Fisher, Roderick Allan & Douglas James	204-622-8800	C
Dauphin; Kaleta, James & Debra	204-638-8587	C
Dauphin; Ritchie, John Ross & Raymond	204-638-7543	R C
Dauphin; Ritchie, Raymond	204-638-7543	C
Decker; Murray, Donald H. & Ryan	204-764-2733	C
Deloraine; Bolduc, Ronald And Bell, A.J. & J.C.	204-747-2913	R C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Domain; Pitura, Carl & Calvin C.	204-736-2849	S F R
Dufrost; Catellier, Patrick Raymond	204-347-5503	C
East Selkirk; Kuzminski, John William	204-482-3813	C
Elie; Lachance, J.B. Adrien & Paul M. & Lionel	204-353-2694	R C
Elphinstone; Gerrard, Jody	204-759-2213	C
Foxwarren; Falloon, Larry	204-683-2247	R C
Foxwarren; Graham, George Arthur	204-683-2367	C
Gladstone; Milne, Wilmot George	204-385-2486	C
Grandview; Storey, R. Kip & Troy K.	204-546-2590	C
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	S R C
Holland; Vigar, Murray & Gary	204-526-2108	R
Holland; Zeghers, Donald Edmond	204-526-2145	F C
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	C
Inglis; Jackson, Glenn & Carman	204-564-2293	C
Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696	R C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	C
Kenville; Carmichael, John A.	204-734-3913	R C
Killarney; Brinkschulte, Hermann	204-523-7464	C
Killarney; Chatham, Don & Linda	204-523-8412	C

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La Salle; Turski, Robert	204-736-4130	C
La Salle; Wiens, Edward & Ernie	204-736-2646	R
Lowe Farm; Penner, Curtis	204-829-3556	C
Mac Gregor; Hulme, Lorne	204-685-2627	C
Manitou; Hieber, Robert J.	204-242-3040	R
Manitou; Sanders, Andre O. & Daniel	204-242-2576	R
Miniota; Walker, Alan Glen	204-567-3647	C
Minto; Ayre, Andrew	204-776-2333	C
Minto; Fraser, Rick G.	204-776-2047	R C
Morden; Park, Robert J.	204-745-0088	R
Morris; Dueck , Arthur	204-746-2026	C
Morris; Hamblin, David & Lorraine	204-746-4779	C
Newdale; Wareham, Bruce E.	204-849-2029	C
Notre Dame; Durand, Gabriel A. & Marc.....	204-248-2268	S F C
Notre Dame; Durand, Leo	204-248-2372	R
Oak Lake; Smith, Gerald R.& Leigh E.....	204-855-2808	R C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Oakville; Miller, Darcy Charles	204-267-2283	C
Pilot Mound; Cavers, Landon	204-825-2012	C
Pilot Mound; Wallace, Brad & Joe	204-825-2628	C
Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	R
Plum Coulee; Janzen, Ken & Ernie A.	204-829-7749	R
Plumas; Court, Randolph A. & Jeanine.....	204-386-2354	S F C
Plumas; Tonn, Todd	204-386-2206	S F R
Portage; Askin, Raymond T. & Jeffrey S.	204-274-2417	C
Portage; Sanderson, Garry	204-857-8406	R
Portage; Simons, Grant G., Donald Angus & Blye	204-857-7341	S F R
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	F C
Rivers; Krahn, Abe M., Ronald J. & Robert A.	204-328-7189	S C
Rivers; Redspur Ent. Ltd.....	204-328-5346	C
Rosenort; Friesen, Rick & Lloyd	204-746-8325	S F R C
Rosburn; Mitchell, John	204-859-2431	R C

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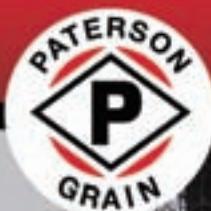
Rosser; Krym, Lynden.....	204-467-5143	F R C
Russell; Keating, Mark.....	204-773-3854	C
Sanford; Bergen, Edward Harry & Tim.....	204-736-2278	S F R
Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon.....	204-842-3786	C
Somerset; Sierens, Joseph & Chris	204-744-2883	F R
Somerset; Van Deynze, Marc	204-744-2384	C
Souris; Kohut, Anton.....	204-483-2004	R C
St. Joseph; Parent, Renald & Paul	204-737-2625	C
St. Joseph; Remillard, Aime J.....	204-737-2230	C
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	F R
Ste. Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
Ste. Rose; Gagnon, Arthur Donald.....	204-447-2118	C
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	S F R
Swan River; Oberlin, Walter John & George.....	204-734-2292	C
Treherne; Stinson, Gary Donald.....	204-723-2319	R
Virden; Hutchison, Barry	204-851-6157	C
Warren; Jones, Gavin R.	204-322-5604	C
Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	C
Wawanese; Ellis, Warren P.	204-824-2290	C
Wawanese; Ellis, Warren P. & Simon.....	204-824-2290	C
Winkler; Ens, Abram E. & Chris & Friesen, Jake	204-325-4658	C
Winnipeg; James, David J.& Dorothy	204-222-8785	C

CARDALE

Arborg; Timchishen, Doanld Victor & Darcy	204-376-5116	R
Binscarth; Pizsey, Tim V.....	204-683-2316	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Carman; Menold, Ulrich.....	204-745-2822	R
Crystal City; Fallis, J. Allan & Mark A.	204-873-2305	R
Crystal City; Smith, R. Wally.....	204-873-2248	R

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Darlingford; Wilson, James M.....	204-246-2388	F R
Dauphin; Fisher, Roderick Allan & Douglas James.....	204-622-8800	R
Dauphin; Kaleta, James & Debra	204-638-8587	R
Domain; Pitura, Carl & Calvin C.....	204-736-2849	C
Domain; Wiens, Robert Frank	204-736-2951	C
Dufrost; Catellier, Patrick Raymond.....	204-347-5503	C
Elphinstone; Gerrard, Jody.....	204-759-2213	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray.....	204-548-2805	R
Glenboro; Jefferies, Ron.....	204-827-2102	R
Grandview; Storey, R. Kip & Troy K.	204-546-2590	R
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	R
Holland; Zeghers, Donald Edmond	204-526-2145	R
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	S R C
Lowe Farm; Penner, Curtis.....	204-829-3556	R C
Mac Gregor; Hulme, Lorne.....	204-685-2627	R
Minto; Ayre, Andrew	204-776-2333	R
Morris; Hamblin, David & Lorraine	204-746-4779	C
Notre Dame; Durand, Gabriel A. & Marc.....	204-248-2268	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	R C
Oakville; Miller, Darcy Charles	204-267-2283	R
Pilot Mound; Seed Depot Corporation	204-825-2000	S F R C
Pilot Mound; Smith, John M. & Walter George.....	204-825-2715	F R C
Plumas; Court, Randolph A. & Jeanine.....	204-386-2354	F R C
Portage; Pugh, William G. & B.M.....	204-274-2179	F C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	F R
Rosenort; Friesen, Rick & Lloyd.....	204-746-8325	S F C
Russell; Keating, Mark.....	204-773-3854	C
Solsgirth; Nickel, James D. & John H. & Kevin J. & J.Gordon	204-842-3786	C
Somerset; Sierens, Joseph & Chris	204-744-2883	S F R
Souris; Kohut, David Anton	204-483-3063	R
Ste. Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
Ste. Rose; Gagnon, Arthur Donald.....	204-447-2118	R C
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	C
Teulon; Kletke, Herbert T. & Helen Eva & Glenn H.....	204-886-2822	C
Virden; Heaman, Douglas J., Walter, Robert & Kenneth... <td>204-748-2666</td> <td>R C</td>	204-748-2666	R C
Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	F 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	S F C
Elm Creek; Runne, James Armin	204-745-0145	C
Kenville; Carmichael, Hugh E.....	204-734-3672	R
Minto; Fraser, Rick G.....	204-776-2047	C
Morris; Friesen, Lonnie.....	204-746-6632	C
Swan River; Alford, Wayne G.	204-734-2526	R

CDC PLENTIFUL©

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S F
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	F
Swan River; Alford, Wayne G.	204-734-2526	S F

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CDC STANLEY©

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C
Foxwarren; Falloon, Larry	204-683-2247	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C
Plum Coulee; Janzen, Ken & Ernie A.	204-829-7749	C
Winnipeg; Canamera Foods Limited	204-925-1754	C

CDC UTMOST VB©

Binscarth; Pizzey, Tim V.	204-683-2316	
Grandview; Storey, R. Kip & Troy K.	204-546-2590	
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	
Inglis; Jackson, Glenn & Carman	204-564-2293	
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	
Russell; Keating, Mark.....	204-773-3854	
Russell; Woroneski, Frank M.	204-773-3262	
Swan River; Alford, Wayne G.	204-734-2526	

CDC VR MORRIS©

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

CONQUER VB©

Winnipeg; Canterra Seeds Ltd.	204-988-9750	S
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ENCHANT VB©

Swan River; Alford, Wayne G.	204-734-2526	
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FIELDSTAR VB©

Binscarth; Cook, Murray	204-532-2239	
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GLEN CROSS VB

Portage; Faurschou, Gerald W.....	204-252-2411	
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GLENN©

Binscarth; Cook, Gerry	204-532-2268	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Boissevain; Peters, Scott	204-534-6692	C
Crandall; Doupe, Neil D.	204-562-3632	C
Darlingford; Wilson, James M.....	204-246-2388	C
Dauphin; Kaleta, James & Debra	204-638-8587	C
Decker; Murray, Donald H. & Ryan.....	204-764-2733	C
Domain; Pitura, Carl & Calvin C.....	204-736-2849	C
Domain; Wiens, Robert Frank	204-736-2951	C
Dufrost; Catellier, Patrick Raymond.....	204-347-5503	C
Grandview; Storey, R. Kip & Troy K.	204-546-2590	R
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	C
Holland; Zeghers, Donald Edmond	204-526-2145	C
Inglis; Beischer, Derek.....	204-564-2117	C

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Mac Gregor; Hulme, Lorne.....	204-685-2627	C
Manitou; Sanders, Andre O. & Daniel	204-242-2576	C
Minota; Walker, Alan Glen	204-567-3647	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Plumas; Court, Randolph A. & Jeanine.....	204-386-2354	C
Portage; Munro, Clarke Allan & Jared Cory & Trevor Clarke. 204-857-8272	C	
Portage; Sissons, Grant G., Donald Angus & Blye	204-857-7341	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	C
Rivers; Redspur Ent. Ltd.....	204-328-5346	C
St. Joseph; Parent, Renald & Paul	204-737-2625	C
Virden; Heaman, Douglas J., Walter, Robert & Kenneth... 204-748-2666	C	
Winkler; Ens, Abram E.& Chris & Friesen, Jake	204-325-4658	C

HARVEST©

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Boissevain; Peters, Scott	204-534-6692	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	C
Grandview; Storey, R. Kip & Troy K.	204-546-2590	R C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	R C
Holland; Zeghers, Donald Edmond	204-526-2145	C
Inglis; Jackson, Glenn & Carman.....	204-564-2293	C
Killarney; Brinkschulte, Hermann	204-523-7464	C
Killarney; Chatham, Don & Linda	204-523-8412	C
Newdale; Wareham, Bruce E.....	204-849-2029	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Plumas; Court, Randolph A. & Jeanine.....	204-386-2354	C
Russell; Keating, Mark.....	204-773-3854	C
Russell; Woroneski, Frank M.	204-773-3262	R
Somerset; Sierens, Joseph & Chris	204-744-2883	F R C
Souris; Kohut, David Anton	204-483-3063	C
Swan River; Alford, Wayne G.	204-734-2526	R C

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KANE©

Boissevain; Latimer, Kevin B. & Duane E.....	204-534-6631	R
Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952	C
Holland; Marginet , Reginald	204-526-2544	R C
Holland; Patenaude, Donald & Robert	204-526-2391	C
Plumas; Tonn, Todd	204-386-2206	F R
Portage; Sanderson, Garry	204-857-8406	R
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	C

MUCHMORE©

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Gilbert Plains; Tokar, Bob & Stoughton, Murray	204-548-2805	R
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	S R C
Killarney; Brinkschulte, Hermann	204-523-7464	C
Killarney; Chatham, Don & Linda	204-523-8412	C
Newdale; Wareham, Bruce E.....	204-849-2029	C
Plumas; Court, Randolph A. & Jeanine.....	204-386-2354	C
Plumas; Court, Randolph A. & Jeanine.....	204-386-2354	C
Russell; Keating, Mark.....	204-773-3854	R C
Somerset; Sierens, Joseph & Chris	204-744-2883	F R
Souris; Kohut, Anton.....	204-483-2004	C
Souris; Kohut, David Anton	204-483-3063	F C
Swan River; Alford, Wayne G.	204-734-2526	R C

PASTEUR

Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Boissevain; Peters, Scott	204-534-6692	C
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Carman; Menold, Thomas	204-745-3377	R
Crandall; Doupe, Neil D.	204-562-3632	C
Darlingford; Wilson, James M.....	204-246-2388	C

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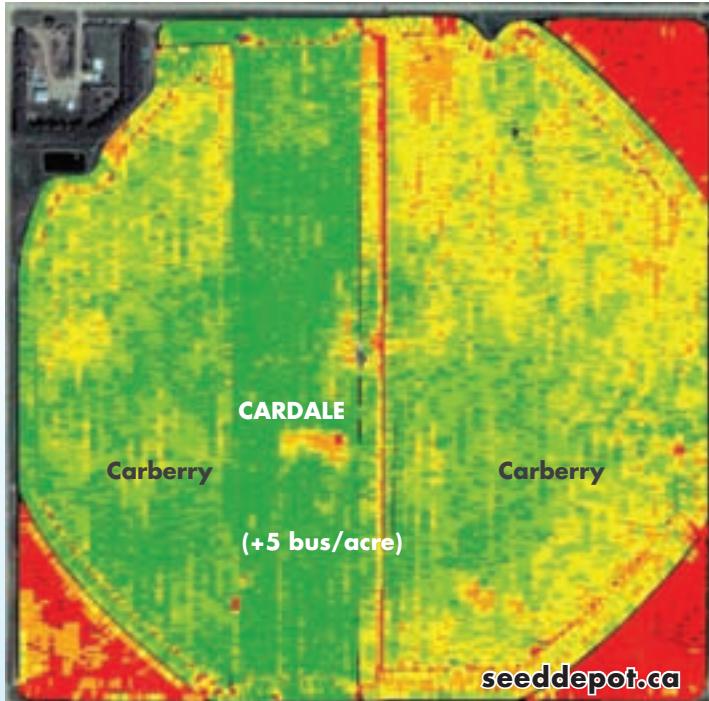
S=Select; F=Foundation; R=Registered; C=Certified; ® Indicates Plant Breeders' Rights protected. Other varieties may have PBR protection pending.

Decker; Murray, Donald H. & Ryan.....	204-764-2733	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S R C
Dufrost; Catellier, Roger & Richard	204-347-5503	C
Fannystelle; Nadreau, Brian	204-436-2469	C
Glenella; Schmidt, Kenneth Frederick & Adrienne, Lukin, Shirley	204-352-4435	S
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	C
Holland; Patenaude, Donald & Robert	204-526-2391	C
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	C
Kenton; Stevenson, Richard D.O. & Douglas	204-838-2696	C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	C
Killarney; Brinkschulte, Hermann	204-523-7464	C
Mac Gregor; Hulme, Lorne	204-685-2627	R
Minto; Ayre, Andrew	204-776-2333	C
Morden; Park, Robert J.	204-745-0088	C
Morris; Hamblin, Donald & Bradley	204-746-8233	C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Oakville; Miller, Darcy Charles	204-267-2283	C
Pilot Mound; Wallace, Brad & Joe	204-825-2628	C
Plumas; Court, Randolph A. & Jeanine	204-386-2354	C
Rivers; Redspur Ent. Ltd.....	204-328-5346	C
Rosenort; Friesen, Rick & Lloyd	204-746-8325	C
Russell; Christopher, Bruce	204-773-3850	C
Russell; Keating, Mark	204-773-3854	C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	C
Somerset; Sierens, Joseph & Chris	204-744-2883	C
Souris; Kohut, David Anton	204-483-3063	C
Ste. Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
Virden; Heaman, Douglas J., Walter, Robert & Kenneth... 204-748-2666	204-227-5679	R C
Warren; Riddell, Clifford Royden & Craig Thomas	204-824-2290	C

SPRING WHEAT

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SNOWBIRD®	Rosser; Krym, Lynden	204-467-5143	C
SNOWSTAR®	Crystal City; Fallis, J. Allan & Mark A.	204-873-2305	R
	Killarney; Chatham, Don & Linda	204-523-8412	C
	Mather; Mc Lennan, Donald D.	204-529-2372	C
UNITY VB®	Binscarth; Cook, Murray	204-532-2239	
	Boissevain; Martens, Ben F. & John J. & Ryan	204-534-6952	
	Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	
VESPER VB®	Binscarth; Cook, Gerry	204-532-2268	
	Binscarth; Cook, Murray	204-532-2239	
	Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	
	Crandall; Doupe, Neil D.	204-562-3632	
	Fox Warren; Graham, George Arthur	204-683-2367	
	Fox Warren; Hamilton, Frank James	204-683-2496	
	Glenboro; Jefferies, Ron	204-827-2102	
	Mather; Mc Lennan, Donald D.	204-529-2372	
	Minota; Walker, Alan Glen	204-567-3647	
	Minto; Fraser, Rick G.	204-776-2047	
	Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	
	Solsgirth; Nickel, James D. & John H. & Kevin J. & J. Gordon	204-842-3786	
	Virden; Heaman, Douglas J., Walter, Robert & Kenneth... 204-748-2666		



Manitoba Farmers, This is Will Van Roessel's Cardale vs Carberry results last year - Seed Growers experienced similar or even better results this year. I believe Cardale may work just as well on your farm. All the best as you make plans for 2014.

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✓ Excellent Disease Package ✓ Medium Maturity
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Agassiz Seed Farm Ltd.	745-2868	Miller Agritec	267-2363
Avondale Seed Farm Ltd.	877-3813	Nickel Bros.	773-6734
Boissevain Select Seeds	534-6846	Pitura Seed Service Ltd.	736-2849
Catellier Seeds	347-5588	Pugh Seeds Ltd.	274-2179
Clearview Acres Ltd.	748-2666	David Hamblin	746-4779
Court Seeds	386-2354	Riddel Seed Co	227-5679
Dauphin Plains Seeds Ltd.	638-7800	Rutherford Farms Ltd.	467-5613
David Kohut Ltd.	483-3063	Bob Wiens	736-2951
Durand Seeds Inc	745-7577	Seine River Seed	355-4495
Ellis Farm Supplies Ltd.	824-2290	Sierens Seed Service	744-2883
Ens Quality Seeds	325-4658	Smith Seeds	873-2248
Fisher Seeds Ltd.	622-8800	Southern Seeds Ltd	776-2333
Friesen Seeds Ltd.	746-8325	Swan Valley Seeds	734-2526
Gagnon Seed Service	447-2118	T&S Seeds	548-2117
Hulme Agri Products Inc.	685-2627	Timchishen Seeds	376-5116
Inland Seed Corp.	683-2316	Triple "S" Seeds Ltd.	546-2590
J.S. Henry & Sons Ltd.	566-2422	Unger Seed Farm Ltd.	467-8630
Jeffries Seed Service	827-2102	Westman Aerial Spray	763-8998
Keating Seed Farms	773-3854	Wheat City Seeds	727-3337
Kleike Seed Farms	886-2822	Wilson Seeds Ltd.	246-2388
MB Seeds	746-4652	Zeghers Seed Farm	526-2145

C E R E A L C R O P S

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WASKADA©

Rosburn; Mitchell, John 204-859-2431 C

WHITEHAWK©

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

WINTER WHEAT**AAC GATEWAY©**

Crystal City; Smith, R. Wally 204-873-2248 S
 Glenboro; Jefferies, Ron 204-827-2102 S
 Plumas; Court, Randolph A. & Jeanine 204-386-2354 S
 Rosenort; Friesen, Rick & Lloyd 204-746-8325 S
 Sanford; Bergen, Edward Harry & Tim 204-736-2278 S
 Warren; Riddell, Clifford Royden & Craig Thomas 204-227-5679 S

ACCIPITER©

Plumas; Tonn, Todd 204-386-2206 C

BROADVIEW©

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

CDC BUTEO

Dauphin; Kaleta, James & Debra 204-638-8587 C
 Rivers; Redspur Ent. Ltd 204-328-5346 C

WINTER WHEAT

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CDC FALCON

Altona; Sawatsky, Joni 204-324-6140 C
 Altona; Sawatzky, John 204-324-6364 C
 Altona; Wiebe, Henry D. & Lloyd 204-324-8036 C
 Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 C
 Carman; Dyck, Brad J. 204-745-3415 C
 Darlingford; Wilson, James M. 204-246-2388 C
 Elm Creek; Runne, James Armin 204-745-0145 C
 Glenboro; Jefferies, Ron 204-827-2102 C
 Grosse Isle; Rutherford, Jack A. & Rick 204-467-5613 C
 Killarney; Brinkschulte, Hermann 204-523-7464 C
 Lowe Farm; Penner, Curtis 204-829-3556 C
 Mac Gregor; Sims, Curtis Edwin 204-685-2237 C
 Morris; Hamblin, David & Lorraine 204-746-4779 C
 Morris; Hamblin, Lorne & Christine 204-746-6403 C
 St. Joseph; Parent, Renald & Paul 204-737-2625 C
 Ste. Anne; Dueck, Jacob Eldon, Brian J. & Ken G. 204-355-4495 C

EMERSON©

Altona; Wiebe, Henry D. & Lloyd 204-324-8036 F
 Darlingford; Wilson, James M. 204-246-2388 S
 Dauphin; Kaleta, James & Debra 204-638-8587 S F
 Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S F
 Domain; Pitura, Carl & Calvin C. 204-736-2849 S F
 Dufrost; Catellier, Patrick Raymond 204-347-5503 S F
 Fannystelle; Nadeau, Brian 204-436-2469 F
 Glenella; Schmidt, Kenneth Frederick & Adrene, Lukin, Shirley 204-352-4435 S F
 Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 S F
 Holland; Zeghers, Donald Edmond 204-526-2145 S F
 Lowe Farm; Penner, Curtis 204-829-3556 F
 Mac Gregor; Hulme, Lorne 204-685-2627 F
 Morris; Dueck, Arthur 204-746-2026 F
 Morris; Hamblin, David & Lorraine 204-746-4779 F
 Morris; Hamblin, Lorne & Christine 204-746-6403 S
 Portage; Munro, Clarke Allan & Jared Cory & Trevor Clarke. 204-857-8272 F
 Reston; Greig, Fred L. & Fotheringham, John A. (Jack).... 204-877-3813 F
 Rosenort; Friesen, Rick & Lloyd 204-746-8325 F
 Thornhill; Rothenburger, Kelvin W. 204-822-1444 S F

FLOURISH©

Altona; Sawatsky, Joni 204-324-6140 R
 Altona; Wiebe, Henry D. & Lloyd 204-324-8036 C
 Arborg; Timchishen, Doanld Victor & Darcy 204-376-5116 F C
 Boissevain; Armstrong, Duncan T. & A.J. 204-534-2566 R C
 Brandon; Whetter, Rodney & Darren 204-727-0045 R
 Carman; Dyck, Ron A. 204-745-3415 R
 Carman; Elias, Isaac 204-745-3301 C
 Crystal City; Smith, R. Wally 204-873-2248 R
 Darlingford; Wilson, James M. 204-246-2388 F R
 Dauphin; Fisher, Roderick Allan & Douglas James. 204-622-8800 R
 Domain; Johnson, David & Don 204-746-0275 R C
 Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S F R C
 Domain; Pitura, Carl & Calvin C. 204-736-2849 S F R
 Dufrost; Catellier, Patrick Raymond 204-347-5503 C
 Dufrost; Catellier, Roger & Richard 204-347-5503 C
 Elm Creek; Runne, James Armin 204-745-0145 C
 Elphinstone; Gerrard, Jody 204-759-2213 R
 Fannystelle; Nadeau, Brian 204-436-2469 C
 Glenboro; Jefferies, Ron 204-827-2102 R
 Glenella; Schmidt, Kenneth Frederick & Adrene, Lukin, Shirley 204-352-4435 F R
 Grosse Isle; Rutherford, Jack A. & Rick 204-467-5613 R C
 Hazelridge; Saramaga, Robert P. & Andrew 204-755-2817 S R
 Holland; Zeghers, Donald Edmond 204-526-2145 S F C
 Killarney; Brinkschulte, Hermann 204-523-7464 C
 Landmark; Gehrer, Uli 204-326-8439 C
 Lowe Farm; Penner, Curtis 204-829-3556 S R C
 Mac Gregor; Sims, Curtis Edwin 204-685-2237 R C
 Morden; Park, Robert J. 204-745-0088 R
 Morden; Rampton, Denzil J. 204-822-3369 C
 Morris; Dueck, Arthur 204-746-2026 R C
 Morris; Hamblin, David & Lorraine 204-746-4779 F R

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 Excellent for Ethanol Production
 Short Straw & Very High Yields
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Ptarmigan

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 High Yields

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Carberry

Short, High Yielder

Vesper

Midge Tolerant, Tall Straw, Strong Yielder And Protein

SPRING**Barley**

CDC Merideth, Versitile Two Row Malt

WINTER WHEAT

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Morris; Hamblin, Donald & Bradley	204-746-8233	R
Morris; Hamblin, Lorne & Christine	204-746-6403	S
Notre Dame; Durand, Gabriel A. & Marc	204-248-2268	S F
Oakville; Miller, Darcy Charles	204-267-2283	C
Plumas; Court, Randolph A. & Jeanine	204-386-2354	R C
Portage; Askin, Raymond T. & Jeffrey S.	204-274-2417	R C
Portage; Munro, Clarke Allan & Jared Cory & Trevor Clarke.	204-857-8272	C
Portage; Yuill, Kevin A.	204-857-8708	R
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	R
Rosenort; Friesen, Rick & Lloyd	204-746-8325	C
Rosser; Krym, Lynden.....	204-467-5143	C
Rosser; Mulligan, Kenneth	204-322-5373	R
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S F C
Somerset; Sierens, Joseph & Chris	204-744-2883	C
Somerset; Van Deynze, Marc	204-744-2384	C
St. Claude; Rouire, Roland & Guy.....	204-379-2582	C
St. Joseph; Parent, Renald & Paul	204-737-2625	C
St. Leon; Labossiere, Luc N. & Rejean F.....	204-744-2208	R
Ste. Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	R
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	R C
Thornhill; Rothenburger, Kelvin W.	204-822-1444	R
Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	R
Winnipeg; James, David J.& Dorothy	204-222-8785	R

MOATS

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

Mather; Mc Lennan, Donald D.....	204-529-2372	C
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FALL RYE

DANKO

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S F R C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Souris; Kohut, David Anton	204-483-3063	S F

HAZLET

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R C
Dauphin; Durston, James A.....	204-638-7623	S R
Glenella; Schmidt, Kenneth Frederick & Adrene, Lukin, Shirley	204-352-4435	R
Holland; Patenaude, Donald & Robert	204-526-2391	R
Holland; Zeghers, Donald Edmond	204-526-2145	S C
Morden; Park, Robert J.....	204-745-0088	R

TRITICALE (WINTER)

FRIDGE

Glenella; Schmidt, Kenneth Frederick & Adrene, Lukin, Shirley	204-352-4435	R C
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45H29 RR	46S53 RR
45H31 RR	46H75 CL
45S52 RR	D3153 RR
45S54 RR	D3154S RR

Nexera CANOLA

1012 RR	2012 CL
---------	---------

VICTORY HYBRID CANOLA

V12-1	v2045
V12-2	



73-75 RR	74-54 RR
74-44 BL	

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VR 9560 CL	

BrettYoung™

6060 RR	6044 RR	5525 CL
6056 CR	6040 RR	
6050 RR	5535 CL	

CANTERRA SEEDS

CANTERRA 1970	CANTERRA 1990
---------------	---------------

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on varieties.



Variety Description Key

A "CHECK CHARACTERISTICS" box has been placed at the bottom of each table for mustard and soybeans 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, flax and sunflowers 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.

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Key to 2013 Yield Tables

Yields derived over 2 or more growing seasons are the best indicator of variety performance. For new varieties, "2013 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 on page 57.

Soybean Comments

For specific notes regarding the soybean tables, refer to the SOYBEAN COMMENTS on page 66.

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In three seasons, 6060 RR has established itself as a yield-leading variety in any herbicide system. 6060 RR has shown market leading performance and consistency of performance in a variety of growing conditions. In addition to the BCT and CPT trials, in over 40 dealer and strip trials conducted between 2010 and 2012, 6060 RR out-yielded the competition by 3%.

6060 RR produces a heavily-podded impressive crop with excellent standability and is rated R for Blackleg. With an early seeding date and top tier fertility management, 6060 RR shows how great your canola yields are destined to be.

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Manitoba Agriculture, Food and Rural Development Variety Guide

CANOLA

Canola Comments

The Variety Descriptions table summarizes the performance of canola varieties that will be available for planting in spring 2014. The post-registration Canola Performance Trial (CPT) includes the use of the appropriate herbicide products matching herbicide tolerant (HT) varieties.

The CPT information within Seed Manitoba 2014 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. This also includes comparing performance of small plot trials with field scale trial results. 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 compassions of the yield performance to the standard 73-75RR that is included in all small plot and field scale trials, 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 58) was collected from small plot, replicated trials, that are typically less than 0.25 acre in size. Varieties have been entered by the representative marketing company for testing.

Field scale trials range from 0.5 to 1.5 acres in size 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 performance results presented are those varieties that were also included in the testing under small plot, replicated trials.

Blackleg Rating for Canola

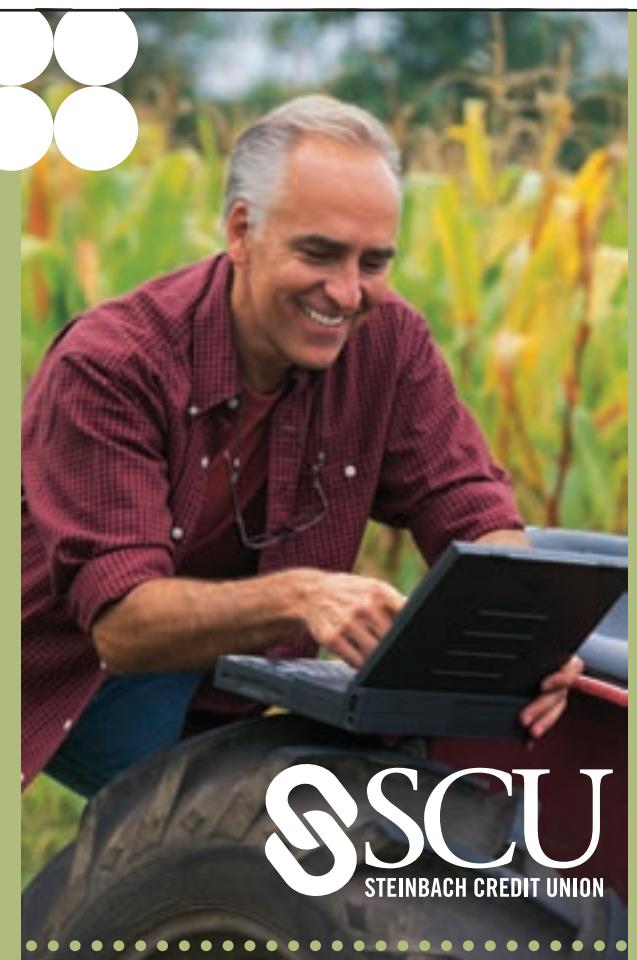
The rating represents a variety's blackleg tolerance relative to the highly susceptible variety Westar. Varieties with a resistant (R) or moderately resistant (MR) rating for blackleg have shown the greatest ability to suppress blackleg incidence and severity, but can still develop some lesions or cankers. 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.

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CANOLA (continued)

Comments:

Note: All varieties tested in the 2013 Canola Performance Trials are Hybrid canola varieties

Variety Descriptions

Distributor	Variety (B.napus)	Average Yield		LONG Season Zone (2 trials)				MID Season Zone (14 trials)				WCC/RRC Blackleg Tolerance
		MID-LONG Zone bu/ac	%73-75RR	Yield (bu/ac)	Maturity (days)	Lodging (1-5)	Height (inches)	Yield (bu/ac)	Maturity (days)	Lodging (1-5)	Height (inches)	
Clearfield Tolerant												
BrettYoung	5525 CL	71	94%	85	94	2.3	52	69	100	2.4	46	R
Crop Production Services	VR 9560 CL †	74	98%	87	93	2.8	52	72	102	2.9	49	R
	LSD (bu/ac)			13				9				
Liberty Tolerant												
Bayer CropScience	5440	78	103%	100	94	1.6	51	75	99	2.1	48	R
Bayer CropScience	L252	83	110%	112	95	1.9	51	79	101	2.5	48	R
Bayer CropScience	L261	79	104%	101	96	1.6	60	76	102	2.2	52	R
Bayer CropScience	L130	75	99%	94	93	1.6	52	72	99	2.0	48	R
Bayer CropScience	L154	78	103%	103	93	3.0	52	74	99	2.9	48	R
Bayer CropScience	L159	79	105%	98	95	2.0	55	77	100	2.3	50	R
	LSD (bu/ac)			14				7				
Roundup Tolerant												
CANTERRA SEEDS	1990	77	102%	99	92	2.9	50	74	100	2.9	46	R
BrettYoung	6044 RR	73	97%	97	95	1.4	51	70	99	1.9	45	R
BrettYoung	6050 RR	73	96%	91	93	3.5	47	70	99	3.4	44	R
BrettYoung	6060 RR	75	100%	98	97	1.9	53	72	103	2.4	48	R
Dekalb	73-45 RR	70	93%	87	92	3.3	44	68	98	3.5	42	R
Dekalb	73-75 RR	76	100%	101	92	3.5	48	72	99	3.2	44	R
Dekalb	74-44 BL	74	98%	94	92	3.3	48	72	98	3.2	43	R
Dekalb	74-47 CR	74	98%	102	96	2.9	51	70	101	3.0	46	R
Dekalb	74-54 RR	74	98%	95	92	3.6	48	71	99	3.5	45	R
Syngenta Canada Inc.	SY4114	75	100%	101	92	3.1	48	72	99	3.1	44	R
Syngenta Canada Inc.	SY4135	75	100%	100	92	3.3	49	72	99	3.3	44	R
Cargill - Victory Hybrid	V12-1*†	76	101%	93	93	2.1	53	74	100	2.3	47	R
Cargill - Victory Hybrid	V12-2*†	72	96%	93	96	1.9	51	69	101	2.3	45	R
Crop Production Services	VR 9562 GC	76	100%	98	94	2.0	53	73	99	2.5	48	R
Crop Production Services	VT 530 G	76	101%	96	93	2.0	53	73	100	2.2	48	MR
Varieties that have been supported for registration												
Cargill - Victory Hybrid	09H7757	78	103%	95	97	1.8	55	75	103	2.2	50	R
DL Seeds	10DL30109	73	97%	94	95	2.0	53	71	100	2.3	46	R
DL Seeds	10DL30509	78	103%	99	96	1.4	52	75	102	2.0	46	R
	LSD (bu/ac)			11				7				
GRAND MEAN (bu/ac)		75		97	94	2	51	73	100	3	46	

* Indicates varieties with Specialty oil profiles

† Indicated varieties with premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details

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CANOLA PERFORMANCE TRIAL — 2013 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
5440	55	100	9	54	102	19
L130	55	101	16	54	102	30
L154	55	100	4	55	105	8
L159	54	99	2	54	102	6
L252	59	108*	7	55	104*	16
L261	59	107*	7	55	103	14
1990	56	102	1	53	100	16
6060 RR	53	97	4	51	93*	7
73-15 RR	—	—	—	55	104*	20
73-45 RR	55	99	13	54	101	40
73-75 RR	55	100	22	53	100	68
74-44 BL	56	102	18	55	104*	50
74-47 CR	54	98	4	52	98	21
74-54 RR	56	101	14	57	103*	42
SY4114	—	—	—	54	102	3
SY4135	—	—	—	52	98	3
V12-1	—	—	—	52	99	10
V12-2	—	—	—	51	97	7
VT 530 G	—	—	—	55	104	1

* denotes 5% level of statistical significance using paired t-tests.

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*Source: 2012 Field-Scale Canola Performance Trials

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

Variety (B.napus)	2013 Yield: % of 73-75 RR														
	LONG SEASON ZONE						MID SEASON ZONE								
	Brandon ¹	Brandon ²	Cardale	Howden	Melita	Minto	Neepawa	Ninette	Portage La Prairie	Rapid City	Somerset	St. Adolphe	Woodside	Arborg	Swan River
5440		104	109		89		110		102		100				
L130	89	103	107	101	92		110		105	94	95	105		117	
L154				98			109				100				
L159							104								
L252		113	111				114		106			106			
L261		110	113				110		110			105			
1990													92		
73-45 RR	90			99	110		104		90	103		80	96	109	
74-44 BL	100	103	107	97	110	106	107		98	106	99	89	102	113	
74-47 CR													106		
74-54 RR	101			91	104	104	101		106	100		92	105	108	
6060 RR					96										
73-75 RR (bu/ac)	55	56	54	67	48	44	58	46	51	55	60	64	42	70	59

FLAX

New for 2014

Variety	Code	Breeder	Distributor	Seed Availability
CDC Neela	FP 2314	Crop Development Centre	CANTERRA SEEDS	2015
Westlin 70	FP2325	Crop Production Services (CPS)	Crop Production Services (CPS)	2014
Westlin 71	FP2347	Crop Production Services (CPS)	Crop Production Services (CPS)	2014

Varieties that are being tested or proposed for registration

FP2308 AAFC (Morden)

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.

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FLAX (continued)

Variety Descriptions

Variety	Site		Maturity		Seed		Oil Quality ¹ :			Resistance to:	
	Years Tested	Yield bu/acre	+/- 102 days	+/- 27 inches	Size TKW	Oil Content	Iodine Number	ALA Content	Lodging ²	Fusarium Wilt	Powdery Mildew
AAC Bravo	9	31	1	0	6.4	44.6	194.0	60.2	G	MR	MR
AC Carduff	6	31	0	-1	5.6	44.7	192.3	57.0	VG	MR	MR
AC Emerson	30	31	-2	-1	6.4	43.8	196.1	59.3	G	R	R
AC Watson	3	30	-2	-2	6.2	44.4	192.7	57.1	VG	MR	R
CDC Arras	13	31	0	-2	6.1	45.2	189.2	54.4	G	MR	MS
CDC Bethune	107	33	0	0	5.8	45.6	188.6	54.7	G	MR	MR
CDC Glas	9	34	1	1	5.2	45.8	192.0	56.6	G	MR	MR
CDC Neela	9	32	1	1	5.7	45.5	194.4	59.1	G	MR	MR
CDC Sanctuary	20	34	3	1	5.8	45.6	190.7	57.2	G	MR	MR
CDC Sorrel	50	34	1	1	6.4	45.1	192.7	57.8	F	MR	MR
Flanders	1	32	1	-2	5.3	45.4	191.9	57.2	F	MR	MR
Hanley	69	31	-2	-2	5.7	44.7	197.7	58.6	VG	R	MR
Lightning	40	32	1	-2	6.0	47.6	192.5	56.1	G	MR	R
Macbeth	29	33	0	-1	6.2	47.7	193.1	56.7	G	R	MR
NorLin	50	31	0	-1	5.7	43.5	189.7	56.7	VG	MR	MS
Prairie Blue	68	33	1	-1	5.2	46.3	192.2	57.3	VG	MR	MR
Prairie Grande	40	32	-2	-4	5.8	45.6	192.9	57.5	G	MR	MR
Prairie Sapphire	31	34	2	-1	5.8	48.1	193.1	57.2	G	MR	MR
Prairie Thunder	47	32	0	-3	5.9	45.3	194.7	57.9	G	R	MR
Taurus	39	32	0	-1	5.6	45.6	187.0	53.9	VG	MR	R
Vimy	4	32	1	0	6.1	45.0	191.9	57.6	F	MR	MS
Westlin 70	9	31	2	2	6.4	45.8	194.5	61.9	G	MR	R
Westlin 71	5	33	2	-2	5.6	47.5	198.1	61.2	G	MR	MS
Varieties that are being supported for registration											
FP 2308	9	33	1	0	5.8	45.5	191.8	57.5	G	MR	MR
GRAND MEAN (bu/ac)		32									
LSD (0.05)		2									

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	2013 Average Yield (bu/ac)	2013 Yield (bu/acre)				
		Arborg	Hamiota	Morden	Stonewall	Rosebank
AAC Bravo	44	38	44	42	32	63
CDC Bethune	49	41	55	44	37	69
CDC Glas	53	45	54	47	41	76
CDC Neela	47	43	48	47	30	65
CDC Sanctuary	52	49	55	51	41	63
Prairie Sapphire	49	44	52	47	40	64
Westlin 70	43	40	48	43	35	48
Westlin 71	50	42	52	45	35	74
Varieties that have been supported for registration						
FP 2308	49	43	50	45	43	61
SITE GRAND MEAN (bu/ac)	43	51	46	37	65	
CV%	4.3	4.7	4.5	7.1	4.3	
LSD (bu/ac)	3	4	4	5	5	
Sign Diff	Yes	Yes	Yes	Yes	Yes	
Seeding Date	03-May	23-May	24-May	13-May	27-May	
Harvest Date	07-Oct	30-Sep	23-Sep	17-Sep	02-Oct	



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Comments:

All varieties are rated resistant tolerance to blackleg.

Data is donated and approved for publication by the Prairie Recommending Committee for Oilseeds (PRCO).

Variety Descriptions¹

Variety	Yield % Check	Site Years Tested	Days to Maturity +/- Check	Height +/- Check	Mucilage ² cS* ml/g	Fixed Oil % Seed	Protein % Seed
Yellow - Sinapis alba	% of AC Pennant						
AC Pennant	100	94	0	0	42.0	29.4	34.7
AC Base	100	94	+1	+3	38.3	29.2	34.7
Ace	98	94	+2	+5	46.7	29.0	35.3
Adante	100	94	+1	+5	51.9	28.2	35.6
Oriental - Brassica juncea	% of Cutlass						
AC Vulcan	98	85	0	+1	—	40.6	29.6
Cutlass	100	85	0	0	—	41.1	29.2
Forge	97	85	+2	+10	—	38.8	29.7
Brown - Brassica juncea	% of Commercial Brown						
Centennial Brown	102	85	0	+4	—	36.6	30.0
Commercial Brown	100	85	0	0	—	38.1	28.8
Duchess	103	85	0	+1	—	38.2	28.8
CHECK CHARACTERISTICS							
Yellow - AC Pennant	1716	94	91	96			
Oriental - Cutlass	2078	85	91	114			
Brown - Commercial Brown	1890	85	92	111			
lb/ac		site years	days	cm			

1 All varieties are tested at all locations (Co-operative Mustard Test location) from a 10 year period of 1999-2008.

2 Mucilage is a measure of viscosity.

SOYBEANS

NOTES FOR ALL SOYBEAN TABLES

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

- 1 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
- 2 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.
- 3 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.
- 4 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:

- 1 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.
- 2 Hilum colour can range from Yellow (Y), Imperfect Yellow (IY), Grey (G), Brown (BR), Buff (BF) or Black (BL) and is solely a marketing issue. The hilum is the point on the soybean seed where it attaches to the pod.
- 3 Relative Seeds/lb, these were the seed numbers of the varieties entered into the trial. Soybean seed size can vary greatly between varieties and even from seed lot to seed lot of the same variety. Growers should use the seed size for their seed lot when calculating seeding rates.
- 4 Lodging is rated at harvest; 1=standing upright, 5= flat along the ground. A rating of 3 or more can promote white mould within the crop canopy.
- 5 Iron Deficiency Chlorosis (IDC) rating scores 1=green leaves, 2=yellowish leaves, 3=green veins with yellow leaves, 4=brown dead tissue between green veins, 5=severe chlorosis and a stunted growing point. Ratings were taken from 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.
- 6 Iron Deficiency Chlorosis (IDC) grouping is used because varieties will have different visual rating scores from year to year. Numerical ratings which are close but are in different groupings will show similar symptoms. Both numerical and groupings should be considered together when judging IDC. Tolerant=leaves stayed green, Semi Tolerant=leaves when yellow then turned green, Susceptible= leaves went chlorotic and had dead patches on their leaves and were often stunted.

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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 2013, trials were located at Carberry, Hamiota, Melita, and Roblin.

Variety Descriptions

Variety	Company	Yield	Site	Days to ¹	+/- Check	2013 Yield: % of 23-10RY			
	Heat	%	Years	Maturity		Carberry	Melita	Hamiota	Roblin
Units	Check	Tested							
P001T34R	2300	82	4	-7		83	96	65	105
29002RR	2375	87	9	-6		104	54	77	93
NSC Anola RR2Y	2350	109	4	-2		113	94	107	120
TH 33003R2Y	2400	106	5	-2		113	108	93	130
NSC Moosomin RR2Y	2300	100	4	-2		101	91	78	130
23-10RY	2325	100	10	0		100	100	100	100
Bishop R2	2450	98	5	0		107	112	82	107
MCLEOD R2	2375	112	5	0		125	102	110	129
NSC Tilston RR2Y	2400	110	5	0		122	107	106	130
LS 002R23	2375	111	5	1		130	96	108	127
Pekko R2	2325	95	10	1		93	100	99	47
900Y71	2450	103	10	1		119	143	90	102
TH 32004R2Y	2425	115	10	1		131	121	114	127
NSC Libau RR2Y	2375	101	5	2		109	133	99	79
NSC Reston RR2Y	2325	99	5	2		103	116	106	83
900Y61	2425	101	10	2		112	127	98	107
Vito R2	2350	101	5	2		110	103	83	110
PRO 2525R2	2450	120	4	3		127	115	128	110
Sampsa R2	2425	96	10	5		93	111	79	79
Varieties that have been supported for registration									
LS002R24N	113	4	0			109	101	123	121
NSC Gladstone RR2Y	113	4	0			116	119	103	113
EXP00313R2	105	4	1			111	98	103	105
TH 33005R2Y	116	4	3			121	101	126	113
FLZ612A4	107	4	5			98	121	99	116
CHECK CHARACTERISTICS									
23-10 RY				23-10RY (bu/acre)		58	37	47	42
	48	10	135	CV%		7.7	14.2	9.3	6.5
	bu/ acre	site years	days to maturity	LSD%		13	23	15	11
				Sign Diff		Yes	yes	Yes	Yes
					Seeding Date	16-May	16-May	26-May	22-May
					Harvest Date	18-Oct	10-Oct	15-Oct	17-Oct

¹ Maturity Based on Data from Carberry and Melita

Not all varieties reached 95% Brown pod in Roblin and Hamiota before first frost

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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

Manitoba Variety Grouping	Company Heat Unit	Variety	Relative Days to Maturity +/- Check				Yield % Check	Site Years Tested	Lodging	Seeds/lbs	IDC Rating (1-5)	2012 Yield: % of OAC Prudence				
			Average	2012	2011	2010						Carman	St. Adolphe	Morris	Rosebank	Morden
Short Season	2375	AC QGC 12N	-8	—	-7	-9	77	40	2.8	5200	2.3	—	—	—	—	—
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				115	114	106	125	49	49	OAC Prudence (bu/acre)		48	36	38	75	74
				days to maturity		bu/acre	site years	CV%		3.9	4.8	6.1	6.5	6.9		
						LSD%		8	9	10	10	10	12			
						Sign Diff		Yes	Yes	Yes	Yes	Yes	Yes			

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



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CONVENTIONAL SOYBEANS

Comments:

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

Variety Descriptions

Manitoba Variety Zones	Company Heat Unit	Variety	Relative Days to Maturity ¹ + / - Check			Yield % Check	Site Years Tested	Hilum Colour	Relative Seeds/lb	Lodging ²	
			Average	2013	2012					Clay Soil	Loam Soil
Mid Season Zone	2450	OAC Prudence	0	0	0	100	82	Y	2691	1.1	1.8
	2500	AAC Mandor	2	3	1	109	23	Y	2465	1.0	2.3
Varieties that have been supported for registration											
Long Season Zone	OT11-01	-4	-2	-5		112	10	IY	3106	1.1	1.3
	OAC 11-02C	5	6	4		111	11	Y	2408	1.1	1.7
Varieties that have been supported for registration											
OT11-03	5	5	5			116	11	Y	2223	1.0	1.3
SeCan 11-05C	2	5	0			110	17	Y	2364	1.0	2.1
OT12-02	8	8	—			117	6	Y	2699	1.1	2.2
CHECK CHARACTERISTICS											
OAC Prudence		114	114	114		50	82				
		days to maturity				bu/acre		site years			

1 Maturity Ratings for 2013 are average across Carman, Morris, St. Adolphe, Portage

2 Lodging ratings are an average across Loam soils (Portage and Carman) and Clay soils (St. Adolphe, Morris)

YIELD COMPARISONS

Manitoba Variety Zones	Variety	2013 Average Yield	Site Years Tested	2013 Yield: % of OAC Prudence					
				Core Sites			Late Sites		
				Carman	Morris	Portage	St. Adolphe	Rosebank	Morden
Mid Season Zone	OAC Prudence	100	6	100	100	100	100	100	100
	AAC Mandor	119	6	123	121	105	118	125	127
Varieties that have been supported for registration									
OT11-01	110	6	111	108	103	108	136	97	
OAC 11-02C	112	6	110	119	105	115	116	110	
Varieties that have been supported for registration									
OT11-03	117	6	110	123	112	98	130	126	
SeCan 11-05C	118	6	107	120	111	118	135	116	
OT12-02	117	6	117	119	122	114	117	115	
Check Characteristics		OAC Prudence (bu/acre)		47	37	71	48	60	64
		CV %		5.1	4.6	3.9	3.7	6.1	6.0
		LSD %		9	8	7	6	10	10
		Sign Diff		Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date			17-May	24-May	17-May	16-May	24-May	16-May	
Harvest date			04-Oct	25-Sep	05-Oct	02-Oct	17-Oct	04-Oct	



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TM

ROUNDUP READY SOYBEANS

New for 2014

Variety	Previous Code	Distributor	Seed Availability
00703	DAS 00703 R3	Hyland Seeds	2014
24-61RY	24-61RY	DEKALB	2014
Gray R2	SC2450R2	Secan	2013
HS 007RY32	HX 007RY32	Hyland Seeds	2014
LS 002R23	LS 002R23	Delmar Commodities	2013
McLeod R2	SC2375R2	Secan	2013
NSC Moosomin RR2Y	NSC Moosomin RR2Y	Northstar Genetics Manitoba	2014
NSC Niverville RR2Y	NSM EXP 1209N R2	Northstar Genetics Manitoba	2013
NSC Reston RR2Y	NSM EXP 1225 R2	Northstar Genetics Manitoba	2013
NSC Tilstion RR2Y	NSMR2-EXP G10	Northstar Genetics Manitoba	2013
P001T34R	PH12004	DuPont Pioneer	2014
S007-Y4	AR1111955	Syngenta Canada	2014
S00-T9	X2R00922	Syngenta Canada	2013
TH 33003R2Y	TH 33003R2Y	Quarry Seeds Ltd	2013

Variety Descriptions

Manitoba Variety	Company Heat Maturity	Relative Days to Maturity ²						Site Years	Hilum	Relative	Lodging ³		IDC ⁴			
		+ / - Check		%	Average	2013	2012				Check	Tested	Colour	Seeds/lb	Clay	Loam
Zones	Unit	Grouping	Variety	Type ¹	Average	2013	2012	Check	Tested	Colour	Seeds/lb	Clay	Loam	(1-5)	Grouping	Notes ⁵
Short Season Zone	2300	00.1	P001T34R	RR1	-10	-12	-8	75	11	BR	2935	1.0	1.0	2.0	ST	—
	2300	000	NSC Moosomin RR2Y	R2Y	-8	-8	—	82	6	BR	3209	1.0	1.2	2.5	S	—
	2325	000	Pekko R2	R2Y	-5	-5	-5	96	16	BL	2389	1.0	1.3	2.1	ST	—
	2325	00.1	NSC Reston RR2Y	R2Y	-5	-5	-4	101	12	BL	2653	1.2	2.3	2.9	S	1k
	2325	00.1	23-10RY	R2Y	-4	-4	-4	96	18	BL	3128	1.1	1.4	1.8	ST	1c
	2400	00.7	S007-Y4	R2Y	-4	-4	—	104	6	IY	2441	1.0	1.7	2.0	ST	1k
	2450	00.2	Bishop R2	R2Y	-4	-4	-3	94	17	IY	2987	1.3	2.3	2.8	S	—
	2350	00.2	NSC Anola RR2Y	R2Y	-3	-4	-1	102	16	BL	2930	1.1	2.0	1.8	ST	1c
	2425	00.4	TH 32004R2Y	R2Y	-3	-4	-1	105	18	BL	3400	1.4	2.2	1.7	ST	1c
Varieties that have been supported for registration																
PH12005																
FLZ612A4																
EXP00313R2																
LS002R24N																
Mid Season Zone	2375	00.2	LS 002R23	R2Y	-2	-2	-1	102	12	BL	2719	1.1	1.5	1.9	ST	—
	2450	00.7	S00-B7	R2Y	-2	-4	0	93	11	BL	2377	2.1	2.5	2.3	S	1a
	2400	00.3	TH 33003R2Y	R2Y	-1	-2	0	101	15	BR	3200	1.4	2.3	1.7	ST	1c
	2475	00.6	Chadburn R2	R2Y	-1	-1	-1	100	19	BL	3086	1.0	1.5	1.7	T	—
	2375	00.3	McLeod R2	R2Y	-1	-2	0	104	12	BL	2473	1.1	1.3	1.7	T	—
	2350	00.3	Vito R2	R2Y	-1	-1	-1	96	16	GR	3160	1.5	2.3	1.7	ST	1k
	2375	00.4	NSC Libau RR2Y	R2Y	-1	0	-1	100	18	BL	2800	1.0	1.6	1.8	ST	1c
	2375	00.4	NSC Tilstion RR2Y	R2Y	0	-1	1	101	16	BL	2965	1.1	2.4	1.9	ST	—
	2425	00.5	NSC Elie RR2Y	R2Y	0	-1	1	104	19	BL	2673	1.0	1.8	2.3	ST	1k
	2425	00.4	004R21	R2Y	0	0	0	100	22	BL	3153	1.0	1.9	1.6	T	1a
	2425	00.5	24-10RY	R2Y	0	0	0	104	22	IB	2645	1.0	1.8	2.2	ST	1k
	2425	00.6	900Y61 1	RR1	1	-1	2	96	18	BR	2608	1.0	1.5	1.6	T	1c
	2450	00.7	900Y71 1	RR1	1	1	1	98	18	IY	2935	1.0	1.9	1.7	T	1c
	2450	00.5	Gray R2	R2Y	1	0	1	101	12	BL	3300	1.0	1.5	2.0	ST	1c
	2425	00.8	Sampsa R2	R2Y	1	0	1	106	14	IB	2092	1.0	1.3	2.0	ST	1c
	2425	00.3	LS 003R22	R2Y	1	1	0	101	18	BL	2827	1.1	2.1	1.8	ST	—
	2450	00.6	HS 006RYS24	R2Y	1	1	1	103	17	BL	2900	1.1	2.1	1.7	T	SCN
	2500	00.8	Beurling R2	R2Y	1	0	2	94	17	BL	3220	2.4	3.1	2.1	ST	—
Varieties that have been supported for registration																
NSC Gladstone RR2Y																
TH 33005R2Y																
S00-N6																
TH 34006R2Y																
SC2380 R2																
CFS 12.302R2																

Manitoba Variety Zones	Company Heat Unit	Maturity Grouping	Variety	Type ¹	Relative Days to Maturity ²			Yield % Check	Site Years Tested	Hilum Colour Seeds/lb	Relative Lodging ³	IDC ⁴													
					Average	2013	2012					Clay	Loam	Rating (1-5)											
Long Season Zone	2500	00.7	HS 007RY32	R2Y	2	2	2	111	11	BL	2950	1.1	1.7	1.8 ST 1c,1k											
	2525	00.7	PS 0074 R2	R2Y	2	1	3	107	11	BR	2900	1.3	3.0	1.6 T —											
	2450	00.6	NSC Niverville RR2Y	R2Y	2	2	2	111	11	BL	4093	1.1	2.7	1.6 T SCN,1c											
	2475	00.6	LS 006R21	R2Y	3	2	3	104	14	BL	2999	1.1	1.4	2.0 ST —											
	2475	00.7	NSC Richer RR2Y	R2Y	3	2	3	109	16	BL	2937	1.1	2.3	1.6 T 1c											
	2500	00.7	LS 007R22	R2Y	3	2	4	109	11	BL	3278	1.4	3.0	2.3 ST —											
	2500	00.9	S00-T9	R2Y	3	1	4	114	11	BL	2383	1.0	1.8	1.6 T 1k											
	2475	00.7	24-61RY	R2Y	3	3	—	104	6	BL	3094	1.0	1.8	1.7 T 1c											
	2500	00.8	PS 0083 R2	R2Y	3	3	3	99	16	BL	2600	1.0	1.5	2.3 S —											
	2475	00.7	00703	R2Y	3	3	3	109	11	BR	2900	1.0	1.9	2.6 S —											
	2475	00.5	LS 005R22	R2Y	3	3	3	101	11	BL	2886	1.1	2.1	1.8 ST —											
	2500	00.8	Currie R2	R2Y	4	5	3	108	17	BL	2950	1.1	2.3	1.8 ST 1k											
	2500	00.9	25-10RY	R2Y	5	4	5	107	14	BL	2310	1.2	2.2	1.8 ST 1c											
	2525	00.7	Astro R2	R2Y	6	6	5	112	14	BL	3100	1.0	2.2	1.9 ST 1k											
	Varieties that have been supported for registration				LS005R24 R2Y 4 4 — 111 6 BL 2760 1.3 2.6 1.8 ST —																				
CHECK CHARACTERISTICS																									
004R21 117 120 115 50 22 days to maturity bu/acre site years																									

1 R2Y Indicates Genuity Roundup Ready 2 Yield Soybeans

2 Maturity Ratings for 2013 are average across Carman, Morris, St. Adolphe, Portage

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

4 IDC Groupings, where S=Susceptible; ST=Semi-Tolerant; T=Tolerant and NT = Not Tested

5 Notes 2a, 1c, etc. Phytoph. Resist. Genes, SCN = Soybean Cyst Nematode Resistance



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ROUNDUP READY SOYBEANS (continued)

Yield Comparisons

		2013 Average Yield	Site Years Tested	2013 Yield: % of 004R21							
				Early Sites		Core Sites			Late Sites		
Manitoba Variety Zone		Variety		Beausejour	Stonewall	Carman	Morris	Portage	St. Adolphe	Morden	Rosebank
Short Season Zone	P001T34R	69	6	56	84	71	72	71	64	—	—
	NSC Moosomin RR2Y	82	6	73	88	93	94	72	78	—	—
	Pekko R2	91	6	83	87	95	96	91	96	—	—
	NSC Reston RR2Y	94	6	91	100	98	99	84	99	—	—
	23-10RY	84	6	67	90	84	85	88	90	—	—
	S007-Y4	104	6	89	111	114	102	101	112	—	—
	Bishop R2	89	6	84	95	99	93	80	90	—	—
	NSC Anola RR2Y	98	6	85	103	101	100	93	111	—	—
	TH 32004R2Y	100	6	87	108	104	99	95	110	—	—
Varieties that have been supported for registration											
Mid Season Zone	PH12005	77	6	65	88	86	74	74	78	—	—
	FLZ612A4	100	6	84	107	115	104	89	106	—	—
	EXP00313R2	99	6	91	103	99	99	101	102	—	—
	LS002R24N	101	6	96	99	102	104	97	109	—	—
	LS 002R23	97	6	85	97	99	104	98	101	—	—
	S00-B7	94	6	92	99	103	100	83	97	—	—
	TH 33003R2Y	97	6	87	90	110	98	96	102	—	—
	Chadburn R2	98	6	91	92	99	103	95	110	—	—
	McLeod R2	99	6	98	104	105	98	97	95	—	—
	Vito R2	93	6	85	94	96	104	86	95	—	—
	NSC Libau RR2Y	97	6	88	94	97	99	99	102	—	—
	NSC Tilston RR2Y	96	6	90	95	107	98	91	99	—	—
	NSC Elie RR2Y	97	6	95	99	101	97	94	98	—	—
	004R21	100	8	100	100	100	100	100	100	100	100
	24-10RY	99	8	87	100	102	99	96	101	110	95
	900Y61	92	6	82	98	95	89	93	92	—	—
	900Y71	93	6	82	99	98	94	93	95	—	—
	Gray R2	99	6	88	93	112	102	92	108	—	—
Long Season Zone	Sampsaa R2	102	6	—	—	105	99	93	106	128	88
	LS 003R22	90	6	78	93	96	98	83	98	—	—
	HS 006RYS24	102	6	93	105	105	108	97	105	—	—
	Beurling R2	97	6	—	—	100	100	94	95	112	83
	Varieties that have been supported for registration										
	NSC Gladstone RR2Y	99	6	93	102	103	103	94	104	—	—
	TH 33005R2Y	109	6	—	—	120	105	98	111	126	100
	S00-N6	99	6	84	102	102	108	101	99	—	—
	TH 34006R2Y	105	6	—	—	100	104	105	99	114	108
	SC2380 R2	98	6	95	100	101	105	87	107	—	—
	CFS 12.302R2	100	6	88	86	107	101	109	103	—	—
	HS 007RY32	106	6	—	—	107	103	97	108	119	104
	PS 0074 R2	118	6	—	—	102	108	116	107	152	118
	NSC Niverville RR2Y	110	6	—	—	99	106	110	98	136	108
	LS 006R21	102	6	—	—	103	102	99	98	117	92
	NSC Richer RR2Y	111	6	—	—	103	113	91	111	148	107
	LS 007R22	109	6	—	—	93	108	98	110	138	108
	S00-T9	118	6	—	—	126	116	109	111	132	117
	24-61RY	103	6	—	—	104	103	99	106	110	98
	PS 0083 R2	103	6	—	—	95	98	96	100	118	109
	00703	106	6	—	—	106	105	99	102	122	105
	LS 005R22	103	6	—	—	102	106	92	107	124	93
	Currie R2	108	6	—	—	107	107	96	104	131	103
	25-10RY	109	6	—	—	112	109	86	115	126	114
	Astro R2	118	6	—	—	113	108	110	117	142	116
Varieties that have been supported for registration											
LS005R24		110	6	—	—	104	109	101	112	132	105
CHECK CHARACTERISTICS		004R21 (bu/acre)		57	47	53	44	74	55	58	67
		CV%		7.6	5.6	5.2	4.8	8.0	4.1	6.9	7.3
		LSD%		12	9	8	8	13	7	11	12
		Sign Diff		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Seeding Date				24-May	22-May	17-May	24-May	16-May	16-May	16-May	27-May
Harvest Date				03-Oct	24-Sep	03-Oct	25-Sep	07-Oct	30-Sep	04-Oct	17-Oct



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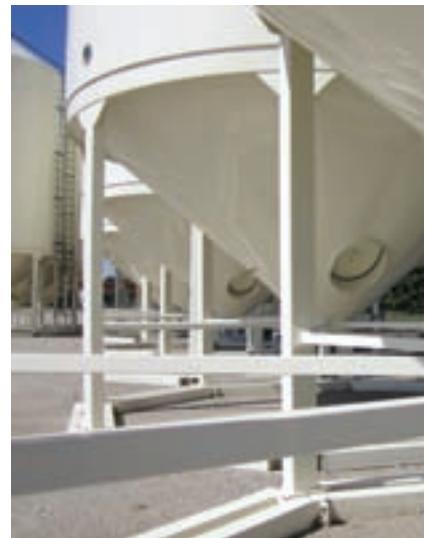
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SUNFLOWERS — Non-Oil Type

Comments:

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

All sunflower varieties currently available are susceptible to sclerotinia rot. Weather conditions and presence of sclerotinia inoculum play a major role in disease development and severity.

More detailed information from individual trial locations will be distributed to NSAC members in good standing in the DECEMBER 2013 edition of The Canadian Sunflower Grower magazine.

Variety Descriptions

Company	Variety	Herb		2013 Yield (lb/ac)			2012 Summary	Maturity*	Height* (inches)	Resistance Level ³ :		
		Type	DMR	Beausejour	Elm Creek	Minto				Rust ¹	Verticillium	Downy ²
Seeds 2000	6946	—	N	—	—	—	3573	122	68	S	MR	HS
Seeds 2000	6946 DMR	—	Y	4127	3797	2219	3740	120	68	HS	MR	R
Seeds 2000	6950	—	N	—	—	—	3491	123	70	MR	MR	HS
Seeds 2000	Jaguar DMR	CL	Y	3927	4007	2980	3541	123	72	—	—	—
Seeds 2000	Jaguar	CL	N	—	—	—	3506	122	68	MS	MR	HS
Seeds 2000	Panther DMR	—	Y	3801	5181	2509	—	123	68	HS	MS	S
Seeds 2000	Sundance DMR	—	Y	—	—	—	3477	123	73	HS	MR	MR
Varieties that have been supported for registration												
NSAC	EX 711	—	N	3994	3521	1553	—	121	72	HS	MS	HS
NSAC	EX 730	—	N	4005	3039	1828	—	123	65	HS	MS	S
NSAC	EX 753	—	N	4242	3806	2175	—	122	68	HS	MS	HS
NSAC	EX 755	—	N	4012	3401	2128	—	122	73	HS	MS	S
NSAC	EX 5255	—	N	3035	2892	1980	—	122	74	HS	MS	HS
NSAC	EX 8211	—	N	3779	3352	1898	—	123	74	HS	MR	HS
NSAC	EX 8230	—	N	3109	2144	1513	—	122	66	HS	MS	HS
NSAC	EX 8253	—	N	3499	2947	1945	2897	123	70	HS	MS	HS
NSAC	EX 8255	—	N	3863	3367	2312	—	124	75	HS	MR	HS
NSAC	EX 9011	—	N	3764	3011	1990	—	121	67	HS	MR	HS
NuSeed Global	NHW12706	—	Y	3011	2735	2833	—	133	82	HS	MR	MR
NuSeed Global	NHW12708	—	Y	3475	2939	2064	—	126	72	HS	MS	R
NuSeed Global	NHW12717	—	Y	3137	2718	2737	—	133	78	HS	MR	R
NuSeed Global	NHW12739	—	Y	3487	3328	2107	—	118	70	HS	MS	MR
Seeds 2000	NSK12N069	—	N	3883	3301	2557	—	123	74	—	—	—
CHS Sunflower	12EXP01	—	N	3865	3425	3143	—	126	73	—	—	—
CHS Sunflower	RH400 CL	CL	N	3811	3496	2993	3506	123	72	MR	MS	S
NuSeed Global	X4417	—	N	3854	2595	2681	—	121	69	HS	MS	HS
Seeds 2000	X9180 EX DMR	ExSun	Y	4086	3656	2681	3479	123	72	HS	MS	MR
Grand Mean (lb/ac)				3717	3185	2332	3406					
CV%				11.5	9.3	16.1						
LSD (lb/ac)				602	422	532						
Sign Diff				Yes	Yes	Yes						
Seeding Date				22-May	22-May	25-May						
Harvest Date				15-Oct	17-Oct	25-Oct						

* Average height and maturity derived from data collected in the MCVET Sunflower trials in 2011-2013. Data from all sites accepted for yield.

Seed sizing and % nut meat information will be posted in January 2014 at www.seedmb.ca

1 Reaction indicated is to Races 2, 3, and 4 under controlled indoor conditions.

2 Reaction indicated is to Race 2.

3 Disease information based on 2011-13 trials conducted at AAFC Morden. Missing data is due to companies not entering varieties into screening trials.



MANITOBA

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Redfern Farm Services
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Oakville
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204-267-2701

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204-634-2291

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SUNFLOWERS — OIL TYPE

Comments:

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

All sunflower varieties currently available are susceptible to sclerotinia rot. Weather conditions and presence of sclerotinia inoculum play a major role in disease development and severity.

More detailed information from individual trial locations will be distributed to NSAC members in good standing in the DECEMBER 2013 edition of The Canadian Sunflower Grower magazine.

Variety Descriptions

Company	Variety	Oil Type	Herb Type	DMR	2013 Yield (lb/ac)				2012 Summary	Maturity* (days)	Height* (inches)	Resistance Level:			
					Beausejour	Elm Creek	Minto	Melita				Rust ¹	Verticillium	Downy ²	
Syngenta Canada	3495 NS/CL/DM	NS	CL	Y	3991	3627	3094	2635	3598	127	67	HS	MR	MR	
Pioneer Hi-Bred	63N82	NS	ExSun	N	—	—	—	—	3082	128	66	S	MR	S	
Seeds 2000	Cobalt II	HO	CL	Y	3636	2949	2966	2425	3327	129	64	—	—	—	
Seeds 2000	Defender Plus	NS	—	Y	—	—	—	—	3101	123	62	HS	MR	R	
Seeds 2000	Falcon EX	NS	ExSun	N	3937	3467	2868	2575	3558	128	64	HS	MR	S	
Pioneer Hi-Bred	P63ME70	NS	ExSun	Y	4385	3524	3132	2627	3483	126	69	HS	MR	R	
Pioneer Hi-Bred	P63ME80	NS	ExSun	Y	4139	3924	3243	2698	3280	129	70	HS	MR	R	
Experimental lines are being tested/proposed for registration in Canada															
Syngenta Canada	7111 HO/CL/DM	HO	CL	Y	3769	3697	2689	2218	2955	125	70	MR	MR	R	
NuSeed Global	NLK12S069	NS	ExSun	—	4211	4084	2556	2398	—	126	69	—	—	—	
NuSeed Global	NLK12S070	NS	ExSun	—	4227	3542	2409	2822	—	125	64	—	—	—	
Grand Mean (lbs/ac)					4070	3552	2886	2544	3289						
CV%					5.8	9.8	11.6	7.7							
LSD (lbs/ac)					166	—	489	289							
Sign Diff					Yes	No	Yes	Yes							
Seeding Date					22-May	22-May	25-May	22-May							
Harvest Date					15-Oct	17-Oct	25-Oct	23-Oct							

* Average height and maturity derived from data collected in the MCVET Sunflower trials in 2011-2013. Data from all sites accepted for yield.

Oil content information will be posted in January 2014 at www.seedmb.ca

1 Reaction indicated is to Races 2, 3, and 4 under controlled indoor conditions.

2 Reaction indicated is to Race 2.

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 - Sunflower seed quality data – oil and seed size
 - Detailed edible bean results
 - Final corn data
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Distributor Contacts for Varieties in Seed Manitoba 2014

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	Viterra
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	Viterra
NorLin	SeCan
Prairie Blue	SeCan
Prairie Grande	SeCan
Prairie Sapphire	Alliance Seed Corporation
Prairie Thunder	CANTERRA SEEDS
Taurus	FP Genetics
Vimy	SeCan
Westlin 70	Crop Production Services (CPS)
Westlin 71	Crop Production Services (CPS)

MUSTARD

Sinapis alba	Trade
AC Base	Trade
AC Pennant	Crop Production Services (CPS)
Ace	Trade
Andante	Crop Production Services (CPS)
Brassica juncea	Trade
AC Vulcan	Trade
Centennial Brown	Trade
Cutlass	Crop Production Services (CPS)
Duchess	Crop Production Services (CPS)
Forge	

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
00703	Hyland Seeds
23-10RY	DEKALB
24-10RY	DEKALB
25-10RY	DEKALB
24-61RY	DEKALB
29002RR	Quarry Seeds Ltd.
900Y61	DuPont Pioneer
900Y71	DuPont Pioneer
P001T34R	DuPont Pioneer
Astro R2	Quarry Seeds Ltd.
Burling R2	SeCan
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 003R22	Delmar Commodities
LS 005R22	Delmar Commodities
LS 006R21	Delmar Commodities
LS 007R22	Delmar Commodities
McLeod R2	SeCan
NSC Anola RR2Y	North Star Genetics Manitoba
NSC Elie RR2Y	North Star Genetics Manitoba
NSC Jaden RR2Y	North Star Genetics Manitoba
NSC Libau RR2Y	North Star Genetics Manitoba
NSC Niverville RR2Y	North Star Genetics Manitoba
NSC Moosomin RR2Y	North Star Genetics Manitoba
NSC Reston RR2Y	North Star Genetics Manitoba
NSC Richer RR2Y	North Star Genetics Manitoba
NSC Tilston RR2Y	North Star Genetics Manitoba
Pekko R2	Brett Young

ROUNDUP READY SOYBEANS

PS 0074 R2	PRIDE Seeds
PS 0083 R2	PRIDE Seeds
PRO 2525R2	Sevita International
S00-B7	Syngenta Canada
S007-Y4	Syngenta Canada
S00-T9	Syngenta Canada
TH 32004R2Y	Quarry Seeds Ltd.
TH 33004R2Y	Quarry Seeds Ltd.
Sampsia R2	Brett Young
Vito R2	North Star Genetics Manitoba

SUNFLOWERS

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

DISTRIBUTOR

Alliance Seed Corporation	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
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
Seeds 2000	1-877-733-3636
Sevita International	1-613-989-5400
Syngenta Canada Inc.	1-877-964-3682

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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

FLAX

AAC BRAVO ☀

Domain; Manness, Ronald & Patricia & Graeme 204-736-2622 S F
Somerset; Sierens, Joseph & Chris 204-744-2883 S F

CDC NEELA ☀

Reston; Greig, Fred L. & Fotheringham, John A. (Jack).... 204-877-3813 S
Stonewall; Unger, Ronald K. & Darcy..... 204-467-8630 S

HANLEY ☀

Sanford; Bergen, Edward Harry & Tim 204-736-2278 C
Winnipeg; James, David J.& Dorothy 204-222-8785 C

LIGHTNING ☀

Crandall; Doupe, Neil D 204-562-3632 C
Holland; Zeghers, Donald Edmond 204-526-2145 C
Somerset; Sierens, Joseph & Chris 204-744-2883 C
Wawanesa; Ellis, Warren P. & Simon..... 204-824-2290 C

PRAIRIE SAPPHIRE ☀

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

WESTLIN 70

Virden; Heaman, Douglas J., Walter, Robert & Kenneth... 204-748-2666 R

MUSTARD

AAC A110 ☀

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

SOYBEANS

004R21

Winkler; Delmar Commodity Ltd., R C

29002RR ☀

Stonewall; Quarry Grain Commodities Inc. 204-467-8877 C

900Y61 ☀

Carman; Dyck, Ron A. & Ben..... 204-626-3283 R
Carman; Mc Knight, H.S.A. (Bud)..... 204-745-2310 C
Domain; Erb, Roland 204-736-2710 R
Graysville; McIntosh, Sean..... 204-828-3330 R
Grosse Isle; Rutherford, Jack A. & Rick 204-467-5613 S F R C
Homewood; Dyck, Glen 204-745-2611 R
Sperling; Colpitts, Brad..... 204-626-3255 R
Teulon; Kletke, Herbert T. & Helen Eva & Glenn H..... 204-886-2822 R

900Y71 ☀

Grosse Isle; Rutherford, Jack A. & Rick 204-467-5613 S F R

ASTRO R2

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

BISHOP R2

Arborg; Timchishen, Doanld Victor & Darcy 204-376-5116 R
Morden; Park, Robert J..... 204-745-0088 C
Pilot Mound; Wallace, Brad & Joe 204-825-2628 C
Warren; Riddell, Clifford Royden & Craig Thomas 204-227-5679 R

CHADBURN R2

Carman; Menold, Ulrich..... 204-745-2822 S F
Domain; Johnson, David & Don 204-746-0275 R

SOYBEANS

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Dufrost; Catellier, Patrick Raymond.....	204-347-5503	R
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	C
Morden; Park, Robert J.....	204-745-0088	R
Oak Bluff; Anseeuw , Mark J.....	204-895-8375	R
Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	C
Whitemouth; Klepatz, Wayne.....	204-348-2294	C

CURRIE R2

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

GRAY R2

Carman; Menold, Ulrich.....	204-745-2822	S F
Dufrost; Catellier, Patrick Raymond.....	204-347-5503	R
Morden; Park, Robert J.....	204-745-0088	R
Oakville; Miller, Darcy Charles	204-267-2283	R
Portage; Askin, Raymond T. & Jeffrey S.....	204-274-2417	R
Stonewall; Unger, Ronald K. & Darcy.....	204-467-8630	S F R

HS006RYS24

Carman; Smith, Eric James..... 204-751-0238 R

LS002R23

Winkler; Delmar Commodity Ltd., S F C

LS003R22

Winkler; Delmar Commodity Ltd., C

LS005R22

Winkler; Delmar Commodity Ltd., S C

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LS006R21

Winkler; Delmar Commodity Ltd., S R C

MCLEOD R2

Altona; Wiebe, Henry D. & Lloyd	204-324-8036	R C
Boissevain; Armstrong, Duncan T. & A.J.	204-534-2566	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	S R
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Brandon; Whetter, Rodney & Darren	204-727-0045	S R
Carman; Menold, Thomas	204-745-3377	R C
Carman; Menold, Ulrich	204-745-2822	S R C
Darlingford; Wilson, James M.	204-246-2388	S R C
Dufrost; Catellier, Patrick Raymond	204-347-5503	F R C
Morden; Park, Robert J.	204-745-0088	R C
Oak Bluff; Anseeuw, Mark J.	204-895-8375	C
Pilot Mound; Wallace, Brad & Joe	204-825-2628	C
Plumas; Court, Randolph A. & Jeanine	204-386-2354	R C
Portage; Askin, Raymond T. & Jeffrey S.	204-274-2417	R C
Sanford; Bergen, Edward Harry & Tim	204-736-2278	S R
Stonewall; Unger, Ronald K. & Darcy	204-467-8630	S R C
Warren; Riddell, Clifford Royden & Craig Thomas	204-227-5679	S R C
Whitemouth; Klepatz, Wayne	204-348-2294	R C

NSC ANOLA RR2Y

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S F C
Domain; Pitura, Carl & Calvin C.	204-736-2849	C
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Northstar Genetics Manitoba,		C
Grosse Isle; Northstar Genetics Manitoba,		C
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	C
Rosenort; Friesen, Rick & Lloyd	204-746-8325	C

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NSC ELIE RR2Y

Carman; Bergsma, Edward Wayne	204-745-2096	C
Fannystelle; Nadeau, Brian	204-436-2469	R
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	C
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	C
Rosenort; Friesen, Rick & Lloyd	204-746-8325	R C

NSC LIBAU RR2Y

Carman; Smith, Eric James	204-751-0238	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Domain; Pitura, Carl & Calvin C.	204-736-2849	C
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	S F C
Grosse Isle; Rutherford, Rick	204-467-5613	C
Hazelridge; Saramaga, Robert P. & Andrew	204-755-2817	C
Rosenort; Friesen, Rick & Lloyd	204-746-8325	C
Winnipeg; Northstar Genetics	204-262-2420	C

NSC MOOSOMIN RR2Y

Domain; Pitura, Carl & Calvin C.	204-736-2849	S F
Fannystelle; Nadeau, Brian	204-436-2469	F
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	F
Teulon; Kletke, Herbert T. & Helen Eva & Glenn H.	204-886-2822	F

NSC NIVERVILLE RR2Y

Carman; Smith, Eric James	204-751-0238	R
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	R
Domain; Pitura, Carl & Calvin C.	204-736-2849	R
Fannystelle; Nadeau, Brian	204-436-2469	R
Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	R
Rosenort; Friesen, Rick & Lloyd	204-746-8325	R
Winnipeg; Northstar Genetics	204-262-2420	R

NSC OSBORNE RR2Y

Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	C
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NSC RESTON RR2Y

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Domain; Pitura, Carl & Calvin C.	204-736-2849	S F
Fannystelle; Nadeau, Brian	204-436-2469	C
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	S C
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)	204-877-3813	C
Rosenort; Friesen, Rick & Lloyd	204-746-8325	C
Somerset; Sierens, Joseph & Chris	204-744-2883	C
Whitemouth; Klepatz, Wayne	204-348-2294	C

NSC RICHER RR2Y

Carman; Smith, Eric James	204-751-0238	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	C
Domain; Pitura, Carl & Calvin C.	204-736-2849	S C
Fannystelle; Nadeau, Brian	204-436-2469	R
Plum Coulee; Giesbrecht, H. Edward & Raymond J.	204-829-3365	C
Rosenort; Friesen, Rick & Lloyd	204-746-8325	R C

NSC TILSTON RR2Y

Winnipeg; Northstar Genetics	204-262-2420	R
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OAC ERIN

Homewood; Froebe, Earl W., Bruce D. & Murray 204-745-2868 C

OAC PRUDENCE

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

P001T34R®

Grosse Isle; Rutherford, Jack A. & Rick 204-467-5613 S F

PEKKO R2

Boissevain; Henderson, W. Jack.....	204-534-2366	C
Boissevain; Peters, Scott.....	204-534-6692	C
Brandon; Redfern, Raymond.....	204-328-5346	C
Carman; Smith, Eric James.....	204-751-0238	R
Dauphin; Kaleta, James & Debra.....	204-638-8587	C
Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	S F C
Gilbert Plains; Sydor, Derek.....	204-548-2521	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	R
St. Norbert ; Brett-Young Seeds Limited	204-261-7932	S F R C
Ste. Anne; Dueck, Jacob Eldon, Brian J. & Ken G.	204-355-4495	C
Ste. Rose; Luke, Andre.....	204-447-7296	C

PRO2525R2

Stonewall; Quarry Grain Commodities Inc. 204-467-8877 R

SAMPSA R2

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

TH32004R2Y

Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R C
Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Dufrost; Catellier, Patrick Raymond.....	204-347-5503	R
Dufrost; Catellier, Roger & Richard	204-347-5503	R
Morris; Dueck , Arthur	204-746-2026	R

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Plumas; Nuera Seeds.....	R
Stonewall; Gendzelevich, Ron & Carol	C
Stonewall; Quarry Grain Commodities Inc.	F R C
Winkler; Ens, Abram E.& Chris & Friesen, Jake	S

TH33003R2Y

Birtle; Butcher, Garth F.	204-842-3713	C
Boissevain; Froese, Wesley A.J. & Ian	204-534-6846	R
Brandon; Wheat City Seeds Ltd.	204-727-3337	R
Dufrost; Catellier, Roger & Richard	204-347-5503	R
Ste. Anne; Warkentin, Marlin	204-355-4679	C
Stonewall; Gendzelevich, Ron & Carol	204-467-2612	R
Stonewall; Matheson, Nick	204-467-5141	C
Stonewall; Quarry Grain Commodities Inc.	204-467-8877	F R C
Winkler; Ens, Abram E.& Chris & Friesen, Jake	204-325-4658	S

TH33005R2Y

Altona; Enns, Len	204-324-6298	R
Brunkild; Kaminsky, Kenneth & Jonathan.....	204-792-2081	R
Dufrost; Catellier, Roger & Richard	204-347-5503	R
Horndean; Siemens, Lavern.....	204-829-3560	R
Morris; Dueck , Arthur	204-746-2026	S C
Stonewall; Gendzelevich, Ron & Carol	204-467-2612	R
Stonewall; Thunder Seeds,	204-467-2612	R

VITO R2

Domain; Manness, Ronald & Patricia & Graeme	204-736-2622	R
Domain; Pitura, Carl & Calvin C.	204-736-2849	R
Fannystelle; Nadeau, Brian	204-436-2469	R
Grosse Isle; Northstar Genetics Manitoba,	204-467-5613	R
Grosse Isle; Rutherford, Jack A. & Rick	204-467-5613	R
Grosse Isle; Rutherford, Rick	204-467-5613	R
Homewood; Froebe, Earl W., Bruce D. & Murray	204-745-2868	R
Oak River; Henry, Cameron & Mc Lean, Eric	204-566-2422	R
Rosenort; Friesen, Rick & Lloyd.....	204-746-8325	R

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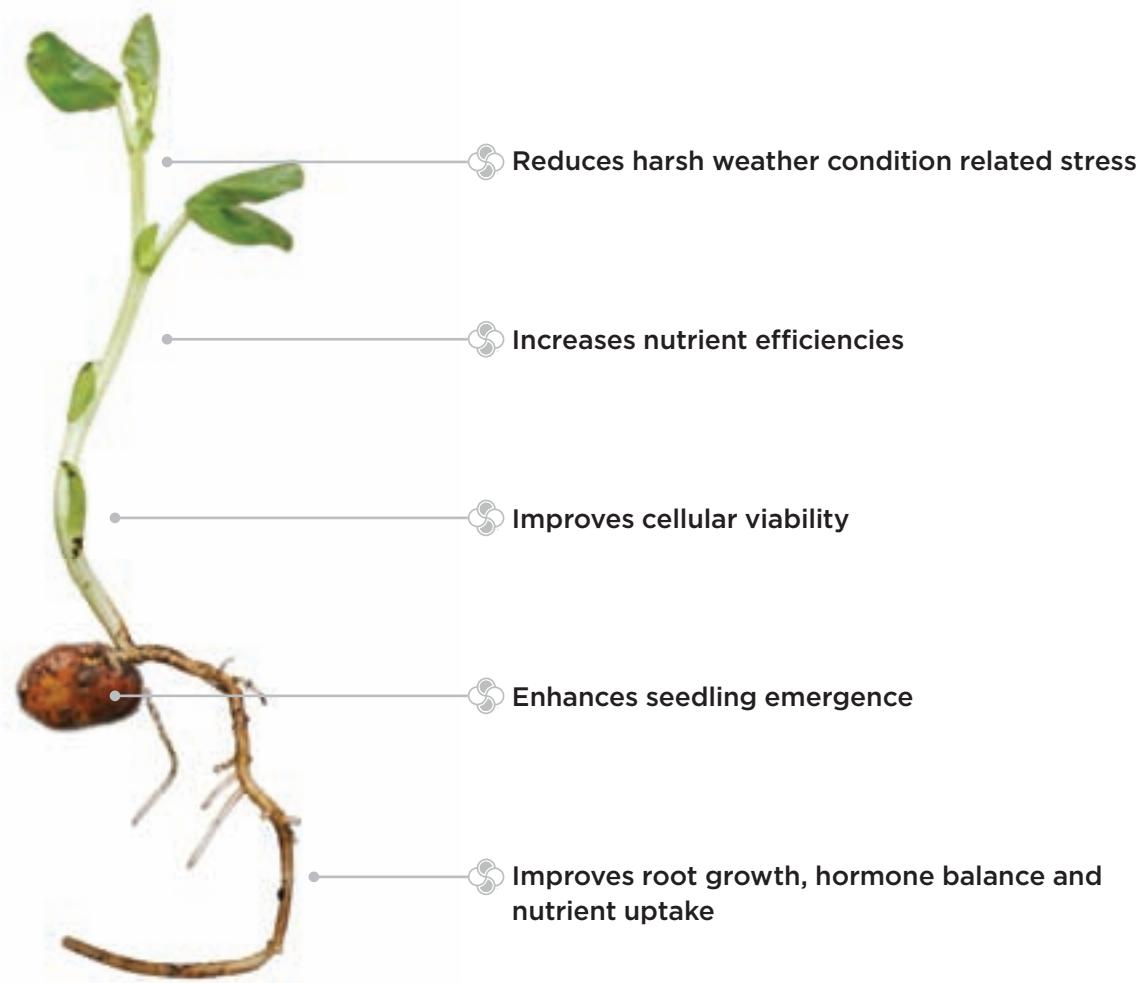
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Variety Description Key

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 2013 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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*On average, TagTeam pea and lentil inoculants outperformed competitor single-action (nitrogen-fixing only) inoculants by 8% in western Canadian independent large-plot research trials. That's an average increase of 2.7 bushels per acre. Summary of 30 lentil and 85 pea trials conducted between 1997 and 2012.

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Manitoba Agriculture, Food and Rural Development Variety Guide

FABABEANS

Comments:

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

Variety Descriptions

Variety	Yield % Check	Site Years Tested	Type ¹	Seed Size TKW (g)	Tannin ¹ 2013 Yield % of CDC Fatima		Zero Tannin ¹ 2013 Yield % of Snowbird Roblin
					Roblin	Roblin	
CDC Snowdrop	4942	6	Zero Tannin	335	—	—	91
CDC SSNS-1	5257	9	Tannin	350	89	—	—
CDC Fatima	3764	31	Tannin	523	100	—	—
Florent	5183	8	Tannin	523	—	—	—
Snowbird	5339	9	Zero Tannin	502	—	100	—
Taboar	4184	11	Tannin	471	101	—	—
CHECK CHARACTERISTICS					CDC Fatima (lb/acre)	8099	
CDC Fatima (tannin)	3764	31			CV %	6.0	
					LSD (%)	10	
					Sign Diff	Yes	
					Snowbird (lb/acre)	8448	
Snowbird (zero tannin)	5339	9			CV%	4.0	
					LSD (%)	7	
					Sign Diff	Yes	

¹ Traditionally tannin fababean, tan coloured seed coats contain tannins and can't be fed directly to livestock. Zero tannin fababeans have white seed coats and can be fed directly to livestock.



Manitoba
Pulse Growers
Association Inc.

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

Working for You

For more information on how
your check-off dollars work for you visit
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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 % Check	Site Years Tested	Days to ¹ Maturity	Plant ² Type
		2013	2012	2011	2010				
Small Seeded Types									
Navy	Envoy	x	x	x	x	100	36	0	I
Navy	Lightning	x	x	x	x	112	8	2	II
Navy	OAC Spark	x	x	x		111	5	-6	I
Navy	Portage	x				78	3	2	II
Black	Carman Black	x	x	x		132	8	1	II
Black	CDC Jet	x	x	x	x	110	27	2	II
Black	CDC Superjet	x	x	x		115	6	1	II
Black	CDC Blackcomb	x	x	x	x	126	8	-2	II
Large Seeded Types									
Pinto	CDC Pintium	x	x	x	x	100	36	0	I
Pinto	Winchester	X	x			118	7	7	II
Pinto	Island	x	x	x	x	118	10	6	II
Pinto	Mariah	x	x	x	x	130	8	6	II
Pinto	Winmor	x	x	x	x	122	7	6	II
Pinto	CDC Marmot (2537-12)	x	x			113	6	4	I
Pinto	CDC WM-2	x	x	x	x	128	8	6	III
Varieties that are registered in the US or being tested or proposed for registration in Canada									
Navy	1190m-13	x	x	x		114	13	-3	III
Navy	2918-25	x				123	3	-5	II
Black	2921-14	x				139	3	-7	II
CHECK CHARACTERISTICS									
Bean Grouping		Check Varieties			Yield (lbs/acre)		Site Years	Days to Maturity	
Small seeded		Envoy			1892		36	101	
Large seeded		CDC Pintium			2040		36	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 2013

Navy: Nautica, Bolt, NAVC6V1200

Black: BlackJack, BKBC6V 1312, GTS 1103, cob 2159-00

Dark Red Kidney 1030, 1013

Light Red Kidney: Krimson, 1031

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 conducted by Agriculture and Agri-food Canada. Results are from row crop trials located at Morden, Portage, Carman/Graysville, and Winkler/Plum Coulee sites.

dfm - variety did not fully mature -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. Consult your local MASC agent for information on insurability of edible beans in your area.

Variety Descriptions¹

MARKET CLASS/Variety	Years Tested					Yield % of Check	Site Years Tested	Days to Maturity ² +/- Check
	2013	2012	2011	2010	2009			
NAVY								
AC Cruiser	x	x	x	x	x	122	41	5
Cargo	x	x	x	x	x	104	38	-1
Envoy	x	x	x	x	x	100	58	0
Aspen		x				120	16	3
Lightning	x	x	x	x	x	125	18	2
Portage	x	x	x	x	x	128	14	1
OAC Spark	x	x	x	x		103	18	-4
T9903	x	x	x	x	x	119	34	1
T9905	x	x	x	x	x	139	14	5
Nautica	x					131	1	8
Bolt	x					122	1	5
Indi	x	x		x		135		2
Varieties that are registered in the US or being tested or proposed for registration in Canada								
ISB 1815-2	x	x				129	5	1
ISB 1816	x					126	5	3
NAVC6V1200	x					143	1	6
PINTO								
AC Ole	x	x	x	x	x	91	23	-1
AC Pintoba	x	x	x	x	x	94	30	3
CDC WM-2®	x	x				88	5	0
Mariah®	x	x	x	x	x	92	18	-1
Maverick	x	x	x	x	x	89	27	1
Medicine Hat®	x	x			x	90	17	-4
Windbreaker	x	x	x	x	x	100	35	0
ND 307®	x	x			x	100	8	3
Stampede®	x	x			x	91	8	2
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Max	x	x				85	5	4
Sequoia	x	x				84	5	4
cob 2824-99	x	x	x			97	10	-1
GTS 907	x	x	x			100	10	0
PIN DJ09-1012	x	x				101	5	-2
BLACK								
Carman Black	x	x	x	x	x	94	14	1
CDC Jet	x	x	x	x	x	91	23	2
Eclipse®	x	x	x	x	x	100	23	0
CDC Superjet	x	x	x	x		88	11	2
CDC Blackcomb		x				87	4	1
Blackjack	x					98	1	6
Varieties that are registered in the US or being tested or proposed for registration in Canada								
BKBC6V 1312	x					83	1	4
GTS 1103	x					93	1	7
cob 2159-00	x					98	1	12
PINK								
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Pink Floyd			x			109	8	0
ROG 922	x		x			100	12	0
SMALL RED								
AC Earlired	x	x		x		100	44	0
Varieties that are registered in the US or being tested or proposed for registration in Canada								
SR47-3-3	x					113	4	5
09304		x				122	4	7
CRANBERRY								
Cran 09	x	x	x	x	x	100	46	0
Etna	x	x	x	x	x	99	38	1
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Krimson	x					77	1	-1
1031	x					118	1	-4
GREAT NORTHERN								
Beryl R	x		x			100	45	0

FIELD BEANS (continued)

Market Class/Variety	Years Tested					Yield % of Check	Site Years Tested	Days to Maturity ² +/- Check
	2013	2012	2011	2010	2009			
Varieties that are registered in the US or being tested or proposed for registration in Canada								
GN13-10-1		x				85	3	1
99118		x				94	7	1
Varieties that are registered in the US or being tested or proposed for registration in Canada								
DARK RED KIDNEY								
1030	x					89	1	0
1013	x					67	1	0
Varieties that are registered in the US or being tested or proposed for registration in Canada								
LIGHT RED KIDNEY								
Pink Panther	x	x	x	x	x	100	36	0
Varieties that are registered in the US or being tested or proposed for registration in Canada								
Clouseau	x	x	x			103	8	1
9350	x					109	4	-1
9351	x					99	4	-2
White Kidney								
GTS 402	x	x				91	15	-2
YELLOW								
CDC Sol	x	x	x	x		81	11	4
Check Varieties	Bean Type	First Year Tested	Yield lbs/acre	Site Years Tested	Days to Maturity			
Envoy	Navy	1994	2019	58	100			
Windbreaker	Pinto	2002	2690	35	97			
Eclipse	Black	2005	2329	23	100			
ROG 922	Pink	2005	1964	12	100			
AC Earlired	Small Red	1999	2262	44	94			
Cran 09	Cranberry	2000	1875	44	99			
Beryl R	Great Northern	2002	2483	45	100			
Pink Panther	Light Red Kidney	2001	1997	36	100			

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	Site	Resistance Level:			Seed Wt (TKW)	Cotyledon Colour	2013 Yield: % of CDC Maxim	
		% Check	Years Tested	Maturity ¹	Asochyta Blight	Anthracnose ¹ Race			Hamiota	Melita
Small green	CDC Asterix	97	2	Early	G	F	26	Yellow	98	96
	CDC Invincible CL	77	11	Early	G	G	35	Yellow	86	105
	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	73	70
	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 Impower CL	65	5	Medium	G	P	74	Yellow	—	—
	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	79	100
	CDC Marble	108	2	Early/Med	F	G	32	Yellow	101	116
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	99	81
	CDC Rosie	95	2	Early/Med	G	G	30	Red	98	93
	CDC Rosetown	88	11	Early	G	G	31	Red	—	—
	CDC Ruby	92	2	Early	G	G	29	Red	103	78
Small red	CDC Dazil	96	3	Early/Med	G	F	35	Red	86	107
	CDC Imax CL	82	11	Medium	G	G	50	Red	81	102
	CDC Impact CL	78	10	Early	G	P	34	Red	—	—
	CDC Maxim CL	100	13	Early/Med	G	G	40	Red	100	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	107	2	Early/Med	G	F	36	Red	109	107
Large red	CDC KR-1	76	8	Medium	G	G	56	Red	—	—
CHECK CHARACTERISTICS							CDC Maxim (lb/ac)		2413	1973
CDC Maxim							CV%		13.1	10.9
3329 lb/ac							LSD (%)		22	18
13 site years							Sign Diff		Yes	Yes
							Seeding Date		23-May	13-May
							Harvest Date		15-Oct	03-Sep

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

FIELD PEA

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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.

Variety Descriptions

Variety	Site Years Tested	Yield bu/acre	Relative Maturity	Relative Vine Length	Seed Size (TSW)	Green ¹ Seed Coats	Lodging	Resistance Level:					
								Powdery Mildew	Mycos- phaerella Blight	Fusarium ² Wilt	Fusarium ² Bleaching	Seed Coat Breakage	Seed Coat Dimpling
Yellow													
Agassiz	37	73	E-M	M	230	G	G	VG	F	F	n/a	G	F
Argus	14	68	M	M	230	G	G	VG	F	F	n/a	F	F
Canstar	20	70	E	M	240	G	G	VG	P	G	n/a	G	G
CDC Bronco	31	61	M	M	230	G	G	VG	F	F	n/a	G	G
CDC Centennial	20	71	E	M	270	F	F	VG	F	F	n/a	G	G
CDC Golden	41	66	M	M	230	G	G	VG	F	F	n/a	G	G
CDC Hornet	30	68	M	M	220	G	G	VG	F	F	n/a	F	G
CDC Meadow	50	72	E	M	220	G	G	VG	F	F	n/a	G	G
CDC Mozart	38	69	M	S	220	F	F	VG	F	F	n/a	G	G
CDC Prosper	29	63	E	M	150	G	G	VG	F	G	n/a	G	F
CDC Saffron	14	71	M	M	250	G	G	VG	F	F	n/a	G	G
CDC Treasure	37	68	E	M	210	G	G	VG	F	G	n/a	F	F
Cutlass	65	66	M*	M*	220	G	G	VG	F	F	n/a	F	F
Eclipse	62	69	M	M	250	G	G	VG	F	F	n/a	G	F
Hugo	14	68	M	M	220	G	G	VG	F	G	n/a	G	F
Polstead	35	68	M	S	280	F	G	VG	P	P	n/a	F	G
Reward	20	70	M	M	240	F	G	VG	F	F	n/a	G	G
SW MIDAS	29	68	E	M	220	G	G	VG	F	F	n/a	G	G
Sorento	28	70	M	M	260	G	F	VG	F	F	n/a	G	F
Thunderbird	26	70	M	M	220	F	G	VG	F	F	n/a	G	G
Green													
CDC Patrick	36	66	M	M	190	n/a	G	VG	F	G	G	G	F
CDC Pluto	9	66	M	M	160	n/a	F	VG	F	F	G	G	G
CDC Raezer	8	68	M	M	220	n/a	G	VG	F	G	G	G	G
CDC Sage	19	58	M	M	220	n/a	G	VG	F	G	G	G	F
CDC Striker	55	63	M	M	230	n/a	G	P	F	G	G	VG	G
CDC Tetris	23	67	L	M	210	n/a	G	VG	F	G	G	G	G
COOPER	47	67	L	M	270	n/a	G	VG	F	F	G	F	G
Other Pea types													
CDC Rocket (Maple)	19	63	M	M	210	G	F	VG	F	n/a	n/a	G	G
CDC Dakota (Dun)	17	74	M-L	M	205	n/a	G	VG	F	n/a	n/a	G	G
CDC Mosaic (Maple)	17	58	M-L	M	180	n/a	G	VG	F	n/a	n/a	G	G
CDC Horizon (Silage)	17	62	M	M	170	F	G	VG	F	n/a	n/a	G	G
CDC Leroy (Silage)	20	60	M	M	150	F	G	VG	F	n/a	n/a	G	G
CDC Tucker (Silage)	21	63	M	M	170	F	G	VG	F	n/a	n/a	G	G
Stella (Silage)	13	57	L	M	220	n/a	G	VG	F	F	n/a	G	G
GRAND MEAN		66											
LSD (0.05)		4											

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

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

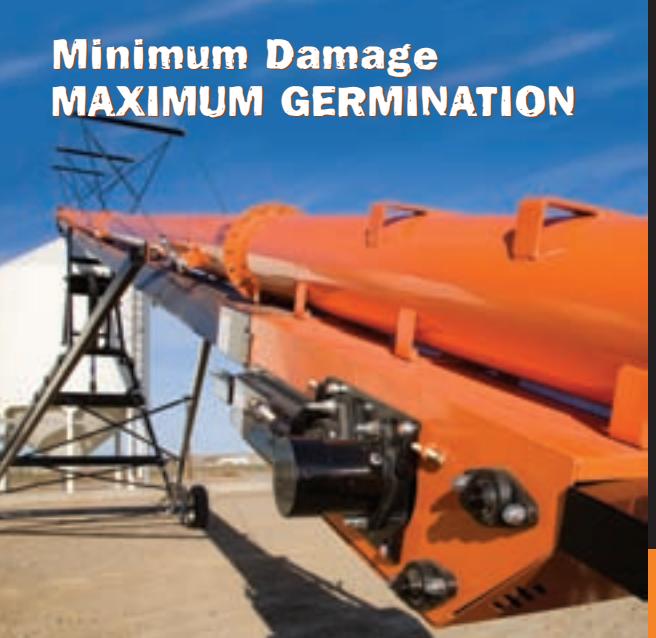
2 Varieties which show good disease tolerance to one strain of Fusarium wilt may be susceptible to other strains.

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

Yield Comparisons

Variety	2013 Average Yield bu/acre	2013 Yield (bu/acre)		
		Boissevain	Hamiota	Thornhill
Yellow				
Agassiz	102	111	113	83
CDC Golden	97	93	111	87
CDC Hornet	99	102	121	76
CDC Meadow	101	102	120	82
CDC Saffron	98	109	105	80
CDC Treasure	94	96	104	82
Cutlass	91	83	106	85
Green				
CDC Patrick	85	98	94	65
CDC Raezer	91	99	96	78
CDC Tetris	102	105	114	87
Other				
CDC Dakota	97	100	114	79
CDC Horizon	88	101	94	71
CDC Mosaic	84	85	96	73
SITE GRAND MEAN (bu/acre)		98	106	79
CV %		6.9	8.9	9.7
LSD (bu/ac)		11	16	—
Sign Diff		Yes	Yes	No
Seeding Date		22-May	23-May	09-May
Harvest Date		22-Sep	30-Sep	27-Aug

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Distributor Contacts for Varieties in Seed Manitoba 2014

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

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FABABEANS

CDC Snowdrop	University of Saskatchewan
CDC SSNS-1	University of Saskatchewan
CDC Fatima	Legumex Walker Canada Inc.
Florent	Legumex Walker Canada Inc.
Snowbird	Cyre Seed Farms
Taboar	Terramax Holding Corp.

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
Winnmor	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

SMALL RED

AC Earlired	Saskcan Pulse Trading
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CRANBERRY

Cran 09	Various Bean Dealers
Etna	Seminis Vegetable Seeds

GREAT NORTHERN

Beryl R	Various Bean Dealers
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LIGHT RED KIDNEY

Pink Panther	Various Bean Dealers
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WHITE KIDNEY

GTS 402	Various Bean Dealers
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YELLOW

CDC Sol	Legumex Walker Canada Inc.
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LENTILS

CDC Asterix	Saskatchewan Pulse Growers
CDC Dazil	Saskatchewan Pulse Growers
CDC Greenland	Saskatchewan Pulse Growers
CDC Imax CL	Saskatchewan Pulse Growers
CDC Imgreen 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

LENTILS

CDC Peridot CL	Saskatchewan Pulse Growers
CDC Plato	Saskatchewan Pulse Growers
CDC Red Rider	Saskatchewan Pulse Growers
CDC Redberry	Saskatchewan Pulse Growers
CDC Redbow	Saskatchewan Pulse Growers
CDC Redcoat	Saskatchewan Pulse Growers
CDC Richlea	Saskatchewan Pulse Growers
CDC Robin	Saskatchewan Pulse Growers
CDC 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

Agassiz	CANTERRA SEEDS
Argus	SeCan
Canstar	Canseed (Canada) Ltd.
CDC Bronco	Saskatchewan Pulse Growers
CDC Centennial	Saskatchewan Pulse Growers
CDC Dakota	Saskatchewan Pulse Growers
CDC Golden	Saskatchewan Pulse Growers
CDC Horizon	Saskatchewan Pulse Growers
CDC Hornet	Saskatchewan Pulse Growers
CDC Leroy	Saskatchewan Pulse Growers
CDC Meadow	Saskatchewan Pulse Growers
CDC Mosaic	Saskatchewan Pulse Growers
CDC Mozart	Saskatchewan Pulse Growers
CDC Patrick	Saskatchewan Pulse Growers
CDC 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 Corporation
Polstead	FP Genetics
Reward	SeCan
Sorento	FP Genetics
Stella	Alliance Seed Corporation
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 Corporation	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
Saskatchewan Pulse Growers	1-306-668-5556
Saskcan Pulse Trading	1-306-525-4490
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

Growers List



FABABEANS

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

TABASCO©

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

FIELD BEANS

AC OLE

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

CDC SUPERJET

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

PORTAGE

Portage; Munro, Clarke Allan & Jared Cory & Trevor Clarke 204-857-8272 C

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

WINDBREAKER

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

Portage; 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

ABARTH©

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

AGASSIZ©

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

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

Glenboro; Jefferies, Ron 204-827-2102 S F C

Stonewall; Unger, Ronald K. & Darcy 204-467-8630 S F C

ARGUS©

Domain; Manness, Clayton & Scott & Alan 204-736-2922 C



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CDC MEADOW

Brandon; Wheat City Seeds Ltd.	204-727-3337	C
Brandon; Whetter, Rodney & Darren	204-727-0045	C
Foxwarren; Graham, George Arthur.....	204-683-2367	C
Hamiota; Knight, Ronald M. & Jeff	204-764-2450	C
Holland; Kubinec, Anastasia.....	204-526-2776	R
Holland; Patenaude, Donald & Robert	204-526-2391	R C
Holland; Verniest, Bradley Glen.....	204-526-7603	C
Kenton; Stevenson, Robert H. & Sidney H.	204-838-2012	C
Oak Lake; Smith, Gerald R. & Leigh E.	204-855-2808	C
Reston; Greig, Fred L. & Fotheringham, John A. (Jack)....	204-877-3813	C
Rivers; Redspur Ent. Ltd.	204-328-5346	C

CDC PATRICK

Marquette; Friesen, Paul	204-322-5773	C
--------------------------------	--------------	---

SW MIDAS©

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

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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 2013 Yield Tables

Yields derived over two or more growing seasons are the best indicator of variety performance. Use single site year data with caution.

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

LSD = 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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Manitoba Agriculture, Food and Rural Development Variety Guide

BUCKWHEAT

Comments:

The buckwheat variety trials 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	2013 Average Yield	2013 Yield: % of Koma			
						Arborg	Beausejour	Carberry	Melita
AC Manisoba	113	18	-3	-2	134	131	147	136	111
AC Springfield	115	18	-1	-5	146	131	143	134	113
Horizon	127	9	—	—	132	124	124	119	105
Koma	100	18	0	0	100	100	100	100	100
Koto	121	18	-2	-3	159	138	182	136	133
Mancan	106	18	-2	-6	124	130	127	120	110
Manor	111	4	—	—	—	—	—	—	—
CHECK CHARACTERISTICS						1046	998	910	3282
Koma	1387	18 lb/acre	47 site years	45 days	CV% inches	5.1	13.6	10.3	7.0
					LSD% Sign Diff	9	25	16	11
					Yes	Yes	Yes	Yes	Yes
						Seeding Date	30-May	15-May	06-Jun
						Harvest Date	07-Oct	11-Oct	18-Oct
								02-Oct	

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.

GRAIN CORN

Comments:

The 2013 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	Traits	Distributor	Altona			Beausejour			Warren		
				Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)
2000	39F44	RR2	DuPont Pioneer	—	—	—	115	25.9	56.1	110	22.7	56.9
2050	LR 9473RR	RR	Delmar Commodities	136	22.2	51.4	155	25.3	51.4	123	19.6	50.4
2050	LR 9573VT2PRIB	VT2PRIB	Delmar Commodities	144	24.4	55.3	174	26.7	54.8	121	19.7	54.4
2050	P7213R	RR2	DuPont Pioneer	120	19.0	57.6	153	23.1	54.5	133	19.0	57.6
2075	PS 2262RR	RR2	Pickseed	—	—	—	159	25.8	52.8	141	20.7	53.9
2100	TH 7574 VT2P RIB	RR2	Quarry Seeds Ltd.	143	23.3	55.6	156	28.5	53.7	129	20.4	55.8
2100	P7443R	RR2	DuPont Pioneer	141	19.7	54.5	155	19.6	53.9	133	18.9	53.3
2125	DKC26-25	RR	DEKALB	134	19.5	55.2	163	24.8	51.6	113	18.7	55.1
2125	A4023BTRR	BT, RR2	PRIDE Seeds	147	31.6	53.2	155	25.9	51.4	130	21.6	52.2
2150	DKC26-28RIB	VT2PRO	DEKALB	153	20.9	54.0	164	26.6	52.7	136	20.1	52.0
2150	A4176BTRR	BT, RR2	PRIDE Seeds	159	26.8	53.4	—	—	—	—	—	—
2150	N04F-3110	CB/GT	Syngenta Canada Inc.	135	19.6	55.1	169	22.5	54.1	135	18.7	53.5
2175	TH 7578 VT2P RIB	VT2P	Quarry Seeds Ltd.	170	24.7	53.3	156	24.1	53.1	143	19.6	51.3
2175	39D95	RR2	DuPont Pioneer	140	18.5	53.8	166	20.7	52.9	131	19.7	54.3
2175	X13-0464	VT2PRO	BrettYoung	147	23.8	54.0	165	27.1	54.6	133	22.0	51.7
2200	DKC27-55RIB	VT2PRO	DEKALB	167	24.3	55.4	165	28.7	53.6	131	21.2	54.8
2200	P7632HR	HX1/LL/RR2	DuPont Pioneer	140	19.2	52.0	174	22.5	50.7	141	18.4	50.9
2200	E47A17 R	RR2	BrettYoung	177	22.7	53.3	186	25.6	52.9	128	19.1	52.6
2200	A4408G2 RIB	GENVT2P	PRIDE Seeds	142	20.7	55.7	165	24.5	54.4	123	20.0	53.8
2200	G 13R GT	GT	Greenfield Genetics	161	24.5	50.8	—	—	—	—	—	—
2200	HZ EX12602	Viptera 3110	Horizon Seeds Canada	189	32.3	51.4	—	—	—	—	—	—
2225	PS 2304RR	RR2	Pickseed	149	20.9	52.9	—	—	—	—	—	—
2250	39Z69	HX1/LL/RR2	DuPont Pioneer	132	22.8	54.9	—	—	—	—	—	—
2250	39D97	HX1/LL/RR2	DuPont Pioneer	141	20.4	54.0	—	—	—	—	—	—
2250	39V05	RR2	DuPont Pioneer	161	20.7	53.2	—	—	—	—	—	—
2250	E48A27 R	RR2	BrettYoung	135	20.6	53.4	152	22.9	52.4	122	19.3	51.6
2250	HL R208	RR	Hyland Seeds	138	25.1	55.4	146	25.3	55.0	130	19.4	54.8
2250	MZ 1261BR	YGCB/RR2	Maizex Seeds Inc.	133	24.1	53.7	—	—	—	—	—	—
2250	MZ 1244R	RR2	Maizex Seeds Inc.	146	26.0	52.9	—	—	—	—	—	—
2250	MZ 1610R	RR2	Maizex Seeds Inc.	137	19.9	53.2	—	—	—	—	—	—
2250	G 14T 3000GT	GT	Greenfield Genetics	161	27.4	50.0	—	—	—	—	—	—
2250	N07H	GT/CB/LL	Syngenta Canada Inc.	155	23.6	51.2	163	26.8	51.4	141	21.2	47.5
2250	PP Exp 179	RR	Quarry Seeds Ltd.	—	—	—	140	28.2	47.0	117	21.3	46.3
2250	NS 77311	GT, LL, CB	NorthStar Genetics	174	22.7	50.9	157	28.9	48.8	144	20.3	50.4
2275	3085	RR	Hyland Seeds	175	26.2	52.2	—	—	—	—	—	—
2275	BAXXOS RR	RR	Hyland Seeds	186	26.1	55.3	—	—	—	—	—	—
2275	HL B16R	RR	Hyland Seeds	160	26.9	54.8	—	—	—	—	—	—
2275	PS 2348VT2P RIB	GENVT2P RIB	Pickseed	139	28.4	52.2	—	—	—	—	—	—
2300	39V07	HX1/LL/RR2	DuPont Pioneer	163	20.7	50.8	—	—	—	—	—	—
2300	4093	HXT/LL/RR	Hyland Seeds	147	24.7	53.6	—	—	—	—	—	—
2300	3093	RR	Hyland Seeds	142	20.6	53.4	—	—	—	—	—	—
2300	MZ 1445DRR	RR2	Maizex Seeds Inc.	154	26.9	54.5	—	—	—	—	—	—
2300	A4631G2 RIB	GENVT2P	PRIDE Seeds	165	27.0	52.9	—	—	—	—	—	—

CHU ¹	Hybrid	Traits	Distributor	Altona			Beausejour			Warren			
				Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	Yield (bu/ac)	Moisture (%)	Bushel Wt (lbs/bu)	
2300	N09V	GT/CB/LL	Syngenta Canada Inc.	143	24.2	52.4	—	—	—	—	—	—	
2325	DKC30-07RIB	VT2PRO	DEKALB	179	24.6	51.8	—	—	—	—	—	—	
2350	P8016AM	YGCB/HX1/LL/RR2	DuPont Pioneer	154	21.2	51.6	—	—	—	—	—	—	
2350	E50G27 R	RR2	BrettYoung	158	19.9	53.7	—	—	—	—	—	—	
2350	MZ 1710DBR	RR2	Maizex Seeds Inc.	152	28.9	53.4	—	—	—	—	—	—	
2350	A5004G2 RIB	GENVT2P	PRIDE Seeds	169	25.9	54.2	—	—	—	—	—	—	
2350	A4939G2 RIB	GENVT2P	PRIDE Seeds	160	21.9	51.0	—	—	—	—	—	—	
2350	A4881G2 RIB	GENVT2P	PRIDE Seeds	172	26.1	52.8	—	—	—	—	—	—	
2400	DKC31-10RIB	VT2PRO	DEKALB	181	22.1	51.7	—	—	—	—	—	—	
2400	P8193AM	YGCB/HX1/LL/RR2	DuPont Pioneer	143	23.3	50.5	—	—	—	—	—	—	
2400	8105	SmartStax	Hyland Seeds	163	32.3	52.4	—	—	—	—	—	—	
2475	P8210HR	HX1/LL/RR2	DuPont Pioneer	173	22.3	51.9	—	—	—	—	—	—	
2525	8166	SmartStax	Hyland Seeds	154	32.7	50.7	—	—	—	—	—	—	
2550	P8673XR	YGCB/HX1/LL/RR2	DuPont Pioneer	162	31.8	49.7	—	—	—	—	—	—	
2550	P8651HR	HX1/LL/RR2	DuPont Pioneer	176	27.4	51.4	—	—	—	—	—	—	
2560	HZ 782GT	GT	Horizon Seeds Canada	157	33.5	50.3	—	—	—	—	—	—	
2600	P8622AM	YGCB/HX1/LL/RR2	DuPont Pioneer	169	22.1	51.6	—	—	—	—	—	—	
				Site Average	154	23.9	53.1	159	25.2	52.8	130	20.1	52.8
				CV%	4.8	7.7	1.3	8.9	7.9	3.0	6.6	3.4	1.9
				Sign Diff	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
				LSD (0.05)	12	3.0	1.1	23	3.3	2.6	14	1.1	1.7
				Planting Date	24-May			23-May			17-May		
				Harvest Date	17-Oct			11-Oct			10-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.



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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 2014 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	2013 Average Yield	2013 Yield: % of CRS-1		
				Arborg	Melita	Roblin
Alyssa	82	13	—	—	—	—
Anka	81	10	—	—	—	—
Canda	116	13	106	103	103	108
CanMa	88	3	—	—	—	—
CFX-1	94	13	—	—	—	—
CFX-2	94	12	103	90	96	111
CRS-1	100	16	100	100	100	100
Delores	98	14	135	—	102	110
Finola	59	11	87	63	—	94
Joey	114	8	155	—	116	128
Jutta	94	8	—	—	—	—
Silesia	64	6	66	71	—	64
X59	102	7	101	137	90	97
Varieties that are being evaluated for approval						
Debbie	93	6	136	—	103	111
CHECK CHARACTERISTICS			CRS-1 (lb/acre)	596	1209	1883
CRS-1	1389 lb/acre	16 site years	CV%	6.6	6.5	7.7
			LSD%	9	—	12
			Sign Diff	Yes	No	Yes
			Seeding Date	23-May	13-May	22-May
			Harvest Date	25-Sep	28-Aug	10-Sep

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Distributor Contacts for Varieties in Seed Manitoba 2014

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	DISTRIBUTOR	PHONE NUMBER
AC Manisoba	SeCan	Alberta Innovates Technology Futures	1-780-632-8436	
AC Springfield	Springfield Mills Inc.	BrettYoung Seeds Ltd.	1-800-665-5015	
Horizon	Mancan Genetics Ltd.	CANTERRA SEEDS	1-877-439-7333	
Koma	Springfield Mills Inc./Fisher Seeds/	Crop Development Center	1-306-966-5855	
Koto	Durand Seeds	DEKALB	1-800-667-4944	
Mancan	Fisher Seeds	Delmar Commodities	1-204-331-3696	
Manor	Public	DuPont Pioneer	1-800-265-9435	
	Public	Durand Seeds	1-204-248-2268	
		Fisher Seeds Ltd.	1-204-622-8800	
		Greenfield Genetics	1-604-929-7371	
		Hansen Seeds	1-306-465-2525	
		Hemp Genetics International Inc.	1-604-882-4936	
		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	
		NorthStar Genetics	1-701-454-6427	
		Ontario Hemp Alliance	1-613-281-2734	
		Parkland Industrial Hemp Growers Coop Ltd.	1-204-629-4367	
		PhytoGene Resources Inc.	1-613-240-4120	
		PICKSEED	1-204-633-0088	
		PRIDE Seeds	1-800-265-5280	
		Quarry Seeds Ltd.	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	

		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 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 Oil Canada Inc.	
CFX-2	Hemp Oil Canada 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	

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Growers List



BUCKWHEAT

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AC MANISOBA

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

AC SPRINGFIELD

Oak Bank; Kyle, Lorne C. & John Lawrence 204-444-3522 S C

MANCAN

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

INDUSTRIAL HEMP

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

CANDA

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

CFX-1

Fisher Branch; Interlake Agri 204-372-6720 C

CRS-1

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

FINOLA

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

HEMPNUT

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

USO 14

Carberry; Robinson, Chris T. 204-834-2357 C

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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 Level" 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 2013 Yield or Quality Tables

Numbers in brackets indicate site years. Site Years Tested is the number of locations added up over the years that a 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 small % CV is desirable.

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

Forage Crops



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it is a habit.”*

– Aristotle



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Manitoba Agriculture, Food and Rural Development Variety Guide

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 2013.

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*)

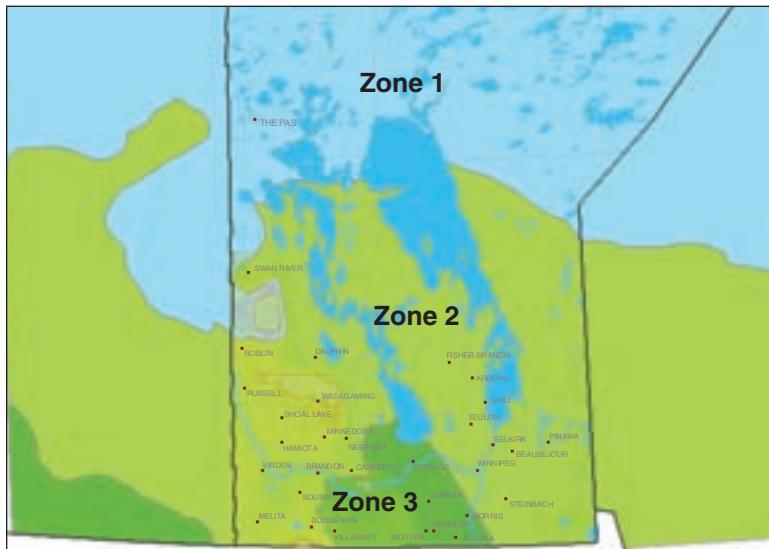
Forage	Use	Longevity	Winter Hardiness	Tolerance to:			Preferred Climate and Growing Conditions
				Drought	Flooding	Salinity	
Kentucky Blue Grass	Pasture	Long	Excellent	Moderate	Moderate	Low	Prefers cool and humid. Grows on most soils.
Meadow Bromegrass	Hay & Pasture	Long	Good	High	Low	Low	Grows well 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

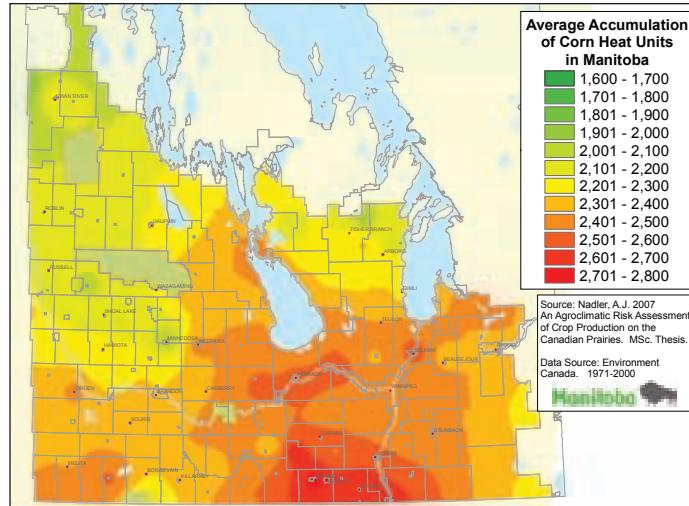
ALFALFA WINTER HARDINESS



This Plant Hardiness Zones (2000) map outlines the different zones within Manitoba where various types of plants (including alfalfa) will likely survive the winter. It is based on 30-year average climatic conditions of each area (min. and max. temperatures, frost-free period, summer and January rainfall, snow cover, wind speed, elevation). Hardiness Zone ratings are to be used only as guideline when selecting varieties as many factors influence overwintering ability (such as snow cover, timing of cold weather, location of plants in the landscape, relative health of plants as they enter winter). Always use optimum management techniques to ensure winter survival when choosing a variety with slightly poorer overwintering rating.

CORN HEAT UNIT ACCUMULATION

Corn heat units (CHU) are closely related to corn development. CHU is better than calendar days or growing degree days because CHU's only accumulate when night temperatures are above 4.4°C and day temperatures above 10°C, and maximum growth occurs at 30°C and decreases with higher temperatures. The map above indicates 30-year average accumulation of CHU in varying regions in the province.



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ANNUAL FORAGE — Variety Descriptions

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Variety ¹	Seed Source	Awned or Hooded	Rough, Smooth or Super Smooth Awns	Days to Maturity (Robust) ²	Resistance Level ³							
					Lodging ⁵	Stem Rust	Loose Smut	Surface borne Smut	Root Rot	Netted Net Blotch	Spotted Net Blotch	Spot Blotch
BARLEY												
AC Ranger (6F)	5	A	S	0	G	MR	MS	I	MR	I	MR	MR
Binscarth (6F)	21	A	R	-2	G	MR	I	MR	MR	I	—	MR
CDC Austenson ⁶	17	A	R	0	—		S	R	I	MS	R	MR
CDC Cowboy (2F) ⁶	17	A	R	0	G	MR	MS	MR	I	I	MR	I
CDC Mindon (2) ⁶	17	A	R	0	G	I	R	R	—	S	MR	I
Champion (2) ⁶	20	A	R	-1	G	I	S	R	—	S	I	MS
Chigwell ⁶	17	A	S	1	—	S	MS	R	S	I	MR	MR
Desperado ⁶	22	A	S	0	—	MR	MS	R	MR	S	MR	MR
Lacey (6W) ⁶	22	A	SS	0	G	MR	I	MR	MR	S	I	MR
Robust (6W)	4	A	S	89 days	G	MR	I	I	I	S	MS	MR
Sommerville (6F)	7	A	—	—	—	—	—	—	—	—	—	—
Virden (6F)	17	A	SS	+2	VG	MR	MS	I	MR	MS	MR	MR
Xena (2)	20	A	R	0	G	MR	MS	MS	MR	S	I	S
Hulless												
Falcon (6)	14	A	S	-1	VG	MR	MS	MR	I	I	—	I
Variety ⁴	Seed Source	Days to Maturity (AC Assiniboia) ²		Resistance Level ³								
		Lodging ⁵	Stem Rust	Crown Rust	Smut	BYDV						
OATS												
AC Assiniboia	20	95 days		VG	I	S	R	I				
AC Medallion	4	+1		F	I	I	R	MS				
AC Mustang	23	-5		G	S	S	MS	MS				
CDC Baler	5	+5		G	S	S	R	MS				
CDC Pacer	5	0		F	S	MS	MR	MS				
Furlong ⁶	3	0		G	I	S	R	MR				
Jordan ⁶	17	3		VG	I	I	R	MR				
Pinnacle ⁶	5	+4		G	I	S	R	MS				
Triactor ⁶	3	0		VG	S	MR	I	MS				
Triple Crown ⁶	5	-3		VG	S	MS	MR	MS				
Variety	Seed Source	Days to Maturity (Banjo) ²		Resistance Level ³								
		Lodging ⁵	Stem Rust	Leaf Rust	Bunt	Fusarium						
TRITICALE												
AC Alta	14	-1		G	R	R	R	—				
AC Certa	14	-3		G	R	R	R	I				
Banjo	5	100 days		G	R	R	R	—				
Bumper ⁶	17	-3		G	R	R	R	—				
Bunker ⁶	5	3		G	R	R	R	I				
Pronghorn	14	-4		G	R	R	R	I				
SANDRO	5	-3		G	R	R	R	—				
Tyndal ⁶	17	-3		G	R	R	R	MS				

(continued) ANNUAL FORAGES — Variety Descriptions

Variety	Seed Source	Leaf Type	Maturity Rating	Vine Length (cm)	Resistance Level ⁵		
					Lodging	Powdery Mildew	Mycosphaerella Blight
PEAS							
40-10	5	Normal	Long	100	P	P	P
CDC Leroy	16	SemiLeafless	Medium	80	G	VG	F
CDC Minuet	16	SemiLeafless	Medium	70	F	VG	F
CDC Sonata	16	Normal	Long	85	F	VG	F
CDC Tucker	16	SemiLeafless	Medium	80	G	VG	F
Trapper	17	Normal	Long	100	P	P	P
Seed Source	Seed Color	Seed Size (seeds/lb)	Days to Head	Days to Maturity ²			
FOXTAIL MILLET							
Yellow (Golden German)	15	Yellow	160-170,000	75-90	95-110		
Red (Siberian)	15	Red	169-170,000	55-70	70-90		
PROSO MILLET							
Green (Crown)	15	Gray/Green	70-90,000	50-60	85-90		
Red (Cerise)	15	Red	70-90,000	50-60	85		
Yellow (AC Prairie Gold)	20	Yellow	70-90,000	50-60	75		

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

2 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.

3 Resistance to leaf diseases can improve forage quality and yield: (R) Resistant; (MR) Moderately Resistant; (I) Intermediate; (MS) Moderately Susceptible; (S) Susceptible; (—) = not available. See cereal & special crop section in of this guide for more detail of crop tolerances.

4 All varieties are susceptible to new races of NA67 and NA76. These races caused moderate damage to crops in the Red Valley in 2001 & 2002.

5 For lodging and pea disease ratings, (VG) Very Good; (G) Good; (F) Fair; (P) Poor; (VP) Very Poor; (—) = not available.

FORAGE CROP S

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	Hamiaota Minnedosa	Rosebank	Roblin	RFV (%)	CP (%)	TDN (%)	Beef ³ (lbs/ac)	Site Years	
BARLEY													
AC Ranger (6F)	105 (12)	100 (24)	100 (6)	100 (6)	— —	100 (6)	100 (6)	123	9.8	65	1011	(6)	
Binscarth	—	98 (20)	96 (5)	96 (5)	— —	102 (5)	98 (5)	115	10.1	65	974	(5)	
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)	
Robust (6W)	95 (12)	—	105 (2)	94 (4)	95 (4)	— —	— —	—	—	—	—	—	
Sommerville	95 (12)	—	106 (1)	95 (4)	95 (4)	— —	94 (1)	146	11.0	66	948	(1)	
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)	— —	— —	— —	— —	—	—	—	—	—	

ANNUAL FORAGE — Yield Comparisons (*continued*)

Variety	Manitoba Mean ¹ % of Triple Crown	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
OATS											
AC Assiniboia	88 (30)	93 (6)	95 (9)	91 (4)	83 (4)	97 (5)	107	10.2	62	936	(5)
AC Medallion	88 (11)	92 (1)	90 (4)	89 (4)	—	—	—	—	—	—	—
AC Mustang	93 (20)	91 (5)	94 (5)	—	96 (5)	92 (5)	102	10.8	62	985	(5)
CDC Baler	99 (15)	106 (4)	99 (4)	—	94 (3)	98 (4)	104	11.0	62	1051	(4)
CDC Pacer	94 (11)	99 (1)	94 (4)	96 (4)	—	—	—	—	—	—	—
Furlong	97 (11)	103 (3)	102 (3)	—	75 (2)	101 (3)	111	11.0	64	997	(3)
Jordan	102 (12)	94 (3)	102 (3)	—	94 (3)	97 (3)	98	9.3	61	1061	(3)
Pinnacle	95 (26)	99 (5)	99 (8)	100 (4)	90 (3)	94 (4)	100	8.8	60	1049	(3)
Triactor	99 (8)	105 (2)	101 (2)	—	92 (2)	98 (2)	107	9.2	61	1177	(2)
Triple Crown	100 (34)	100 (7)	100 (10)	100 (4)	100 (5)	100 (6)	113	10.4	61	1058	(6)
TRITICALE											
AC Alta	104 (11)	82 (1)	117 (4)	94 (4)	—	—	—	—	—	—	—
AC Certa	99 (11)	93 (1)	104 (4)	93 (4)	—	—	—	—	—	—	—
Banjo	100 (19)	100 (3)	100 (6)	100 (4)	—	—	105	10.4	61	1052	(2)
Bumper	91 (4)	82 (1)	87 (1)	—	99 (1)	97 (1)	105	10.1	60	1051	(1)
Bunker	89 (8)	80 (2)	91 (2)	—	94 (2)	92 (2)	100	9.5	60	903	(3)
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)
Tyndal	87 (8)	88 (2)	79 (2)	—	92 (2)	92 (2)	106.66	10.0	61	900	(3)
PEAS											
40-10 (Check)	100 (22)	100 (5)	—	—	—	100 (4)	122	16	57	980	(4)
CDC Leroy	105 (22)	96 (5)	—	—	—	95 (4)	154	16	63	1136	(4)
CDC Minuet	95 (22)	97 (5)	—	—	—	100 (4)	155	16	64	1050	(4)
CDC Sonata	104 (22)	98 (5)	—	—	—	96 (4)	141	17	60	1077	(4)
CDC Tucker	105 (22)	94 (5)	—	—	—	99 (4)	142	16	62	1118	(4)
Trapper	90 (22)	83 (5)	—	—	—	87 (4)	129	17	58	898	(4)
FOXTAIL MILLET											
Yellow (Golden German)	100 (9)	100 (1)	100 (3)	—	100 (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.											

1 Check varieties for cereal crops depends on the year tested. Virden: 8788 lb/ac (9841 kg/ha) over 28 site years; AC Ranger yield: 6292 lb/ac (7046 kg/ha) over 24 site years; Triple Crown 9927 lb/ac (11,117 kg/ha) over 34 site years; Banjo 10,148 lb/ac (11,366 kg/ha) over 14 site years. Forage Pea check 40-10 with an average yield of 9192 lb/ac (10,320 kg/ha) on 22 site years. Data collected over 6 years (2003-2008) on six sites: Arborg, Roblin (MB), Sutherland, Floral (SK), Lacombe, Edmonton (AB).

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

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



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ALFALFA — Variety Descriptions

Variety	Root Type ¹	Use ²	Fall ³		Winter Hardiness ⁴	Maturity ⁵	Resistance Level: ⁶			Year Registered	Notes ⁷	Seed Source
			Dormancy	Hardiness			BW	VW	PRR			
53Q60	Taproot	H,P	3	3.0	Early	HR	R	HR	1999		12	
54Q25	Taproot	H,P	4	—	—	HR	HR	HR	2003		12	
54V46	Taproot	H	4	3.0	—	R	R	R	2004		12	
54V54	Taproot	H	4	2.5	—	HR	HR	HR	2000		12	
Able	Taproot	H,P	2.5	2.9	Early	HR	HR	HR	1995		11	
AC Blue J	Taproot	H	—	—	Medium	HR	R	R	1994		17	
AC Grazeland Br	Taproot	P,H	2	—	Medium	R	S	—	1998	Bloat reduced	11	
AC Longview	Taproot	H	3	2.9	Medium	HR	R	—	1999		11	
Algonquin	Taproot	H,P	2	2.1	Medium	HR	S	S	1973		15	
AmeriStand 201+Z	Taproot	H	2	1.7	—	HR	HR	HR	2002	Sunken crown	20	
Apica	Taproot	H	3	2.3	Early	R	S	S	1982		18	
Beaver	Taproot	H,P	2	2.1	Medium	R	S	S	1961		15	
Equinox	Taproot	H	3.5	—	Medium	HR	HR	HR	2006		20	
Forerunner	Taproot	H	2	—	Early	HR	HR	HR	1995	Multifoliate	6	
Gala	Taproot	H	2	2.7	Early	HR	HR	HR	1996	Multifoliate	20	
Halo	Taproot	H	4			R	R	R	2010	(HR)-Anthracnose, Fusarium; (R)-Aphanomyces	20	
Heinrichs	Creeping	P,H	1	2.1	Medium-Late	R	—	—	1981		20	
Matrix	Creeping	P,H	2	—	Medium	HR	MR	R	2004	Resistant pea aphid	8	
Multi5301	Taproot	H	3	2.9	Early-Medium	HR	R	R	2002	Multifoliate	8,10	
Pickseed 2065MF	Taproot	H	3.7	2.0	—	HR	R	HR	2000	Multifoliate	11	
Pickseed 3006	Creeping	P,H	2	—	—	HR	MR	MR	1999		11	
Rambler	Creeping	P,H	1	—	Late	MR	S	S	1995		15	
Rangelander	Creeping	P,H	1	2.0	Late	S	S	S	1978		17	
Runner	Creeping	P,H	2	2.6	Medium-Late	HR	S	—	1995		9	
Spredor 4	Creeping	P,H	1.5	2.0	Medium	HR	HR	HR	2002		20	
Spyder	Creeping	P,H	1	1.0	Medium-Late	HR	R	R	2009		2	
Starbuck	Taproot	H	3.7	—	—	HR	R	HR	2001	Multifoliate	11	
Stealth SF	Taproot	H	4	1.9	Early	HR	R	HR	2004		9	
Survivor	Taproot	H	3	—	Medium	HR	R	HR	1999	Sunken Crown	2	
Tophand	Taproot	H	4	—	Medium	HR	HR	HR	2004	Multifoliate	9	
Trident II	Taproot	H	3	—	Early				1993		3	
Ultra	Taproot	H	3	—	Medium				R	1988	6	

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 - varieties are 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 and Grassland Assoc. 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 winterhardiness 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.

ALFALFA — Yield Comparisons

F
O
R
A
G
E

C
R
O
P
S

Variety	% Manitoba Mean ⁸			% of Beaver	Manitoba Mean				Yield at test sites % of Beaver	
	1st Cut	2nd Cut	3rd Cut		Arborg	Brandon ⁹	Neepawa-Rosebank ¹⁰	Steinbach-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)	105 (5)	101 (26)	—	100 (20)	
AC Grazeland Br ⁶	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)	
Algonquin	102 (28)	106 (27)	126 (19)	103 (28)	108 (12)	111 (3)	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)	102 (9)	114 (3)	—	—	
Beaver	100 (142)	100 (133)	100 (56)	100 (150)	100 (49)	100 (14)	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)	106 (1)	—	—	109 (2)	
Halo	—	—	—	107 (1)	—	—	107 (1)	—	—	
Heinrichs	100 (37)	98 (37)	119 (27)	98 (37)	96 (15)	98 (9)	103 (8)	—	95 (5)	
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)	92 (13)	96 (46)	—	92 (32)	
Rangelander	98 (75)	92 (68)	75 (24)	94 (81)	99 (27)	92 (7)	96 (26)	—	94 (19)	
Runner	95 (8)	102 (8)	91 (5)	101 (8)	110 (2)	93 (4)	100 (2)	—	—	
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.

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.

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

9 Brandon was discontinued in 1995 as a forage variety testing site.

10 The Neepawa site was moved to Rosebank in 2004.

11 The St.Pierre site was moved to St.Adolphe in 2009. The average mean yields in this column contain data from the following: St. Adolphe (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	Year Registered	Seed Source
BIRDSFOOT TREFOIL								
AC Langille	95	(5) P	G	Good	Early	non-bloating	n/a	20
Bull	97	(3) P	G	Good		non-bloating	1991	11
Empire	87	(4) P	F	Medium		non-bloating	<1963	15
Leo	100	(19) P	G		Early	non-bloating	1963	15
OAC Bright	96	(3) P	E	Medium		non-bloating	n/a	11
Upstart	102	(5) P	G			non-bloating	1986	11
Check - Leo average Dry Matter Yield 5610 lb/ac (6299 kg/ha) over 19 site years								
ALSIKE CLOVER								
Aurora	—	— —	—	—	—	—	1961	2
Frida	—	— —	—	—	—	—	2003	11
CICER MILKVETCH								
AC Oxley II	—	— —	—	—	—	non-bloating	n/a	2
Oxley	100	(11) P	E	—	—	non-bloating	n/a	11
Windsor	119	(6) P	E	—	—	non-bloating	n/a	20
Check - Oxley average Dry Matter Yield 4544 lb/ac (5102 kg/ha) over 11 site years								
RED CLOVER								
Altaswede	—	H	—	—	—	single-cut	1961	11
Belle	—	H,P	—	—	—	double-cut	1998	11
Concorde	—	H,P	—	—	—	double-cut	1992	11
Juliet	—	H,P	—	—	—	double-cut	1998	2
Prima	—	H,P	—	—	—	double-cut	1996	11
Wildcat	—	—	—	—	—	—	—	2
YELLOW SWEET CLOVER								
Norgold	100	(1) H	—	—	Very Early	low coumarin	1981	17
Yukon	102	(1) H	—	—	Early	—	1970	15
Check - Norgold average Dry Matter Yield 4254 lb/ac (4772 kg/ha) over 1 site year								
SAINFOIN								
Nova	100	(11) H,P	—	—	—	non-bloating	n/a	17
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								
8,20								

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

2 Winter Hardiness: Ratings based on winter hardness 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-accute levels.

GRASS SPECIES — Variety Descriptions and Yield Comparisons

Variety	Manitoba Mean % of check	Use ¹	Maturity	Year Registered	Notes ²	Seed Source
ANNUAL RYEGRASS						
Italian						
Barmultra	101	(3)		1981		20
Fabio	—	—		2001		2
Maris Ledger	100	(8)		1979		15
Max	—			2001		11
Nabucco	99	(3)	Early/medium	2008		9
Check - Maris Ledger average DM yield 7597 lb/ac (8536 kg/ha) over 8 site years.						
Westerwold						
Aubade	100	(9)	Early	1982		2
Elunaria	101	(3)		2008		9
SW Botrus	—			2001		11
Sabroso	105	(3)		2002		20
Check - Aubade average DM yield 7913 lb/ac (8891 kg/ha) over 9 site years.						
CREEPING FOXTAIL						
Garrison	100	(3) P		n/a		11
Check - Garrison DM Average yield 2650 lb/ac (2973 kg/ha) over 3 site years						
CREEPING RED FESCUE						
Boreal	100	(10) P	Early	1966		15
Check - Boreal average DM yield 4739 lb/ac (5321kg/ha) over 10 site years.						

Variety	Manitoba Mean % of check	Use ¹	Maturity	Year Registered	Notes ²	Seed Source
CRESTED WHEATGRASS						
AC Goliath	103	(18)	—	2003	—	17
AC Parkland	—		P	1999	—	11
Fairway	93	(17)	H, P	1932	Diploid	15
Kirk	100	(35)	H, P	1987	Tetraploid	17
Nordan	93	(17)	H, P	1958	Tetraploid	15
Parkway	91	(17)	H, P	1969	Diploid	11
Check - Kirk average DM Yield 5724 lb/ac (6416 kg/ha) over 35 site years.						
INTERMEDIATE WHEATGRASS						
Chief	100	(9)	H	1961		17
Clarke	97	(5)	H	1980		10
Check - Chief average DM Yield 5329 lb/ac (5978 kg/ha) over 9 site years.						
MEADOW BROME						
Fleet	100	(40)	P,H	1987		17
Montana	99	(15)	P,H	2005		20
MBA				2009		11
Paddock	101	(10)	P,H	Early	1987	17
Check - Fleet average DM Yield 4807 lb/ac (5383 kg/ha) over 40 site years.						
MEADOW x SMOOTH BROMEGRASS						
AC Success	—	—	P,H		Hybrid	11
Bigfoot	—	—	P,H		Hybrid	2
Knowles	103	(12)	P,H		Hybrid	20
Check - Fleet average DM Yield 4498 lb/ac (5054 kg/ha) over 12 site years.						
MEADOW FESCUE						
Ensign	100	(25)	P,H	1944		11
Epic	—		P,H	1994		2
Prevail				2009		9
Sigmund	—		P,H	Early-Medium	2002	11
Check - Ensign average DM Yield 4157 lb/ac (4667 kg/ha) over 25 site years.						
MEADOW FOXTAIL						
Mountain	127	(5)	P	1989		15
Check - Dan average DM Yield 4696 lb/ac (5272 kg/ha) over 7 site years.						
ORCHARDGRASS						
AC Nordic	97	(6)	P,H	Late	1992	Winter Hardiness - VG
Baridana	—		P,H	Late	1999	20
Early Arctic	99	(5)	P,H	Medium	2002	Winter Hardiness - E
Kay	100	(53)	P,H	Late	1970	Winter Hardiness - G
Killarney					2007	20
Kootaney					2007	20
Okay	—		H,P	Very Late	1992	Winter Hardiness - VG
Check - Kay average DM Yield 4487 lb/ac (5029 kg/ha) over 59 site years.						
PUBESCENT WHEATGRASS						
Greenleaf	—		P,H	—	1966	20
QUACKGRASS x BLUEBUNCH WHEATGRASS						
NewHy	—		P,H	—	n/a	20
REED CANARYGRASS3						
Bellevue	—		P, H	Early	1993	Low alkaloid
Marathon	—		P,H	Medium	2001	Low alkaloid
Rival	100	(21)	P,H	—	1985	9,20
Vantage	112	(21)	P,H	Early	1981	Low alkaloid
Venture	108	(21)	P,H	Very Early	1987	12
Check - Rival average DM Yield 4746 lb/ac (5324 kg/ha) over 21 site years.						
RUSSIAN WILD RYEGRASS						
Swift	100	(6)	P,H	1978		17
Check - Swift average DM yield 3951lb/ac (4432 kg/ha) over 6 site years.						
SLENDER WHEATGRASS						
Revenue	100	(6)	P,H	1970		11
Check - Revenue average DM yield 3928 lb/ac (4407 kg/ha) over 6 site years.						
SMOOTH BROMEGRASS						
AC Rocket	105	(15)	H		2001	20
Bravo	98	(7)	H, P	Early	1983	11
Carlton	100	(65)	H, P		1961	15
Magna	99	(26)	H, P		1968	17
Signal	—		H,P		1983	17,20
Check - Carlton average DM Yield 5796 lb/ac (6491 kg/ha) over 65 site years.						

GRASS SPECIES (continued)

Variety	Manitoba Mean % of check	Use ¹	Maturity	Year Registered	Notes ²	Seed Source
TALL FESCUE						
Barcel	—		H,P	Late	1988	20
Courtenay	100	(28)	P,H	Late	1987	Winter Hardiness - G 9
Dovey	—		P,H		1998	Winter Hardiness - G 11
Fuego	—		P,H		1990	11
Kokanee	96	(9)	P,H		1995	Winter Hardiness - G 2
Maximize	92	(7)	P,H	Late	1990	11
Check - Courtenay average DM Yield 5751 lb/ac (6441 kg/ha) over 28 site years.						
TALL WHEATGRASS						
Orbit	100	(6)	P,H		1966	17
Check - Orbit Average DM yield 4216 lb/ac (4730 kg/ha) over 6 site years.						
TIMOTHY						
Basho	99	(18)	H	Medium	1974	17
Champ	98	(25)	H,P	Early	1967	15
Climax	100	(88)	H,P	Medium-Late	1947	15
Drummond	96	(14)	H	Very Late	1940	11
Farol	74	(10)	H	Late	1985	11,20
Grindstad	99	(9)	H,P	Early	2000	20
Richmond	103	(23)	H,P	Very Early	1976	11
Tuukka	99	(11)	H	Late	1997	19
Limited data for the following marketed varieties.						
Alexander	85	(6)	H	Late	1987	19
Aurora	—		—	Late	1999	2
Bottnia II	104	(5)	H,P	Medium	1985	20
Colt	100	(3)	H	Medium	1995	20
Comtal	—		H,P	Medium-late	1995	11
Derby					2007	20
Express	112	(6)	H,P	Medium-Late	1999	9
Promesse	100	(6)	H,P	Medium	1993	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						1,2,8,9
Sideoats, Grama, Blue Gramma, Switchgrass and Prairie Cordgrass, Western Wheatgrass						11,13,19,20
Limited data for the following marketed Cool Season Native Grass Species						
Canada Wildrye, Green Needlegrass, Western Wheatgrass						1,2,8,9
Northern Wheatgrass, Streambank Wheatgrass and, Needle and Thread grass.						11,13,19,20

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

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

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

DISTRIBUTOR CONTACTS — Forage Seed

1 Blight Native Seeds.....	1-204-267-2686	12 Pioneer Hi-Bred Ltd.....	1-800-265-9435
2 Brett Young	1-800-665-5015	13 Prairie Habitats.....	1-204-467-9371
3 Canterra Seeds	1-877-439-7333	14 Progressive Seeds Ltd.	1-403-782-6169
4 Cargill Seed.....	1-204-947-6319	15 Public Variety.....	Contact your local seed firm or MAFRD FPA
5 Dyck Forages and Grasses Ltd.....	1-888-204-1000	16 Saskatchewan Pulse Growers	1-306-668-5556
6 Federated Coops Ltd.....	1-306-664-1700	17 SeCan	1-800-665-7333
7 Hyland Seeds.....	1-204-745-2349	18 S.S. Johnson Seeds	1-800-363-9442
8 Interlake Forage Seeds	1-800-990-1390	19 Vandaele Seeds Ltd.	1-204-665-2384
9 Northstar Seed Ltd.....	1-800-430-5955	20 Crop Production Services Canada.....	1-800-661-3334
10 Oldenburg Inc.....	1-204-348-2294	21 Wagon Wheel Seed Corp.....	1-306-896-2236
11 Pickseed Canada	1-800-263-7425	22 Alliance Seed Corporation	1-877-270-2890

DISTRIBUTOR	PHONE NUMBER		
Caird Holdings.....	1-604-790-7371	Northstar Genetics	1-701-454-6427
Croplan Genetics.....	1-604-929-7371	PICKSEED	1-204-633-0088
Dow AgroSciences	1-226-688-4059	Pioneer Hi-Bred Ltd.....	1-800-265-9435
Elite - Brett Young.....	1-204-261-7932	Prairie Pacific Seeds Ltd.	1-604-319-0376
Hyland Seeds	1-204-745-7656	Pride Seeds.....	1-800-265-5280
Maizex Seeds Inc.	1-877-682-1720	Quarry Grain.....	1-888-274-9243
Monsanto Canada Inc.	1-800-667-4944	Seeds 2000	1-877-841-7447
		Syngenta Seeds Canada Inc.	1-888-756-7333

Growers List



ALFALFA

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

2010

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

C

4010BR

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4020MF

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4030

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C

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C

ABLE

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

C

AC BRADOR

Neepawa; Northstar Seed Ltd. 204-476-5241

C

AC CARIBOU

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

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E-MAIL..... shawn.cabak@gov.mb.ca

Eastman

Beausejour

General Contact 204-268-6094
Terry Buss (FPA) 204-266-2061
E-MAIL..... terry.buss@gov.mb.ca

St. Pierre

Marilyn Perreault (EC) 204-433-7749
E-MAIL..... marilyn.perreault@gov.mb.ca

Steinbach

General Contact 204-346-6080
Earl Bargen (FPA) 204-392-2247
E-MAIL..... earl.bargen@gov.mb.ca

Vita

Vivian Giesbrecht (EC) 204-425-5050
E-MAIL..... vivian.giesbrecht@gov.mb.ca
Peter Pettrash (FPA) 204-425-5054
E-MAIL..... peter.pettrash@gov.mb.ca

North Interlake

Arborg

General Contact 204-376-3300
Dean Stoyanowski (FPA) 204-641-1588
E-MAIL..... dean.stoyanowski@gov.mb.ca

Ashern

Joanne Bauch (EC) 204-768-2782
E-MAIL..... joanne.bauch@gov.mb.ca
Ray Bittner (FPA) 204-768-0010
E-MAIL..... ray.bittner@gov.mb.ca

Lundar

General Contact 204-762-5649

North Parkland

Dauphin

Mary Lou Goshulak 204-622-2007
E-MAIL..... marylou.goshulak@gov.mb.ca
Jim Heshka (FPA) 204-648-5110
E-MAIL..... jim.heshka@gov.mb.ca

Roblin

Everlito Mendoza (EC) 204-937-6460
E-MAIL..... everlito.mendoza@gov.mb.ca
Elizabeth Nernberg (FPA) 204-937-0130
E-MAIL..... elizabeth.nernberg@gov.mb.ca

MANITOBA AGRICULTURE, FOOD AND RURAL DEVELOPMENT (MAFRD)

Ste. Rose

Shelley Moffatt (EC) 204-447-4032
E-MAIL..... shelley.moffatt@gov.mb.ca

Pembina

Killarney

Brett Skeoch (EC) 204-523-5260
E-MAIL..... brett.skeoch@gov.mb.ca

Pilot Mound

Jo-lene Gardiner (EC) 204-825-3512
E-MAIL..... jo.gardiner@gov.mb.ca

Somerset

Cheryl Routhier (EC) 204-744-4050
E-MAIL..... cheryl.routhier@gov.mb.ca
Rejean Picard (FPA) 204-825-8054
E-MAIL..... rejean.picard@gov.mb.ca

Red River

Altona

Jacquie Cherewayko (EC) 204-324-2804
E-MAIL..... jacquie.cherewayko@gov.mb.ca

Dennis Lange (FPA) 204-324-4383
E-MAIL..... dennis.lange@gov.mb.ca

Carman

Frieda Wight (EC) 204-745-5610
E-MAIL..... frieda.wight@gov.mb.ca

Morden

Mandy Lewick (EC) 204-822-5461
E-MAIL..... mandy.lewick@gov.mb.ca

Morris

Indra Ariyaratne (EC) 204-746-2312
E-MAIL..... indra.ariyaratne@gov.mb.ca
Ingrid Kristjanson (FPA) 204-746-5579
E-MAIL..... ingrid.kristjanson@gov.mb.ca

Teulon

Robert Broadfoot (EC) 204-886-2696
E-MAIL..... robert.broadfoot@gov.mb.ca

Myles Hodge (FPA) 204-886-8201
E-MAIL..... myles.hodge@gov.mb.ca

Derrick Chomokovski (FPA) 204-878-0317
E-MAIL..... derrick.chomokovski@gov.mb.ca

South Parkland

Hamiota

Gwenda Skayman (EC) 204-764-3010
E-MAIL..... gwenda.skayman@gov.mb.ca

Amir Farooq (FPA) 204-764-0303
E-MAIL..... amir.farooq@gov.mb.ca

Minnedosa

Carma Levadoski (EC) 204-867-6572
E-MAIL..... carma.levadoski@gov.mb.ca

Elmer Kaskiw (FPA) 204-365-0966
E-MAIL..... elmer.kaskiw@gov.mb.ca

Neepawa

Maureen Cox (EC) 204-476-7020
E-MAIL..... maureen.cox@gov.mb.ca

Russell

Dolores Muir (EC) 204-773-5130
E-MAIL..... dolores.muir@gov.mb.ca

Jewel Mazur (FPA) 204-821-6153
E-MAIL..... jewel.mazur@gov.mb.ca

Brandon

General Contact 204-726-6482

Melita

Hannah Minshall (EC) 204-522-3256
E-MAIL..... hannah.minshall@gov.mb.ca

Souris

Linda Ryckman (EC) 204-483-2153
E-MAIL..... linda.ryckman@gov.mb.ca

Lionel Kaskiw (FPA) 204-483-0531
E-MAIL..... lionel.kaskiw@gov.mb.ca

Virden

Sherry Grandmont (EC) 204-748-4770

E-MAIL..... sherry.grandmont@gov.mb.ca

Andrea Arbuckle (FPA) 204-851-6087

E-MAIL..... andrea.arbuckle@gov.mb.ca

MANITOBA AGRICULTURE, FOOD AND RURAL DEVELOPMENT (MAFRD)

Urban & Northern

Winnipeg

Chipo Hambira (EC) 204-945-4521
E-MAIL chipo.hambira@gov.mb.ca

Valleys North

Swan River

Nicole Clouston (EC) 204-734-3417
E-MAIL nicole.clouston@gov.mb.ca
Stephanie Jersak (FPA) 204-281-1923
E-MAIL stephanie.jersak@gov.mb.ca

The Pas

General Contact 204-627-8255
Marnie McCracken (FPA) 204-620-1545
E-MAIL marnie.mccracken@gov.mb.ca

DIVERSIFICATION CENTRES

PARKLAND CROP DIVERSIFICATION FOUNDATION (PCDF)

Northwest Region

Jeff Kostuik, Manitoba Agriculture, Food And Rural Development
Box 970, 117 2nd Ave N, Roblin, MB R0L 1P0 204-773-6178
FAX 204-937-6479
E-MAIL jeff.kostuik@gov.mb.ca

PRAIRIES EAST SUSTAINABLE AGRICULTURE INITIATIVE (PESAI)

Eastern Region

Roger Burak, Paula Halabicki & James Lindal, Manitoba Agriculture, Food And Rural Development
Box 2000, Arborg, MB R0C 0A0 204-376-3300
FAX 204-376-3311
E-MAIL roger.burak@gov.mb.ca

WESTMAN AGRICULTURAL DIVERSIFICATION ORGANIZATION (WADO)

South West Region

Scott Chalmers, Manitoba Agriculture, Food and Rural Development
Box 519, 139 Main St, Melita, MB R0M 1L0 204-522-3256
FAX 204-522-8054
E-MAIL scott.chalmers@gov.mb.ca

CANOLA COUNCIL OF CANADA

Patti Miller, President

400-167 Lombard Avenue, Winnipeg, MB R3B 0T6 204-982-2109
FAX 204-942-1841
E-MAIL millerp@canolacouncil.org

Curtis Rempel, Vice President Crop Production and Production

400-167 Lombard Avenue, Winnipeg, MB R3B 0T6 204-982-2105
FAX 204-942-1841
E-MAIL rempelc@canolacouncil.org
WEB SITE www.canolacouncil.org

Terry Youzwa, Chairman, CCC Board of Directors

Director SaskCanola, Box 668, Nipawin SK S0E 1E0 306-862-5070
E-MAIL terryyouzwa@gmail.com

Gail Hoskins, Crop Production Administrator, CARP Coordinator

400-167 Lombard Avenue, Winnipeg, MB R3B 0T6 204-982-2102
FAX 204-942-1841
E-MAIL hoskinsg@canolacouncil.org

Vacant, Crop Production Resource Manager

Raymond Gadoua, Canola Co-op Test Manager
Lab 12, 410 Downey Road, Saskatoon SK S7N 4N1 306-683-2403
FAX 306-683-2428
E-MAIL gadouar@canolacouncil.org

Franck Groeneweg, Chair Canola Performance Trial Governance Committee
Box 50, Edgeley, SK S0G 1L0 306-699-2262
E-MAIL franck@greenatlantic.com

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FAX.....204-248-2364
E-MAIL.....nlprejet@inetlink.ca

Marc Durand, President

Box 60, Notre Dame de Lourdes, MB R0G 1M0.....204-248-2268
E-MAIL.....durandseeds@gmail.com

Cam Stockford, Vice President

Box 96, Altamont MB R0G 0A0.....204-744-2267
FAX.....204-744-2267

Gerald Friesen

Box 457, Morden, MB R6M 1A5204-822-3633
E-MAIL.....gefgrain@gmail.com

David Huyber

Box 110, Langruth, MB R0H 0N0.....204-445-2285
FAX.....204-445-2162

Lorne Kyle

Box 37, Oakbank, MB R0G 1J0.....204-822-4396
FAX.....204-822-8550
E-MAIL.....lrcdkyle@mymts.net

Les McEwan

Box 28, Altamont, MB R0G 0A0.....204-744-2344
E-MAIL.....mcewan_les@hotmail.com

MANITOBA BUCKWHEAT GROWERS ASSOCIATION

Albert Strilkiwski

Ethelbert, MB R0L 0T0.....204-742-3560

Karl Walkof

RR 1, Box 48, Winkler, MB R6W 4A1204-325-4669

Albert Dohan

Ethelbert, MB R0L 0T0.....204-742-3746

Syd Puchailo

RR 5 Grandview, MB R0L 0Y0.....204-546-2074

Denis Touzin, Industry Representative

Keystone Grain Ltd, Winkler.....204-325-9555

MANITOBA CANOLA GROWERS ASSOCIATION (MCGA)

Bill Ross, Executive Manager

400-167 Lombard Avenue, Winnipeg, MB R3B 0T6204-982-2120
FAX.....204-942-1841
E-MAIL.....rossb@mcgacanola.org

Liz Hiebert, Executive Assistant

PHONE.....204-982-2122
E-MAIL.....hiebertl@mcgacanola.org



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Ed Rempel, President
Box 7, Starbuck, MB R0G 2P0.....204-735-2846
FAX.....204-735-2846

Brian Chorney, Vice-President
Box 1 Grp 23 RR 1, East Selkirk, MB R0E 0M0.....204-482-4997
FAX.....204-482-8069

Wilfred Harder, Secretary
Box 88, Lowe Farm, MB R0G 1E0.....204-746-8005
FAX.....204-746-6025

Clayton Harder
Box 14 Grp 336 RR3, Winnipeg, MB R3C 2E7.....204-470-3021

John (Jack) Froese
Box 1056, Winkler, MB R6W 4B8.....204-325-2056
FAX.....204-325-7291

Dale Gryba
RR 1, Gilbert Plains, MB R0L 0X0.....204-548-2592
FAX.....204-548-2272

Hugh Drake, Treasurer
Box 220, Elkhorn, MB R0M 0N0.....204-845-2544
FAX.....204-845-2399

MANITOBA CANOLA GROWERS ASSOCIATION (MCGA)

Ernie Sirski
Box 121, Dauphin, MB R7N 2T9.....204-638-5511
FAX.....204-638-5511

MANITOBA CORN GROWERS ASSOCIATION

Theresa Bergsma, General Manager
Box 188, Carman, MB R0G 0J0204-745-6661
E-MAIL.....theresa@manitobacorn.ca

Myron Krahn, President
Box 585, Carman, MB R0G 0J0204-745-1938
E-MAIL.....mjkrahn@sdnet.ca

Leonard Wiebe, Vice-President
Box 1300 Carman, MB R0G 0J0204-745-5097
E-MAIL.....lwiebe@pmcnet.ca

Hank Enns, Past-President
Box 1293, Altona, MB R0G 0B0.....204-324-6342
E-MAIL.....hennsfarms77@hotmail.ca

John Bergen
Box 578, Carman, MB R0G 0J0204-343-2347
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Box 125, Arborg, MB R0C 0A0	204-376-2487
E-MAIL.....	reg@darjon.com
Jonathan Kaminsky	
Box 69, Brunkild, MB R0G 0E0.....	204-736-2767
E-MAIL.....	johnathan_kaminsky@hotmail.com
Lorne Leopky	
Box 326, Niverville, MB R0A 1E0.....	204-388-4503
E-MAIL.....	lrloepky@xplornet.com
Emile Moran	
Box 111, Otterburne, MB R0A 1G0.....	204-433-7129
E-MAIL.....	morinseed@gmail.com
Dennis Thiessen	
Box 2965, Steinbach, MB R5G 1P3.....	204-326-3070
E-MAIL.....	denemfarms@gmail.com
Roland Unger	
Box 265, Arden, MB R0J 0B0	204-368-2421
E-MAIL.....	runger@inetlink.ca
Garett Veldman	
Box 1894, Carman, MB R0G 0J0	204-745-3573
E-MAIL.....	garett.veldman@syngenta.com
Trevor Wytinck	
Box 95, Cypress River, MB R0K 0P0.....	204-743-2038
E-MAIL.....	T.Wytinck@hotmail.com
Pam de Rocquigny, Corn Committee Data Contact, MAFRD	
Box 1149, Carman, MB R0G 0J0	204-745-5676
E-MAIL.....	pamela.deroquigny@gov.mb.ca

MANITOBA FLAX GROWERS ASSOCIATION

Eric Fridfinnson, Chair	
465-167 Lombard Avenue, Winnipeg, MB R3B 0T6	204-982-3990
FAX.....	204-982-2128
E-MAIL.....	mfga@mymts.net
WEB SITE	www.mfga.ca

MANITOBA FORAGE COUNCIL / MANITOBA FORAGE & GRASSLAND ASSOCIATION

E-MAIL.....	mfc@mbforagecouncil.mb.ca
WEB SITE	www.mbforagecouncil.mb.ca/www.mfga.net
Jim Lintott, Chairman	
Box 11, Grp 2, RR 2, Dugald, MB R0E 0K0	204-444-2514
Henry Nelson, Vice Chairman	
707 Harstone Road, Winnipeg, MB R3R 1E1	204-896-3759
Lorne Rossnagel, Director	
Box 153, Plumas, MB R0J 1P0	204-386-2058
Kim Streker, Director	
Inwood, MB	204-278-3297
Fraser Stewart, Director	
Box 1, Group 310, RR 3, Selkirk, MB R1A 2A8	204-482-5547
Dave Kozlowsky, Director	
Box 1547, Killarney, MB R0K 1G0	204-523-8666
Kim Ominski, Director	
Animal Science, 66 Dafoe Rd., Winnipeg, MB R3T 2N2	204-474-9468
Ken Gross, Director	
Ducks Unlimited Unit 2, 545 Conservation Dr., Brandon, MB R7A 7L8 ..	204-729-3507
Jan Bassa, Director	
La Broquerie, MB	204-424-5288
Wian Prinsloo, Director	
Nesbitt, MB	204-824-4487
Huston Block, Director	
AAFC BRC, Box 1000A RR3, Brandon, MB R7A 5Y3.....	204-578-3602
Glenn Friesen, Forage Committee Data Contact, MAFRD	
Box 1149, Carman, MB R0G 0J0	204-745-5672
E-MAIL.....	glenn.friesen@gov.mb.ca

MANITOBA FORAGE SEED ASSOCIATION (MFSA)

Heather McBey, MFSA Administrator	
Arborg, MB	204-376-3309
E-MAIL.....	hmcbey@forageseed.net

MANITOBA FORAGE SEED ASSOCIATION (MFSA)

Kevin Gulay, MFSA Research Manager	
Arborg, MB	204-376-3314
E-MAIL.....	kmartin@forageseed.net
Marcel Gousseau, President	
Box 123, Oak Bluff MB R0G 1N0.....	204-376-5062
Danny Johnson, Vice-President	
Box 4, Group 430, RR 4 Beausejour, MB R0E 0C0	204-268-5547
David Johnson, Secretary/Treasurer	
Box 101, Domain, MB R0G 0M0	204-746-0275
Adam Gregory	
Box 18, Fisher Branch, MB R0C 0Z0.....	204-895-1357
Kylew Willis	
Box 1015, Teulon, MB R0C 3B0.....	204-461-0386
Eric Dyck	
Box 41, Springstein, MB, R0G 2N0.....	204-735-3152
Donald Hamblin	
Box 271, Morris, MB R0G 1K0	204-746-8233
Reg Schwartz	
Box 542, Ashern, MB R0C 0E0	204-768-3452
Kevin Blight	
Box 371, Oakville, MB R0H 0Y0	204-267-2046
Advisors	
David Ostermann, MAFRD Extension Apriarist	
Ag Sevices Complex, 201-545 University Cres, Winnipeg, MB R3T 5S6.....	
204-945-3861	
Kurt Shmon, Imperial Seed (1979) Ltd.	
1038 Arlington St., Winnipeg, MB R3E 2G1	204-786-8457

MANITOBA PULSE GROWERS ASSOCIATION (MPGA)

Larry Taylor, Executive Director	
Box 1760, Carman, MB R0G 0J0	204-745-6488
FAX.....	204-745-6213
E-MAIL.....	larry@manitobapulse.ca
WEB SITE	www.manitobapulse.ca
Kyle Friesen, Chair	
Altona, MB	
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Altona, MB	
Murray Chorney	
East Selkirk, MB	
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Rick Vaags	
Dugald, MB	
Frank Prince	
Deloraine, MB	
Dr. Anfu Hou, AAFC Morden Research Station	
Morden, MB	
Frank Labelle	
Carman, MB	
Yvonne Lawley	
University of Manitoba	
Dennis Lange, Farm Production Advisor - Crops, MAFRD	
Box 969, Altona MB R0G 0B0	204-324-4383
E-MAIL.....	dennis.lange@gov.mb.ca

NATIONAL SUNFLOWER ASSOCIATION OF CANADA

Darcelle Graham, Executive Director	
Box 1269, Carman, MB R0G 0J0	204-745-6776
FAX.....	204-745-6122
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Anastasia Kubinec, Sunflower Committee Data Contact, MAFRD
MAFRI, Box 1149 Carman MB, R0G 0J0 204-750-2717
FAX..... 204-745-5690
E-MAIL..... anastasia.kubinec@gov.mb.ca

PRAIRIE OAT GROWERS ASSOCIATION

Shawna Mathieson, Executive Director
Box 20106, Regina SK, S4P 4J7 306-530-8545
FAX..... 306-546-2999
E-MAIL..... smathieson@poga.ca
WEB SITE www.POGA.ca

Art Enns, President
Box 15 R.R. #2, Morris, MB R0G 1K0..... 204-746-5037
E-MAIL..... aes.enns@gmail.com

WINTER CEREALS MANITOBA INC

Jake Davidson, Executive Manager
Box 689, Minnedosa, MB R0J 1E0 204-874-2257
FAX..... 204-874-2135
E-MAIL..... jake@wcmi.info

Doug Martin, Chairman
RR 1, East Selkirk, MB R0E 0M0 204-482-8190
E-MAIL..... dlmartin@highspeed.crow.ca

Curtis Sims, Vice Chair
Box 639, McGregor, MB..... 204-685-2237
E-MAIL..... emeline@inetlink.ca

Brent Schram, Treasurer
3325 MacDonald Ave, Brandon, MB R7B 0B5 204-725-3952
FAX..... 204-725-2428
E-MAIL..... bschram987@gmail.com

Garth Butcher
Box 231, Birtle, MB R0M 0C0 204-842-3713
FAX..... 204-842-3713
E-MAIL..... gbutcher@goinet.ca

Rick Rutherford, Director
Box 100, Grosse Isle, MB R0C 1G0 204-467-5613
FAX..... 204-467-9394
E-MAIL..... ruthfarm@mts.net

REGISTERED SEED MERCHANTS

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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 0N0.....204-873-2305
Crystal City; Smith Seeds; Box 89; R0K 0N0.....204-873-2248
Darlingford; Crop Production Services Canada; Box 102; R0G 0L0.204-246-2500
Darlingford; Dudgeon's Upper Lye Seeds; Box 10; R0G 0L0.....204-246-2357
Darlingford; Wilson Seeds Ltd.; RR 1; R0G 0L0204-246-2119
Dauphin; Bonnie Banks Seed Farm; RR 4; R7N 2T7204-638-7623
Dauphin; Dauphin Plains Seed Ltd.; Box 448; R7N 2V3.....204-638-7800
Dauphin; Fisher Seeds Ltd.; RR 5 - Compartment 111; R7N 2T8...204-622-8800
Dauphin; Richardson Pioneer; Box 554; R7N 2V4.....204-622-6030
Dauphin; Ritchie Seeds; RR 4, Comp 6; R7N 2T7.....204-638-7543
Decker; Murray Farms Inc.; Box 4; R0M 0K0204-764-2733
Deloraine; Bolduc & Bell Farms; Box 482; R0M 0M0.....204-747-2913
Deloraine; Crop Production Services Canada; Box 760; R0M 0M0..204-747-2877
Domain; Manness Seeds; Box 58; R0G 0M0.....204-736-2622
Domain; Pitura Seed Service; Box 2; R0G 0M0.....204-736-2849
Domain; Shanawan Farms Ltd.; Box 1; R0G 0M0.....204-736-2951
Dufrost; Catellier Seed Service Inc.; Box 25; R0A 0K0.....204-347-5588
Dufrost; Crop Production Services Canada; Box 26; R0A 0K0.....204-347-5988
Dunrea; Crop Production Services Canada; Box 6; R0K 0S0.....204-776-2051
East Selkirk; Kuzminski Seed Farm; Box 8, Grp. 35, RR 1; R0E 0M0 204-482-5475
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 0N0.....204-759-2213
Fannystelle; Crop Production Services Canada; Box 143; R0G 0P0..204-436-2112
Fannystelle; Nadeau Seeds Inc.; Box 40; R0G 0P0204-436-2469
Fisher Branch; Crop Production Services Canada; Box 72; R0C 0Z0 204-372-6600
Fisher Branch; George & Harvey Danielak; Box 308; R0C 0Z0204-372-6236
Fisher Branch; Interlake Agri Ltd.; Box 190; R0C 0Z0204-372-6720
Fork River; Crop Production Services Canada; Box 145; R0L 0V0..204-657-2366
Forrest; Crop Production Services Canada - Brandon; Box 43; R0K 0W0.204-727-6669
Foxwarren; George Graham Seed Farms; Box 193; R0J 0R0204-847-2000
Foxwarren; Hamilton Seeds; Box 43; R0J 0R0204-683-2496
Foxwarren; West-Fox Farms; Box 97; R0J 0R0.....204-683-2247
Franklin; Crop Production Services Canada; Box 25; R0J 0S0204-476-2668
Gilbert Plains; Crop Production Services Canada; Box 667; R0L 0X0..204-548-2281
Gilbert Plains; T & S Seeds; RR 3; R0L 0X0204-548-2805
Gladstone; Crop Production Services Canada; Box 67; R0J 0T0....204-385-2349
Gladstone; Delmar Commodities; 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 0T0204-385-2906
Glenboro; Crop Production Services Canada; Box 640; R0K 0X0..204-827-2842
Glenboro; Jefferies Seeds; Box 582; R0K 0X0204-827-2102
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; Box 429; R0G 0V0204-327-5343
Griswold; Crop Production Services Canada; Box 128; R0M 0S0....204-855-2218
Grosse Isle; Crop Production Services Canada; Box 160; R0C 1G0..204-467-8026
Grosse Isle; Rutherford Farms Ltd.; Box 100; R0C 1G0.....204-467-5613

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Hamiota; Chappell Ag Ventures Inc.; Box 628; R0M 0T0.....204-764-2844
 Hamiota; Crop Production Services Canada; Box 460; R0M 0T0.....204-764-2111
 Hamiota; Knight Seeds; Box 306; R0M 0T0.....204-764-2450
 Hargrave; Crop Production Services Canada; 213 Railway Ave.; R0M 0W0.....204-748-1126
 Hazelridge; Andrew Saramaga; Box 100; ROE 0Y0204-755-2817
 Hazelridge; Robert and Andrew Saramaga; Box 100; ROE 0Y0204-755-2817
 Holland; Crop Production Services Canada; Box 9; R0G 0X0.....204-723-2423
 Holland; Marginets Farm; PO Box 45; R0G 0X0204-526-2544
 Holland; Zeghers Seed Inc.; Box 426; R0G 0X0204-526-2145
 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; R&E Stevenson; Box 206; R0M 0Z0204-838-2012
 Kenville; Carmichael Seed Farm; Box 68; R0L 0Z0204-734-3913
 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; Box 1230, Highway 18 North; R0K 1G0..204-523-8936
 Killarney; Richardson Pioneer; Box 98; R0K 1G0204-523-7035
 Killarney; Shur-Gro Farm Services Ltd.; Box 1139; R0K 1G0.....204-523-5400
 La Salle; Wiens Bros.; 81 Kingswood Drive; R0G 0A1204-736-4204
 Landmark; Gehrer Farms; Box 3, RR 1; R0A 0X0204-355-7588
 Landmark; Richardson Pioneer; Box 70-231 Main Street; R0A 0X0 204-355-4061
 Landmark; Willow Ridge Seed Farm; Box 63, RR 1; R0A 0X0204-388-4877
 Laurier; LaurEx Seeds Ltd.; Box 55; R0J 1A0.....204-447-2622
 Letellier; BBF Enterprises Ltd.; Box 327; R0F 1C0.....204-737-2605
 Letellier; Seed-Ex Inc.; Box 238; R0G 1C0204-737-2000
 Lowe Farm; Crop Production Services Canada - Kane; Box 10, RR 1; R0G 1E0
204-343-2136
 Lowe Farm; Pedigreed by Penner; RR 1, Box 19; R0G 1E0.....204-829-3556
 MacGregor; Hulme Agra Products Inc.; Box 68; R0H 0R0204-685-2627
 Manitou; Sanders Seed Farm; Box 700; R0G 1G0204-242-2576
 Marquette; Ag Advantage Ltd.; Box 5, Grp 40; R0H 0V0.....204-322-5351
 Marquette; Paul Friesen; Box 16, Group 40; R0H 0V0204-322-5773
 Mather; Harms Seeds Ltd.; Box 38, 2nd Street; R0K 1L0204-529-2213
 Mather; McLennan Farms Ltd.; Box 67; R0K 1L0204-529-2372
 McCreary; Musgrave Enterprises Ltd.; Box 369; R0J 1B0204-835-2527
 Melita; Cargill Ag Horizons - Elva; Box 148; R0M 1L0204-522-3221
 Melita; Paterson Grain; Box 698; R0M 1L0204-522-3472
 Miami; Crop Production Services Canada; Box 176; R0G 1H0204-435-2223
 Minotia; Walker's Seed Service; Box 144; R0M 1M0204-567-3647
 Minitonas; Crop Production Services Canada; Box 85; R0L 1G0....204-525-2090
 Minnedosa; Cordova Seeds; RR 2; R0J 1E0204-867-2546
 Minnedosa; Gugin Seeds; Box 789; R0J 2E0204-867-3411
 Minto; Fraser Seeds Ltd.; Box 85; R0K 1M0204-776-2047
 Minto; Southern Seed; Box 203; R0K 1M0204-776-2333
 Morden; Legumex Walker Canada Inc.; 301 South Railway; R6M 1G7 204-822-6629
 Morden; Legumex Walker Canada Inc.-Elias Site; SW-22-4-5; R6M 1V9..204-829-6629
 Morden; Philip and Norman Hildebrand; Box 276, RR 2; R6M 2A1..204-362-0322
 Morris; Horizon Agro; Box 59, RR 1; R0G 1K0204-746-2026
 Morris; Red River Seeds Ltd.; River Lot 346; R0G 1K0.....204-712-6170
 Neepawa; Northstar Seed Ltd.; Box 2220, 534 Brown Ave.; R0J 1H0 ..204-476-5241
 Newdale; Warehamdale Seeds Ltd.; Box 56; R0J 1J0.....204-849-2029
 Niverville; Paterson Grain; Box 356; R0A 1E0204-388-6565
 Niverville; Prairie Sky Crop Solutions; Box 309; R0A 1E0204-388-4303
 Notre Dame De Lourde; Durand Seeds Inc.; Box 60; R0G 1M0.....204-248-2268
 Oak Bluff; Anseeuw Farms Inc.; 53092 Road 7E; R4G 0B6204-895-8375
 Oak Bluff; Derek Erb Seeds Inc.; Box 272; R0G 1N0204-830-7553
 Oak Bluff; Terraco; Box 171; R0G 1N0.....204-261-0731
 Oak Lake; Gerlyn Acres Ltd.; Box 329; R0M 1P0204-855-3128
 Oak River; Henry, J.S. & Son Ltd.; Box 67; R0K 1T0204-566-2422
 Oakville; Miller Agritec Inc.; Box 83; R0H 0Y0204-267-2283
 Petersfield; Crop Production Services Canada; Box 340; R0C 2L0..204-738-2455
 Pilot Mound; Cavers Farms Inc.; Box 90; R0G 1P0204-825-2012
 Pilot Mound; Crop Production Services Canada; Box 419; R0G 1P0.204-873-2059
 Pilot Mound; John M. Smith; Box 208; R0G 1P0.....204-825-2715
 Pilot Mound; Wallace Seeds; RR 3; R0G 1P0.....204-873-2655
 Plum Coulee; Crop Production Services Canada; 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 1R0204-829-7749
 Plumas; Court Seeds and Greenhouses; Box 280; R0J 1P0.....204-386-2354
 Plumas; Nu Era Seeds Ltd.; Box 127; R0J 1P0204-476-0631
 Plumas; Tonn Seeds; Box 5; R0J 1P0.....204-386-2206
 Portage La Prairie; Best Cooking Pulses, Inc.; 124-10th St NE; R1N 1B5.204-857-4451
 Portage La Prairie; Jamor Farms Ltd.; RR 1, Box 47; R1N 3A1204-857-8274
 Portage La Prairie; JL Agronomics; 524 6th Avenue NW; R1N 3C9.204-871-0767

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Portage La Prairie; Lake Manitoba Seed Co. Ltd.; RR 1, Box 64; R1N 3A1..204-857-8708
 Portage La Prairie; McCallister Farms Ltd.; RR 1, Box 68; R1N 3A1..204-857-8444
 Portage La Prairie; New Gen Seed Service Ltd.; RR 4, Box 9; R1N 3A4204-274-2417
 Portage La Prairie; Prairie Flax Products; Box 1057; R1N 3C5.....204-252-2940
 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; Box 28; R0G 1S0204-749-2213
 Reston; Avondale Seed Farm Ltd.; Box 190; R0M 1X0204-877-3813
 Reston; Crop Production Services Canada; Box 416; R0M 1X0204-877-3128
 Rivers; Accu-Test Seed Laboratory; Box 579, 2nd Ave. E; R0K 1X0 ..204-328-5313
 Rivers; Providence Farms; Box 424; R0K 1X0204-328-7189
 Rivers; Redspur Enterprises Ltd.; Box 579; R0K 1X0204-328-5346
 Roblin; G M Seed Cleaning; RR 1; R0L 1P0.....204-937-2739
 Roblin; Parkway Consumers Co-operatives Limited; Box 1270; 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; Keating Seed Farms Inc.; Box 820; R0J 1W0204-773-3854
 Russell; Woroneski's Seed Plant; Box 1328; R0J 1W0204-773-3262
 Sanford; Bergen Seed Farm; Box 205; R0G 2J0204-736-2278
 Shoal Lake; Richardson Pioneer; Box 446; R0J 1Z0204-759-2917
 Snowflake; Double Diamond Farm Supply; Box 74; R0G 2K0204-876-4557
 Solsgirth; Nickel Bros.; Box 52; R0J 2B0204-842-3834
 Somerset; Sierens Seed Service; Box 35; R0G 2L0.....204-744-2883
 Somerset; Van Deynze Farms Ltd.; Box 95; R0G 2L0204-825-7431
 Souris; Crop Production Services Canada; Box 669; R0K 2C0.....204-483-3860
 Souris; Kohut Seed Farms Ltd.; Box 98; R0K 2C0.....204-483-3063
 Springstein; Wiebe Seeds; Box 82; R0G 2N0204-735-2750
 St. Claude; R-Way Ag Ltd.; Box 388; R0G 1Z0204-379-2582
 St. Jean Baptiste; Crop Production Services Canada; Box 369; R0G 2B0 204-758-3125
 St. Joseph; Remillard Seed Farm; Box 45; R0G 2C0.....204-737-2376
 St. Joseph; Saskcan Pulse Trading; P.O. Box 36; R0G 2C0.....204-737-2625
 St. Leon; Labossiere, Luc N.; C.P. 5106; R0G 2E0204-744-2208
 Starbuck; Crop Production Services Canada; Box 179; R0G 2P0...204-735-2258
 Ste. Agathe; Crop Production Services Canada; 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
 Ste. Rose Du Lac; S & L Luke Farms Ltd.; Box 426; R0L 1S0204-447-2547
 Steinbach; Marc Hutlet Seeds Ltd.; Box 3023; R5G 1P4.....204-422-5805
 Steinbach; South East Seeds; Box 40005; R5G 0N8.....204-371-2898
 Stonewall; Quarry Grain Commodities Inc.; Box 1840; R0C 2Z0....204-467-8877
 Stonewall; Unger Seed Farm Ltd.; Box 471; R0C 2Z0204-467-8630
 Strathclair; Parrish & Heimbecker - Glossop; Box 426; R0J 2C0....204-365-5282
 Swan River; Oberlin Farms & Seed Service Inc.; Box 132; R0L 1Z0..204-734-2292
 Swan River; Swan Valley Seeds; Box 2256; R0L 1Z0204-734-2526
 Teulon; Kletke Seed Farm Ltd.; Box 23; R0C 3B0204-886-2822
 Teulon; Paterson Grain; Box 865; R0C 1H0204-886-3401
 Teulon; Willis Agro Ltd.; Box 1015; R0C 3B0204-461-0386
 Treherne; Stinson Seeds; Box 1; R0G 2V0204-723-2319
 Virden; Clearview Acres Ltd.; Box 1060; R0M 2C0.....204-748-2666
 Warren; Jones Farm Seeds; Box 37; R0C 3E0204-322-5604
 Warren; Riddell Seed Co.; Box 334; R0C 3E0204-227-5679
 Waskada; Shur-Gro Farm Services Ltd.; Box 159; R0M 2E0204-673-2445
 Wawanesa; Ellis Farm Supplies Ltd.; Box 208; R0K 2G0204-824-2290
 Westbourne; Munro Farm Supplies Ltd.; Box 92; R0H 1P0204-274-3050
 Westbourne; Richardson Pioneer - Dundonald; Box 114; R0H 1P0.204-274-2301
 Whitemouth; Oldenburg Inc.; Box 147; R0E 2G0.....204-348-2294
 Winkler; Crop Production Services Canada; RR 1 Box 72; R6W 4A1 ..204-325-6498
 Winkler; Delmar Commodities Ltd.; Box 1055; R6W 4B1204-343-2323
 Winkler; Ens Farms Ltd.; Box 218, RR 1, Group 16; R6W 4A1204-325-4658
 Winkler; Winkler Co-op; Box 1120; R6W 4B2204-327-6424
 Winnipeg; Botanical Paperworks Inc.; 111 Pacific Ave.; R3B 0M1 ...204-956-7393
 Winnipeg; BrettYoung; 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 1L5.204-261-1178
 Winnipeg; Imperial Seed (1979) Ltd.; 1038 Arlington Street; R3E 2G1.204-786-8457
 Winnipeg; Integrity Seed Lab Ltd.; 1038 Arlington Street; R3E 2G1 204-774-1882
 Winnipeg; James Farms Ltd.; Box 16, Group 620, SS 6; R2C 2Z3..204-222-8785
 Winnipeg; Monsanto Canada Inc.; 900 One Research Road; R3T 6E3204-985-1037
 Winnipeg; Parrish & Heimbecker - Transcona; Box 199 B, RR 5; R2C 2Z2..204-222-7171
 Winnipeg; PickSeed Canada Inc.; Box 4, Group 200, RR 1; R3C 2E6.204-633-0088

ACCREDITED PRIVATE SEED LABS

Lab Name and Address	Contact	Scope of CFIA Accreditation		Other Services (not accredited by CFIA)
		Purity & Germination	Disease	
Manitoba				
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@redspca.ca	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	Pulses: Anthracnose, Botrytis Vomitoxin, Ascochyta spp.
BioVision Seed Lab (Winnipeg) B17-1391 St.James Street. Winnipeg, Manitoba R3H 0Z1	Patrick Greer 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
Integrity Seed Lab Ltd. 1038 Arlington Street Winnipeg, Manitoba R3E 2G1	Glen Green Tel: (204) 774-1882 Fax: (204) 774-1881 info@integrityseedlab.com	Crop kinds in Tables I to XI (except orchardgrass), XIII to XX	None	Herbicide tolerance testing in RR Canola; LL Canola; 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, Botrytis, Sclerotinia Canola: Blackleg, Alternaria, Sclerotinia
Discovery Seed Lab 450 Melville St. Saskatoon, Saskatchewan S7J 4M2	Shirley Baraniski Tel: (306) 249-4484 Fax: (306) 249-4434 sbaraniski@seedtesting.com	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 Hodsmen 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 pds@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 seedssolutions@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 7225 B Roper Road Edmonton, Alberta T6B 3J4	Terry McIntee Tel: (780) 436-8822 Fax: (780) 437-6875 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 Praire, 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, August 27, 2013

At Your Service



Dorothy Gerrard Krista Greenaius-Erickson
dgerrard@redspca.ca kerickson@redspca.ca
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