

2014 Guide **SaskSeed**

Saskatchewan Seed Growers Association



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President's Message

Producers today carry on their business in an age when information on current trends and developments affecting agriculture is of utmost importance.

The Saskatchewan Seed Growers Association is pleased to present the 2014 issue of SaskSeed. This annual publication has been in continuous print

since 1982. We hope you find the articles interesting and informative.

However, the publication contains much more than articles. The centre section carries the most current variety comparison data for Saskatchewan. The regional testing of crop varieties, conducted under the oversight of the Saskatchewan Variety Performance Group, provides producers with third party independent evaluation of suitable varieties for different areas.

A recent thesis submitted to the University of Saskatchewan found that this type of variety testing generates a \$63 return for each \$1 invested. The trials are funded through contributions from the Saskatchewan Ministry of Agriculture and Saskatchewan Seed Growers Association, together with fees paid by variety rights holders to enter their varieties. When combined with even more localized information that producers can get from nearby seed growers, they can pick varieties that should perform satisfactorily on their farms.

Genetic improvements for disease and pest resistance, maturity, lodging resistance and end use qualities take time and major investment to develop. As the federal government withdraws from this type of research, the provincial government becomes more and more important. Producers wishing to have some control over new crop traits and the way they access those improvements will also need to make larger contributions. One way they can do so is through the purchase of certified seed.

A portion of the seed purchase price goes back to plant breeding institutions for further development of varieties that will help to maintain competitiveness in the world marketplace.

Transferring genetic improvements from the plant breeder to the commercial producer, in his area, under "real world" production practices, is the role of the pedigreed seed grower.

Saskatchewan seed growers are proud of the contributions they have made to the successes of agriculture in Saskatchewan. Lists of pedigreed seed growers are provided in this publication to assist in finding someone in your area that can help with your variety selection. In many cases before a variety listed is available, pedigreed seed growers have been assuming the risks and costs of multiplying seed and assessing its suitability for a number of years.

We encourage you to take advantage of the experience that pedigreed seed growers have with varieties in your area. Purchasing certified seed on a regular basis is one of the best ways that producers can assure themselves that the genetics they have chosen will perform as intended.

The Saskatchewan Seed Growers Association wishes you all the best for success in 2014.

*Laurie Wakefield, President
Saskatchewan Seed Growers Association*

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**Varieties of Grain Crops
2014 24-page pullout
included with this guide**



On the cover...

Research in cereals is a recurring theme in the 2014 Sask Seed Guide. With producers paying more, government paying less and private sector investors likely to play an increasingly important role, how will the products of research and varietal development programs be shared among the various stakeholders?

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It's in the bin, now let's chat

Seed growers across Saskatchewan offer their views



After a late start to seeding and an unusually cool summer, commercial producers and seed growers throughout Saskatchewan and across Western Canada harvested a bumper crop in 2013. Yields and quality varied from region to region, but generally speaking, production exceeded expectations. | FILE PHOTO

OVERALL, 2013 was a very good year for seed growers.

By Shirley Byers
Freelance writer

But Saskatchewan is a big province.

And some seed growers were more fortunate than others.

Four pedigreed seed growers polled near the end of November reported four different experiences.

"The best crop ever," said Dale Wylie at Biggar, Sask.

"From a seeding point of view and from a management of crop point of view it was a little bit challenging," said Graham Sorgard at Churchbridge, Sask.

"Excellent," said Bill Latrace at Caronport, Sask.

"Really, this year, we didn't have anything we could really brag about," said Blair Rempel at Nipawin, Sask.

"Canola and peas yielded less than average while cereals were around average."

In 2013, Mother Nature offered up a mixed bag of tricks and treats.

What growers got depended on where their fields were located.

In the Nipawin area, June rains piled onto two years' worth of excess soil moisture.

The result was saturated fields and reduced canola and pea yields.

Just a few miles south, towards Tisdale,

Sask., rain was more moderate and yields were higher.

Rempel wasn't the only one who faced weather challenges.

A foot and a half of snow fell April 30 at Sorgard's farm near Churchbridge and held up seeding until May 15.

A cool summer generated a few sleepless nights but in the end, the hard frosts stayed away 'til harvest was completed.

Further south, around Caronport, moisture prospects looked poor in the spring.

"When I seeded it was too dry," said Latrace.

"Then thankfully, about two weeks in, it started raining and it rained all summer."

Latrace said his lentils were flooded at least twice but his canola, flax and barley flourished under the abundant rains.

In most areas, pest problems were not as bad as they were in 2012.

None of the growers polled were bothered with midge, grasshoppers or any other unwanted insects.

Sorgard reported fusarium levels at around two per cent, but he reckons they'll be even lower once the seed is cleaned.

The cool weather was beneficial in limiting fusarium damage, he said.

Lower temperatures during the summer also kept disease pressure to a minimum on Rempel's farm in the northeast.

"We spent quite a bit of money on fungicides this year. Looking back, we would have been better off without fungicides on the canola, but I think we got reasonably good value from our applications on the cereals," he said.

Latrace's red lentil yields were down. He suspects they were affected by sclerotinia.

Wylie said there was very little disease pressure in the west central region.

Wheat demand changing?

According to Wylie, demand for higher yielding CPS (Canada Prairie Spring) red wheats was up in the Biggar area, as was demand for new varieties of general purpose wheat.

"I think we're definitely seeing a move to CPS and general purpose wheats away from the conventional hard reds," said Sorgard.

"With possibly more calls on CPS than on general purpose wheat."

Rempel also predicted a continuing trend to the higher yielding CPS varieties.

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"In the past it was always better to grow hard red spring wheat because it was higher value and the Canadian Wheat Board pooling would give you a piece of the premium prices that were out there for hard red spring wheat," he said.

"But now that the marketing system has changed, you're getting signals that markets are asking for higher volumes of perhaps lower quality wheat.

"But the problem today is that we don't have much in the way of CPS wheat varieties that give a real yield advantage over the hard red spring varieties. On the other hand, we've got some real good midge tolerant hard red spring varieties with yields that rival the CPS wheat.

"Also, CPS wheat, in the past at least, has been a lot more vulnerable to leaf and stem diseases that the hard red spring seems to be better able to cope with," he added.

"As it stands today as a farmer, I would probably still prefer to go with the high yielding hard red spring wheats (CWRS) rather than the CPS wheats that are out there just because you're not going to put more dollars in your jeans by growing a CPS. But I think that could change."

Near Churchbridge, Sorgard has noticed an increased interest in soybeans.

"It's not like a tidal wave but we're getting more calls all the time," he said.

"We had a half section ourselves and the yield was about 30 bushels per acre so we'll certainly grow them again next year.

"We're getting calls from north of us on them so it's more of a shift that will take several years to come to fruition."

At Latrace's seed farm, barley was in high demand.

"I've never been able to grow enough barley," he said.

Requests for Sundre barley are very high among local dairy farmers who grow it for silage. The variety is noted for its foliage with leaves as wide as a loonie.

"We're cleaning barley right now and it will probably all sell," Latrace said in late November.

"I don't grow wheat or durum any more. I quit about 15 years ago when fusarium started. I couldn't keep up with the barley so I started growing more and more barley."

And what else will be in high demand for 2014 planting?

That's the million dollar question that every seed grower would like to answer.

"If I could answer that accurately I'd be wise," said Latrace.

For Wylie and other farmers in the Biggar area, there are a couple of things to keep an eye on in 2014: moisture and prices.

"Looks like we might be heading into a

little bit lower prices and looks like we're a little bit dryer out here. Those are the two things that come to mind right off the top," he said.

That said, the Biggar area got some snow in late 2013 and the area also had some rain before freeze up.

In the Nipawin area, growers probably wouldn't mind if conditions were a little bit dryer.

Rempel also noted that prices were softening in the latter half of 2013, but he thinks that might change.

"I've seen signs that maybe we've seen a low this fall but that all depends. I'm not going to say for sure that's how it will unfold but I'm optimistic going forward that we'll see some better prices down the road," he said.

For Sorgard, things look good heading into 2014.

"We're certainly optimistic," he said.

"The farm sector in general is optimistic. There's a lot of interest in seed. . . a lot of people have come through some tough years and there's a lot of optimism across the board."

"I'm 34, and I'm seeing more people my age at farm meetings. Seems like there's a lot of younger people coming back to the farm. It's a great time to be in agriculture. I love the seed business but it's beyond that. It's a great time to be a farmer." ♦



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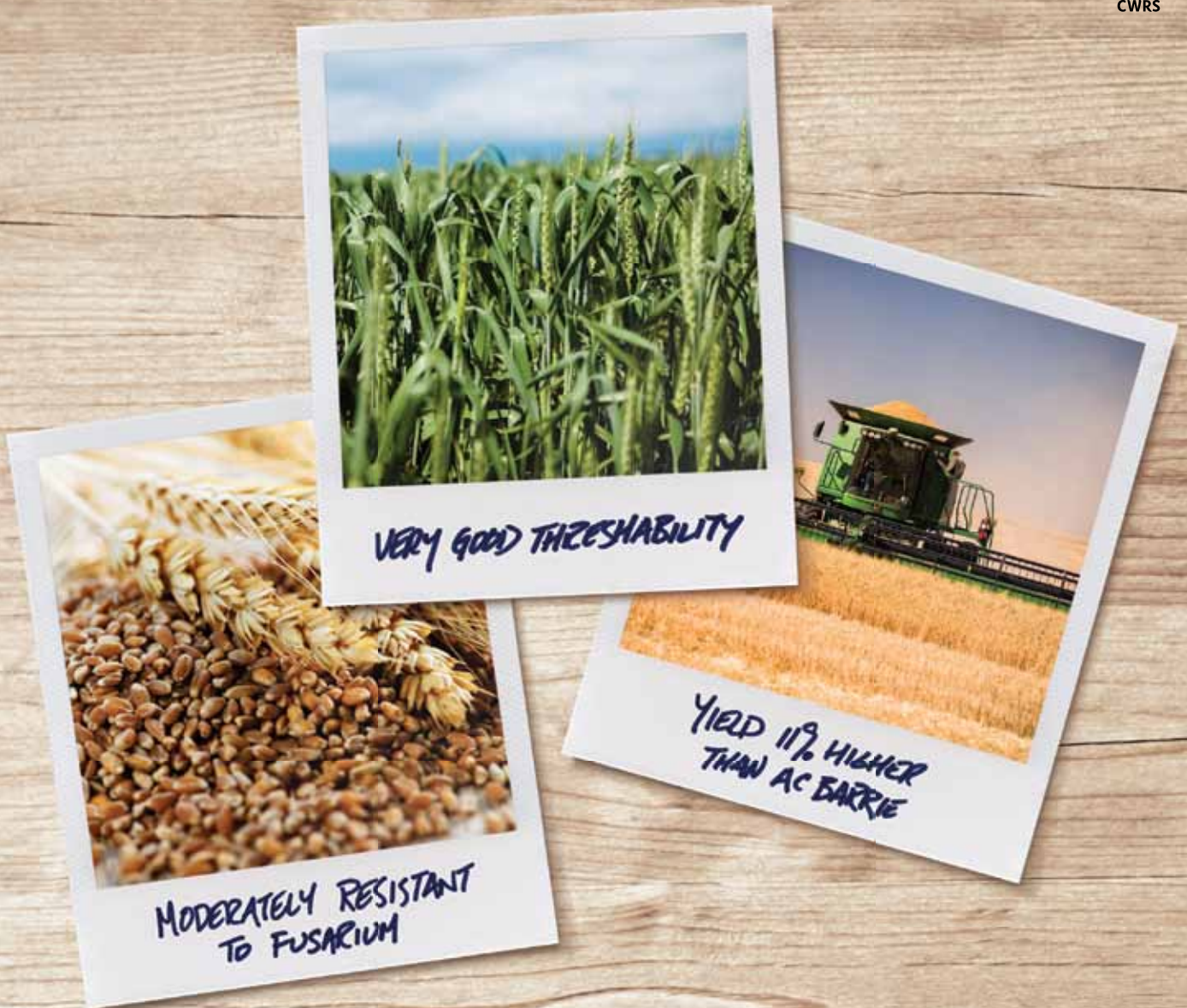
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Ottawa signals big changes to PBR legislation

Adoption of UPOV 91 expected by 2014-15 crop year

THE FEDERAL government wants to pass legislation that will bring Canada's plant breeders' rights (PBR) legislation in line with PBR protections that exist in almost every other modern industrialized nation.

Prepared for Sask
Seed Guide

Federal agriculture minister Gerry Ritz announced last month that a new bill — The Agricultural Growth Act — will be introduced “to help stimulate investment in Canada's agricultural industry and to deliver new tools and services to Canadian growers.”

Central to the bill are proposed amendments to the Plant Breeders' Rights Act that would align Canada's PBR laws with the International Union for the Protection of New Varieties of Plants, or UPOV 91.

Under UPOV 91 standards, farmers would retain the right to plant farm-saved seed.

But seed companies that develop PBR protected seed varieties would be permitted to collect royalties at any stage of production.

For farmers who plant farm-saved seed, that could clear the way for the collection of seed company royalties on harvested grain.

In a December news release, Ottawa said amended PBR legislation that conforms with UPOV 91 will “increase producer access to new varieties, create new trade opportunities, contribute to the safety of agricultural products and reduce red tape in terms of regulations.”

The proposed amendments will strengthen intellectual property rights for plant breeding in Canada and facilitate more investment in Canadian seed research and development, Ritz added.

“The hope is to have UPOV '91 adopted by Canada by the new crop year, Aug. 1, 2014,” said Ritz.

“We need to bring legislation in line with the needs of today, and we are committed to making this happen.”

Some members of the Canadian seed trade have been promoting the adoption of UPOV 91 standards for some time.

Industry stakeholders, including some members of the Canadian Seed Trade association, say Canada must update its intellectual property laws and provide



Seed companies involved in developing and commercializing new crop varieties say new royalty collection mechanisms are needed to encourage investment and ensure that Canadian farmers have access to improved crop varieties. | FILE PHOTO

seed companies with more opportunities to collect revenues from innovative seed products.

Proponents say UPOV 91 will encourage investment by seed companies, support the development of new varieties, and give Canadian farmers access to better seeds with higher yield potential and improved agronomic performance.

UPOV 91 standards would also extend control over PBR protected seed varieties to 20 years from 18 currently and expand breeders' rights to include control over a wider range of activities.

For instance, seed companies that acquire PBR protection on new seed varieties would have exclusive control over cleaning, conditioning and storing of PBR protected seed.

Current regulations allow seed companies to exercise control only over the production, reproduction and sale of PBR protected varieties.

Perhaps the most controversial element of UPOV 91, is a provision that would — at least in some cases — allow seed companies to collect royalties on harvested grain.

Under UPOV 91 standards, companies that do not have an opportunity to collect royalties on PBR protected seed would be permitted to

collect royalties on harvested grain.

In other words, farmers would retain the right to use farm saved seed, but they would not necessarily be allowed to use it royalty free.

Response to those provisions has been mixed.

In a November news release, National Farmers Union president Terry Boehm said adopting UPOV 91 standards will severely restrict farmers' ability to save and reuse seed.

“Farmers should be very aware that this regime will allow breeders to collect royalties on the entire crop — not just on the seed as allowed under our current Plant Breeders' Rights legislation,” said Boehm.

Other organizations, including the Alberta Wheat Commission (AWC) and the Western Canadian Wheat Growers Association issued statements supporting the adoption of UPOV 91 and the modernization of Plant Breeders' Rights (PBR) legislation in Canada.

“AWC believes that these amendments announced by (Agriculture Canada) as part of the Agricultural Growth Act will encourage more investments in domestic plant breeding research and provide Canada with access to continually improved varieties,” said AWC chair Kent Erickson.

CONTINUED ON PAGE 18

Cultivating Growth

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“It is important that Canada remains aligned with international standards to ensure that we are globally competitive.”

Last year, AWC provided Agriculture Canada with a letter of support for the modernization of PBR in Canada, provided that the following conditions were met:

- the ability to use farm-saved seed must be a part of any changes related to the ratification of UPOV 91;
- the current level of federal government funding for pre-breeding genetic research must be maintained, and;
- there is recognition and accommodation for a farmer-public equity stake in Canada’s proprietary cereal germplasm, which has been developed over the past 100 years and funded by producer and tax payers dollars.

“AWC appreciates that the government has made it a priority to work to modify legislation to comply with UPOV 91, and we look forward to working with (Agriculture Canada) to improve Alberta’s wheat producers’ international competitiveness through access to innovative traits and varieties,” Erickson said.

The Western Canadian Wheat Growers Association also announced its support for the adoption of UPOV 91 and changes to PBR legislation.

“Ratifying the 1991 (UPOV) convention will help us attract more investment in plant breeding,” said Levi Wood, president of the WCWGA.

“It will encourage more breeders to develop new varieties of wheat and other crops specifically designed for the Canadian market.”

Right now, Canada is among a small group of industrialized countries that has not adopted UPOV 91 regulations. Others in that group include New Zealand and South Africa.

Canada signaled in 1992 that it intended to ratify UPOV 91 regulations and bring Canadian PBR legislation in line with the new standards.

But so far, that has not happened.

In many countries, end point royalties — or royalties on harvested grain — are already an established method of collecting PBR revenues.

In Australia, end point royalties or EPRs have been in place for several years.

Royalties there vary from crop to crop and variety to variety but in most cases, they range from a low of \$1 or \$2 a tonne to a high of \$4 per tonne.

The Western Barley Growers Association (WBGA) is also in favour of updated PBR laws.

“We have been told by private plant breeders that they are not interested in risking the millions of dollars it costs to bring a variety to market in Canada without a more modern legal framework in Plant Breeders’ Rights,” said WBGA president Doug Robertson.

“The changes ... will allow the adoption of UPOV’91 and bring Canada in step with the rest of the world...”, added WBGA vice-president Martin Hall.

“We applaud the federal government for their vision and drive to create a modern grain industry in Canada.”

Ritz suggested that Canada has an opportunity to update its regulations and bring them in line with those that exist in other grain exporting countries.

Alternately, Canada could maintain the status quo and live the consequences.

“Canada’s not an island,” he said.

“We’re not in isolation. If we don’t continue to upgrade our regulations, then we stand the very real risk of being left behind.” ♦

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Updating Canada's Plant Breeders' Rights

An improved framework for investment in plant breeding

THE CANADIAN government has announced its intention to upgrade Canada's Plant Breeders' Rights legislation as part of its innovation agenda.

Guest Column
By Lorne Hadley
Executive Director
Canadian Plant Technology
Association

This upgrade will bring Canada's legislation in line with the international standard of UPOV 91.

UPOV is the International Convention for the Protection of New Varieties of Plants.

Canada's current Plant Breeders' Rights Act is based on the UPOV convention of 1978.

Its implementation in 1990 stimulated Canadian investment in plant breeding, provided Canadian producers better access to varieties developed outside of our borders and helped to protect Canadian varieties in other countries.

A new UPOV convention was developed in 1991 which Canada has yet to adopt.

The question for many producers is why should Canada adopt the 1991 convention? What is the benefit for me?

The answer is both simple and complex.

The simple answer is that upgraded Plant Breeders' Rights legislation will encourage domestic investment and contribute to the development of more productive varieties.

It will also make Canada more attractive to international investors and developers of improved seed varieties. Producers will benefit from using these more productive varieties.

The complex part of the answer is assuring the investment in plant breeding is increased.

Public and private reviews have shown that the majority of the investment in plant breeding done for the Canadian market is in three crops: corn, canola and soybeans.

These crops have the highest use of pedigreed seed and therefore, the developers are rewarded by seed sales.

The more productive a variety is, the

greater the returns to seed developers through increasing seed sales of that variety.

Plant breeders are like producers. When they are rewarded for success, they strive to repeat that success.

Because 100 percent of the acres in corn, canola and soybeans provide a return to plant breeders, there has been increased investment and continued introduction of more productive varieties.

The situation is not the same for cereals like wheat, barley, oats and rye.

Surveys indicate that 20 to 40 percent of the cereal crops in Canada are planted with pedigreed seed, depending on crop and year, while the remainder of seed used for planting is farm saved.

In other words, 60 to 80 percent of the acres planted to a successful productive wheat variety are planted with farm saved seed which returns no reward to the breeder.

The result is that the annual amount of plant breeding per planted acre for wheat estimated to be \$1.21. This compares with an annual investment of \$3.24 per acre of canola.

The international standard for Plant Breeders' Rights legislation is UPOV 91.

Plant Variety Protection under the 1991 convention is the predominant tool used by most of the developed world to ensure that plant breeders are rewarded for their work.

In Canada, Plant Breeders' Rights are an optional statutory right where the developers of qualifying varieties are rewarded when those varieties are used.

Amending our legislation to conform to the 1991 UPOV Convention will help to ensure that the reward is more in line with the investment made by plant breeders.

The most basic changes to bring Canadian PBR law to the international standards are as follows:

- Protection begins at the time of application.
- All activities involved in production, preparation, use and sale of

seed must be authorized by the breeder.

- The length of PBR protection is extended to 20 years for the crop species.
- An optional "farmers's exception" allows farmers to save the production from protected varieties to plant on their own farms.
- UPOV 91 includes a "harvested material" provision which extends PBR protection to crops grown with "brown bag" seed.
- It also introduces the concept of "essentially derived."

The net result of these changes is the potential for breeders to be rewarded every time their inventions are used.

Regardless of the crop, those who choose to use varieties that qualify for Plant Breeders' Right under the new legislation will compensate the breeder for his work.

Today Canada is one of a handful of developed countries that do not operate under UPOV 91.

The majority of the world's plant breeders, including those operating in countries with whom Canada is negotiating trade agreements, already have these rights.

Canada's grain producers compete in a worldwide market.

To remain competitive, producers need world-class varieties, particularly in cereals.

This will only happen if plant breeders are rewarded for developing these varieties. UPOV 91 provides that framework. ♦

The article above was submitted by the Canadian Plant Technology Agency. Opinions expressed in the article do not necessarily represent the views of the Saskatchewan Seed Growers Association or its members. CPTA will promote an environment within Canada where a robust and globally competitive framework of intellectual property protection is valued and respected. This will encourage continued research investment and sustainable innovation, benefiting Canadian farmers, consumers and the plant science industry.



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Sharing the spoils of public-private partnerships

Investments by private sector companies are becoming more common at CDC

THERE'S BEEN a lot of talk Prepared for Sask
in the past few years Seed Guide
about public-private
partnerships in plant breeding.

The term 3P partnership — denoting a funding model that involves investments by producers, private sector companies and public sources (government) — is an acronym known to most plant breeders.

What isn't always known is how the 3Ps in a 3P partnership will share the spoils of their investments.

Kofi Agblor, managing director of the Crop Development Centre at the University of Saskatchewan, is aware of the sensitivities that can arise when public institutions partner with private sector companies.

With 3P partnerships, the lines that differentiate publicly funded plant breeding institutions from private sector plant breeders are becoming harder to define.

But Agblor insists that the new 3P funding model — combining money from producers, government and life science companies — is one that can work for western Canadian farmers.

The Crop Development Centre, or CDC, is one of Canada's most prolific plant breeding institutions.

Since its establishment in the early 1970s, it has produced and commercialized more than 400 new varieties of agricultural crops, including popular new varieties of wheat, barley, flax, peas, chickpeas, lentils and oats.

Private-sector funding is not a new concept at the CDC.

Corporate money has been supporting the CDC's plant breeding programs for decades.

But for the past 40 years or so, the vast majority of the CDC's funding has come from other sources: namely producer checkoffs, seed royalties and government contributions.

That is changing, says Agblor.

As plant breeding methods become more complex and the demand for new varieties increases, the need for new revenue sources is becoming more evident.

Like it or not, the private sector will play a larger role.



Research partnerships — involving public, private and producer funding — will become more common. In the case of variety development, who claims ownership of the new varieties that are commercialized? | FILE PHOTO

"I think we've had a great year (at the CDC) especially with respect to wheat ... and our success in developing partnerships with the private sector," says Agblor.

"Since January ... we've signed new (wheat breeding) agreements worth \$10.6 million, of which \$8.6 million is from the private sector."

"I think this talks about the confidence that the ... broader industry has in our (CDC) plant breeders."

Agblor is excited about the CDC's evolving role in the new plant breeding environment.

The CDC has experience working with prominent private sector partners including Quaker/PepsiCo (oats), BASF (wheat and lentils), Viterro (wheat), SeCan (general purpose wheat, flax and barley) and FP Genetics (oats). The centre is a well-established institution with world-class facilities and a track-record in varietal development that is second to none.

And with anticipated changes to

Agriculture Canada's plant breeding programs, it seems clear that the CDC will become a more prominent player in future.

But with more corporate funding, there are new challenges.

For example, how does a publicly funded institution like the CDC maintain its obligations to producers and public funding partners when an increasing proportion of its funding is coming from private sector life science companies such as Dow, Bayer, BASF, Monsanto and Syngenta?

Agblor concedes it's a delicate balancing act.

"Certainly we need more capacity on the breeding side," Agblor said.

"The question is, how many (CDC) varieties ... do you want to put a lien on?"

In the past year, Agblor and the CDC have been negotiating deals with some heavy hitters.

So far, agreements for wheat research have been reached with Bayer Crop Science, Dow AgroSciences (DAS) and FP Genetics.

The projects with Bayer and DAS are jointly funded with the Saskatchewan Ministry of Agriculture's Agricultural Development Fund (ADF) for a total of \$4.1 million over five years.

The project with Bayer is looking at integrating fungicide strategies and genetic resistance to control stripe rust in wheat.

The expected deliverables are wheat varieties that are more resistant to stripe rust and fungicide strategies for more effective control of stripe rust.

The project with DAS is targeting improved agronomic performance of wheat varieties in addition to other outputs that are confidential.

Funding from FP Genetics is for \$1.5 million over 10 years and targets the development of high yielding CPS varieties with improved agronomic performance, resistance to major diseases and pests, and enhanced for milling and baking properties.

A fourth agreement with an unnamed corporate partner is expected to be announced in late 2013.

And while private funding will augment CDC's ability to develop new products, a critical consideration is how those new products will be commercialized and who will have an opportunity to market them.

Funding agreements with private sector partners can take many forms, says Agblor.

In most cases, companies are granted option rights on a proportion of the varieties released within a specified timeframe.

In some cases, a private sector investor will negotiate exclusive marketing rights on new varieties that they helped to produce. In other cases, private sector partners pay for the rights to use germplasm arising from the project.

Every deal is different, but in each case, the CDC aims to satisfy both its private sector partner and its public sector contributors, namely governments, taxpayers and farmers who pay producer levies.

"We are still a public institution and we do still get some of our funding through the Western Grains Research Foundation so there is always going to be this sensitivity that if you tag (or put a lien on) too many of your varieties that are no longer ... available for other companies to bid on, you may lose that (reputation) of being a public institution."

"It's a competitive environment and it's a good thing to see a company investing ... but we are mindful of the perception that we might go too far onto the private side."

Agblor believes a 3P funding model can serve all stakeholders in the value chain.

The key, he says, is to listen to feedback from all corners and to produce results that deliver value across the industry.

"As long as what we do is benefitting the public ... that is, the results go out and the benefits accrue to the public as well as the private sector, then (we support that) as a model."

Agblor said CDC will continue to work closely with producer groups and keep the lines of communication open.

At the end of the day, the CDC's objectives will remain intact, he added.

The ultimate goal is to continue to produce new crop lines that result in better financial returns for farmers.

"Our mandate and objectives won't change," Agblor says.

"We don't want to get to a point where we are ever perceived as no longer being a public institution." ♦



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End-Point Royalties

How can cereal producers have future access to the best global genetics for wheat and barley?

PRODUCERS DEPEND on new technologies to keep cereals competitive in crop rotations and in world markets. Globally, private cereal varieties are now under development that could create important benefits and changes for producers in Canada.

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A history of success

In addition to the early maturity that is so important in our short growing season, breeders have continuously improved yield, quality and disease resistance in Canadian cereal crops. In Canada, wheat and barley variety improvement, like in the United States, has been done primarily by the public sector. Over 100 years ago, the federal government established agricultural research and experimental stations to support economic development in Canada. Wheat received special focus, as it was well suited and strategic to the development of the prairies.

Western Canada's short growing season, low rainfall and unique plant diseases required a long term commitment and vision to develop the highly adapted germplasm in public breeding programs today.

In fact, varieties from public breeding today represent over 85 percent of the seeded wheat acres in Western Canada and more than 70 per cent in the United States.

In recent years however, public

breeding investment in real dollar terms has been eroded due to inflation and public-sector budget cuts.

Partially offsetting this has been a producer-funded levy (check off) on wheat and barley that was introduced in 1993 and administered by Western Grains Research Foundation. These levies by law could only be used for wheat and barley breeding research.

It is estimated that this producer contribution to breeding research has paid for approximately 30 percent of the cost of public breeding projects, excluding assets and overhead costs.

Over time, Canada's public breeders have developed a unique and valuable wheat germplasm. This is the result of a 100-year wheat breeding history that has emphasized milling quality and protein content.

Wheat – The Last Frontier

The breeding of wheat is genetically complex and complicated by agronomic factors. This makes breeding efforts expensive. The practice of using farm-saved seed (FSS) makes royalty collection difficult and results in a low return on investment for breeders. As a result, private companies which have become world leaders in the breeding of corn, soybean, canola, fruit and vegetable crops have not been as active in cereal crop breeding.

However, things are changing today.

Wheat is the second largest crop in the world and private breeders see business growth opportunities in markets where the investment climate is right.

Barley is also being displaced by corn in some areas as shorter season varieties become available.

Wheat breeding is global as demonstrated in the "New Private Wheat Research Investments Timeline" shown in this article.

Investment Climate and UPOV 91

Canadian producers need access to the best technologies available in order to improve yields and address other agronomic issues as they emerge. While public breeding will continue to play a significant role in technology and variety development, Canada must also encourage global seed company investments in wheat and barley breeding and to do so the right investment climate must exist. To help foster the right investment climate, the federal government is considering updating Canada's Plant Breeders' Rights (PBR) Act. Amendments under consideration would cause PBR legislation to conform to the most recent international standards, called UPOV 91.

Conforming to UPOV 91 would give plant breeders in Canada more opportunity to collect royalties on PBR protected varieties.

CONTINUED ON PAGE 28

TIMELINE FOR RECENT PRIVATE WHEAT RESEARCH INVESTMENTS:

2013

- Bayer announces building of global wheat breeding network. First varieties expected 2015.
- Bayer and Crop Development Centre (CDC) collaborate on striped rust disease resistance.
- Dow and CDC collaborate to develop some wheat varieties.

2012

- Limagrain and Canterra Seeds partner to test varieties for Canadian prairies.
- Bayer establishes wheat breeding station in Saskatoon.

2011

- Dow buys Washington company to expand wheat seed program.
- Bayer establishes European Wheat Breeding Centre.

2010

- Bayer buys wheat breeding program in Ukraine.
- Monsanto invests in Intergrain, Australia's second largest cereal breeder.
- Limagrain starts a North American wheat breeding and seed program.
- Syngenta enters hybrid wheat business.

2009

- Bayer expands seed and traits business to include wheat.
- World's largest seed producer, Monsanto, expands to include wheat.

2008

- World's largest wheat breeder, Limagrain, purchases shares in Australia's largest private wheat breeder.

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This would improve returns on plant breeding investments for both public and private plant breeders while also increasing intellectual property protection of varieties.

For producers, a key outcome of applying UPOV 91 standards is that breeders will be eligible by law to receive a royalty on their varieties any time seed of their protected variety is planted. For cereal producers, this would include farm-saved seed.

This creates a dilemma. Producers need and want access to the best genetics so that they can continue to produce high quality, internationally competitive products. But they also want the cost savings that come with planting farm-saved seed. An EPR offers a solution.

EPRs – What are they?

How can a royalty be collected on farm-saved seed? One method is for producers to keep records of the amount of FSS stored and sown. This method is used in Uruguay. Twice a year, breeders' representatives visit each farm to record the variety and quantity of FSS planted. In western Canada, visits to individual farms to record seed storage and planting data would be costly to administer because of the large number of farms and the distance between them. This level of oversight would also be objectionable to most farmers.

UPOV 91 standards allow that if the breeder does not have 'reasonable opportunity' to exercise his right to collect a royalty on the seed (in this case, FSS or Certified Seed), then the breeder may collect a royalty on the grain that is produced from the seed. When the royalty is collected on the grain harvested and not on the seed, it is called an end-point royalty (EPR).

End-point royalties have proven to be successful in Australia at financing crop breeding.

First introduced in 1996, wheat varieties with EPRs have reached over 80 percent of the market share. One reason it works so well is that it provides a return to breeders when FSS is planted. As Ross Kingwell, an economist at the University of Western Australia says, "Where farm-saved seed is common practice,

the characteristics of end-point royalties are shown to make them a preferred means for financing crop breeding by variety developers, governments and many grain growers."

How EPRs Work

An EPR is a mechanism used by plant breeding companies to recover their return on investment. It is a risk sharing mechanism since the producer of the crop pays a royalty on the production and not on the seed. The amount of the royalty is set by the breeder and may be dollars per tonne or a percentage of value.

The EPR is a royalty charge imposed on the first sale of harvested material derived from varieties protected by plant breeders. If the EPR is charged, then no royalty is applied to the certified seed.

Breeders are not allowed to collect two royalties; on seed and on production.

When a producer chooses to plant a variety protected by PBR (under UPOV 91 standards), it becomes the law to pay the royalty as established by the plant breeder. If a producer does not want to pay EPR then the producer should not utilize the technology of the PBR protected variety by planting the seed.

When grain is delivered to the first point of sale, the producer will declare the variety name. If an EPR is in effect on the variety, the grain buyer will deduct the royalty amount due to the breeder and remit the funds to the breeder or to the breeder's agent.

There are various advantages to end-point royalties:

- They are practical, streamlined method of remitting a royalty on PBR protected varieties, resulting in a low administration cost.
- Buyers in Western Canada have already established the administrative systems for check-off (levy) collection.
- They are more practical to implement than a royalty on FSS and less offensive to farmers, as collection does not require on-farm monitoring.
- An EPR is a performance-based royalty system; producers and breeders share the risk of variety performance. ♦

DEBUNKING THE MYTHS SURROUNDING EPRs

Will producers pay twice?

Producers currently pay a compulsory but refundable checkoff (levy) for wheat and barley development via provincial wheat and/or barley commissions. If an EPR is introduced, some producers may think that they are paying twice for the same thing.

They are not. The commission check-offs currently support research, market development and technical assistance programming in western Canada. This is producer money used to support activities determined by producer representatives.

An EPR on the other hand is money owed to the plant breeder for use of the variety protected by PBR. It is not refundable. Its purpose is to provide the breeder with a return on investment for their cost and risk in developing the new variety.

An EPR and a checkoff are two distinctly different mechanisms achieving different outcomes – producers do not pay twice for the same thing.

Will EPRs harm the seed industry?

Breeders currently collect a royalty built into the price of a certified seed. Some worry that if the royalty is moved from seed to grain production, it will harm seed growers and seed companies. Application of EPR does not change the Seeds Act in Canada and will not reduce the vitality and role of the pedigreed seed industry. Seed growers and seed companies will continue to be needed for cereal seed production and distribution.

Contrary to the canola industry — where five pounds of canola is needed to seed an acre and seed is processed at central locations and shipped to customers — wheat and barley have much higher seeding rates meaning seed production and processing activities will be decentralized across the prairies. Cereal breeders will continue to need local suppliers and distributors to provide cost effective offerings to producers.

Canadian producers need access to new technologies and global genetics.

The implementation of an end-point royalty in Canada will help attract global investment in cereal breeding.

To maintain pace with other competitors, Canada needs a strong investment environment that rewards private companies for their investment and risk in developing new, improved cereal varieties.

Articles submitted by Stuart Garven, Garven & Associates. ♦

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Federal review continues on **variety registration system**

Federal agriculture department reviewing industry feedback

CANADA'S VARIETY

registration system

is in the middle of an

industry-wide review but reaching a consensus on potential changes could be a challenge.

In a recent interview, federal agriculture minister Gerry Ritz said industry discussions surrounding the variety registration system are ongoing.

But Ottawa is not interested in pushing changes through quickly.

"We're working with everyone that would be affected by (this process) to make sure that when we do make changes, that they're the right changes," Ritz said.

"This isn't about expediency. It's about getting the right (information) before these discussion groups to make sure they have the information that they need."

In Canada, the variety registration process has been criticized by some stakeholders as process that is too complex, too cumbersome and too time consuming.

Some critics have suggested that a simplified, streamlined process is necessary to ensure that life science companies continue to invest in varietal development.

Others suggest that a revised registration process with less stringent testing requirements during the pre-

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Does Canada's current variety registration system impede investment in variety development? That question is at the heart of a federal review that began nearly a year ago. | FILE PHOTO

registration phase might also allow promising new varieties to reach the market more quickly.

But supporters of the current system say it has served the Canadian agriculture industry well and is already flexible enough to address industry concerns.

A system that involves merit testing and peer review procedures is critical to ensuring that the quality and performance of new varieties meets or exceeds the expectations of growers,

end-users and others stakeholders.

In Canada, before any new crop line is approved for commercial production, it must go through a variety registration process that ensures the new line meets certain performance standards.

In most cases, new crop lines being considered for registration must meet established criteria for disease resistance, agronomic performance and end use quality.

Depending on the crop, different performance criteria are applied.

For instance, the testing criteria used to evaluate for new lines of wheat and barley are different than the testing criteria used to evaluate new lines of canola and soybeans.

But in both cases, the system provides various industry groups an opportunity to evaluate new promising new lines and ensure that their registration will not negatively impact Canada's reputation as a reliable supplier of high quality grains and oilseeds.

Last year, federal agriculture minister Gerry Ritz served notice that the variety registration system is under review.

In a February 2013 letter addressed to variety recommending committees, Ritz said Ottawa is looking at ways to streamline and modernize the registration system.

CONTINUED ON PAGE 44

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WGRF remains committed to research that benefits farmers

Farmer organization retains focus in rapidly changing environment



The Western Grains Research Foundation is contemplating its role in the new funding environment that has evolved since the elimination of single desk marketing. Since its inception, the foundation has supported projects that benefit producers and enhance farm profitability. | FILE PHOTO

THERE'S BEEN plenty of change in the Western Canadian grain industry over the past year and a half.

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Garth Patterson, executive director of the Western Grains Research Foundation (WGRF) says the elimination of single-desk grain marketing has caused a significant reorganization of research funding mechanisms and grain industry leadership in Western Canada.

The WGRF is in the middle of that reorganization process.

But for the time being, the foundation has committed to providing stable funding for wheat and barley variety development research.

It will also facilitate change in the industry by working with other organizations, including newly established provincial wheat and barley commissions, Patterson said.

Most importantly, it will continue to ensure that producer check-off dollars are managed carefully and used to support research that benefits primary producers across the West.

"As a producer organization ... I think it's our responsibility to ensure that we use farmers' money wisely ... on projects that deliver benefits..." Patterson said.

"We've committed to continuing to provide core research funding for wheat and barley variety development to the public institutions that we always have supported, those being Agriculture Canada, the western universities on the Prairies as well as Alberta Agriculture."

During the past 18 months, the research funding environment in Western Canada has changed considerably.

Until 2012, the Canadian Wheat Board was responsible for collecting producer levies on western Canadian wheat and barley.

But when CWB's single-desk marketing mandate was eliminated, a new method of collecting grower levies was required.

In 2012, the federal government announced that farmer levies traditionally collected by the CWB

would remain in place during a five-year transition period.

The money collected through those transitional levies was meant to provide uninterrupted financial support for wheat and barley research and market development programs delivered by the WGRF, the Canadian International Grains Institute (CIGI) and the Canadian Malting Barley Technical Centre (CMBTC).

The transitional funding was also intended to give the prairie provinces sufficient time to establish new wheat and barley commissions, which would eventually assume responsibility for collecting and administering all wheat and barley checkoffs in the West.

In Saskatchewan, newly established wheat and barley commissions are taking shape.

The Saskatchewan Wheat Development Commission (SWDC) and Saskatchewan Barley Development Commission (SWBC) held their first elections late last year and have been collecting new producer levies since Aug. 1, 2013.

CONTINUED ON PAGE 34

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 semidwarf 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). While these off types look abundant they represent a very small portion of the crop (much less than one percent) and have no effect on yield or quality of the harvested crop.

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Barley - Malt

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Legacy - 6R
Tradition - 6R

Oats - Milling

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

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Similar commissions are also in different stages of development in Alberta and Manitoba.

Patterson said the WGRF is working closely with the new commissions to facilitate change and ensure that producer investments are managed wisely.

"We've met with all of those commissions and the message that we've been giving to these organizations is that we recognize that change is occurring and that we want to work with them in the best interests of producers," Patterson said.

One of the biggest questions facing farmers, provincial cereal commissions and the WGRF is how to invest producer funds.

In other words, how will organizations like the WGRF and the provincial wheat and barley commissions continue to ensure that returns on producer investments are maximized and that prairie farmers are getting the biggest bang for their investment dollars?

That's a question that could take months and possibly years to answer.

In the meantime, WGRF will adhere to its current mandate and maintain the status quo.

"Farmers don't want duplication and they want to see their money leveraged," said Patterson.

"We've told the commissions that we will continue (to provide core research funding) and if there's going to be any major changes in how producers invest in wheat and barley variety development — such as farmers setting up a company or starting their own breeding program or partnering with a private multinational — we'll work with them to make sure there is consensus on those significant changes.

"Otherwise, we're committed to the status quo as far as keeping that core support for public institutions and allowing the new commissions time to develop their strategies and positions."

The issue of farmer investments — and how they should be managed — has generated a lot of interest recently.

That's hardly surprising, given that producer investments in cereal research are increasing significantly.

In Saskatchewan, for example, farmer contributions to wheat and barley research and market development programs are expected to double.

In an average crop year, Saskatchewan's newly formed wheat and barley commissions are expected

to collect roughly \$5.5 million annually through new wheat and barley levies.

That money — 52 cents per tonne on wheat and 50 cents per tonne on barley — is in addition to existing transitional levies that support CIGI, the CMBTC and the WGRF.

Furthermore, an additional producer investment is also being made each year through the WGRF's endowment fund, a pool of producer money now valued at roughly \$100 million.

By 2015, research investments furnished by the endowment fund are projected to grow to nearly \$7.5 million a year.

Like most savvy investors, prairie farmers are asking what they can expect in return?

According to Patterson, the WGRF has looked long and hard at the issue of producer investment.

Going forward, there are many ways that farmer contributions could be used, he said.

Do farmers want to continue making core contributions to publicly funded breeding institutions such as Agriculture Canada and the Crop Development Centre at the University of Saskatchewan?

Do they want to establish their own cereal breeding programs and retain proprietary control of the varieties that they develop?

Or, do they want to develop business partnerships with multinational life science companies that are looking to increase their involvement in the Canadian cereal grain sector?

According to Patterson, all potential models are being examined.

"Everything is on the table right now..." he said.

"One of the questions that we have is what's needed in Western Canada?" he added.

"Certainly, Ag Canada has told us that it looks ... like there's going to be less public involvement in variety development research, so ... if there are gaps that are potentially coming ... what do we need to look at and how can we perhaps partner with private industry and producers to fill those gaps?"

To some extent, the WGRF's future role in administering producer investments is also up in the air.

When the five-year transitional funding period ends in 2017, it is likely that the new provincial commissions will take full administrative control of all producer levies collected on wheat and barley.

But regardless of how the new funding environment evolves, Patterson

still sees the WGRF playing an important role in funding ag research.

For starters, the foundation has well established working relationships with provincial research funding agencies including the Agriculture and Rural Development Initiative (ARDI) in Manitoba, the Agriculture Development Fund (ADF) in Saskatchewan, and the Agriculture Funding Consortium (AFC) in Alberta.

"We've got agreements with all three of those organizations now that (allows us) to see all of the research proposals that they get and we'll continue to look at co-funding with them," Patterson said.

"That's pretty powerful because it makes our organization the only one that sees all of the proposals that comes into these three (agencies) in Western Canada ... so we can look for commonalities (across the prairies) ... and identify opportunities to collaborate...."

In addition, the WGRF endowment fund is expected play an increasingly important role.

In the past, research investments derived from the WGRF endowment fund have been maintained at roughly \$2 million a year.

But more recently, WGRF members have indicated that they would like to see the endowment fund make a larger contribution to research.

Patterson said WGRF is well positioned to maintain its role in funding production-related research, not only for wheat and barley but for pulses, oilseeds and special crops as well.

Production related research, including agronomic studies and post registration varietal testing, are areas that may see more WGRF support.

The foundation has also offered to retain its role in funding cereal breeding programs but that decision will ultimately be made in consultation with the new wheat and barley commissions, Patterson said.

Either way, the Western Grains Research Foundation will be around for many years to come.

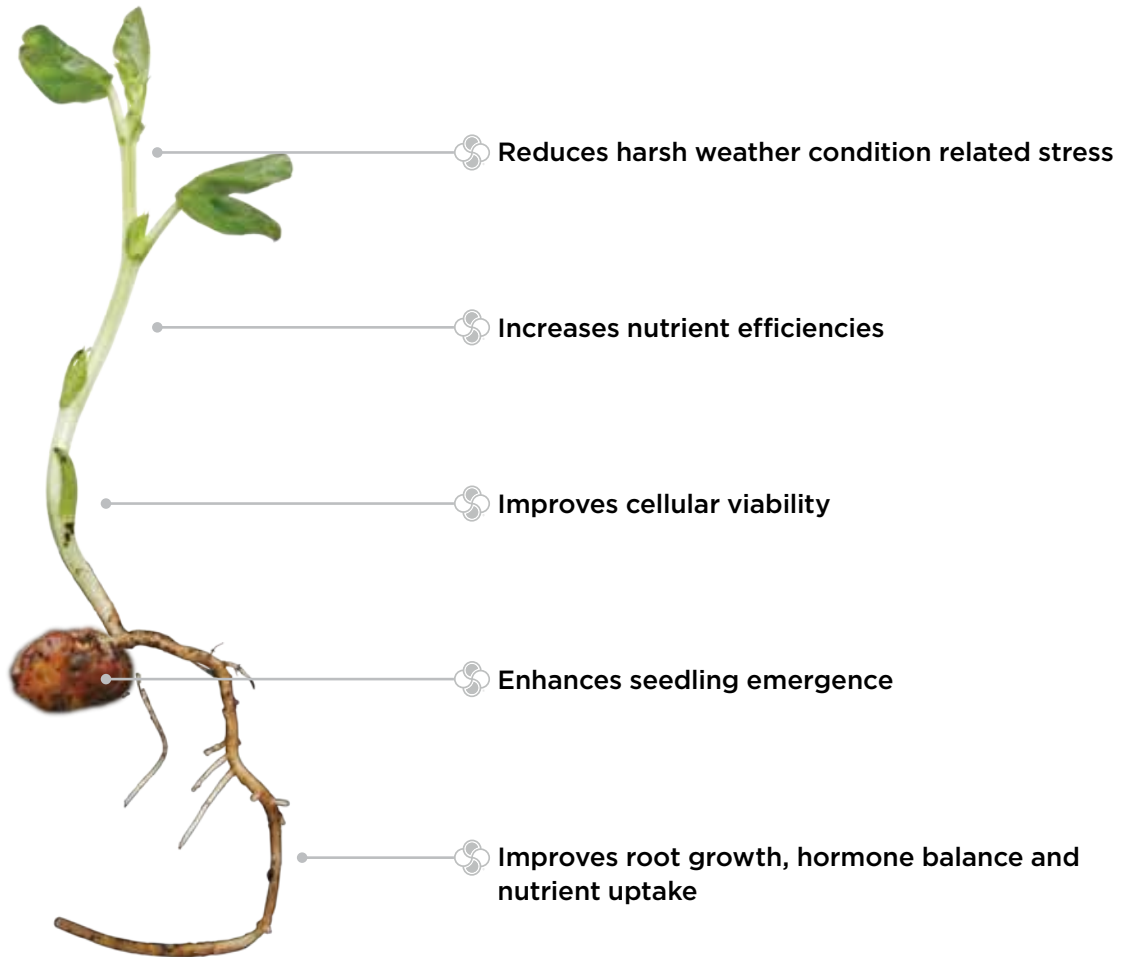
"We'll continue to exist as an organization," he said.

"We have over \$100 million in the endowment fund to invest and our members are very supportive of investing more of that fund."

"Whether or not we remain involved in wheat and barley variety development ... that will really be up to the provincial commissions and what they think is in the best interests of producers." ♦

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New commissions in place to support wheat and barley research

Commission elections were completed in December

THE PIECES of Saskatchewan's newly established wheat and barley development commissions are continuing to fall into place.

Prepared for Sask
Seed Guide

The Saskatchewan Wheat Development Commission (SWDC) and the Saskatchewan Barley Development Commission (SWBC) recently opened a shared office at Innovation Place in Saskatoon.

Inaugural elections at the SWDC and SWBC have been conducted and on Jan. 13, both organizations were scheduled to hold their first-ever annual general meetings.

The commissions' newly elected board members were scheduled to take office immediately following those meetings.

"There's definitely a lot of work ahead of us," said Tom Steve, a former Viterra executive who was hired last October as



Saskatchewan's new wheat and barley development commissions are now up and running. The commissions collect grower levies of 52 cents per tonne on wheat and 50 cents per tonne on barley. | FILE PHOTO

general manager for the commissions.

"But we are fortunate right here in Saskatoon to have some very well established producer levy commissions to show us the way and they have been very supportive of our efforts,

particularly Sask Canola and Sask Pulse...."

"We have some very positive templates to follow."

The formation of provincial wheat and barley commissions in Saskatchewan has followed some ambitious timelines.

In the summer of 2012, Saskatchewan's Ministry of Agriculture called together stakeholders in the province's wheat and barley sectors and formed two steering committees to guide the formation of the new commissions.

Those steering committees eventually became interim boards charged with developing guidance documents for the new commissions, setting up elections and hiring a general manager.

By late 2013, a slate of candidates had been nominated to fill elected board positions at the SWDC and SWBC.

CONTINUED ON PAGE 38

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With those boards now in place and a general manager hired, the task of building the commissions, identifying priorities and making key strategic decisions is set to begin in earnest.

Along with similar commissions in Alberta and Manitoba, the SWDC and SWBC will play an important role in determining how producer levies on wheat and barley are collected, managed and invested.

By Steve's estimate, the SWDC will collect mandatory refundable levies of more than \$4 million a year from the province's wheat growers.

The SWBC, meanwhile, is expected to collect more than \$1 million per year from barley growers.

Producer levies — \$0.52 per tonne on wheat and \$0.50 per tonne on barley — have been in place since Aug. 1 of last year.

Those levies are roughly equivalent to interim federal levies that have been in place since Aug. 1, 2012. The interim federal levies were put in place to ensure ongoing financial support for programs at the Western Grains Research Foundation, the Canadian International Grains Institute and the Canadian Malt Barley Technical Centre.

According to Steve, one of the first decisions facing the commissions' new boards is how to collect and manage levies.



In an average year, Saskatchewan's wheat and barley development commissions will collect roughly \$5.5 million from the province's wheat and barley growers. The commissions will use that money to support research that benefits growers and the cereals industry. | FILE PHOTO

Right now, the province's wheat and barley growers are paying two separate levies — the provincial checkoff and the interim federal checkoff — with a combined value of about \$1 per tonne.

It is not yet clear if those two levies will remain in place or if the two levies will be blended into a single check-off that appears as one item on producers' grain tickets.

There are also key strategic questions to address, such as the commissions' relationships with other organizations including wheat and barley commissions

in Manitoba and Alberta, a newly formed national cereals council known as Cereals Canada, and the Western Grains Research Foundation (WGRF), which also manages producer checkoff dollars.

"I think everyone recognizes the importance of collaboration ... so working together and focusing on similar priorities will be very important," Steve said.

"Questions around future funding (arrangements) have not been addressed and that's a big part of the process that we're into now..." he added.

CONTINUED ON PAGE 39



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“The good news is that all the players are in the room and they’re talking to each other.”

The relationship between the wheat and barley commissions and the Western Grains Research Foundation is one that will require careful consideration.

The commissions and the WGRF will be occupying a similar space in the revamped funding environment.

Both receive money collected through producer checkoffs on wheat and barley.

And both will use that money to support cereal grains research.

Steve said discussions involving the commissions and the WGRF have taken place.

The two organizations have made it clear that they intend to work together for the benefit of producers and the cereal grains industry as a whole.

“We’ve had discussions with Western Grains on a preliminary basis,” Steve said.

“I think how the future unfolds is not completely clear to us or to the WGRF ... but certainly, the intent is to work collaboratively, to the extent that we can, to be focusing on the same areas of research.”

Another critical issue facing the commissions is how to invest producer levies.

With Agriculture Canada serving notice that it will gradually reduce its role in developing and commercializing new wheat and barley varieties, one of the key decisions in the coming months will centre on whether producer levies should be used to ensure farmers have an ownership stake in plant breeding and varietal development functions.

Those critically important discussion are taking place at a time when private-sector plant breeding companies are positioning themselves to play a more prominent role in the development of new wheat varieties.

“We’ve obviously heard a lot of discussions about producer driven models and about public private partnerships,” Steve said.

“I think there’s a recognition that there’s going to be a change because of Agriculture and Agri-Food Canada backing away from finishing new varieties but exactly what the new model looks like is a question that will be before us as an entire industry, and again, I think producers have a great opportunity to be heard on that.

“There’s definitely an investment gap in cereal research and how we address that is going to determine our competitiveness as an industry,” he continued.

“What I expect is that we will have a very comprehensive discussion around those matters and that our boards of directors and the boards of other provincial commissions will have very different points of view.

“My role as general manager is to bring good information to the table so that we can make informed decisions on what that new direction is.”

Steve said the SWDC and SWBC have an opportunity to make some important decisions that will shape the industry for many years to come.

How producer levies are invested and leveraged could have far-reaching implications that help to determine how profitable Saskatchewan grain farmers are and what assets or organizations they influence, control or own.

“This is an opportunity for farmers to directly have a say in the research priorities and market development priorities of their industry ... so a big discussion point in our own strategic planning is how we demonstrate value to farmers and show them that they’re getting something in return for that investment.”

“Definitely, the onus is on us to demonstrate and communicate value to the various players.” ♦



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Brown bagged seed

causes marketing problems

AN AMERICAN wheat variety that was developed in North Dakota is causing a marketing dilemma north of the border.

Prepared for Sask
Seed Guide

Faller, a variety developed by North Dakota State University, is a high yielding red spring wheat that is well-adopted to growing conditions in North Dakota and Minnesota.

But it has also developed a strong following north of the border in southern Manitoba.

The problem is that variety has never been registered for commercial production in Canada.

That means Canadian farmers who grew the variety in 2013 are in possession of an unregistered commodity which legally can only be sold in Canada as feed wheat.

In 2013, an estimated 42,000 acres of Faller were grown in Manitoba, including about 25,000 acres that were grown with common seed that was acquired illegally.

With an estimated yield of almost 90 bushels per acre, that means roughly 3.5 to 4 million bushels of the variety were produced in Manitoba last year, about 60 percent of which was grown from illegal or brown bagged seed.

Late last year, ADM Benson Quinn announced that Canadian wheat growers who planted Faller wheat from illegal common seed would have an opportunity to sell their 2013 production as milling wheat south of the border.

Scott Nagel, president of ADM Benson-Quinn, announced in mid-November that his company had acquired an exclusive license to import Canadian-grown Faller into the United States.

Nagel said ADM Benson Quinn would accept deliveries of Canadian-grown Faller at three U.S. locations: Walsh Grain Terminal at Park River, N.D., Dakota Midland Grain at Voltaire, N.D. and Markit County Grain at Argyle, Minnesota.

He said prices offered would be comparable to prices for similar milling wheat varieties grown in the United States, although prices would be discounted slightly to cover the costs of seed royalties, which will be collected on behalf of the variety's developer, North Dakota State University.

"There was a fair amount of Faller planted (in Canada) from common seed ... and Faller is an unregistered variety in Canada, so it was basically being grown illegally ...," said Nagel.

"What we're doing is ... providing a good legal opportunity for producers to receive a fair price for the grain that they produced ... because technically, if they (grow it from common seed and) sell it in Canada, they need to sell it as feed wheat."

The illegal use of Faller by Canadian wheat growers highlights an interesting dilemma in the Canadian grain industry.

Popular wheat varieties that are developed in the U.S. often tend to migrate across the border through illegal means, even before the varieties are registered for commercial production in Canada.

Seed Depot, a pedigreed seed company based at Pilot Mound, Man., has commercial rights to sell certified Faller seed in Canada.

Last year, in conjunction with grain handling companies Parrish & Heimbecker and Richardson International, Seed Depot launched a closed-loop, identity-preserved production program that would allow Canadian farmers to grow the variety legally.

John Smith, chief executive officer of Seed Depot, said his company sold enough certified Faller to plant roughly 15,000 acres under closed-loop IP contracts.

Manitoba's remaining acreage, about 27,000 acres, was produced with illegal seed.

Smith said the arrangement allowing ADM Benson Quinn to buy illegal



Grower interest in high yielding wheat varieties with lower protein content may be outpacing market demand for low-protein milling wheat, especially in years where protein levels in the CWRS class are lower than normal. | FILE PHOTO

production and collect royalties on behalf of NDSU was the best solution to a bad situation.

The program is a one-time attempt to clear the system of illegal production, he said.

But it also highlights a situation that is likely to occur again in the future. In all likelihood, American plant breeders will continue to produce varieties that appeal to Canadian growers.

And if those varieties are not legally available to Canadian growers, a likely result is black market sales.

Lorne Hadley, executive director of the Canadian Plant Technology Agency, (CPTA) said situations like the one involving Faller have happened before and are likely to happen again.

But Hadley urged Canadian growers to consider the consequences of planting an unregistered variety.

For starters, buying common seed from a PBR protected variety for the purposes of commercial reproduction is illegal.

In addition, harvested grain from an unregistered variety must be sold as feed grain.

The ADM Benson-Quinn program is a one-time opportunity for growers to get rid of illegally grown wheat, Hadley said.

"This is producers' opportunity to get their Faller sold off their farms and ... get an IP contract (next year) if they want to continue to produce Faller in 2014," he said.

"There's no guarantee that this will ever be repeated."

According to Smith, the popularity of Faller among Canadian growers is a tribute to the variety's high yield potential.

"It's a huge compliment to the variety that so many farmers would sneak it in and grow it even though it isn't registered," he said.

Smith said growers in southern Manitoba like the variety because of its high yield potential.

But they should also be aware that protein levels in Faller are typically 1 to 1.5 percent lower than most CWRS wheat varieties that are grown in Canada.

Since the elimination of single desk wheat marketing in Western Canada, farmer interest in high-yielding wheat varieties has grown, Smith said.

But in some cases, grower uptake of Faller and other high yielding varieties in the CPSR class has outpaced the ability of exporters and grain handlers to market the crop, largely because of lower protein levels and reduced milling quality.

"In some cases, farmer enthusiasm for growing a wheat like (Faller) is running ahead of what market development has," Smith said.

"That's why there's so much interest in going into the U.S. because the market is more fully developed in the United States for a wheat like Faller."

Smith said discussions have taken place to determine if Faller should be put forward in early 2014 for commercial registration in Canada.

More likely, registration support won't be sought in Canada until the spring of 2015, primarily because there is a limited amount of Canadian trial data available, he added.

Changes to Canada's variety registration system — including a move to accept foreign trial data — could potentially allow a variety like Faller to gain registration support more quickly in Canada.

Right now, foreign crop varieties that are put forward for registration in Canada must have sufficient data to support their application, including several years of data from pre-registration trials conducted in Canada.

A variety like Faller has an established production history and a significant amount of data to support an application for registration, but most if not all of that data comes from U.S. variety trials.

Until Faller is registered in Canada, Hadley said Canadian farmers must refrain from growing it, unless they use certified seed and sign a closed-loop production contract.

Producers in possession of illegal seed can sell their 2013 Faller production in the United States without fear of legal repercussions, he added.

But farmers who retain common seed and replant it again in 2014 shouldn't expect a similar break next year.

"This is a program of getting this product out of the marketplace, off the farm and asking producers not to retain any Faller to plant again in 2014 as common seed. Just move it out," he said.

"If they choose to retain seed that they purchased illegally ... grow it again and try to find a market for it, then they're on their own," Hadley added.

"Producers in Manitoba ... should appreciate that (Seed Depot), the NDSU and the grain companies have worked very hard together to work this grain through the system, this time. But I wouldn't expect it to happen again, with this variety or any other." ♦

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“As the development of new crop varieties is a key component in innovation, it is important that we examine the regulatory system affecting the development and adoption of new varieties, including variety registration, as we work to improve the crop sector,” Ritz wrote.

“To do this, I have committed to an industry consultation process to gather views on the current process and potential areas for regulatory change. These formal and informal consultations will take place over the next several months.”

Today, nearly a year after Ritz invited feedback from the industry, the variety registration review process is moving to its next phase.

The deadline for industry feedback and consultation was Nov. 30.

Government is now reviewing industry comments and will decide, within the next few months, if changes will be made.

In November, the CSTA released a proposed variety registration policy, recommending that the current variety registration system be retained but that flexibilities already built into the system be utilized more frequently.

“CSTA recognizes that variety registration is viewed as an important quality assurance system for some stakeholders on the crop value chain,” the draft proposal read.

“However, we also recognize that the current variety registration system is considered by some to be an impediment to innovation, investment and the ability of the seed sector to

introduce new choices for farmers.”

Despite changes aimed at enhancing efficiency and flexibility, “the system has not resulted in an environment that is conducive to investment and innovation in Canada.”

Among other measures, the CSTA proposal recommended maintaining the current framework for variety registration but moving all crop species, kinds and types to a different section of Canada’s Seeds Regulations so as to make optional the need for merit testing requirements and recommendations from a recognized recommending committee.

“CSTA believes that this is the best option as it maintains government oversight of the system, but creates the predictability, flexibility and efficiency that is required to foster investment and innovation to enhance the competitiveness of our farmers; and to bring choice to customers, and value to the Canadian agri-food sector and to the economy of Canada.”

Peter Entz, an executive with Richardson International who currently serves as president of the Canadian Seed Trade Association, said CSTA members had various opinion about the variety registration system.

“We had some members that wanted to keep it more status quo and we had some who wanted to do away with it,” Entz said.

“We knew the issue would be polarizing within our membership.”

Entz said the CSTA policy proposal was eventually adopted advocates retaining the current variety registration framework but moving all crops to Part 3 of that framework, which eliminates

the need for merit testing but retains government oversight.

The CSTA policy also included provisions for individual crop types to employ more stringent pre-registration testing requirements, if value chain members feel such requirements would be beneficial to the industry as a whole.

Ideally, we would like to move everything into Part 3, however, where the value chain says that it (wants more stringent registration criteria), we (the CSTA) are certainly not going to stand in the way....”

In other words, each crop type is unique and some crops may benefit from employing more stringent registration criteria than others.

In a 2012 interview with *The Western Producer*, Curtis Pozniak, a durum wheat breeder at the Crop Development Centre in Saskatoon, said crop quality and the protection of the Canadian brand should be paramount in any discussions related to variety registration.

“From my standpoint as a breeder, one of the things that we (are concerned about) is the importance of producing a consistent product and maintaining the Canadian brand,” said Pozniak, who sat on a Prairie Grain Development Committee (PGDC) working group tasked with assessing the current system and identifying potential areas of improvement.

“The variety registration system should be flexible and it is flexible in fact, but as we go forward, I think it will be critical to recognize the importance of the Canadian brand and to make sure that ... we have the kinds of products that we need to ensure sales to our overseas customers.” ♦

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Dealing with clubroot in Saskatchewan

FINDING CLUBROOT on the farm can be deeply distressing for a canola grower.

By Shirley Byers
Freelance writer

The backlash from other producers alone can be difficult to cope with, says Clint Jurke, agronomy specialist with the Canola Council of Canada.

On top of that, the disease can have a profound impact on how producers manage their farm and their rotations.

"It doesn't matter where a farmer is, whether he's in Manitoba, Saskatchewan or Alberta, when they're the first one within a township or a county or municipality that have clubroot, it's a really big deal and the community backlash can be a pretty negative experience as well, said Jurke.

"And I don't think that it should be that way."

"This disease has been here (in Western Canada) for 10 years and we now have 10 years of research that shows that it can be managed very effectively if you take the right types



Clubroot is spreading but steps can be taken to control the disease. In Saskatchewan, a provincial clubroot initiative has been in place since 2009, recommending best management practices for farmers, oil and gas industry workers and others. | FILE PHOTO

of actions. If you use resistance in the right way, if you watch your rotations, this disease can be managed very effectively."

Clubroot was detected in Alberta in 2003.

It didn't show up in Saskatchewan until 2008 when the clubroot pathogen was detected in soil from a field in the west central part of the province.

CONTINUED ON PAGE 47

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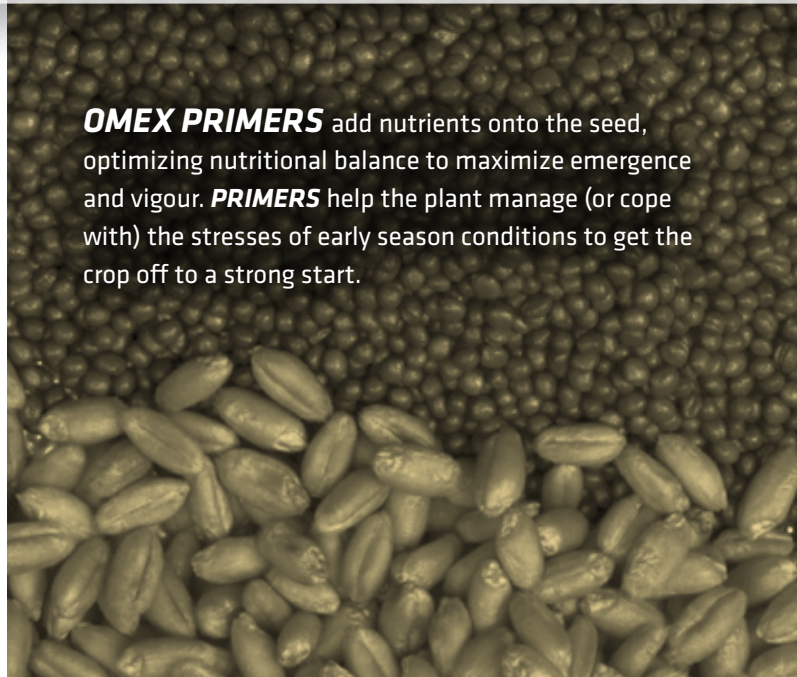
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It was next reported in two fields in north central Saskatchewan in the fall of 2011 and then in soil from a field in west-central Saskatchewan in 2012.

Saskatchewan's Clubroot Initiative was put into place in 2009 with members from the Saskatchewan Ministry of Agriculture, Saskatchewan Association of Rural Municipalities (SARM), canola industry organizations and agricultural and utility companies.

"Saskatchewan Clubroot Initiative meets regularly to discuss research, disease surveys, review extension materials, develop and update the Saskatchewan Clubroot Management Plan and create a forum for stakeholders to co-ordinate efforts to stop the spread of clubroot in Saskatchewan," said Sean Miller, provincial plant disease specialist with the Saskatchewan Agriculture.

Clubroot was declared a pest under Saskatchewan's Pest Control Act in 2009.

Under this act, RMs are provided with the authority to enforce best management practices in an effort to control the spread of the disease.

Saskatchewan Agriculture co-ordinates canola disease surveys, participates in clubroot surveillance and provides information to increase producer and public awareness of the disease.

The ministry's Crop Protection Lab can supply clubroot diagnosis.

The Saskatchewan Clubroot Initiative has developed a strategy based on the adoption of Best Management Practices, or BMPs.

Those BMPs include:

- Planting susceptible crops, including clubroot resistant canola varieties, no more than once every four years. Crop rotation will not prevent the introduction of clubroot to fields that are free of the pathogen, but it will restrict clubroot development by limiting the increase of clubroot spores and preventing the increase of clubroot inoculum. Good rotations also help to alleviate the impact of other plant pathogens.

- Scouting crops regularly and carefully.

- Practicing good sanitation by restricting the movement of potentially contaminated soil to non-contaminated regions. For Saskatchewan producers, this means restricting entry into their fields of vehicles, field machinery or oil rig equipment with earth tag from infested regions unless machinery has been properly sanitized. Ask questions about where the equipment is from and what sanitation measures were used before the equipment left the infested area.

- Cleaning steps that include removal of crop debris and soil; washing equipment with a power washer using hot water or steam and misting

with a disinfectant such as one or two percent bleach solution. After bleaching, an additional rinse with water is recommended.

- Avoiding the use of straw, hay, greenfeed, silage and manure from infested or suspect areas. Clubroot spores may survive livestock digestion.

The risk of spreading clubroot through contaminated seed or plant material is much less than the risk of transportation via contaminated soil on field equipment and vehicles. However, avoid seed with earth tag from infested areas to prevent introduction to clean fields.

"Many producers are well aware of the potential risk of clubroot and are diligent in following the best management practices," said Miller.

"Practicing good sanitation, specifically washing equipment is not being asked of growers unless the soil or piece of equipment is potentially contaminated."

Joan Heath, chair of Saskatchewan Canola Development Commission, farms near Radisson, Saskatchewan.

She said growers in clubroot-free areas are unlikely to use intensive practices such as washing down equipment.

But even if a farmer takes five minutes when they're moving equipment to kick as much soil as possible off their machines, this would reduce the risk of spreading clubroot quite significantly. ♦



STARTERS

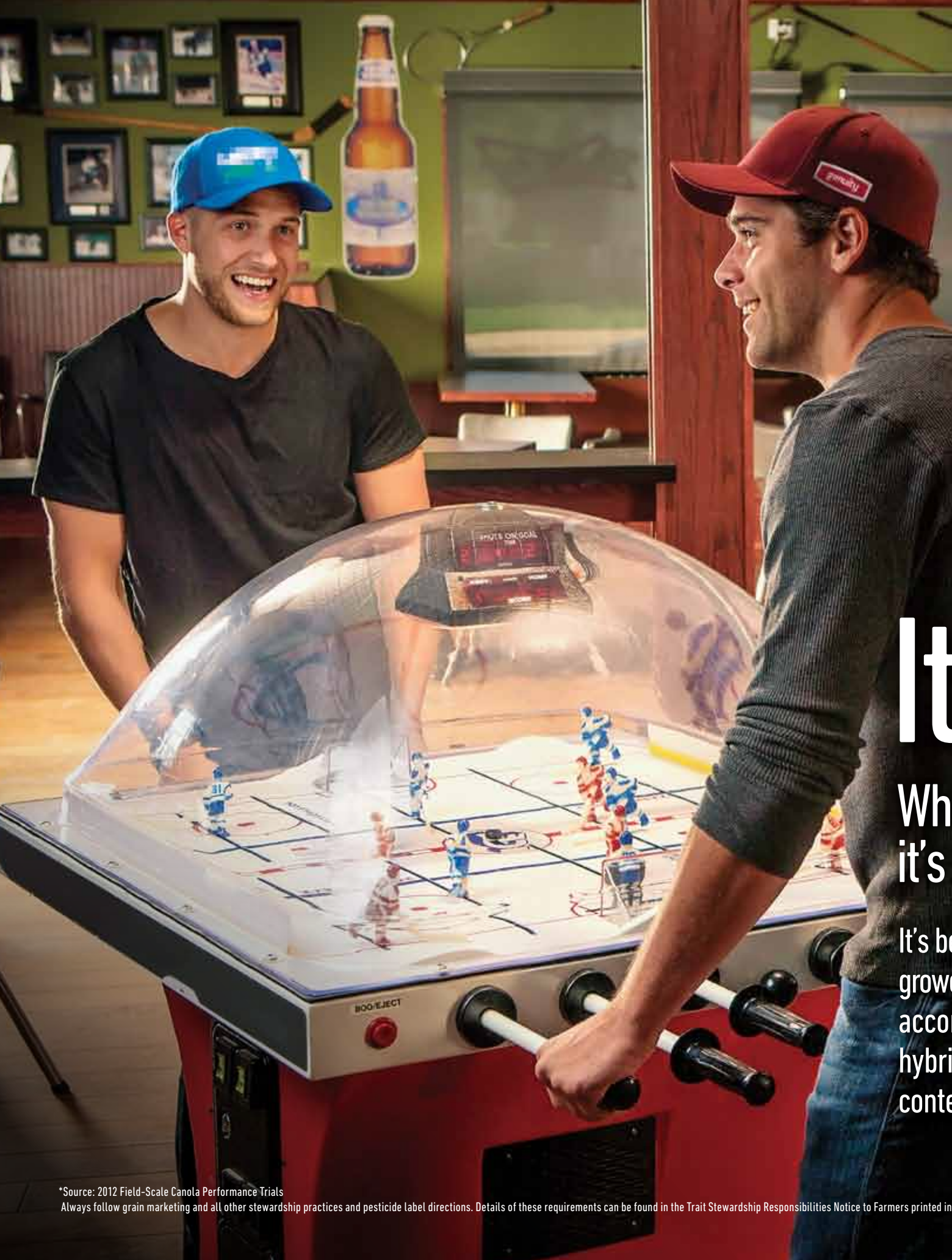


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National cereals council promotes whole industry approach

Smaller commodity groups fear their interests may not be represented



Cereals Canada is comprised of producers, life science companies, seed companies, grain handlers, exporters and processors. It aims to represent all the interests of all commodities in the cereal grains sector, including wheat, barley, oats, rye, triticale and corn. For primary producers, the obvious concern is whether such a broadly based organization can effectively represent farmers' interests. | FILE PHOTO

A NEW nation-wide organization has been formed to deal with issues affecting Canada's cereal grains industry.

Cereals Canada is billed as a multi-commodity organization that will work to enhance the competitiveness of all Canadian cereal grains, including wheat, barley, oats, rye, triticale and others.

The new council was incorporated last fall and was expected to name a president in late 2013 to direct the organization's day-to-day activities.

In a late 2013 interview, Jean-Marc Ruest, a senior vice-president with Richardson International, said the new organization will represent the interests of three main stakeholder groups.

"We essentially have three groups of members, one being producers, one being life science and seed companies and the other sector being handlers, exporters and processors," said Ruest, one of three founding directors with the new organization.

Prepared for Sask
Seed Guide

"We expect to have 18 directors, so six directors from each of those three sub groups"

"What we are really shooting for is by the end of (2013), to have our board fully established and ... a president hired ... so we are a fully functioning organization before the end of the (2013) calendar year."

Ruest said the new organization does not anticipate any direct government involvement but he did not rule out the possibility of government contributing financially to Cereals Canada's operations.

"With respect to government itself, we haven't anticipated any direct involvement," Ruest said.

However, the organization will be ideally positioned to offer direction to government on issues and policies that affect the cereal grains industry, such as changes to varietal registration and funding priorities in cereal research.

"A number of people have made their views known on how (the variety

registration system) should evolve but I think ... Cereals Canada will be a great voice for the industry generally on that type of issue," Ruest said.

Founders of the group have also identified market development as an area where Cereals Canada could play an important role.

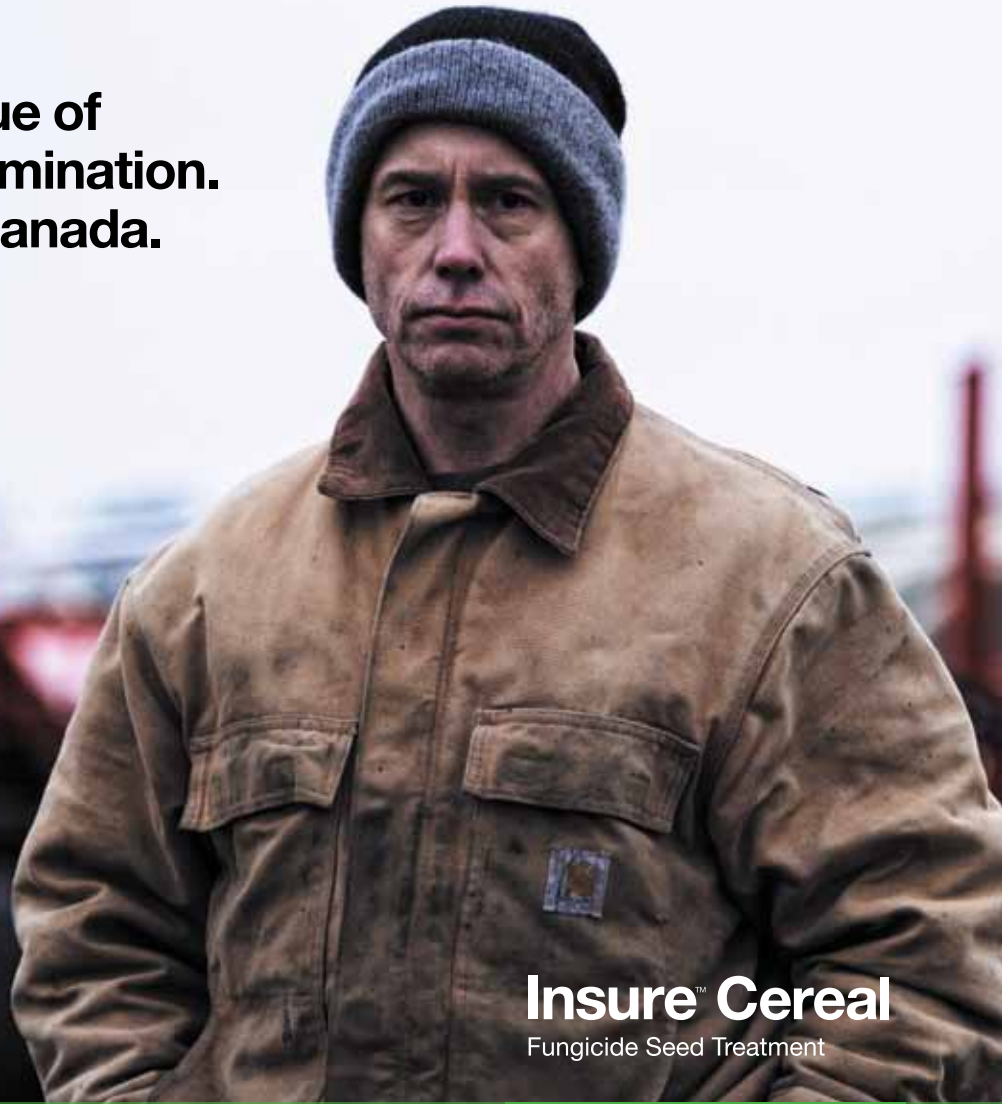
Efforts to create an all-encompassing cereals organization began in 2012 when a working group representing various industry stakeholders met to discuss the formation of a national cereals council.

Ruest did not share details of the organization's operational budget but said financial contributions will come from each of the three stakeholder groups that will be represented at the council's board level.

The organization also hopes to work closely with provincial cereal commissions, including new wheat and barley commissions that are currently being established across the Prairies.

CONTINUED ON PAGE 52

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"I think those commissions, as they come on line, are going to be very involved with Cereals Canada," he said.

"The commissions will be involved ... with respect to the direction of producer funds so they will be a strong source of the producer's voice at Cereals Canada."

The idea of forming a national cereals council to represent the interests of grain growers, seed companies and grain handlers has generated criticism from some people in the industry who feel that the interests of farmers will be overlooked or disregarded.

Alberta Wheat Commission chair Kent Erickson, another founding director with Cereals Canada, said he has no concerns about farmer interests being ignored.

He said the group's main objective is to ensure Canada's entire cereal grains industry remains competitive, profitable and innovative

"With changes to the Canadian Wheat Board Act and the way the industry is going now, we really needed a place or a forum where all of the industry could come together and discuss issues that are specific to cereals," said Erickson, a grain farmer from Irma, Alta.

"We don't have to agree on everything but we need to have a place where we can come together with some funds to back us to try and solve some of the problems that we're facing now with the changes we've had in the industry."

But others, including groups that represent barley and oat growers, have already indicated that they will not join Cereals Canada.

The Alberta Barley Commission, the Saskatchewan Barley Development Commission and the Prairie Oat Growers Association said last year that they have no intention of joining the organization in any formal capacity.

"We already have a united voice for oats," said Shawna Mathieson, executive director with Prairie Oat Growers Association (POGA).

"We cover about 90 percent of the oats grown in Canada ... so we feel like we already kind of have our own oats council."

The Alberta Barley Commission and the Saskatchewan Barley Development Commission also feel that the interests of barley growers will be better served by working with Cereals Council at arm's length.

The Alberta barley commission is already closely aligned with another national council, the Barley Council of Canada, which deals exclusively with issues pertaining to barley production, research, marketing and promotion.

"We anticipate working with Cereals Canada on issues of national and international importance, largely through our participation in the Barley Council of Canada," Alberta Barley chairman Matt Sawyer said in a recent interview.

"On the home front, we remain focused on representing Alberta barley farmers and working to achieve profitability for our crop."

Although Cereals Canada has not garnered much support from barley and oat grower groups, Ruest said his organization is still hoping to develop a co-operative working relationship with all organizations, including the Alberta Barley Commission, the Saskatchewan Barley Development Commission and the Barley Council of Canada.

He said a co-operative approach based on open dialogue with the Barley Council of Canada will best serve the cereals industry as a whole.

"We are to a certain extent in uncharted territory here as we build our respective organizations so I think the key really is going to be communications between the various groups," Ruest said. ♦

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A large, dark, scaly dragon is perched on the back of a yellow tractor. The dragon's mouth is open, breathing a stream of fire that is being directed through the tractor's nozzle. The fire is bright orange and yellow, and it is spreading across the field in front of the tractor. The background is a clear blue sky with a hint of sunset or sunrise.

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All aboard for ASD

Seed growers express inspection concerns as they gear up for 2014

COST AND quality were the two prevailing concerns when seed

By Shirley Byers
Freelance writer

growers talked about alternative service delivery (ASD) for pedigreed seed crop inspections coming in 2014.

Anita Palmier farms with her husband, Maurice, and their son near Lafleche, Sask.

So far, they've had two quotes from Authorized Seed Crop Inspection Services (ASCIS), one for \$2.75 per acre and the other for \$4.75 per acre.

In past years, they've consistently had 95 per cent of their 10,000 acres inspected.

But starting in 2014, the higher prices for inspections could mean they'll have to pick and choose which fields will be used for seed production.

"It's going to limit (our choices) and increase our bookkeeping," Anita said when asked about ASD.

"The cost is the number one thing. We wouldn't even mind paying two bucks an acre and keep it in the same hands. They know what they're doing. They have a paper trail. They've done this for years."

At Wynyard, Sask., Glen Bolt is pleased with the \$1.50 or \$1.75 an acre his Authorized Seed Crop Inspection Service (ASCIS) is offering. Another benefit for him is being able to contract the same inspector he had when the CFIA was doing the inspections.

Nevertheless, he doesn't think those increased costs can be passed on to the customer. "Everybody complains right now that we charge too much (for certified seed)," Bolt said.

"People don't realize the expenses a seed grower has.... Last year we paid over a hundred grand in royalties."

Milestone, Sask., seed grower and CSGA director for Saskatchewan Joe Rennick puts a positive spin on the higher rates. Think in terms of bushels rather than acres, he suggests.

"An average 40 bushel crop of wheat, in a 100 acre field, at \$4 per acre works out to just 10 cents per bushel for that inspection. If you're selling certified seed for \$10.10 you've covered that cost off. You're passing it to the customer. It's not \$4 increased cost. It's 10 cents a bushel."

Bolt is pleased with the third party inspection model that is being used under ASD.

He doesn't think the first party inspection model — where seed growers inspect their own fields — would ever work.

"How are you going to have somebody policing themselves?" he asks.

"I'm glad they didn't do that. They were going to let us do all our certified and get a third party to do the foundation and registered.

"Even doing your own certified, I didn't think would work," he says.

"People wouldn't take the time to walk through it. We don't walk through our crops enough."

Theoretically, why couldn't a grower do his own inspections? After all, the seed grower cleans his product and grades it if he has a registered seed plant and CSI audit.

"My response is you might want to talk to your errors and omissions insurers to see if they will even cover you," Rennick said.

"What I've gathered is that if it isn't third party they'll probably walk away. No, better not do your own inspection. We want the third party system."

Laura Cross at FarmersEdge in Winnipeg said seed growers should be booking inspection services as soon as possible.

"They should book them immediately," says Cross.

"They should be planning and talking to the inspections services groups. We're already speaking to lots of growers."

Prospective licensed seed crop inspectors (LSCIs) have been attending training sessions to ready themselves for the task of inspecting crops under the ASD model.

Nancy Denysiuk, senior seed analyst at Ag-Vision Seed Lab at Carrot River, Sask., said her company sent three employees to the CFIA office in Saskatoon for training last summer.

They were in the classroom for three days, followed by a pulse training day and a day and a half of field training on cereals. They completed a written exam after the classroom training and a practical exam.

Ag-Vision is hoping to train more LSCIs this year.

Neither Ag-Vision nor FarmersEdge had determined their rates as of early

December, 2013.

Some seed growers have raised concerns that there may not be enough licensed inspectors to do the job in 2014 but Rennick says from the numbers he's seen, there will be enough people.

And there will be training sessions for the growers, providing opportunities to learn the new system.

In March, the Saskatchewan Seed Growers Association will hold a training event dedicated specifically to alternative service delivery.

"The old paper application which had five fields is gone," Rennick says.

"It's one application per field (now). For 20 fields you'll have 20 forms to fill in. It's more paperwork, but ...you (can) file electronically or by fax or you can do it with an app off your phone. On each field you have to (choose) a service provider, whoever that may be. If you had 20 fields and there are a dozen companies, you could have eight different service providers. You must cover all the possibilities."

Licensed seed crop inspector and former pedigreed seed grower, Kelvin Meadows agrees that there will be changes in how the reporting will be done and in how farmers will be sending in their paperwork.

But for him and his wife Shelley, their work will remain virtually identical to what they did with the CFIA. They worked for that organization for three and two years respectively.

New inspectors will have to get a feel for how long it takes to inspect a field, and be able to factor in other costs in order to price and offer their service, he says.

"My concern is for people coming into the industry or growers who are used to a certain level of service from the CFIA.... There will be some concerns from growers — will the inspectors be competent?" he says.

"From the other side — (new inspection companies will be asking) how do I promote myself? Can I get the acres? How do I develop a relationship?"

"There will be a bit of a dating period, we'll call it, until everybody gets used to the system and gets used to each other," Meadows says.

"Over time it certainly will improve." ♦

2013

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The CPT system includes both small plot and large field scale trials. Results for 2013 are based on 20 small plot trials and 108 field scale trials across the Prairies. Trial results that missed the print deadline for this publication are available online at www.canolaperformancetrials.ca.

Site distribution is based on seeded acres in Manitoba, Saskatchewan, Alberta and British Columbia.

The small plot system ensures that:

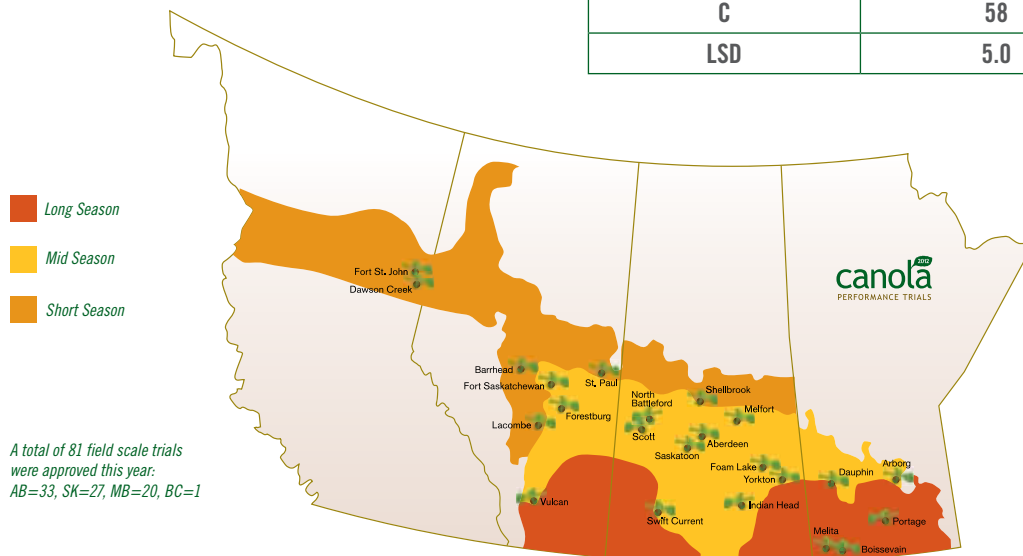
- All varieties are treated with appropriate commercially associated herbicides and seed treatments.
- An independent third party representative inspects all trials.
- Varieties are in blocks based on maturity. That way, harvest occurs at the appropriate time to minimize harvest losses due to maturity differences.

Field scale comparisons add extra perspective for assessing consistency in variety performance. For field scale plots, two or more varieties were compared at each site, and each site had a common check, 73-75 RR. Comparisons are based on harvested strips of 0.5 to 1.5 acres each. Field scale data is not necessarily replicated in all cases, but the data presented has been audited to make sure it complies with CPT protocols.

CV – For coefficient of variation (CV), the lower the CV value, the more reliable the test. For example, if comparing results from two test locations, one with a CV of 4% and the other with a CV of 8%, the test with the CV of 4% can be considered more reliable. There is always variability in research trials. The key is designing and managing experiments so CVs stay within a reasonable range. For the CPT, experience has shown that CVs below 15% indicate good test reliability.

LSD – The least significant difference (LSD at a 5% level of statistical significance) for each dataset indicates whether differences between varieties are statistically meaningful. Varieties should only be considered different in yield performance if the numerical difference between them is greater than the LSD value. Using the sample table below, if the LSD is 5.0, varieties A and B are not statistically different, B and C are not statistically different, but A and C are statistically different. In the yield graphs for each season zone (see page 20), LSD for each variety group is given on the left.

Variety	Yield (bu./ac.)
A	52
B	54
C	58
LSD	5.0



Results are organized by short, medium and long season zones. CPT uses the Western Canada Canola/Rapeseed Recommending Committee (WCC/RRC) season zones, which are based on typical frost free days, growing degree days and soil type. Grey wooded soils, for example, are in the short season zone. See Table A for specific numbers for each zone.

Season	Frost Free Days	Growing Degree Days (Base 5°C)*
Short	75–95	1,100–1,450
Medium	95–115	1,450–1,700
Long	115+	1,700+

*On a base 5°C scale, growing degree days only accumulate on days when highs are above 5°C.

Small plot and field scale data are presented separately in the following tables. For more detailed performance results, growing conditions and production details for specific trial sites, use the online CPT database at www.canolaperformancetrials.ca.

The tables include yield, days to maturity, height and lodging scores for each variety. Lodging scores are between 1 and 5, with 1 being no lodging

and 5 being completely lodged.

Gross revenue is based on yield multiplied by \$11.20/bu. This is based on \$493.70 per tonne, the March 2014 futures close on October 1, 2013, and a 50-pound bushel weight. Premiums are included in the calculations for specialty market varieties.

In the tables, varieties are listed numerically and alphabetically, starting with Clearfield (CL) varieties, followed by Liberty Link (LL) and Roundup Ready (RR).

Each zone and small plot location is identified on the map above.

1. To begin, use the map above. Identify your growing season zone and trial locations closest to your farm.
2. To evaluate yield potential, look at all small plot and field scale locations in your growing season zone and the average yield for your zone.
3. Consider other information such as maturity, lodging resistance and cost. The online database at www.canolaperformancetrials.ca includes an economic calculator.
4. Ask your seed dealer for more information on specific varieties.

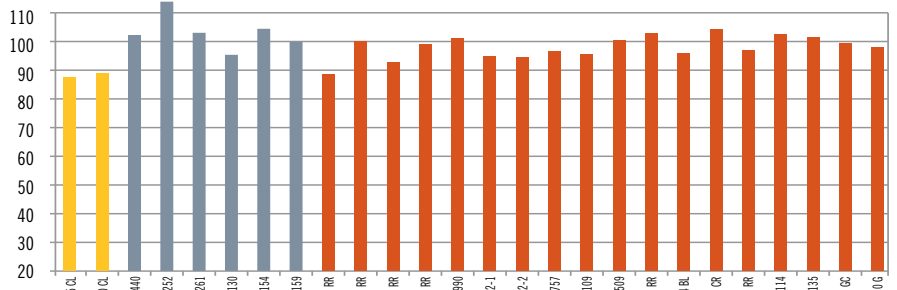
CANOLA PERFORMANCE TRIALS 2013 RESULTS

Long Season Zone: Small plot results by location

Variety	Long Season Zone				Mid Season Zone				Short Season Zone				Distributor
	Yield (BU/AC)	Days To Maturity	Lodging	Height (In.)	Yield (BU/AC)	Days To Maturity	Lodging	Height (In.)	Yield (BU/AC)	Days To Maturity	Lodging	Height (In.)	
Clearfield													
5525 CL	86.2	93.6	2.3	51.5	68.7	100.0	2.4	46.1	75.2	107.8	3.4	49.7	Brett Young
VR 9560 CL	87.3	93.1	2.8	52.1	72.0	102.3	2.9	48.9	80.3	109.7	3.9	50.2	Proven Seed/CPS
LSD	13				9.1				13				
Liberty Link													
5440	100.4	93.5	1.6	51.5	74.8	99.4	2.1	47.8	90.1	108.2	2.5	50.7	Bayer Crop Science
L252	111.9	95.0	1.9	51.0	79.4	100.6	2.5	47.6	95.6	108.9	3.0	48.7	Bayer Crop Science
L261	101.3	96.1	1.6	59.6	75.7	101.9	2.2	52.4	88.6	110.0	2.6	54.9	Bayer Crop Science
L130	93.7	93.0	1.6	51.7	72.1	98.9	2.0	47.6	88.6	106.8	1.9	49.7	Bayer Crop Science
L154	102.6	93.1	3.0	52.4	74.2	99.3	2.9	48.0	86.7	108.4	3.8	50.4	Bayer Crop Science
L159	98.2	95.3	2.0	55.0	76.5	100.0	2.3	50.0	89.8	108.5	3.0	51.9	Bayer Crop Science
LSD	14				7.0				8.6				
Roundup Ready													
73-45 RR	87.2	91.8	3.3	44.1	67.6	97.7	3.5	42.0	79.0	106.3	3.8	43.6	Dekalb
6060 RR	98.2	96.5	1.9	53.5	72.2	102.6	2.4	47.7	81.1	110.0	3.0	50.4	Brett Young
6050 RR	91.1	92.8	3.5	46.9	69.9	98.8	3.4	43.9	76.7	107.3	3.9	46.5	Brett Young
6044 RR	97.3	94.8	1.4	50.7	69.9	99.4	1.9	44.6	79.8	106.8	2.6	45.3	Brett Young
1990	99.2	92.4	2.9	50.3	73.6	100.4	2.9	45.6	82.4	109.2	3.9	46.0	Canterra
V12-1	93.1	93.0	2.1	53.5	73.8	100.3	2.3	47.0	85.9	108.9	3.9	47.5	Cargil
V12-2	93.0	96.4	1.9	51.3	69.2	101.2	2.3	45.4	75.7	108.8	3.9	46.8	Cargil
09H7757	95.0	97.0	1.8	55.0	75.1	102.5	2.2	49.9	84.4	109.3	3.9	49.7	Cargil
10DL30109	93.9	94.9	2.0	52.8	70.5	100.5	2.3	46.2	73.0	108.0	2.9	48.7	DL Seeds
10DL30509	98.6	95.9	1.4	52.0	74.6	101.5	2.0	46.0	80.4	109.6	2.8	47.2	DL Seeds
73-75 RR	100.9	92.1	3.5	48.4	71.9	99.2	3.2	44.4	75.1	106.3	3.6	44.3	Dekalb
74-44 BL	94.1	92.1	3.3	48.1	71.5	98.2	3.2	42.6	81.0	106.7	3.8	46.1	Dekalb
74-47 CR	102.3	95.6	2.9	51.4	70.1	100.5	3.0	45.6	80.7	108.4	4.0	48.5	Dekalb
74-54 RR	95.4	91.6	3.6	47.8	71.4	98.7	3.5	45.2	81.1	106.8	4.0	47.2	Dekalb
SY4114	100.6	92.1	3.1	48.0	71.7	99.2	3.1	43.8	74.9	106.3	3.9	44.4	Syngenta
SY4135	99.6	92.4	3.3	48.9	71.9	99.1	3.3	44.0	80.7	106.5	3.5	46.4	Syngenta
VR 9562 GC	97.5	93.8	2.0	53.1	72.6	99.3	2.5	47.8	82.3	107.4	3.6	52.0	Proven Seed/CPS
VT 530 G	96.1	93.0	2.0	53.0	73.2	99.7	2.2	47.7	83.3	108.1	2.9	49.2	Proven Seed/CPS
73-15 RR									74.6	104.5	4.0	44.2	Dekalb
LSD	11				6.7				9.0				

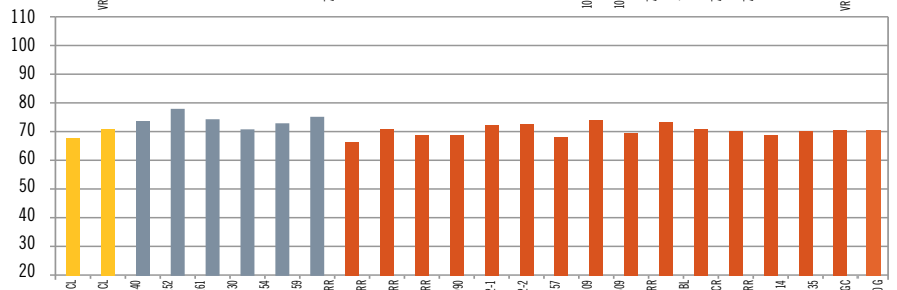
Long Season Zone: Average yield for 2 small plot sites (bu./ac.)

- Clearfield LSD: 13.0
- Liberty Link LSD: 14.0
- Roundup Ready LSD: 11.0



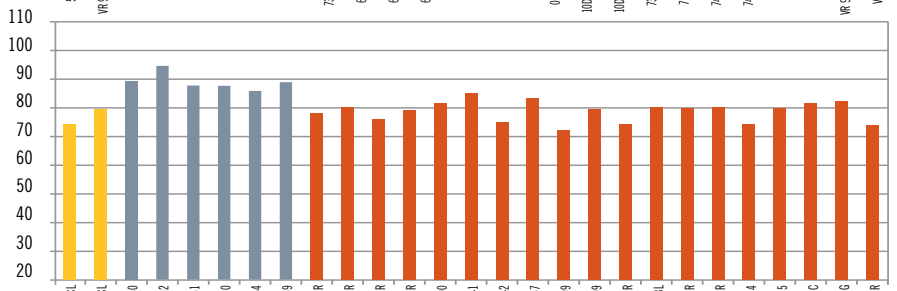
Mid Season Zone: Average yield for 14 small plot sites (bu./ac.)

- Clearfield LSD: 9.1
- Liberty Link LSD: 7.0
- Roundup Ready LSD: 6.7



Short Season Zone: Average yield for 4 small plot sites (bu./ac.)

- Clearfield LSD: 13.0
- Liberty Link LSD: 8.6
- Roundup Ready LSD: 9.0



Long Season Zone: Small plot results by location

Variety	Portage, MB					Outlook, SK				
	Yield (BU/AC)	Gross Revenue/AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/AC	Days to Maturity	Lodging	Height (In.)
Clearfield										
5525 CL	78.0	\$875	91.3	1.8	51.2	94.4	\$1,059	96.0	2.8	51.9
VR 9560 CL	80.8	\$907	89.0	2.0	49.2	93.7	\$1,051	97.3	3.5	54.9
LSD	6.7					19				
Liberty Link										
5440	96.3	\$1,081	89.8	2.0	50.2	104.5	\$1,173	97.3	1.3	52.7
L252	106.6	\$1,196	93.0	2.0	50.7	117.1	\$1,314	97.0	1.8	51.2
L261	96.2	\$1,080	95.3	2.0	59.1	106.3	\$1,192	97.0	1.3	60.2
L130	86.6	\$972	90.0	1.8	52.2	100.9	\$1,132	96.0	1.5	51.3
L154	102.4	\$1,149	90.8	2.8	51.7	102.9	\$1,154	95.5	3.3	53.2
L159	91.6	\$1,028	93.5	2.0	53.1	104.8	\$1,176	97.0	2.0	56.8
LSD	13					14				
Roundup Ready										
73-45 RR	83.1	\$932	88.8	3.3	48.7	91.2	\$1,024	94.8	3.3	39.6
6060 RR	96.3	\$1,080	94.8	1.8	51.7	100.1	\$1,123	98.3	2.0	55.3
6050 RR	87.9	\$986	91.5	3.5	47.7	94.3	\$1,058	94.0	3.5	46.1
6044 RR	95.1	\$1,067	92.8	1.5	49.7	99.5	\$1,117	96.8	1.3	51.7
1990	93.3	\$1,047	88.8	2.8	48.2	105.1	\$1,180	96.0	3.0	52.4
V12-1*	85.2	\$1,053	89.3	2.8	52.7	100.9	\$1,248	96.8	1.5	54.3
V12-2*	88.7	\$1,097	93.3	2.3	49.2	97.2	\$1,202	99.5	1.5	53.4
09H7757	89.8	\$1,008	94.3	2.0	52.7	100.2	\$1,124	99.8	1.5	57.4
10DL30109	94.1	\$1,055	93.8	2.0	51.7	93.8	\$1,053	96.0	2.0	53.8
10DL30509	99.6	\$1,118	94.0	1.3	51.7	97.5	\$1,094	97.8	1.5	52.3
73-75 RR	96.0	\$1,078	89.3	3.0	48.7	105.7	\$1,186	95.0	4.0	48.1
74-44 BL	87.8	\$985	89.0	3.0	48.7	100.4	\$1,127	95.3	3.5	47.4
74-47 CR	101.9	\$1,143	95.3	2.0	52.7	102.8	\$1,153	96.0	3.8	50.1
74-54 RR	89.5	\$1,004	88.5	3.3	46.8	101.2	\$1,136	94.8	4.0	48.8
SY4114	92.8	\$1,042	89.5	2.3	47.7	108.3	\$1,215	94.8	4.0	48.3
SY4135	90.7	\$1,018	87.8	2.8	48.7	108.4	\$1,217	97.0	3.8	49.0
VR 9562 GC	95.1	\$1,067	91.8	2.0	50.7	99.9	\$1,121	95.8	2.0	55.5
VT 530 G	90.5	\$1,016	89.8	2.5	50.7	101.7	\$1,141	96.3	1.5	55.2
LSD	9					12				
CV	7.3					8.3				

*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15MT (Alberta), \$25MT (Saskatchewan) and \$35MT (Manitoba) in addition to the price provided in the "Gross Revenue" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details.

Mid Season Zone: Small plot results by location

Variety	Aberdeen, SK					Elstow, SK					Foam Lake, SK				
	Yield (BU/AC)	Gross Revenue/AC	Days to maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/AC	Days to maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/AC	Days to maturity	Lodging	Height (In.)
Clearfield															
5525 CL	57.1	\$640	95.8	-	48.7	65.7	\$737	97.3	-	47.2	77.6	\$871	97.8	2.5	44.5
VR 9560 CL	54.4	\$610	96.0	-	54.1	68.0	\$764	97.8	-	49.2	82.9	\$930	99.0	2.3	47.0
LSD	9.5					15					2.4				
Liberty Link															
5440	65.4	\$733	95.0	-	51.9	62.0	\$696	95.8	-	48.2	89.0	\$999	97.3	2.3	49.6
L252	62.5	\$701	96.0	-	51.9	69.4	\$778	95.9	-	48.0	95.4	\$1,070	98.5	2.0	50.4
L261	63.2	\$709	95.5	-	55.1	65.0	\$730	96.8	-	51.2	86.7	\$973	101.0	2.8	53.3
L130	59.7	\$670	95.3	-	52.4	60.9	\$683	95.0	-	47.7	93.4	\$1,048	96.8	1.8	49.6
L154	59.0	\$662	94.8	-	52.4	69.1	\$775	95.8	-	46.0	92.4	\$1,037	97.3	2.5	48.8
L159	58.4	\$655	94.5	-	53.4	70.1	\$787	95.1	-	51.2	86.9	\$975	98.3	2.0	52.6
LSD	6.5					7					7.1				
Roundup Ready															
73-45 RR	58.0	\$651	95.3	-	45.8	59.8	\$671	94.8	-	44.0	82.4	\$925	95.5	4.0	39.4
6060 RR	58.3	\$654	96.3	-	51.2	62.6	\$702	98.8	-	46.8	87.6	\$983	102.8	2.8	49.2
6050 RR	58.6	\$658	96.0	-	47.7	64.4	\$723	95.4	-	47.5	85.7	\$962	96.0	3.8	46.3
6044 RR	53.9	\$605	95.8	-	48.5	58.3	\$654	95.6	-	44.0	81.8	\$918	99.0	2.5	48.0
1990	62.5	\$702	95.3	-	50.0	64.4	\$722	97.1	-	46.3	89.3	\$1,002	96.5	2.8	47.0
V12-1*	63.4	\$783	95.5	-	50.0	64.6	\$798	96.3	-	47.5	85.6	\$1,058	99.3	2.5	48.6
V12-2*	60.2	\$744	96.3	-	49.7	54.1	\$669	97.3	-	47.0	84.5	\$1,045	100.3	2.8	45.7
09H7757	65.0	\$730	96.3	-	52.9	63.2	\$709	96.8	-	48.7	89.4	\$1,003	100.8	3.0	51.6
10DL30109	55.9	\$627	95.0	-	48.7	65.4	\$734	97.3	-	47.7	80.1	\$898	97.5	3.0	46.5
10DL30509	63.2	\$709	95.5	-	50.7	62.8	\$704	96.3	-	44.8	87.1	\$977	100.8	2.5	47.8
73-75 RR	62.9	\$705	95.5	-	48.2	61.1	\$686	96.0	-	44.5	91.8	\$1,030	96.3	3.8	45.1
74-44 BL	60.4	\$677	96.0	-	47.5	58.6	\$657	95.3	-	43.8	89.9	\$1,008	96.5	3.0	44.3
74-47 CR	58.0	\$650	95.3	-	48.2	56.4	\$633	97.8	-	47.2	82.9	\$931	98.0	3.3	48.0
74-54 RR	64.3	\$722	95.0	-	48.0	60.7	\$681	95.3	-	43.8	91.3	\$1,024	96.8	3.8	47.6
SY4114	61.3	\$688	95.8	-	49.2	60.4	\$677	96.3	-	44.3	89.5	\$1,005	96.8	3.5	44.1
SY4135	60.8	\$682	95.3	-	48.0	61.3	\$688	95.9	-	46.3	86.5	\$970	96.0	3.5	44.3
VR 9562 GC	56.8	\$637	95.3	-	47.2	58.7	\$658	96.5	-	50.0	87.9	\$986	97.5	2.3	48.0
VT 530 G	58.7	\$658	96.3	-	51.7	65.7	\$738	96.3	-	50.4	91.3	\$1,025	96.8	2.3	47.2
LSD	7.4					6.1					6.6				
CV	8.3					7.4					5.5				

*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15MT (Alberta), \$25MT (Saskatchewan) and \$35MT (Manitoba) in addition to the price provided in the "Gross Revenue" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details.

Variety	Melfort, SK					North Battleford, SK					Saskatoon, SK					Scott, SK				
	Yield (BU/AC)	Gross Revenue/AC	Days to maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross revenue/AC	Days to Maturity	Lodging	Height (In.)
5525 CL	72.9	\$817	96.8	3.5	41.3	74.8	\$839	101.0	1.3	46.3	83.4	\$936	95.3	2.0	55.1	76.2	\$855	99.8	1.5	45.8
VR 9560 CL	81.1	\$910	98.8	4.3	42.8	82.4	\$925	104.3	1.3	50.7	89.9	\$1,009	97.0	3.3	54.1	81.4	\$913	101.8	2.8	47.2
LSD	4.1					3.5					14				4.1					
Liberty Link																				
5440	88.3	\$991	96.5	2.5	46.3	82.3	\$923	100.5	1.0	47.7	90.2	\$1,012	95.5	1.5	56.1	81.2	\$911	97.8	2.3	46.3
L252	89.7	\$1,006	97.5	3.0	44.8	90.4	\$1,014	101.5	1.3	48.7	98.0	\$1,099	97.3	2.5	54.6	85.5	\$959	99.3	2.3	45.8
L261	89.6	\$1,006	98.5	2.8	53.1	82.5	\$925	102.5	1.0	52.2	91.3	\$1,024	98.3	2.3	61.5	82.5	\$925	100.0	1.8	49.7
L130	88.1	\$989	96.5	2.5	47.2	80.5	\$904	98.5	1.0	49.7	83.3	\$935	94.5	1.8	51.2	78.3	\$878	96.8	2.3	45.3
L154	82.6	\$927	95.8	3.0	44.8	83.0	\$931	99.3	1.8	51.7	91.4	\$1,026	94.0	3.3	55.6	83.2	\$934	97.5	4.0	46.8
L159	92.8	\$1,041	96.5	2.5	46.3	83.2	\$934	100.3	1.0	51.7	91.7	\$1,029	97.5	2.5	52.7	83.4	\$936	98.8	2.8	47.7
LSD	7.6					7.0					7.7				5.3					
Roundup Ready																				
73-45 RR	68.9	\$773	94.0	3.8	38.4	75.0	\$841	99.0	2.5	44.3	75.7	\$849	92.3	3.5	46.8	72.4	\$813	97.5	4.3	40.8
6060 RR	79.9	\$897	98.8	3.3	44.3	79.7	\$894	104.3	1.3	50.2	83.1	\$932	98.0	2.0	52.7	80.1	\$898	104.3	2.0	47.7
6050 RR	69.7	\$782	95.8	3.5	41.3	77.8	\$873	99.0	1.8	45.3	84.9	\$953	94.3	4.0	46.8	75.5	\$847	97.0	4.8	41.8
6044 RR	82.4	\$925	95.0	1.8	42.3	73.1	\$820	99.5	1.0	44.3	75.9	\$852	94.5	1.8	50.2	75.4	\$846	98.3	1.3	42.8
1990	74.8	\$839	97.0	3.3	39.4	83.7	\$939	101.8	1.3	48.7	87.4	\$980	93.8	2.5	53.1	82.2	\$922	100.3	4.0	42.8
V12-1*	75.9	\$938	97.3	3.0	44.3	80.6	\$996	101.3	1.0	48.7	88.9	\$1,099	94.8	1.8	47.2	79.7	\$985	100.0	2.5	44.8
V12-2*	74.1	\$916	97.3	2.0	41.8	76.4	\$944	102.5	1.0	47.2	78.1	\$965	96.8	2.8	51.7	76.0	\$939	101.8	3.3	43.8
09H7757	80.7	\$905	98.5	2.3	46.3	79.4	\$891	103.5	1.0	51.2	86.2	\$968	97.0	2.0	55.1	82.1	\$921	102.0	1.8	48.7
10DL30109	79.8	\$895	96.8	3.0	42.8	74.6	\$837	102.3	1.3	48.2	77.7	\$872	95.8	1.5	51.2	79.8	\$896	101.5	2.3	46.3
10DL30509	85.1	\$955	98.0	2.5	43.3	78.4	\$880	103.0	1.0	48.7	82.0	\$920	97.0	1.5	51.2	82.8	\$929	101.3	1.3	44.8
73-75 RR	72.8	\$817	95.8	3.3	39.9	79.1	\$887	100.5	1.5	46.3	87.3	\$980	91.8	2.3	52.2	74.3	\$834	96.8	4.8	42.3
74-44 BL	70.3	\$789	94.3	4.0	36.9	78.9	\$886	98.5	2.0	44.3	88.4	\$992	93.5	3.3	47.2	76.7	\$861	97.3	3.8	41.8
74-47 CR	70.1	\$786	96.3	3.5	42.3	79.2	\$888	101.3	1.0	47.7	90.8	\$1,019	95.8	2.8	49.7	76.9	\$862	99.8	3.8	44.8
74-54 RR	71.3	\$800	95.5	3.5	39.9	80.6	\$904	98.8	2.0	48.2	86.2	\$968	92.8	3.3	52.7	81.1	\$910	96.5	4.5	43.8
SY4114	72.8	\$817	95.0	3.3	42.3	77.5	\$870	99.5	1.3	44.3	86.8	\$974	92.8	2.8	50.2	77.2	\$866	98.3	4.3	41.8
SY4135	70.2	\$788	94.3	3.5	38.9	80.5	\$903	99.3	1.8	47.2	89.9	\$1,008	94.8	3.8	49.7	75.2	\$844	97.3	3.5	41.3
VR 9562 GC	81.4	\$913	96.8	3.0	44.3	79.4	\$891	99.8	1.5	51.2	86.9	\$975	93.0	2.5	53.6	80.7	\$905	99.8	3.5	46.8
VT 530 G	79.4	\$891	97.0	3.0	41.8	82.0	\$920	100.8	1.0	52.7	90.0	\$1,010	94.5	1.8	53.6	78.6	\$882	98.0	2.0	44.8
LSD	5.8					5.6					5.6				4.5					
CV	6.1					5.7					5.1				4.0					

Variety	Swift Current, SK					Yorkton, SK					Forestburg, AB					Fort Saskatchewan, AB				
	Yield (BU/AC)	Gross Revenue/AC	Days to maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross revenue/AC	Days to Maturity	Lodging	Height (In.)
Clearfield																				
5525 CL	38.4	\$431	106.3	-	46.0	81.7	\$916	97.0	2.8	37.8	59.6	\$669	105.0	-	43.8	92.8	\$1,041	108.8	4.3	53.6
VR 9560 CL	41.1	\$461	110.0	-	50.4	94.1	\$1,056	101.8	3.5	42.3	57.1	\$641	106.0	-	47.2	93.9	\$1,053	112.5	4.3	55.1
LSD	7.1					12					13				12					
Liberty Link																				
5440	39.5	\$443	105.3	-	50.5	86.9	\$975	96.8	2.5	35.4	63.4	\$711	104.0	-	42.8	100.5	\$1,127	107.0	2.5	56.1
L252	49.0	\$550	107.8	-	47.6	97.7	\$1,096	98.0	3.0	38.6	63.6	\$714	104.0	-	45.8	107.5	\$1,206	111.3	3.8	52.2
L261	41.4	\$464	108.3	-	53.6	95.1	\$1,067	100.5	2.5	44.9	54.2	\$608	104.0	-	44.8	112.8	\$1,266	113.5	3.0	60.0
L130	39.7	\$446	106.0	-	50.7	88.5	\$993	96.0	2.0	37.0	51.8	\$581	104.0	-	42.3	96.8	\$1,086	105.3	2.8	53.6
L154	40.4	\$453	105.3	-	51.4	88.9	\$997	97.0	3.5	39.4	59.1	\$663	103.0	-	45.3	95.1	\$1,066	109.0	4.0	51.7
L159	44.7	\$502	106.0	-	54.7	95.1	\$1,067	98.0	2.8	39.8	58.8	\$659	103.0	-	46.3	111.6	\$1,252	110.5	2.8	58.1
LSD	5.7					5.0					10				8.3					
Roundup Ready																				
73-45 RR	43.9	\$492	101.5	-	44.1	72.6	\$815	91.5	3.8	31.9	61.6	\$691	103.0	-	35.4	90.7	\$1,017	105.5	5.0	49.2
6060 RR	41.4	\$465	107.5	-	52.4	76.7	\$860	100.3	3.5	39.0	57.1	\$641	103.0	-	41.3	109.9	\$1,233	115.0	2.8	53.6
6050 RR	43.9	\$492	104.0	-	46.2	82.4	\$925	94.5	3.8	34.3	60.3	\$677	103.0	-	42.1	90.2	\$1,012	109.0	4.5	46.8
6044 RR	43.4	\$487	106.5	-	45.8	82.0	\$920	97.3	2.3	36.4	61.3	\$688	103.0	-	39.9	102.0	\$1,145	107.5	2.5	51.2
1990	42.9	\$481	105.5	-	49.9	83.8	\$940	96.8	3.5	39.4	70.9	\$795	105.0	-	43.8	94.9	\$1,064	113.3	4.8	47.7
V12-1*	42.3	\$523	105.0	-	48.1	93.8	\$1,159	99.3	3.0	40.7	66.6	\$823	104.0	-	44.8	99.2	\$1,226	107.3	2.8	52.7
V12-2*	43.4	\$536	108.0	-	47.9	79.9	\$987	98.5	3.0	35.6	61.3	\$758	104.0	-	39.6	94.3	\$1,166	109.0	2.3	52.2
09H7757	46.7	\$524	106.8	-	53.1	93.6	\$1,050	101.0	3.3	40.2	69.5	\$780	107.0	-	48.0	107.3	\$1,204	112.5	2.3	55.1
10DL30109	40.2	\$451	105.5	-	47.0	75.4	\$846	98.3	2.8	38.4	60.5	\$679	104.0	-	43.8	104.0	\$1,166	109.8	2.5	50.7
10DL30509	43.1	\$484	106.5	-	46.9	82.5	\$925	98.5	2.8	36.4	66.9	\$751	105.0	-	41.8	109.6	\$1,230	113.8	2.3	51.2
73-75 RR	47.2	\$530	105.5	-	46.5	89.6	\$1,005	95.3	3.8	35.4	61.9	\$694	103.0	-	40.1	96.1	\$1,078	111.8	5.0	47.7
74-44 BL	46.4	\$520	104.0	-	45.8	85.7	\$961	94.5	3.5	34.4	63.3	\$710	104.0	-	38.9	88.7	\$995	104.5	4.3	49.2
74-47 CR	43.5	\$488	108.0	-	49.3	88.8	\$996	97.5	3.5	35.2	57.8	\$649	103.0	-	40.4	90.4	\$1,015	113.0	4.5	50.7
74-54 RR	43.8	\$491	105.8	-	47.8	86.0	\$965	95.0	4.8	35.0	53.8	\$603	104.0	-	43.1	94.9	\$1,064	107.0	4.5	49.2
SY4114	43.6	\$489	108.3	-	47.5	86.7	\$972	94.3	3.5	35.8	66.9	\$751	104.0	-	41.2	88.2	\$989	110.3	5.0	43.8
SY4135	44.9	\$503	107.5	-	45.8	81.6	\$915	95.0	4.0	36.0	66.4	\$745	104.0	-	41.8	94.2	\$1,057	108.3	4.8	48.2
VR 9562 GC	42.8	\$480	104.3	-	49.1	85.2	\$956	95.8	2.8	36.6	60.9	\$683	104.0	-	46.3	96.7	\$1,085	106.8	3.0	52.7
VT 530 G	40.8	\$458	108.3	-	49.5	88.0	\$987	96.0	2.5	37.0	61.8	\$693	104.0	-	44.3	98.6	\$1,107	107.3	2.8	53.1
LSD	5.7					5.8					6.5				12					
CV	9.1					4.7					8.9				8.5					

*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15MT (Alberta), \$25MT (Saskatchewan) and \$35MT (Manitoba) in addition to the price provided in the "Gross Revenue" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details.

Variety	Morinville, AB					Vermillion, AB					Vulcan, AB				
	Yield (BU/AC)	Gross Revenue/ AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/ AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/ AC	Days to Maturity	Lodging	Height (In.)
Clearfield															
5525 CL	56.1	\$629	101.0	2.0	40.9	79.8	\$895	98.8	2.0	49.2	46.2	\$518	100.0	-	45.3
VR 9560 CL	57.4	\$644	102.0	2.0	44.8	79.0	\$887	101.3	2.3	51.2	44.6	\$500	104.5	-	47.9
LSD	9.5					11					11				
Liberty Link															
5440	59.3	\$666	100.0	2.0	42.6	99.8	\$1,119	101.8	2.0	52.7	39.9	\$448	99.0	-	43.4
L252	58.4	\$655	100.0	2.0	43.3	100.9	\$1,133	101.0	2.5	50.7	43.5	\$488	101.0	-	43.9
L261	61.1	\$686	100.0	2.0	48.1	99.9	\$1,121	102.8	2.0	56.1	34.3	\$384	105.0	-	49.4
L130	59.8	\$671	100.0	2.0	43.2	88.0	\$987	100.5	2.0	52.7	40.4	\$453	100.0	-	44.0
L154	58.4	\$655	100.0	2.0	41.7	94.6	\$1,062	99.5	2.5	51.7	42.2	\$473	102.3	-	44.3
L159	55.0	\$617	100.0	2.0	44.3	97.3	\$1,092	101.3	2.0	55.6	42.6	\$478	99.8	-	46.5
LSD	5.7					9.6					5.2				
Roundup Ready															
73-45 RR	58.6	\$658	100.0	2.0	37.3	80.8	\$907	98.3	2.5	50.2	46.2	\$518	99.3	-	39.9
6060 RR	64.8	\$726	100.0	2.0	43.1	89.8	\$1,008	104.0	2.3	51.2	40.5	\$454	104.0	-	45.3
6050 RR	58.8	\$659	100.0	2.0	35.8	80.8	\$906	98.8	2.3	50.2	45.8	\$514	100.3	-	42.1
6044 RR	62.7	\$704	100.0	2.0	41.6	84.5	\$948	100.8	2.0	47.2	41.7	\$468	99.3	-	42.4
1990	61.5	\$690	101.0	2.0	39.2	87.2	\$979	102.0	2.5	46.3	45.0	\$505	100.5	-	44.3
V12-1*	63.6	\$786	100.0	2.0	43.4	86.7	\$1,071	103.0	2.3	52.7	43.0	\$532	101.0	-	44.1
V12-2*	66.3	\$819	100.0	2.0	40.0	79.3	\$980	102.3	2.0	51.7	41.3	\$511	102.5	-	41.6
09H7757	66.0	\$741	104.0	2.0	46.9	79.5	\$892	102.8	2.3	54.1	42.7	\$480	106.5	-	47.0
10DL30109	64.9	\$728	100.0	2.0	39.7	86.4	\$970	101.8	2.0	53.1	42.6	\$478	101.3	-	43.2
10DL30509	68.3	\$766	100.0	2.0	45.1	89.7	\$1,006	103.5	2.0	50.2	42.4	\$476	102.5	-	40.8
73-75 RR	58.6	\$658	100.0	2.0	39.7	76.3	\$856	100.0	2.8	51.2	48.0	\$539	100.8	-	42.5
74-44 BL	74.1	\$831	100.0	2.0	37.5	77.9	\$874	98.8	2.8	46.3	41.9	\$471	98.0	-	39.1
74-47 CR	62.7	\$703	100.0	2.0	41.8	79.2	\$889	100.5	2.5	49.2	45.2	\$507	101.5	-	43.4
74-54 RR	65.5	\$735	100.0	2.0	40.4	77.3	\$868	99.3	3.0	50.2	42.2	\$474	99.8	-	43.5
SY4114	60.4	\$678	100.0	2.0	39.6	85.4	\$958	98.8	2.5	47.7	46.6	\$523	99.3	-	41.5
SY4135	61.5	\$689	100.0	2.0	38.5	86.7	\$972	99.3	2.8	47.7	46.8	\$525	101.0	-	41.7
VR 9562 GC	70.4	\$789	100.0	2.0	41.4	84.8	\$952	100.5	2.0	56.6	43.4	\$487	100.3	-	44.8
VT 530 G	60.0	\$673	100.0	2.0	43.2	85.1	\$954	101.0	2.3	52.7	45.0	\$505	100.0	-	46.0
LSD	7.4					9.9					5.1				
CV	10.9					8.8					8.2				

Short Season Zone: Small plot results by location

Variety	Shellbrook, SK					Barrhead, AB					Dawson Creek, BC					Fort St. John, BC					
	Yield (BU/AC)	Gross Revenue/ AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/ AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/ AC	Days to Maturity	Lodging	Height (In.)	Yield (BU/AC)	Gross Revenue/ AC	Days to Maturity	Lodging	Height (In.)	
Clearfield																					
5525 CL	57.4	\$644	99.3	3.0	43.8	74.8	\$839	107.3	3.8	51.7	90.8	\$1,019	115.6		55.1	77.6	\$871	109.0		48.2	
VR 9560 CL	59.9	\$672	100.8	3.3	45.8	78.8	\$884	112.3	4.5	53.6	93.2	\$1,046	116.4		53.1	89.2	\$1,001	109.4		48.2	
LSD	14					14					12				11						
Liberty Link																					
5440	82.0	\$920	100.8	1.5	43.3	91.2	\$1,024	109.3	3.5	56.6	96.4	\$1,081	114.6		54.6	90.7	\$1,018	108.0		48.2	
L252	91.1	\$1,023	101.3	2.0	43.8	97.2	\$1,090	109.8	4.0	51.2	98.0	\$1,100	115.4		53.1	96.0	\$1,077	109.4		46.8	
L261	87.7	\$983	102.8	1.5	52.2	94.1	\$1,055	112.5	3.8	58.6	93.0	\$1,043	115.9		58.1	79.9	\$897	108.9		50.7	
L130	74.8	\$839	99.5	1.5	41.3	99.4	\$1,115	105.0	2.3	55.1	94.6	\$1,062	114.6		56.1	85.4	\$958	107.9		46.3	
L154	79.5	\$892	100.0	3.0	43.3	87.0	\$976	109.8	4.5	54.6	94.3	\$1,058	115.6		53.1	86.2	\$967	108.4		50.7	
L159	80.4	\$903	101.5	2.5	45.8	98.2	\$1,102	108.5	3.5	56.1	90.2	\$1,012	115.6		58.1	90.5	\$1,015	108.4		47.7	
LSD	6.6					8.9					5.9				13						
Roundup Ready																					
73-45 RR	64.5	\$723	98.8	3.5	35.9	80.3	\$901	103.3	4.0	46.8	92.0	\$1,033	115.5		49.7	79.1	\$887	107.5		41.8	
6060 RR	74.4	\$835	102.3	2.3	47.2	94.5	\$1,061	113.3	3.8	51.2	81.0	\$909	116.5		54.6	74.4	\$835	108.1		48.7	
6050 RR	74.1	\$832	100.3	3.5	44.3	80.7	\$906	105.3	4.3	49.2	83.7	\$939	115.5		46.8	68.3	\$766	108.3		45.8	
6044 RR	69.7	\$782	100.0	1.8	36.4	86.4	\$970	103.0	3.5	49.2	91.4	\$1,025	115.5		50.7	71.7	\$804	108.5		44.8	
1990	76.2	\$855	101.8	3.3	39.9	84.3	\$945	111.3	4.5	48.2	87.8	\$985	115.5		50.2	81.5	\$914	108.4		45.8	
V12-1*	79.0	\$976	100.3	3.3	39.9	90.6	\$1,120	110.3	4.5	51.7	93.3	\$1,154	115.9		52.7	80.6	\$996	109.4		45.8	
V12-2*	71.8	\$887	101.8	3.5	43.3	78.9	\$975	108.0	4.3	47.7	84.3	\$1,042	116.4		51.2	68.1	\$841	109.0		44.8	
09H7757	79.5	\$892	102.0	3.5	44.8	97.6	\$1,095	109.5	4.3	53.1	86.8	\$974	116.8		54.6	73.6	\$826	109.1		46.3	
10DL30109	64.6	\$725	101.3	3.0	42.3	84.2	\$945	107.3	2.8	50.7	76.3	\$857	115.6		54.1	67.0	\$752	108.0		47.7	
10DL30509	74.6	\$837	101.0	2.0	40.8	91.2	\$1,024	111.3	3.5	49.7	83.5	\$936	116.6		52.2	72.5	\$813	109.5		46.3	
73-75 RR	71.9	\$807	100.3	3.0	39.9	74.7	\$838	103.3	4.3	45.8	79.6	\$893	115.1		47.7	74.0	\$830	106.8		43.8	
74-44 BL	72.6	\$814	101.0	3.5	41.8	83.2	\$933	104.3	4.0	48.7	93.1	\$1,045	114.1		50.7	75.2	\$844	107.4		43.3	
74-47 CR	74.6	\$837	100.8	3.3	44.8	80.2	\$900	109.3	4.8	52.7	94.0	\$1,055	115.0		52.2	74.1	\$831	108.6		44.3	
74-54 RR	74.0	\$830	99.0	3.8	39.9	88.2	\$989	104.5	4.3	49.7	85.9	\$964	115.4		52.7	76.2	\$855	108.1		46.8	
SY4114	66.8	\$749	100.0	3.3	39.4	77.4	\$868	104.3	4.5	46.3	81.2	\$911	113.8		47.2	74.3	\$833	107.1		44.8	
SY4135	72.2	\$810	99.3	3.3	39.9	81.4	\$913	103.5	3.8	49.7	92.2	\$1,034	115.0		51.7	77.2	\$866	108.4		44.3	
VR 9562 GC	74.5	\$835	100.5	3.5	46.3	85.5	\$960	106.5	3.8	55.1	92.7	\$1,040	114.8		56.6	76.5	\$858	108.0		50.2	
VT 530 G	77.7	\$872	100.8	3.0	42.8	94.9	\$1,065	108.0	2.8	55.1	89.3	\$1,002	115.6		52.2	71.1	\$798	107.9		46.8	
73-15 RR	66.8	\$750	99.0	3.8	40.8	72.6	\$814	99.5	4.3	46.3	86.8	\$974	113.5		44.3	72.3	\$811	105.9		45.3	
LSD	8.8					10					9.0				7.7						
CV	8.3					7.9					7.8				8.9						

*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13/bu. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$11.20/bu. VR 9560 CL is eligible for pricing premiums of \$15MT (Alberta), \$25MT (Saskatchewan) and \$35MT (Manitoba) in addition to the price provided in the "Gross Revenue" column. Final premium amount will be dependent on delivery period. Contact Viterra for more details.

Field Scale Trial Yield Results

Field scale trials are managed by growers using their typical production practices. Trials are planted, swathed, harvested and, when necessary, sprayed by growers using the respective herbicide systems according to established protocols. Individual plots range from 0.5 to 1.5 acres. Results below are given as a percentage of the check, 73-75 RR. Yield in bu./ac. for 73-75 RR for each location is given in brackets at the end of each row.

Yield Results (% of check, 73-75 RR)																					
Location	Variety																				
	1990	5440	73-15 RR	73-45 RR	74-44 BL	74-47 CR	74-54 RR	L130	L154	L159	L252	L261	SV4114	SV4135	V12-1	V12-2	VT 530 G	6060 RR	73-75 RR		
Long Season Zone	102	100	-	99	102	98	101	101	100	99	108*	107*	-	-	-	-	-	97	100	(55)	
Brandon 1 MB	-	-	-	90	100	-	101	89	-	-	-	-	-	-	-	-	-	-	-	100	(55)
Brandon 2 MB	-	104	-	-	103	-	-	103	-	-	113	110	-	-	-	-	-	-	-	100	(56)
Broadview SK	-	-	-	106	109	103	108	99	-	-	-	-	-	-	-	-	-	92	100	(55)	
Cardale MB	-	109	-	-	107	-	-	107	-	-	111	113	-	-	-	-	-	-	-	100	(54)
Cranford AB	102	-	-	97	105	98	101	98	-	-	-	-	-	-	-	-	-	100	100	(76)	
Howden MB	-	-	-	99	97	-	91	101	98	-	-	-	-	-	-	-	-	-	-	100	(67)
Indian Head SK	-	94	-	-	-	-	-	98	94	94	103	99	-	-	-	-	-	-	-	101	(67)
Kennedy SK	-	-	-	108	92	-	94	-	-	-	-	-	-	-	-	-	-	-	-	100	(51)
Lampman SK	-	-	-	108	100	-	103	-	-	-	-	-	-	-	-	-	-	-	-	100	(40)
Magrath AB	-	-	-	101	103	97	104	101	-	-	-	-	-	-	-	-	-	-	-	100	(59)
Medicine Hat AB	-	99	-	96	93	95	104	114	-	-	-	-	-	-	-	-	-	98	100	(38)	
Melita MB	-	89	-	110	110	-	104	92	-	-	-	-	-	-	-	-	-	96	100	(48)	
Minto MB	-	-	-	-	106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	(44)
Neepawa MB	-	110	-	-	-	-	110	109	104	114	110	-	-	-	-	-	-	-	-	100	(58)
Ninette MB	-	-	-	104	107	-	101	-	-	-	-	-	-	-	-	-	-	-	-	100	(46)
Nobleford AB	-	95	-	-	103	-	-	98	-	-	102	99	-	-	-	-	-	-	-	100	(74)
Portage La Prairie MB	-	102	-	-	-	-	105	-	-	106	110	-	-	-	-	-	-	-	-	100	(51)
Rapid City MB	-	-	-	90	98	-	106	94	-	-	-	-	-	-	-	-	-	-	-	100	(55)
Somerset MB	-	-	-	103	106	-	100	95	100	-	-	-	-	-	-	-	-	-	-	100	(60)
St. Adolphe MB	-	100	-	-	99	-	105	-	-	106	105	-	-	-	-	-	-	-	-	100	(64)
Woodside MB	-	-	-	80	89	-	92	-	-	-	-	-	-	-	-	-	-	-	-	100	(42)
Mid Season Zone	100	102	104*	101	104*	98	103*	102	105	102	104*	103	102	98	99	97	104	93*	100	(53)	
Andrew AB	100	-	110	107	105	-	108	-	-	-	-	-	-	-	-	-	-	-	-	100	(54)
Arborg MB	92	-	-	96	102	-	105	-	-	-	-	-	-	-	-	-	-	-	-	100	(70)
Archerwill SK	-	-	-	111	109	104	-	101	-	-	-	-	-	-	-	-	-	-	-	100	(52)
Bawif AB	-	-	-	101	101	109	-	108	-	-	-	-	-	-	-	-	-	-	-	100	(52)
Blackfoot SK	-	-	-	106	113	96	111	-	-	-	-	-	-	-	-	-	-	-	-	100	(49)

Yield Results (% of check, 73-75 RR)																					
Location	Variety																				
	1990	5440	73-15 RR	73-45 RR	74-44 BL	74-47 CR	74-54 RR	L130	L154	L159	L252	L261	SV4114	SV4135	V12-1	V12-2	VT 530 G	6060 RR	73-75 RR		
Moose Jaw SK	-	105	-	-	-	-	-	106	105	106	104	102	-	-	-	-	-	-	-	100	(59)
Morinville AB	-	-	94	110	110	-	101	-	-	-	-	-	-	-	-	-	-	-	-	100	(51)
Mundare AB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105	101	-	-	-	100	(59)
Neville SK	-	-	-	98	96	86	102	-	-	-	-	-	-	-	-	-	-	-	-	100	(45)
New Norway 1 AB	-	106	-	-	107	-	-	105	-	-	107	109	-	-	-	-	-	-	-	100	(67)
New Norway 2 Ab	97	-	-	-	106	-	97	-	-	-	-	-	97	103	-	-	-	-	-	100	(61)
North Battleford SK	92	-	-	94	96	93	98	-	-	-	-	-	-	-	-	-	-	-	-	100	(49)
Ohaton AB	-	101	-	-	98	-	-	100	-	-	97	95	-	-	-	-	-	-	-	100	(64)
Peterson SK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	99	-	-	-	100	(52)
Raymore SK	-	99	-	-	101	-	-	101	-	-	103	100	-	-	-	-	-	-	-	100	(53)
Regina 1 SK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	106	-	-	-	-	100	(41)
Regina 2 SK	-	97	-	-	-	-	-	98	-	-	107	106	-	-	-	-	-	-	-	100	(46)
Rhein SK	-	-	-	98	103	105	109	113	111	-	-	-	-	-	-	-	-	-	-	100	(56)
Rivercourse AB	-	-	-	90	94	-	92	85	-	-	-	-	-	-	-	-	-	-	-	100	(53)
Rockyford SK	106	109	-	105	100	97	104	102	-	-	-	-	-	-	-	-	-	-	-	100	(71)
Rokeby SK	-	-	103	106	110	-	108	-	-	-	-	-	-	-	-	-	-	-	-	100	(42)
Rosthern SK	-	-	106	104	104	98	104	-	-	-	-	-	-	-	-	-	-	-	-	100	(49)
Sedgewick AB	-	107	-	-	-	-	-	100	100	101	104	101	-	-	-	-	-	-	-	100	(61)
Southey SK	-	-	-	103	108	-	103	95	99	-	-	-	-	-	-	-	-	-	-	100	(46)
Stewart Valley SK	-	92	-	-	-	-	-	93	-	-	99	100	-	-	-	-	-	-	-	100	(55)
Swan River MB	-	-	-	109	113	106	108	117	-	-	-	-	-	-	-	-	-	-	-	100	(59)
Vegreville 1 AB	94	-	105	115	111	-	110	107	-	-	-	-	-	-	-	-	-	-	-	100	(47)
Vegreville 2 AB	-	102	-	-	-	-	-	102	95	97	101	100	-	-	-	-	-	-	-	100	(65)
Vermilion 1 AB	106	-	107	110	111	97	101	-	-	-	-	-	-	-	-	-	-	-	-	100	(49)
Vermilion 2 AB	-	99	-	-	100	-	-	106	-	-	105	102	-	-	-	-	-	-	-	100	(72)
Vulcan 1 AB	-	-	-	92	104	-	104	98	-	-	-	-	-	-	-	-	-	-	-	100	(47)
Vulcan 2 AB	-	-	-	93	98	100	96	100	-	-	-	-	-	-	-	-	-	-	85	100	(58)
Wainwright AB	110	-	-	-	104	-	99	-	-	-	-	-	109	98	-	-	-	-	-	100	(58)

When comparing average results between varieties, consider the number of test sites for each variety. Field scale trials occasionally produce data that is above or below the expected range. If agronomic observations cannot explain these "outliers," then they are checked against the statistical limits of deviation established by the Canola Performance Trial technical committee. If the data falls outside the limits, it is removed. For more details on individual trials and for data from sites that reported after this information went to print, visit www.canolaperformancetrials.ca.

Yield Results (% of check, 73-75 RR)																					
Location	Variety																				
	1990	5440	73-15 RR	73-45 RR	74-44 BL	74-47 CR	74-54 RR	L130	L154	L159	L252	L261	SV4114	SV4135	V12-1	V12-2	VT 530 G	6060 RR	73-75 RR		
Camrose AB	99	-	102	100	98	-	100	111	-	-	-	-	-	-	-	-	-	-	-	100	(61)
Cando SK	-	-	-	100	103	99	99	95	-	-	-	-	-	-	-	-	-	-	-	100	(50)
Carbon AB	-	97	-	-	105	-	103	-	-	104	100	-	-	-	-	-	-	-	-	100	(63)
Carseland 1 AB	100	-	98	98	101	99	98	-	-	-	-	-	-	-	-	-	-	-	-	100	(73)
Carseland 2 AB	-	96	-	-	97	-	98	-	-	94	-	-	-	-	-	-	-	-	-	100	(70)
Clavet SK	-	103	-	-	-	-	107	113	105	107	111	-	-	-	-	-	-	-	-	100	(52)
Cupar SK	-	-	-	91	89	-	95	-	-	-	-	-	-	-	-	-	-	98	100	(51)	
Dalmeny SK	-	104	99	98	101	-	101	97	-	-	-	-	-	-	-	-	-	95	100	(37)	
Davidson SK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	99	98	-	-	-	100	(61)
Denzil SK	104	92	-	104	101	98	99	101	-	-	-	-	-	-	-	-	-	97	100	(54)	
Foam Lake SK	-	97	-	-	-	-	100	-	-	97	-	-	-	-	-	-	-	-	-	100	(56)
Goodeve SK	-	-	97	104	102	-	105	94	-	-	-	-	-	-	-	-	-	-	-	100	(45)
Harris SK	-	103	-	-	-	-	102	103	96	104	99	-	-	-	-	-	-	-	-	100	(50)
Humbolt SK	-	-	122	98	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	(31)
Indian Head SK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	97	94	-	-	-	100	(55)
Kamsack SK	-	119	-	-	-	-	117	110	106	117	113	-	-	-	-	-	-	-	-	100	(52)
Kenaston SK	-	-	-	89	96	98	108	104	-	-	-	-	-	-	-	-	-	89	100	(44)	
Kindersley SK	93	-	-	90	102	103	94	-	-	-	-	-	99	91	84	-	-	-	-	100	(40)
Lake Lenore SK	-	-	-	106	110	97	109	-	-	-	-	-	-	-	-	-	-	-	-	100	(48)
Langenburg SK	-	104	-	-	106	-	-	111	-	-	111	104	-	-	-	-	-	-	-	100	(52)
Langham SK	97	-	99	102	103	102	107	-	-	-	-	-	-	-	-	-	95	100	(50)		
Lavoy AB	105	-	108	107	111	-	101	-	-	-	-	-	-	-	-	-	-	-	-	100	(66)
Maidstone SK	-	-	-	105	109	100	102	-	-	-	-	-	-	-	-	-	-	-	-	100	(55)
Mannville 1 AB	-	-	110	95	114	-	103	-	-	-	-	-	-	-	-	-	-	-	-	100	(47)
Mannville 2 AB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	91	88	-	-	-	100	(47)
Margo SK	107	-	106	103	108	-	102	-	-	-											



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value midge tolerant wheat

varieties and they are committed to protecting the long-term future of the technology.

That's the overwhelming message emerging from a survey of producers who grew midge tolerant wheat on their farms in 2012, explains Todd Hyra, a member of the Midge Tolerant Wheat Stewardship Team.

Almost 93 percent of producers surveyed said it's critical to have a stewardship program in place to ensure the efficacy of the midge tolerant gene is protected.

"Producers deserve a big thank you," said Hyra, who is also business manager for SeCan in western Canada.

"They really are doing their part to preserve the technology."

According to Hyra, the percentage of producers who believe stewardship is critical to safeguarding midge tolerant technology has increased every year since the survey was first conducted in 2010.

The Midge Tolerant Wheat Stewardship Team is a broad industry coalition representing plant breeders, government, seed growers, seed distributors and producer groups.

The team is committed to maintaining the viability of midge tolerant wheat by educating western

Canadian wheat producers on the importance of proper stewardship of the technology.

It took more than 15 years and a huge financial investment for researchers to move a single gene for midge tolerance, Sm1, into spring wheat varieties to protect plants against the orange blossom wheat midge.

"We've talked to a lot of producers who are realizing the incredible value of not having to be out in their fields scouting and spraying for midge," said Hyra.

There's also early evidence to suggest that midge tolerant varieties are playing a role in reducing midge pressure.

Over the last 20 years, northeastern Saskatchewan has been the hotbed of midge pressure, but levels have declined in this area over the past two years.

"It could be a cycle, but there is evidence that for producers planting midge tolerant varieties, reduced spraying is having a positive impact on beneficial parasitic wasps, which work to keep midge populations in check," said Hyra.

"Midge tolerance and beneficial insects are packing a pretty strong one-two punch."

The Midge Tolerant Wheat Stewardship Team will be working again this year to increase awareness of the need for technology stewardship, explains

Mike Espeseth, communications manager for the Western Grains Research Foundation (WGRF).

"There really is no Plan B," he said.

"The midge tolerant varieties we have now are dependent on the Sm1 gene and so will future varieties. That's why it's so important to protect the technology for the future."

In the next few years, producers will gain access to many new strong-performing wheat varieties with midge tolerance.

Notable among new products in the pipeline is the first-ever midge tolerant durum wheat.

Hyra notes that significant midge pressure in the Peace River area in 2013 is yet another reason to safeguard midge tolerant technology.

Some fields in the Peace River region were devastated, with reports of yield losses in the 50 percent range.

"There have been hints of the pest in the past, but not to this level," Hyra said.

"Midge really wasn't on the radar for producers in Peace River last year."

That's about to change.

For the 2014 season, midge tolerant varieties will be freighted into the region.

In the longer term, local seed growers will start to produce seed that will help control the midge population. ♦



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Results of Agriculture Canada 2013 Variety Request for Proposals

Agriculture and Agri-Food Canada (AAFC) would like to thank the companies that submitted proposals to commercialize pedigreed seed of AAFC varieties under the 2013 Request for Proposal.

Based upon marketing and production strategies, marketing experience and financial offer, our evaluation committee has selected the following proposals:

Results of Request for Proposals 2013

VARIETY	COMPANY (AWARDED LICENSE RIGHTS)
AT05 Alfalfa	Northstar Seed
BW462 Canada Western Red Spring Wheat	Alliance Seed Corp.
GP097 General Purpose Wheat	Canterra Seeds
HW027 Canada Western Hard White Wheat	SeCan Association
HY1603 Canada Prairie Spring Wheat	Canterra Seeds
HY1615 Canada Prairie Spring Wheat	Alliance Seed Corp.
LRC 3902 Sainfoin	Northstar Seed
OA11306-1 Covered Spring Oat	Semican Inc.
OA1262-1 Covered Spring Oat	William Houde Ltée
OT09-03 Oilseed-type Soybean	Sevita International Corp.
SF 2401 Alfalfa	La Coop fédérée
SFB 9600 Bromegrass	Quality Seeds Ltd.
SFD200102 Orchardgrass	William Houde Ltée

Varieties listed on the right and marked with an asterisk will be offered again through the 2014 RFP process. Information on varieties that were offered through the 2013 Request for Proposals process can be viewed on line at <http://bit.ly/1dw27VL>

No proposals were received/ accepted for the following lines:

- ACUG 10-B1 Black Bean
- *ACUG 10-B3 Black Bean
- ACUG 10-D3 Dark Red Kidney Bean
- *AW687 Eastern Hard Red Spring Wheat
- *AW725 Eastern Hard Red Spring Wheat
- *BA83-EC-8 Eastern Hard Red Spring Wheat
- *BA83-EC-9 Eastern Hard Red Spring Wheat
- CH0611 Mung Bean
- CH0616 Mung Bean
- FP2308 Flax
- GN13-10-1 Great Northern Bean
- HR202 Cranberry Bean
- HR206 Navy Bean
- MP1891 Yellow Pea
- MP1894 Yellow Pea
- MP1898 Yellow Pea
- *MP1918 Yellow Pea
- *OA1285-1 Covered Spring Oat
- OT08-05 Natto Soybean
- OX-112 Tofu Soybean
- *OX-122 Tofu Soybean
- *OX-123 Tofu Soybean
- *SFB 9801 Bromegrass
- SFD9601 Orchardgrass
- SR47-3-3 Small Red Bean
- *TR10214 Two-Row Malting Barley

Canadian Grain Commission - Deregistrations

The following crop varieties are scheduled to be deregistered or reclassified.

Variety name: Falcon

Crop type: Wheat

Class: Canada Western Red Winter
Explanation of change / cancellation:
Falcon (CWRW) will be moved to the Canada Western General Purpose (CWGP) class on Aug. 1, 2014.

Variety name: Sceptre

Crop type: Durum wheat

Class: Canada Western Amber Durum (CWAD)
Explanation of change / cancellation:
Registration for Sceptre (CWAD) will be cancelled on Oct. 24, 2014.

Variety name: Plenty

Crop type: Durum wheat

Class: Canada Western Amber Durum (CWAD)
Explanation of change / cancellation:

Registration for Plenty (CWAD) will be cancelled on Aug. 1, 2015.

Wheat varieties in the following list have been designated to the Canada Western Hard White Spring (CWHWS) wheat class. (List amended Nov. 15, 2013)

- AAC Iceberg
- AAC Whitefox
- CDC Whitewood
- Kanata
- Snowbird
- Snowstar
- Whitehawk

Wheat varieties in the following list have been designated to the Canada Western Amber Durum (CWAD) wheat class. (List amended Nov. 15, 2013)

- AAC Current
- AAC Raymore
- AAC Marchwell
- AC Avonlea
- AC Melita
- AC Morse
- AC Navigator
- Brigade
- CDC Desire
- CDC Fortitude

- CDC Verona
- CDC Vivid
- Commander
- Eurostar
- Enterprise
- Kyle
- Napoleon
- Plenty
- Sceptre
- Strongfield
- Transcend (formerly DT801)
- Wakooma
- Wascana

Wheat varieties in the following list have been designated to the Canada Western General Purpose (CWGP) wheat class. (List amended Nov. 15, 2013)

- AAC Proclaim
- AAC Innova
- Accipiter
- Broadview
- CDC Clair
- CDC Harrier
- CDC Kestrel
- CDC NRG003
- CDC Primepurple
- CDC Ptarmigan
- CDC Raptor
- Minnedosa
- NRG010
- Pasteur
- Peregrine
- Pintail
- Sunrise
- Swainson

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Variety Registration Report

The list below contains information on new crop varieties registered between Nov. 1, 2012 and Nov. 1, 2013.

CROP KIND	VARIETY NAME	EXPERIMENTAL NUMBER	REGISTRATION STATUS	REGISTERED DATE
BARLEY, SIX-ROW SPRING				
	AMISK	BT 593, M98206002	National Registration	5/30/2013
BARLEY, TWO-ROW				
	CANMORE	TR10694, J02039005	National Registration	5/30/2013
BEAN, PINTO				
	CDC MARMOT	2537-12	National Registration	8/22/2013
BRASSICA JUNCEA, HYBRID, CANOLA QUALITY				
	VT X121 CL	HJM1Z-1034	Contract Registration	2/18/2013
BRASSICA NAPUS, HYBRID CANOLA				
	08H0004	08H0004	National Registration	4/10/2013
	09H7757	09H7757	National Registration	6/20/2013
	1999	G99402	National Registration	12/4/2012
	6044 RR	11DL30103	National Registration	7/11/2013
	74-44 BL	G98689	National Registration	12/4/2012
	74-47 CR	G08039	National Registration	12/4/2012
	74-54 RR	G09149	National Registration	5/23/2013
	CE216910H	216910, CE216910H	Contract Registration	4/11/2013
	CE216911H	216911, CE216911H	Contract Registration	4/11/2013
	L140P	1CN0011	National Registration	6/20/2013
	L160S	1CN0195	National Registration	6/20/2013
	L252	1CN0181	National Registration	6/20/2013
	L261	1CN0053	National Registration	6/20/2013
	SY4114	G13109	National Registration	4/10/2013
	SY4135	G99396	National Registration	1/10/2013
	V12-2	09H6030	National Registration	6/20/2013
	VR 9561 GS	10N233R	National Registration	4/10/2013
	VR 9562 GC	10N944R	National Registration	4/10/2013
	VT 530 G	VT-TL 10-1347	National Registration	4/10/2013
BRASSICA NAPUS, RAPESEED				
	HYHEAR 1	MSL59900C NHT x	Contract Registration	4/11/2013
FABABEAN				
	CDC SNOWDROP	FB34-2	National Registration	12/12/2012
	CDC SSNS-1	SSNS-1	National Registration	5/8/2013
FLAX				
	CDC NEELA	RRHR8706	National Registration	4/29/2013
	WESTLIN 70	VT2325, FP2325, 06-61-F6-	National Registration	6/17/2013
	WESTLIN 71	FP2347, 06-44-F7-368	National Registration	5/2/2013
LENTIL				
	CDC GREENSTAR	3339-3	National Registration	12/20/2012
	CDC KR-2	IBC 597	National Registration	5/30/2013
	CDC MARBLE	3494-6	National Registration	12/20/2012
	CDC QG-2	3305-7	National Registration	5/16/2013
OAT				
	AAC JUSTICE	OT2084, 06Mn25-AP1,	National Registration	10/15/2013
	CDC RUFFIAN	OT3054, SA070923	National Registration	2/18/2013
ORCHARDGRASS				
	STEELHEAD	PX4	National Registration	4/10/2013
PEA, YELLOW				
	AAC ARDILL	MP1892	National Registration	6/6/2013
	AAC BARRHEAD	MP1900	National Registration	5/30/2013
	AAC LACOMBE	MP1899	National Registration	5/30/2013
WHEAT, DURUM				
	AAC CURRENT	DT813	Regional Registration	2/7/2013
	AAC MARCHWELL	DT833 (tested for varietal)	Regional Registration	10/17/2013
	AAC RAYMORE	DT818	Regional Registration	2/7/2013
	CDC DESIRE	DT561, D02X.68.6B	Regional Registration	12/12/2012
WHEAT, SPRING				
	5605HR CL	BW918 (03S2057-1)	Regional Registration	6/17/2013
	AAC BRANDON	BW932, B0313-CK03Z	Regional Registration	4/23/2013
	AAC CHIFFON	SWS408, 389-S76	Regional Registration	4/12/2013
	AAC ELIE	BW931, B0313-CK03W	Regional Registration	4/23/2013
	AAC ICEBERG	HW021, 00V22-BC1C	Regional Registration	1/15/2013
	AAC INNOVA	GP47, 07EB14	Regional Registration	4/12/2013
	AAC PROCLAIM	GP80, SWS416	Regional Registration	1/10/2013
	AAC RYLEY	HY1312, C0302-GB26E	Regional Registration	4/23/2013
	AAC WHITEFOX	HW027, 04V15B-BP5E	Regional Registration	6/18/2013
WHEAT, WINTER				
	AAC GATEWAY	W478, LG813	Regional Registration	11/1/2012
	CDC CHASE	DH01-28-137	Regional Registration	6/3/2013
	EMERSON	W454, LF1313	Regional Registration	11/1/2012
	SWAINSON	DH01-25-135*R	Regional Registration	2/7/2013

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Prairie Grain Development Committee 2013 Recommendations

The Prairie Grain Development Committee (PGDC), formerly known as the Prairie Registration Recommending Committee for Grain (PRRCG), facilitates the exchange of information relevant to the development of improved cultivars of grain crops for the Canadian Prairies. In 2013, the committee recommended the following lines for registration.

Barley

BT593 – (Registered as Amisk) Six row general purpose barley proposed by J.M. Nyachiro, J.H. Helm, P. Juskiw, K. Xi and T.K. Turkington. Affiliation: Field Crop Development Centre, ARD, Lacombe, Alta.

TR10124 - Two row malting barley proposed by A.D. Beattie, B.G. Rosznagel and T. Zatorski. Affiliation: University of Saskatchewan, Crop Development Centre, Saskatoon, Sask.

TR10214 - Two row malting barley proposed by W.G. Legge. Affiliation: Brandon Research Centre, AAFC, Brandon, Man.

TR10694 - (Registered as Canmore) Two row malting barley proposed by P. Juskiw, J.M. Nyachiro, J.H. Helm, Y. Kabeta, K. Xi, and T.K. Turkington. Affiliation: Field Crop Development Centre, ARD, Lacombe, Alta.

TR11698 - Two row malting barley proposed by P. Juskiw, J. Helm, J. Nyachiro, Y. Kabeta, K. Xi, and T. K. Turkington. Affiliation: Field Crop Development Centre, ARD, Lacombe, Alta.

HB11316 - Two row hullless barley proposed by A.D. Beattie, B.G. Rosznagel and T. Zatorski. Affiliation: University of Saskatchewan, Crop Development Centre, Saskatoon, Sask.

Beans

L09PT129 - High yielding, early maturing pinto bean adapted to the southern areas of Alberta and Saskatchewan. L09PT129 is higher yielding compared to the check Winchester and similar to the check AC Island. It is significantly earlier maturing than the checks, four days earlier than Winchester and three days earlier than AC Island. With an upright growth habit, L09PT129 has significantly better lodging resistance compared to Winchester and AC Island. L09PT129 has similar white mould incidence and severity to Winchester but significantly lower ratings than AC Island. Developed by Agriculture and Agri-Food Canada (AAFC), Lethbridge, Alta.

L08GN743 - High yielding great northern bean line with a large seed size. This great northern bean line is adapted to the growing areas of southern Alberta and Saskatchewan. L08GN743 is similar in yield to the check AC Resolute, while maturing three days earlier than AC Resolute. L08GN743 has an upright growth habit and lodging resistance similar to AC Resolute. The line's seed weight is significantly larger compared to AC Resolute. The ratings for L08GN743 for white mould incidence and severity were similar to AC Resolute. Developed by Agriculture and Agri-Food Canada (AAFC), Lethbridge, Alta.

2918-25 - High yielding, determinate navy bean line with maturity similar to the check Envoy. Due to its later maturity, which is similar to Envoy, this line would probably be best for the longer season regions of eastern Saskatchewan and into western Manitoba. Over seven

station years, 2918-25 yielded 117 percent of the check Envoy. The line has better pod clearance and lodging scores than Envoy. It is susceptible to anthracnose races 73 and 105. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

2921-14 - Black bean line featuring high yield, early maturity and fewer 'stone' seeds than the check CDC Jet. This line is slightly earlier maturing than CDC Blackcomb and much higher yielding so would be good for production in Saskatchewan where the other black beans are too late maturing (e.g. CDC Jet, Carman Black and Eclipse). 2921-14 yielded 129 percent of the black bean check, CDC Jet over an average of seven station years. 2921-14 is earlier maturing than the check CDC Jet, with good pod clearance and good lodging scores similar to the check. This line is susceptible to races 73 and 105 of the anthracnose pathogen as is the check CDC Jet. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

Canarygrass – Annual

C08054 - High yielding glabrous annual canarygrass line. It is adapted to the annual canarygrass growing regions of western Canada. C08054 yielded higher than other glabrous canarygrass check varieties, on average, 27.1 percent higher than CDC Maria, 6.3 percent higher than CDC Bastia and 15.3 percent higher than CDC Togo over 14 station years in Saskatchewan. C08054 is later heading (two days) and later maturing (three to four days) and taller (five to eight centimetres) relative to the three check cultivars. C08054 has a slightly higher test weight than the checks and a seed mass similar to the check variety CDC Togo. Developed by the Crop Development Centre, University of Saskatchewan.

Fababean

SSNS-1 - Small-seeded, coloured flower faba bean with some shattering resistance developed for a green manure or bird feed market. It is not considered a replacement for any of the currently registered cultivars. SSNS-1 is suited for growing in Western Canada. SSNS-1 has a small seed size, 17 percent smaller than Outlook, as well as being smaller than more recently commercialized varieties CDC Fatima and Snowbird. SSNS-1 has some ascochyta resistance. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

Flax

FP2338 - Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

FP2344 - Viterra. Regina, Sask.

FP2347 - (Registered as WestLn 71) Viterra. Regina, Sask.

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Lentils

3959-6 - High yielding, red cotyledon lentil acceptable for the extra small dehulled red lentil market. The yield of 3959-6 is higher than both CDC Maxim and CDC Rosetown. The seed thickness of 3959-6 is greater than that of CDC Rosetown, the extra small red check. 3959-6 has similar maturity, flowering and lodging resistance compared to checks. The line also has similar disease ratings compared to checks. 3959-6 is not tolerant to imidazolinone herbicides. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

IBC 507 - Imidazolinone tolerant, red cotyledon lentil with a tan colour seed coat giving it a specific market identity. The yield of IBC 507 is below that of CDC Maxim but higher than CDC Impala. Its seed type is acceptable for the extra small, dehulled red lentil market, with a lower seed weight and diameter than CDC Impala. IBC 507 is earlier maturing than CDC Impala. The line has similar ascochyta rating compared to checks. IBC 507 has an anthracnose resistance rating below that of CDC Impala, but improved resistance compared to CDC Maxim. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

IBC 479 - Imidazolinone tolerant, red cotyledon lentil. The yield of IBC 479 is similar to that of the check CDC Maxim. As IBC 479 is later maturing than CDC Maxim, it is more suited to the southern regions of the lentil production zone. IBC 479 has a greater seed weight and diameter than CDC Maxim, making the seed type suitable for segments of the small red cotyledon lentil market. IBC 479 is taller than CDC Maxim, with similar yield, disease ratings and lodging. The anthracnose resistance rating for IBC 479 is below that of CDC Invincible. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

IBC 597 - The world's first large red cotyledon lentil with imidazolinone tolerance. The yield of IBC 597 was 92 percent of CDC Maxim over 14 station years. Seed characteristics, plant characteristics and disease resistance profiles of IBC 597 are similar to the variety CDC KR-1. This line represents a useful addition to the large red cotyledon market class, which is gaining consumer acceptance in markets for whole and dehulled lentils. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

IBC 586 - The world's first green cotyledon lentil with imidazolinone tolerance. The yield of IBC 586 is significantly lower than the check CDC Maxim, which is a small red, but similar to the recently commercialized variety CDC QG-1, which is a specialty green cotyledon lentil. Seed characteristics, plant characteristics and disease resistance profiles of IBC 586 are similar to those of CDC QG-1. IBC 586 represents a useful addition to the specialty green cotyledon market class, which is gaining consumer acceptance in markets for whole and dehulled lentils. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

Mustard

YM06-P0M - Agriculture and Agri-Food Canada (AAFC), Saskatoon, Sask.

YM08-YCMO - Agriculture and Agri-Food Canada (AAFC), Saskatoon, Sask.

Oats

OT2084 - Milling oat proposed by J.W. Mitchell Fetch, P.D. Brown, J. Chong, N. Ames, T.G. Fetch, S.M. Haber, J. Menzies, A. Tekauz, K. Stadnyk, D. Green. Affiliation: Cereal Research Centre, Agriculture and Agri-Food Canada, Winnipeg, Man.

OT3061 - Milling oat proposed by A.D. Beattie, B.G. Rossnagel and T. Zatorski. Affiliation: University of Saskatchewan, Crop Development Centre, Saskatoon, Saskatchewan.

OT8003 - Milling oat proposed by J.W. Mitchell Fetch, S.L. Fox, and M. Entz. Affiliation: Cereal Research Centre, Agriculture and Agri-Food Canada, Winnipeg, Manitoba.

Peas

MP1880 - Green cotyledon pea with good yield potential, 16 percent higher than CDC Striker and 10 percent higher than Cooper over 20 station-years. MP1880 is shorter than the check varieties CDC Striker and Cooper, although it has higher lodging scores than the checks. The seed of MP1880 is less spherical than the seed of CDC Striker, but similar shape to Cooper. MP1880 has a similar bleaching rating and green color intensity to the check Cooper. MP1880 is powdery mildew resistant. Developed by Agriculture and Agri-Food Canada (AAFC), Lacombe, Alta.

MP1918 - High yielding yellow cotyledon pea with good lodging resistance. MP1918 yield is nine percent higher than Agassiz and 11 percent higher than CDC Golden over 19 station-years. The lodging resistance rating for MP1918 is significantly better than either of the check varieties. The line is similar in maturity to the check variety Agassiz, and three days later than the check variety CDC Golden. MP1918 is powdery mildew resistant. Developed by Agriculture and Agri-Food Canada (AAFC), Lacombe, Alta.

LN 4228 - Early maturing, large seeded, yellow cotyledon field pea with good lodging resistance and good protein content. This line yields similar to the average of the check varieties Agassiz and CDC Golden. LN 4228 is powdery mildew resistant. Developed by Limagrain Nederland BV, The Netherlands.

2847-21 - Yellow cotyledon, semi-leafless field pea with improved yield — 114 percent — compared to the mean of the yellow checks, CDC Golden and Agassiz. The line has good lodging resistance, better than the checks, while providing increased competitiveness with a medium vine length, longer than the checks. 2847-21 has a low seed coat breakage percent, similar to CDC Golden, slightly less than Agassiz and a round seed shape, similar to the checks. The line has powdery mildew resistance, fair mycosphaerella blight resistance, similar to the checks and fair fusarium wilt resistance, similar to the checks. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

2950-19 - High yielding, medium maturity yellow cotyledon field pea. 2950-19 yielded 111 percent compared to the mean of the yellow checks, CDC Golden and Agassiz, over 19 station years. It has significantly better lodging resistance than the checks, and has a slightly longer vine length than the checks. 2950-19 has a maturity rating one day later than Agassiz and three days later than CDC Golden. 2950-19 is powdery mildew resistant, with fair mycosphaerella blight resistance, similar to the checks, and fair fusarium wilt resistance, similar to the checks. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

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Wheat

- BW462** - Canada Western Red Spring (CWRS) wheat.
Developer / sponsor: Cereal Research Centre, Agriculture and Agri-Food Canada, Winnipeg, Man.
- BW947** - Canada Western Red Spring (CWRS) wheat.
Developer / sponsor: University of Alberta.
- PT584** - Canada Western Red Spring (CWRS) wheat.
Developer / sponsor: Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.
- PT765** - Canada Western Red Spring (CWRS) wheat.
Developer / sponsor: University of Alberta.
- HW027** - Canada Western Hard White Spring (CWHWS) wheat. Developer / sponsor: Cereal Research Centre, Agriculture and Agri-Food Canada, Winnipeg, Manitoba.
- HY995** - Canada Prairie Spring Red (CPSR) wheat. Developer / sponsor: Syngenta.
- HY1319** - Canada Prairie Spring Red (CPSR) wheat.
Developer / sponsor: Semi-Arid Prairie Agricultural Research Centre (SPARC), Agriculture and Agri-Food Canada, Swift Current, Sask.
- HY1610** - Canada Prairie Spring Red (CPSR) wheat.
Developer / sponsor: Cereal Research Centre, Agriculture and Agri-Food Canada, Winnipeg, Man.
- HY1615** - Canada Prairie Spring Red (CPSR) wheat.
Developer / sponsor: Cereal Research Centre, Agriculture and Agri-Food Canada, Winnipeg, Man.
- DH01-28-137** - Canada Western Red Winter (CWRW) wheat.

- Developer / sponsor: University of Saskatchewan.
- GP087** - Canada Western General Purpose (CWGP) spring wheat. Developer / sponsor: Syngenta.
- GP097** - Canada Western General Purpose (CWGP) spring wheat. Developer / sponsor: Semi-Arid Prairie Agricultural Research Centre (SPARC), Agriculture and Agri-Food Canada, Swift Current, Sask.
- WFT603** - Canada Western General Purpose (CWGP) spring wheat. Developer / sponsor: Western Feed Grain Development Co-op.
- DT570** - Canada Western Amber Durum (CWAD) wheat. Developer / sponsor: Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.
- DT832** - Canada Western Amber Durum (CWAD) wheat. Developer / sponsor: Semi-Arid Prairie Agricultural Research Centre (SPARC), Agriculture and Agri-Food Canada, Swift Current, Sask.
- DT833** - Canada Western Amber Durum (CWAD) wheat. Developer / sponsor: Semi-Arid Prairie Agricultural Research Centre (SPARC), Agriculture and Agri-Food Canada, Swift Current, Sask.

Triticale

- T218** - Spring triticale. Developer / sponsor: Seed-Link.
- T219** - Spring triticale. Developer / sponsor: Seed-Link.

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6056 CR	6040 RR	
6050 RR	5535 CL	

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Saskatchewan Pedigreed Seed Growers

Directory of Crop Varieties

This list was prepared by the Canadian Seed Growers Association. It includes varieties eligible for sale in Canada and seed crops issued certificates as of Nov. 1, 2013. CSGA assumes no responsibility for errors or omissions.

The pedigreed class code is listed after the grower's phone number. S = Select; F = Foundation; R = Registered; C = Certified.

ALFALFA

3010									
Marchildon, Vince & Daniel	Zenon Park	(306)-767-2455	C			Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	C
4010BR						Ostafie, Dave & Robert	Canora	(306)-563-6244	R
Gourley, Bruce D.	Watson	(306)-287-3127	C			Pastl, Glenn A.	Watson	(306)-287-4243	C
ALGONQUIN						Pratchler, John & Leander	Muenster	(306)-682-3317	C
Ag Vision Seeds Ltd.	Carrot River	(306)-768-3335	C			Rempel, Blair Allan	Nipawin	(306)-862-3573	C
Aitken, Robert	Eyebrow	(306)-759-2700	C			Seidle, E., B., C. & M.	Medstead	(306)-342-4377	R C
Bueckert, Phil	Eyebrow	(306)-759-2076	C			Sperle, Bentley D. & Jody	Unity	(306)-228-3160	R
LeBras, Mart & Evan	Arborfield	(306)-769-8506	C			Stokke, Shane T.	Watrous	(306)-946-4044	C
Weighill, William A.	Carrot River	(306)-768-3560	C			Trowell, Kenneth, Larry & Nathan	Saltcoats	(306)-744-2687	R C
Wildeman, Maurice Don	Lanigan	(306)-365-4395	C			Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984	R
EVERMORE						Wiens, Brennan R.	Herschel	(306)-377-2002	C
Meier, Garry L.	Ridgedale	(306)-277-2110	C			Woroschuk, Andrew	Calder	(306)-742-4682	C
PHABULOUS						Wylie, Leslie Dale	Biggar	(306)-948-2807	R
Lalonde, Lucien	Tisdale	(306)-767-2650	C			Youzwa, Donald	Nipawin	(306)-862-5690	R C
Meier, Garry L.	Ridgedale	(306)-277-2110	C			Zwingli, James Trent & Shelley	Melfort	(306)-752-4224	C
VISION						AC RANGER			
Nicklen, Jared	Carrot River	(306)-768-3136	C			Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	C
						Cay, Randy D.	Kinistino	(306)-864-3696	C
						AC ROSSER			
						Allan, Raymond N. & Ruth	Corning	(306)-224-4666	C

BARLEY

AAC SYNERGY									
Syngenta Canada Inc.	Melfort	(306)-752-5397	F R			BENTLEY			
AC METCALFE						Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	R
Berscheid, K. N, B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	R			Mayerle, Erwin D.	Tisdale	(306)-873-4261	C
Beuker, Allan Daniel	Melfort	(306)-752-4810	C			Pederson, Lorne Robert	Archerwill	(306)-323-4240	F C
Bodnaryk, John E.	Rhein	(306)-273-4263	C			Pfeifer, Robert G.	Lemberg	(306)-335-2532	R
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	(306)-342-2058	C			Wylie, Leslie Dale	Biggar	(306)-948-2807	C
Boyd, Clare W. & Dale A.	Melfort	(306)-752-2108	C			BRAHMA			
Edmunds, Greg & Glen	Tisdale	(306)-873-5480	C			Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S F
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis	(306)-528-2140	R			CDC AUSTENSON			
Etter, James Raymond	Richardson	(306)-757-1136	C			Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	S F C
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	C			Buziak, Ronald Charles	Mayfair	(306)-445-6556	R
Fraser, Scott & Shawn	Pambrun	(306)-741-0475	C			Dutton, David H. & George	Paynton	(306)-895-4306	C
Frederick, Blaine	Watson	(306)-287-3977	C			Ennis, Garnet & Neil	Glenavon	(306)-429-2793	S C
Fritzler, Baine A., Brenda D. & Adam A.	Govan	(306)-484-2010	R			Fedoruk, Michael J.	Kamsack	(306)-542-4235	C
Gaertner, Lyle	Tisdale	(306)-873-4936	C			Goossen, Mathew	Stenen	(306)-548-4760	C
Girodat Seeds Ltd.	Shaunavon	(306)-297-2563	C			Larsen, Lyle L.	Aylsham	(306)-862-7333	F
Hardy, Allan W., Dale & Evan	Grenfell	(306)-697-3128	C			Palmier, Maurice & Jason	Lafleche	(306)-472-5917	C
Heavin, G. Harvey & G. Ryan	Melfort	(306)-752-4171	C			Tebbutt, Gregg	Nipawin	(306)-862-9730	R
Hleck, Lloyd G.	Nipawin	(306)-862-2155	C			Trawin Seeds	Melfort	(306)-752-4060	S C
Jones, Bradley & Wanda	Wadena	(306)-338-2381	C			Van Burck, Hans & Marianne	Star City	(306)-863-4377	S F C
Kasko, F. John	Prince Albert	(306)-764-2875	C			CDC CARTER			
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S C			Pender, Joseph M.	Saskatoon	(306)-374-4933	F
Luck, Lorne C. & Landis	Tisdale	(306)-873-4111	C			CDC COALITION			
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	S R			Clancy, Kenneth	Carrot River	(306)-768-2902	C
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	C			CDC COPELAND			
Maslin, Jackson G. & Greg. D.	Archerwill	(306)-323-4904	C			Berscheid, K. N, B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	R
Medernach, Louis J. & Kim L.	Cudworth	(306)-256-3398	C			Carlson, Herbert E. P. & Leslie	Buchanan	(306)-592-4449	C
Novak, Orrin	Kuroki	(306)-338-2021	R			Denis, Michel P. & Marc	St. Denis	(306)-258-2219	C
Nystuen, David G.	Spalding	(306)-872-2183	S F R			Edmunds, Greg & Glen	Tisdale	(306)-873-5480	R
						Frederick, Blaine	Watson	(306)-287-3977	C

Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Eloise	(306)-378-4839		
Gellner, Clayton S.	Southey	(306)-726-4323		
Heavin, Larry N. & L. Warren	Melfort	(306)-752-4020	F	R
Heggie, Kyle Robert	Leross	(306)-675-4920		
Hetland, Bill	Naicam	(306)-874-5694		
Johnson, Oscar Stuart & Lee Stuart	Margo	(306)-324-4315		
Kennett, Brian Guy	Manor	(306)-448-4813		
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843		
Mayerle, Erwin D.	Tisdale	(306)-873-4261		
McCarthy, Richard J. & Brent	Corning	(306)-224-4848		
Medernach, Louis J. & Kim L.	Cudworth	(306)-256-3398		
Murray, Ross	Young	(306)-259-4982		
Novak, Orrin	Kuroki	(306)-338-2021		
Redman, Wayne G. & Collin M.	Margo	(306)-324-4235		
Rude, Stanley	Naicam	(306)-874-2359		
Rugg, Barry C. & Robert B.	Elstow	(306)-257-3638		
Sandercock, Eric M.	Balcarres	(306)-334-2958		
Seidle, E., B., C. & M.	Medstead	(306)-342-4377	F	C
Shewchuk, Stan, Lorne, Terry, Adam & Michael	Blaine Lake	(306)-497-3503		
Trawin Seeds	Melfort	(306)-752-4060		
Trowell, Kenneth, Larry & Nathan	Saltcoats	(306)-744-2687	F	R
Van Burck, Hans & Marianne	Star City	(306)-863-4377	S	F
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984		
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811		
Woroschuk, Andrew	Calder	(306)-742-4682		
Wylie, Leslie Dale	Biggar	(306)-948-2807		
Zwingli, James Trent & Shelley	Melfort	(306)-752-4224		

CDC COWBOY

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	S	F
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235		
Sorgard, Graham	Churchbridge	(306)-896-2236		
Van Burck, Hans & Marianne	Star City	(306)-863-4377		

CDC FIBAR

Hetland, Bill	Naicam	(306)-874-5694	R	C
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CDC HILOSE

Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	F	
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CDC KINDERSLEY

Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602		
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S	R
Ostafie, Dave & Robert	Canora	(306)-563-6244		
Pratchler, John & Leander	Muenster	(306)-682-3317		
Rugg, Barry C. & Robert B.	Elstow	(306)-257-3638		

CDC LANDIS

Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	F	
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CDC MAVERICK

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	F	R
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	S	F
Kerber, Greg	Rosthern	(306)-232-4474		
Van Burck, Hans & Marianne	Star City	(306)-863-4377	S	

CDC MCGWIRE

Carlson, Herbert E. P. & Leslie	Buchanan	(306)-592-4449		
Pender, Joseph M.	Saskatoon	(306)-374-4933	S	
Pender, Richard Joseph	Saskatoon	(306)-374-4933		
Van Burck, Hans & Marianne	Star City	(306)-863-4377		

CDC MEREDITH

Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S	R
Booy, Jerry N., Murray T. & Darcy K.	Glaslyn	(306)-342-2058		
Cay, Susan M.	Kinistino	(306)-864-3696		
Dangstorp, Brian & Perry	Redvers	(306)-452-3443		
Denis, Michel P. & Marc	St. Denis	(306)-258-2219		



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Edmunds, Greg & Glen	Tisdale	(306)-873-5480		C
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis	(306)-528-2140	S	
Fraser, Scott & Shawn	Pambrun	(306)-741-0475		R
Frederick, Blaine	Watson	(306)-287-3977		R C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	(306)-378-4839		C
Fritzler, Baine A., Brenda D. & Adam A.	Govan	(306)-484-2010		C
Greenshields, Grant & Jim & Callie	Semans	(306)-524-2155		C
Gregoire, Denis, Rory & Brandon	North Battleford	(306)-445-5516		C
Heavin, Larry N. & L. Warren	Melfort	(306)-752-4020	S F R	
Hyndman, Neil S.	Balcarres	(306)-334-2914		C
Johnson, Oscar Stuart & Lee Stuart	Margo	(306)-324-4315		R
Jones, Bradley & Wanda	Wadena	(306)-338-2381	S F R	
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	F	C
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414		C
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843		C
Medernach, Louis J. & Kim L.	Cudworth	(306)-256-3398	R	C
Novak, Orrin	Kuroki	(306)-338-2021		C
Novak, Roy	Wadena	(306)-338-2608		C
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912		R C
Ostafie, Dave & Robert	Canora	(306)-563-6244		R
Pastl, Glenn A.	Watson	(306)-287-4243		R
Pratchler, John & Leander	Muenster	(306)-682-3317		C
Redman, Wayne G. & Collin M.	Margo	(306)-324-4235	R	C
Rude, Stanley	Naicam	(306)-874-2359		C
Rugg, Barry C. & Robert B.	Elstow	(306)-257-3638	F	C
Sandercock, Eric M.	Balcarres	(306)-334-2958		C
Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867		R
South, Winston, Richard & Bradley	Melfort	(306)-752-9840		R
Thompson, Jan Harris	Naicam	(306)-874-5407	S	R
Toman, Fred	Guernsey	(306)-365-4215		C
Tomtene, Steven & Slind, Daniel	Birch Hills	(306)-749-3447		R
Trawn Seeds	Melfort	(306)-752-4060		R
Trowell, Ken & Larry	Saltcoats	(306)-744-2687		R C
Trowell, Ken & Larry	Saltcoats	(306)-744-2687	S	R C
Trowell, Leslie	Saltcoats	(306)-744-2684		C
Van Burck, Hans & Marianne	Star City	(306)-863-4377	S F	C
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984		R
Wiens, Brennan R.	Herschel	(306)-377-2002		C
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811		R C
Woroschuk, Andrew	Calder	(306)-742-4682		R
Yauck, Kevin Rodney	Govan	(306)-484-4555		C
CDC POLAR STAR				
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414		R
CDC RATTAN				
Hetland, Bill	Naicam	(306)-874-5694		C
CDC THOMPSON				
Cay, Randy D.	Kinistino	(306)-864-3696		C
CELEBRATION				
Clancy, Kenneth	Carrot River	(306)-768-2902		R
Hetland, Bill	Naicam	(306)-874-5694		R
CHAMPION				
Keller, Gordon A.	Nut Mountain	(306)-327-4862		C
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S F R	C
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	F R	C
Redman, Wayne G. & Collin M.	Margo	(306)-324-4235		C
Sayers, Charlie Joseph	Delmas	(306)-445-6522		R
CONLON				
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235		C
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843		C

LEGACY

Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	R
Cay, Randy D.	Kinistino	(306)-864-3696	F C
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	R
Hetland, Bill	Naicam	(306)-874-5694	S F C
Ostafie, Dave & Robert	Canora	(306)-563-6244	C
Van Burck, Hans & Marianne	Star City	(306)-863-4377	C

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Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	R
Trowell, Leslie	Saltcoats	(306)-744-2684	S F R

NEWDALE

Cay, Randy D.	Kinistino	(306)-864-3696	C
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	C
Frederick, Blaine	Watson	(306)-287-3977	C
Trowell, Leslie	Saltcoats	(306)-744-2684	S F R
Van Burck, Hans & Marianne	Star City	(306)-863-4377	C
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	C

SUNDRE

Fritzler, Baine A., Brenda D. & Adam A.	Govan	(306)-484-2010	R C
Kerber, Greg	Rosthern	(306)-232-4474	C
Latrace, Bill	Caronport	(306)-693-2626	C

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Carlson, Keith W. & Grant	Outlook	(306)-867-8571	R
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MEDICINE HAT - PINTO

Walker, Wes & David	Tisdale	(306)-873-7733	C
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LEO

Lyons, Murray F.	Nipawin	(306)-862-3066	C
Smelland, Nels	Nipawin	(306)-862-3061	C

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Trawin Seeds	Melfort	(306)-752-4060	C
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Hochbaum, Jack	Wilkie	306-843-2054	C
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SIGNAL - SMOOTH

Pliska, Ricky	Dorintosh	(306)-236-3329	C
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MIDAS

Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867	F
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Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	C
Nakonechny, Donald, Coral & Lance	Ruthilda	(306)-932-4409	S F R
Woroschuk, Andrew	Calder	(306)-742-4682	C

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Reisner, Cecil & Barry	Limerick	(306)-263-2139	S F R

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Simpson, John W.	Moose Jaw	(306)-693-9402	S

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McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	S F R
Moen, Jim	Cabri	(306)-587-2214	S F
Reisner, Cecil & Barry	Limerick	(306)-263-2139	S F R
Simpson, John W.	Moose Jaw	(306)-693-9402	S F R
Watson, Wayne Donald, Calvin & Mark Avonlea		(306)-868-2171	S F R

CDC ORION - KABULI

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Forer, Tim & Denise	Avonlea	(306)-868-4433	R
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	S F R C
Miller, Neil, Jarrod, Sean & Bruce	Avonlea	(306)-868-2117	R
Reisner, Cecil & Barry	Limerick	(306)-263-2139	S F R
Stauber, Clayton & Lori	Stewart Valley	(306)-773-7907	R

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Smears, Reginald A.	Choiceland	(306)-428-2887	C

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Mayerle, Garry D.	Tisdale	(306)-873-5993	S
Mayerle, Kris	Tisdale	(306)-873-4261	S
Peifer, Denton M.	Nipawin	(306)-862-3437	F
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Sorgard, Graham	Churchbridge	(306)-896-2236	S

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Trawn Seeds	Melfort	(306)-752-4060	R C

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McCarthy, Richard J. & Brent	Corning	(306)-224-4848	F

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Cresswell, Gordon B., Bryan & Mark	Tisdale	(306)-873-5360	S
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Willner, Brady E.	Davidson	(306)-567-4613	C
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Larsen, Lyle L.	Aylsham	(306)-862-7333	F
PRAIRIE SAPPHIRE			
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Fraser, Scott & Shawn	Pambrun	(306)-741-0475	C
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TAURUS			
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WESTLIN 71			
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Campbell, Hugh	Qu'Appelle	(306)-699-2967	R
Clancy, Kenneth	Carrot River	(306)-768-2902	C
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CDC ASTERIX			
Simpson, Thomas H.	Moose Jaw	(306)-693-9402	S F R
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Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	S
Marcil, Harvey G. & Brent Louis	Moose Jaw	(306)-694-2981	S
Mattus, Ronald	Chaplin	(306)-395-2652	S
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	S
Moen, Jim	Cabri	(306)-587-2214	S F
Petruic, Cameron L., Judy & Nick	Avonlea	(306)-868-2294	S
Reisner, Cecil & Barry	Limerick	(306)-263-2139	S F
Renwick, Douglas Dale	Milestone	(306)-436-4418	S
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	(306)-778-2344	F
Simpson, John W.	Moose Jaw	(306)-693-9402	S F
Smith, Ron T.W. & Barb A.	Limerick	(306)-263-4944	S
Wiens, Rudy G.	Herschel	(306)-377-4800	S

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McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	R
Reisner, Cecil & Barry	Limerick	(306)-263-2139	R
Willner, Brady E.	Davidson	(306)-567-4613	C

CDC IMPALA

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Palmier, Maurice & Jason	Lafleche	(306)-472-5917	C

CDC IMPOWER - LARGE GREEN

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McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	C
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Smith, Ron T. W. & Barb A.	Limerick	(306)-263-4944	C
Smith, Wayne D.	Limerick	(306)-263-4944	C
Wiens, Rudy G.	Herschel	(306)-377-4800	S F R

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Reisner, Cecil & Barry	Limerick	(306)-263-2139	R
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Mattus, Ronald	Chaplin	(306)-395-2652	S	F	

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Goossen, Mathew	Stenen	(306)-548-4760			C
Heavin, G. Harvey & G. Ryan	Melfort	(306)-752-4171			C
Pogu, Jean	Duck Lake	(306)-467-4903			R
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Zwingli, James Trent & Shelley	Melfort	(306)-752-4224			C

AC MUSTANG

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Lueke, Dennis	Humboldt	(306)-682-5170			C
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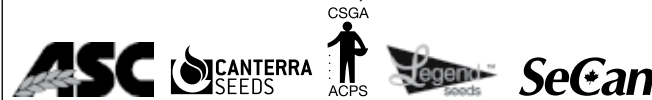
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Maslin, Jackson G. & Greg. D.	Archerwill	(306)-323-4904	R
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	C

CDC HAYMAKER - FORAGE

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	F
Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S F
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	S F
Kerber, Greg	Rosthern	(306)-232-4474	R
Trawin Seeds	Melfort	(306)-752-4060	S R

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Lueke, Dennis	Humboldt	(306)-682-5170	C
Tomtene, Steven & Slind, Daniel	Birch Hills	(306)-749-3447	F C
Van Burck, Hans & Marianne	Star City	(306)-863-4377	R

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Tomtene, Steven & Slind, Daniel	Birch Hills	(306)-749-3447	R

CDC NASSER

Trowell, Leslie	Saltcoats	(306)-744-2684	F R
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Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	F R
Frederick, Blaine	Watson	(306)-287-3977	C
Jones, Bradley & Wanda	Wadena	(306)-338-2381	R

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Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	S
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	S
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Greenshields, Grant & Jim & Callie	Semans	(306)-524-2155	C
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Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford	(306)-445-2939	R
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	C
Wohlgemuth, John & Candace	Bredenbury	(306)-989-2006	R C

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Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	S F R
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	S F R
Frederick, Blaine	Watson	(306)-287-3977	C
Lueke, Dennis	Humboldt	(306)-682-5170	R
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Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	C
Clancy, Kenneth	Carrot River	(306)-768-2902	C
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	C
Frederick, Blaine	Watson	(306)-287-3977	C
Johnson, Oscar Stuart & Lee Stuart	Margo	(306)-324-4315	C
Lueke, Dennis	Humboldt	(306)-682-5170	C
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	C
Moroz, Troy	Pelly	(306)-595-4622	C
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	C
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Johnson, Oscar Stuart & Lee Stuart	Margo	(306)-324-4315	C
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	R C
Maslin, Jackson G. & Greg. D.	Archerwill	(306)-323-4904	C
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	C
South, Winston & Richard & Bradley	Melfort	(306)-752-9840	R

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ABARTH - YELLOW

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Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	F
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S F
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Amos, K. Wayne	Oxbow	(306)-483-2963	S
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	S R
Bailey, Roy G.	Milden	(306)-935-4702	S
Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S F
Bews, W. Kenneth & Brent W.	Eatonia	(306)-967-2440	S F
Brown, Kyle	Prince Albert	(306)-922-0571	S F
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Cay, Randy D.	Kinistino	(306)-864-3696	S F
Cay, Susan M.	Kinistino	(306)-864-3696	S
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown	(306)-882-2058	F
Denis, Michel P. & Marc	St. Denis	(306)-258-2219	S
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis	(306)-528-2140	S
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Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	S
Greenshields, Grant, Jim & Callie	Semans	(306)-524-2155	S F
Heavin, G. Harvey & G. Ryan	Melfort	(306)-752-4171	S
Heavin, Milton Russell	Melfort	(306)-752-4071	S
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Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	F
Marcil, Harvey G. & Brent Louis	Moose Jaw	(306)-694-2981	S
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Yauck, Kevin Rodney	Govan	(306)-484-4555	S	F
Youzwa, Donald	Nipawin	(306)-862-5690	S	F

CDC BRONCO - YELLOW

Klym, Dustin	Regina	(306)-543-5052		C
Klym, Tyler	Regina	(306)-543-5052		C

CDC CENTENNIAL - YELLOW

Heggie, Robert Thomas	Leross	(306)-675-4920		C
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CDC DAKOTA - GREEN

Gizen, Jason	Prelate	(306)-673-2687		C
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CDC GOLDEN - YELLOW

Allan, John Garth	Corning	(306)-457-2629	F	R	C
Allan, John Richard	Corning	(306)-457-2629			C
Amos, K. Wayne	Oxbow	(306)-483-2963			R
Travland, Glenn & Marie	Coronach	(306)-267-4916			F

CDC HORIZON - FORAGE

Van Burck, Hans & Marianne	Star City	(306)-863-4377	S	F	R
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Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown	(306)-882-2058			C
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CDC LEROY - FORAGE

Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	S		
Van Burck, Hans & Marianne	Star City	(306)-863-4377			C

CDC LIMERICK - GREEN

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Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S	F	
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown	(306)-882-2058			F
Dutton, David H. & George	Paynton	(306)-895-4306	S		
Greenshields, Grant, Jim & Callie	Semans	(306)-524-2155			F
Hetland, Bill	Naicam	(306)-874-5694			F
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414			F
Petruic, Cameron L., Judy & Nick	Avonlea	(306)-868-2294	S	F	
Simpson, Greg J.	Moose Jaw	(306)-693-9402	S		
Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867	S	F	
Veikle, Lorne A. & Carl E., G. & J.	Cut Knife	(306)-398-4714			F
Veikle, Lynne, Marshall & Jason	Cut Knife	(306)-398-2923			F

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Bergstrom, Randy M.	Birsay	(306)-573-4625			C
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Chapple, Floyd & Debbie	Grandora	(306)-329-4697			C
Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford	(306)-445-2939			C
Dutton, David H. & George	Paynton	(306)-895-4306	S		C
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Heavin, Larry N. & L. Warren	Melfort	(306)-752-4020				C
Hyndman, Glen	Balcarres	(306)-334-3015				C
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Klym, Roy	Regina	(306)-543-5052				C
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Latrace, Bill	Caronport	(306)-693-2626				C
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Mayerle, Erwin D.	Tisdale	(306)-873-4261				C
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Sopatky, Jeffery & Patti	Saskatoon	(306)-227-7867				C
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Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	S			C
Winterhalt, Tim	Unity	(306)-228-3170				C
Yauck, Kevin Rodney	Govan	(306)-484-4555				C
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Greenshields, Grant, Jim & Callie	Semans	(306)-524-2155			R	
Hetland, Bill	Naicam	(306)-874-5694			F	C
Latrace, Bill	Caronport	(306)-693-2626				C
Ostafie, Brendan	Canora	(306)-563-6244			R	
Palmier, Maurice & Jason	Lafleche	(306)-472-5917			R	
Pederson, Lorne Robert	Archerwill	(306)-323-4240			R	
Petruic, Cameron L., Judy & Nick	Avonlea	(306)-868-2294				C
Smith, Wayne D.	Limerick	(306)-263-4944			R	
Watson, Wayne Donald, Calvin & Mark	Avonlea	(306)-868-2171			R	C
CDC PLUTO						
Marcil, Harvey G. & Brent Louis	Moose Jaw	(306)-694-2981			R	
CDC PROSPER - YELLOW						
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649			R	
CDC RAEZER - GREEN						
Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S	F	R	
Dutton, David H. & George	Paynton	(306)-895-4306	S		R	
Fraser, Edward H., Glen & Dale	Yarbo	(306)-745-3830			R	
Gregoire, Denis, Rory & Brandon	North Battleford	(306)-445-5516	S		R	
Heavin, Larry N. & L. Warren	Melfort	(306)-752-4020	S	F		
Heavin, Milton Russell	Melfort	(306)-752-4071	S			
Illingworth, H. V. & T. D.	North Battleford	(306)-445-5630			R	
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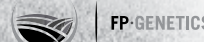
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Veikle, Lorne A., Carl E., G. & J.	Cut Knife	(306)-398-4714	S F
Veikle, Lynne, Marshall & Jason	Cut Knife	(306)-398-2923	R

CDC SAFFRON - YELLOW

Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S F
Dutton, David H. & George	Paynton	(306)-895-4306	S F
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis	(306)-528-2140	S R
Fast, Walter J. & Linda	Kindersley	(306)-463-3626	R
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	S F
Klym, Roy	Regina	(306)-543-5052	R
Laxdal, G.M.; Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S F R
McCarthy, Richard J. & Brent	Corning	(306)-224-4848	F
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	S F
Nakonechny, Donald, Coral & Lance	Ruthilda	(306)-932-4409	R
Rempel, Blair Allan	Nipawin	(306)-862-3573	R
Rugg, Barry C. & Robert B.	Elstow	(306)-257-3638	F R
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	(306)-778-2344	R
Simpson, Greg J.	Moose Jaw	(306)-693-9402	S R
Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867	S R
Sperle, Bentley D. & Jody	Unity	(306)-228-3160	S F
Trowell, Leslie	Saltcoats	(306)-744-2684	S F
Veikle, Lorne A., Carl E., G. & J.	Cut Knife	(306)-398-4714	R
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Peas: CDC Meadow



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Medernach, Louis J. & Kim L.	Cudworth	(306)-256-3398	C

CDC TETRIS

Dutton, David H. & George	Paynton	(306)-895-4306	S F
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CDC TREASURE - YELLOW

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Booy, Jerry N., Murray T. & Darcy K.	Glaslyn	(306)-342-2058	C
Denis, Michel P. & Marc	St. Denis	(306)-258-2219	C
Dutton, David H. & George	Paynton	(306)-895-4306	S
Fowler, Edith	Central Butte	(306)-796-4652	C
Mayerle, Kris	Tisdale	(306)-873-4261	C
McCarthy, Richard J. & Brent	Corning	(306)-224-4848	R C
Rugg, Barry C. & Robert B.	Elstow	(306)-257-3638	C
Sayers, Charlie Joseph	Delmas	(306)-445-6522	C
Schiltroth, John Mark	Ridgedale	(306)-873-4967	C
Smith, Ron T. W. & Barb A.	Limerick	(306)-263-4944	C
Smith, Wayne D.	Limerick	(306)-263-4944	C
Thompson, Jan Harris	Naicam	(306)-874-5407	S F R
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	S C
Willner, Brady E.	Davidson	(306)-567-4613	C

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Sorgard, Graham	Churchbridge	(306)-896-2236	C
Tanner, David A. & Hazel	Regina	(306)-757-7012	C

COOPER - GREEN

Johnson, Oscar Stuart & Lee Stuart	Margo	(306)-324-4315	C
Pfeifer, Robert G.	Lemberg	(306)-335-2532	C

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Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	S R
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Crosson, Lorne, Will, Lee & Glen	Welwyn	(306)-733-4593	R
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Trawin Seeds	Melfort	(306)-752-4060	S
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Bailey, Roy G.	Milden	(306)-935-4702	F R
Rugg, Barry C. & Robert B.	Elstow	(306)-257-3638	C
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Elmy, Robert W., Kevin & Christina	Saltcoats	(306)-744-2779	R C
Kemper, Russell & Donna	Fulda	(306)-682-4929	C
Keyser, Robert Sean	Cupar	(306)-723-4949	C

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Gerry, Greg	Creelman	(306)-457-2220	R C
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Hyndman, Glen	Balcarres	(306)-334-3015	C
Klym, Roy	Regina	(306)-543-5052	C

NSC LIBAU RR2Y

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NSC RESTON RR2Y

McCarthy, Richard J. & Brent	Corning	(306)-224-4848	C
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McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	R
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PEKKO R2

Rutledge, James G.	Carievale	(306)-928-4631	C
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Brisebois, Travis & Eugene	Kincaid	(306)-264-3222	C
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Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	C
Doerksen, Corey	Eyebrow	(306)-759-2733	R
Elmy, Robert W., Kevin & Christina	Saltcoats	(306)-744-2779	S F
Fraser, Scott & Shawn	Pambrun	(306)-741-0475	R
Gellner, Clayton S.	Southey	(306)-726-4323	R
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	R

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Grisdale, Kelvin	Weekes	(306)-278-3148	C
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Ag Vision Seeds Ltd.	Carrot River	(306)-768-3335	C
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Kaeding, Warren	Churchbridge	(306)-896-2236	S F
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Girodat Seeds Ltd.	Shaunavon	(306)-297-2563	C
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FRIDGE - WINTER FORAGE

Elmy, Robert W., Kevin & Christina	Saltcoats	(306)-744-2779	C
Trawin Seeds	Melfort	(306)-752-4060	R

TYNDAL - SPRING

Maze, Norman Daryl	Unity	(306)-398-2637	C
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Heavin, Milton Russell	Melfort	(306)-752-4071			C
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S	F	R C

5605HR-CL - SPRING

Crosson, Lorne, Will, Lee & Glen	Welwyn	(306)-733-4593	S	F	
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027		F	

5700PR - CPS RED SPRING

Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S	F	R C
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5702PR

Keller, Gordon A.	Nut Mountain	(306)-327-4862			C
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S	F	R C

AAC BRANDON - SPRING

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415		F	R
Berscheid, K. N., B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S	F	
Bews, W. Kenneth & Brent W.	Eatonia	(306)-967-2440		F	
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis	(306)-528-2140	S		
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	S	F	
Greenshields, Grant & Jim & Callie	Semans	(306)-524-2155		F	R
Hetland, Bill	Naicam	(306)-874-5694	S	F	
Ostafie, Dave & Robert	Canora	(306)-563-6244	S		

AAC CURRENT - DURUM

Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843		F	
Seymour, Glen Patrick, Donne, Kyle & Kelly	Stewart Valley	(306)-778-2344		F	
Watson, Wayne Donald, Calvin & Mark Avonlea		(306)-868-2171	S	F	

AAC ICEBERG - HARD WHITE SPRING

Fraser, Scott & Shawn	Pambrun	(306)-741-0475			C
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S		C
Reisner, Cecil & Barry	Limerick	(306)-263-2139		F	

AAC INNOVA - SPRING

Kondratowicz, Frank	Unity	(306)-228-3684			R
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AAC PROCLAIM - SPRING

FP Genetics	Regina	(306)-791-0500	S		
Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	S		
Van Burck, Hans & Marianne	Star City	(306)-863-4377	S	F	

AAC RAYMORE - DURUM

Altwasser, Rodney & Allen R. & Dean	Yellow Grass	(306)-465-2727			R
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415		F	R
Bergstrom, Randy M.	Birsay	(306)-573-4625			R
Bruce, Vic R.	Moose Jaw	(306)-631-7788		R	
Fast, Walter J. & Linda	Kindersley	(306)-463-3626		F	R
Fraser, Scott & Shawn	Pambrun	(306)-741-0475			R
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	(306)-378-4839			R
Fritzler, Baine A., Brenda D. & Adam A.	Govan	(306)-484-2010	S		R
Garratt, Lyle C. & K.C.	Milestone	(306)-436-2178	S		R
Girodat Seeds Ltd.	Shaunavon	(306)-297-2563		F	
Gizen, Jason	Prelate	(306)-673-2687	S	F	
Johnston, Lorne E. & L. Neil & L. J.	Eston	(306)-962-3917	S	F	R
Kaeding, Warren	Churchbridge	(306)-896-2236	S		R
Klym, Roy	Regina	(306)-543-5052			R
Marcil, Harvey G. & Brent Louis	Moose Jaw	(306)-694-2981		F	R
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649			R
Needham, Reginald R.	Oxbow	(306)-483-5052			R

Palmier, Maurice & Jason	Lafleche	(306)-472-5917	R
Reisner, Cecil & Barry	Limerick	(306)-263-2139	S F
Seymour, Glen Patrick, Donne, Kyle & Kelly	Stewart Valley	(306)-778-2344	F
Sorgard, Graham	Churchbridge	(306)-896-2236	S
Stauber, Clayton & Lori	Stewart Valley	(306)-773-7907	R
Stirton, Brian James	Moose Jaw	(306)-693-2310	S R
Sudom, Blaine G. & Nathan	Avonlea	(306)-868-4620	S F
Wylie, Leslie Dale	Biggar	(306)-948-2807	R

AAC REDWATER - HARD RED SPRING

Van Burck, Hans & Marianne	Star City	(306)-863-4377	S
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AAC RYLEY - SPRING

Gregoire, Denis, Rory & Brandon	North Battleford	(306)-445-5516	F
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Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis	(306)-528-2140	F
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Fritzler, Baine A., Brenda D. & Adam A.	Govan	(306)-484-2010	F R C
Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	R C
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	C
Nakonechny, Donald, Coral & Lance	Ruthilda	(306)-932-4409	R
Straub, Lorne A.	Pense	(306)-345-2390	C

AC BARRIE - HARD RED SPRING

Edmunds, Greg & Glen	Tisdale	(306)-873-5480	C
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AC CRYSTAL - CPS RED SPRING

Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford	(306)-445-2939	R
Heavin, Larry N. & L. Warren	Melfort	(306)-752-4020	C
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AC DOMAIN - HARD RED SPRING

Danielson, Lionel & Bonnie	Norquay	(306)-594-2173	R
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AC FOREMOST - CPS RED SPRING

Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	C
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AC INTREPID - HARD RED SPRING

Illingworth, H.V. & T. D.	North Battleford	(306)-445-5630	C
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AC NAVIGATOR - DURUM

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ALVENA - SPRING

Heavin, Larry N. & L. Warren	Melfort	(306)-752-4020	R
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BRIGADE - DURUM

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Amos, K. Wayne	Oxbow	(306)-483-2963	S F C
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	F
Boyd, Raymond W.	Melfort	(306)-752-3655	C
Boyes, Douglas John	Kelvington	(306)-327-4980	C
Dangstorp, Brian & Perry	Redvers	(306)-452-3443	C
Dutton, David H. & George	Paynton	(306)-895-4306	C
Ennis, Garnet & Neil	Glenavon	(306)-429-2793	C
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	C
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Luck, Lorne C. & Landis	Tisdale	(306)-873-4111	R	C
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	R	C
Maze, Norman Daryl	Unity	(306)-398-2637	R	C
Medernach, Louis J. & Kim L.	Cudworth	(306)-256-3398	R	C
Moroz, Troy	Pelly	(306)-595-4622	R	C
Nakonechny, Donald, Coral & Lance	Ruthilda	(306)-932-4409	R	C
Ostapovitch, F. G. & Glen	Theodore	(306)-647-2205	R	C
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	R	C
Rude, Stanley	Naicam	(306)-874-2359	R	C
Schmeling, Donald H.	Riceton	(306)-530-1052	R	C
Sorgard, Graham	Churchbridge	(306)-896-2236	R	C
Trawin Seeds	Melfort	(306)-752-4060	R	C
Woods, Dale Arthur	Rocanville	(306)-645-4423	R	C
Zwingli, James Trent & Shelley	Melfort	(306)-752-4224	R	C

CARDALE - SPRING

Amos, K. Wayne	Oxbow	(306)-483-2963	R	C
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	R	C
Barlow, Bradley L.	Griffin	(306)-842-6216	F	R
Bergstrom, Randy M.	Birsay	(306)-573-4625	R	C
Blenkin, Leonard G. & Larry K.	Sintaluta	(306)-727-2222	R	C
Crosson, Lorne, Will, Lee & Glen	Welwyn	(306)-733-4593	R	C
Dangstorp, Brian & Perry	Redvers	(306)-452-3443	R	C
Danielson, Lionel & Bonnie	Norquay	(306)-594-2173	R	C
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	F	C
Frederick, Blaine	Watson	(306)-287-3977	R	C
Lueke, Dennis	Humboldt	(306)-682-5170	R	C
Maslin, Jackson G. & Greg. D.	Archerwill	(306)-323-4904	R	C
McCarthy, Richard J. & Brent	Corning	(306)-224-4848	R	C
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	R	C
Moroz, Troy	Pelly	(306)-595-4622	F	C
Stoll, Douglas John, Joan & Lyndon	Delisle	(306)-493-2534	R	C
Tebbutt, Gregg	Nipawin	(306)-862-9730	R	C
Van Burck, Hans & Marianne	Star City	(306)-863-4377	R	C
Wylie, Leslie Dale	Biggar	(306)-948-2807	R	C
Yauck, Kevin Rodney	Govan	(306)-484-4555	F	C
Zwingli, James Trent & Shelley	Melfort	(306)-752-4224	R	C

CDC ABOUND - SPRING

Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S	R	C
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CDC BUTEO - WINTER

McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	R	C
Sorgard, Graham	Churchbridge	(306)-896-2236	R	C
Stokke, Shane T.	Watrous	(306)-946-4044	R	C

CDC DESIRE - DURUM

Dowdeswell, Keaton, L	Pennant	(306)-626-3331	F	R	
Syngenta Canada Inc.,	Melfort	(306)-752-5397	S	F	R

CDC GO - HARD RED SPRING

Anderson, Trevor Ward	Frontier	(306)-296-2104	R	C
Nystuen, David G.	Spalding	(306)-872-2183	F	C

CDC KERNEN - SPRING

Crosson, Lorne, Will, Lee & Glen	Welwyn	(306)-733-4593	R	C
Pfeifer, Robert G.	Lemberg	(306)-335-2532	R	C

CDC ORIGIN - SPRING SPELT

Tomtene, Steven & Slind, Daniel	Birch Hills	(306)-749-3447	R	C
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CDC OSLER - SPRING

Beuker, Allan Daniel	Melfort	(306)-752-4810	R	C
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CDC PLENTIFUL - SPRING

Cay, Randy D.	Kinistino	(306)-864-3696	S	F
Danielson, Lionel & Bonnie	Norquay	(306)-594-2173	S	F



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Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	S
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S F
McCarthy, Richard J. & Brent	Corning	(306)-224-4848	F
Smith, Ron T. W. & Barb A.	Limerick	(306)-263-4944	F
Trowell, Leslie	Saltcoats	(306)-744-2684	S
Van Burck, Hans & Marianne	Star City	(306)-863-4377	S
Veikle, Lorne A., Carl E., G. & J.	Cut Knife	(306)-398-4714	S

CDC PRIMEPURPLE - SPRING

Hetland, Bill	Naicam	(306)-874-5694	S
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CDC PTARMIGAN - SOFT WHITE WINTER

Kennett, Brian Guy	Manor	(306)-448-4813	F
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CDC STANLEY - SPRING

Bruce, Vic R.	Moose Jaw	(306)-631-7788	C
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	R
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S F R C
Sayers, Charlie Joseph	Delmas	(306)-445-6522	C
Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867	R

CDC THRIVE - SPRING

Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	R
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	R C

CDC UTMOST-HARVEST (MIDGE TOLERANT VB)

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	S
Boyd, Clare W. & Dale A.	Melfort	(306)-752-2108	
Buziak, Ronald Charles	Mayfair	(306)-445-6556	
Cay, Randy D.	Kinistino	(306)-864-3696	
Charabin, Dale Kenneth & Timothy V. & Ryan	North Battleford	(306)-445-2939	S
Craswell, Raymond W.	Strasbourg	(306)-725-3236	
Dangstorp, Brian & Perry	Redvers	(306)-452-3443	
Danielson, Lionel & Bonnie	Norquay	(306)-594-2173	
Denis, Michel P. & Marc	St. Denis	(306)-258-2219	
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	S
Frederick, Blaine	Watson	(306)-287-3977	
Girodat Seeds Ltd.	Shaunavon	(306)-297-2563	
Hardy, Allan W., Dale & Evan	Grenfell	(306)-697-3128	
Hetland, Bill	Naicam	(306)-874-5694	
Hyndman, Glen	Balcarres	(306)-334-3015	
Klym, Roy	Regina	(306)-543-5052	
Littman, Larry W., Allan B., L. Robert & Adam	Saltcoats	(306)-783-6518	
Lueke, Dennis	Humboldt	(306)-682-5170	
Mayerle, Kris	Tisdale	(306)-873-4261	
McCarthy, Richard J. & Brent	Corning	(306)-224-4848	
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	
Ostafie, Dave & Robert	Canora	(306)-563-6244	
Palmier, Maurice & Jason	Lafleche	(306)-472-5917	
Pederson, Lorne Robert	Archerwill	(306)-323-4240	
Reisner, Cecil & Barry	Limerick	(306)-263-2139	
Sayers, Charlie Joseph	Delmas	(306)-445-6522	
Smith, Wayne D.	Limerick	(306)-263-4944	
Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867	
Sorgard, Graham	Churchbridge	(306)-896-2236	
Trowell, Leslie	Saltcoats	(306)-744-2684	
Van Burck, Hans & Marianne	Star City	(306)-863-4377	S
Veikle, Lorne A., Carl E., G. & J.	Cut Knife	(306)-398-4714	S
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984	
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	

CDC VERONA - DURUM

Altwasser, Rodney & Allen R. & Dean	Yellow Grass	(306)-465-2727	R
Anderson, Trevor Ward	Frontier	(306)-296-2104	C

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Fraser, Scott & Shawn	Pambrun	(306)-741-0475	C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	(306)-378-4839	C
Garratt, Lyle C. & K.C.	Milestone	(306)-436-2178	C
Gizen, Jason	Prelate	(306)-673-2687	C
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	C
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	R C
Reisner, Cecil & Barry	Limerick	(306)-263-2139	C
Rennick, Joe R. & William J.	Milestone	(306)-436-4353	F
Seymour, Glen Patrick, Donne, Kyle & Kelly	Stewart Valley	(306)-778-2344	R
Watson, Wayne Donald, Calvin & Mark	Avonlea	(306)-868-2171	S R C
Willner, Brady E.	Davidson	(306)-567-4613	C
Wylie, Leslie Dale	Biggar	(306)-948-2807	C
CDC VIVID - DURUM			
Girodat Seeds Ltd.	Shaunavon	(306)-297-2563	S
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S F
CDC VR MORRIS - SPRING			
Hartl, Donald & Kim	Lake Lenore	(306)-368-2495	S
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S F R C
Sperle, Bentley D. & Jody	Unity	(306)-228-3160	S
COLUMBUS -HARD RED SPRING			
Titman, David G. & Loa L.	Viscount	(306)-944-4236	S F C
CONQUER - 5701PR (MIDGE TOLERANT VB)			
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	S
Cay, Randy D.	Kinistino	(306)-864-3696	S
Clancy, Kenneth	Carrot River	(306)-768-2902	S
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	S
Frederick, Blaine	Watson	(306)-287-3977	R C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	(306)-378-4839	C
Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	C
Hetland, Bill	Naicam	(306)-874-5694	C
Hyndman, Neil S.	Balcarres	(306)-334-2914	C
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	C
Mayerle, Kris	Tisdale	(306)-873-4261	S
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	S
Sorgard, Graham	Churchbridge	(306)-896-2236	S
Toman, Fred	Guernsey	(306)-365-4215	S
Wylie, Leslie Dale	Biggar	(306)-948-2807	C
EMERSON - HARD RED WINTER			
Sorgard, Graham	Churchbridge	(306)-896-2236	S
ENCHANT-AC CRYSTAL (MIDGE TOLERANT VB)			
Cay, Randy D.	Kinistino	(306)-864-3696	S
Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford	(306)-445-2939	R
Danielson, Lionel & Bonnie	Norquay	(306)-594-2173	R
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	R
Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	R
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	R
ENTERPRISE - DURUM			
Bergstrom, Randy M.	Birsay	(306)-573-4625	R C
Bews, W. Kenneth & Brent W.	Eatonia	(306)-967-2440	C
Dowdeswell, Donald D.	Pennant	(306)-626-3388	C
Fast, Walter J. & Linda	Kindersley	(306)-463-3626	C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	(306)-378-4839	C
Girodat Seeds Ltd.	Shaunavon	(306)-297-2563	C
Petric, Cameron L., Judy & Nick	Avonlea	(306)-868-2294	S R C
Simpson, Thomas H.	Moose Jaw	(306)-693-9402	C
EUROSTAR - DURUM			
Fraser, Scott & Shawn	Pambrun	(306)-741-0475	R C

Final pedigree status pending lab test verification.

Final pedigree status pending.

Reisner, Cecil & Barry	Limerick	(306)-263-2139	C
Smith, Ron T. W. & Barb A.	Limerick	(306)-263-4944	C
Stauber, Clayton & Lori	Stewart Valley	(306)-773-7907	C

FIELDSTAR-WASKADA (MIDGE TOLERANT VB)

Bryant, Lee, Phyl, Vern & Carol	Battleford	(306)-937-3565	
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FLOURISH - WINTER

Ostafie, Dave & Robert	Canora	(306)-563-6244	R
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GLENN - SPRING

Crosson, Lorne, Will, Lee & Glen	Welwyn	(306)-733-4593	C
Dangstorp, Brian & Perry	Redvers	(306)-452-3443	C
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	C
Hyndman, Glen	Balcarres	(306)-334-3015	C
Mayerle, Erwin D.	Tisdale	(306)-873-4261	C
Sorgard, Graham	Churchbridge	(306)-896-2236	C
Sorgard, Graham	Churchbridge	(306)-896-2236	C

GOODEVE-AC INTREPID (MIDGE TOLERANT VB)

Cay, Randy D.	Kinistino	(306)-864-3696	
Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford	(306)-445-2939	
Denis, Michel P. & Marc	St. Denis	(306)-258-2219	C
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	
Gaertner, Lyle	Tisdale	(306)-873-4936	
Hyndman, Neil S.	Balcarres	(306)-334-2914	
Klemmer, Richard	Nipawin	(306)-862-3874	
Pederson, Lorne Robert	Archerwill	(306)-323-4240	

HARVEST - HARD RED SPRING

Cay, Susan M.	Kinistino	(306)-864-3696	C
Danielson, Lionel & Bonnie	Norquay	(306)-594-2173	C
Ostafie, Dave & Robert	Canora	(306)-563-6244	F
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984	C
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	R

INFINITY - SPRING

Carefoot, Floyd Martin, Mark & Scott	Swift Current	(306)-773-6963	C
Illingworth, H. V. & T. D.	North Battleford	(306)-445-5630	C
Pfeifer, Robert G.	Lemberg	(306)-335-2532	C
Reisner, Cecil & Barry	Limerick	(306)-263-2139	C
Sorgard, Graham	Churchbridge	(306)-896-2236	C
Yauck, Kevin Rodney	Govan	(306)-484-4555	R

LILLIAN - SPRING

Craswell, Raymond W.	Strasbourg	(306)-725-3236	C
Floberg, Barry, Delana, Devin & Brandon	Shaunavon	(306)-297-2087	C
Fritzler, Baine A., Brenda D. & Adam A.	Govan	(306)-484-2010	C
Sperle, Bentley D. & Jody	Unity	(306)-228-3160	C
Watson, Wayne Donald, Calvin & Mark	Avonlea	(306)-868-2171	F

MOATS - WINTER

Amos, K. Wayne	Oxbow	(306)-483-2963	R
Boyes, Douglas John	Kelvington	(306)-327-4980	R
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown	(306)-882-2058	R
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis	(306)-528-2140	S
McDougall, Ken & Craig	Moose Star	(306)-693-3649	S
Ostafie, Dave & Robert	Canora	(306)-563-6244	R
Watson, Wayne Donald, Calvin & Mark	Avonlea	(306)-868-2171	R

MUCHMORE - SPRING

Buziak, Carl	Mayfair	(306)-445-9862	R
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown	(306)-882-2058	S
Dangstorp, Brian & Perry	Redvers	(306)-452-3443	C
Danielson, Lionel & Bonnie	Norquay	(306)-594-2173	C
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	R
Laxdal, G.M., Blyth, D., Gregory, Wayne,			

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PEA VARIETIES
CDC Saffron

CEREAL VARIETIES
Pasteur, Strongfield, Sadash

CHICKPEA VARIETY
CDC Leader, Common Chickpea

FLAX VARIETY
CDC Sorrel (Reconstituted)

CANARY VARIETY
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SOFT WHITE: Sadash

HARD RED: Stettler, Carberry, Vesper VB, Unity VB

BARLEY

FEED: CDC Austenson, CDC Cowboy

MALT: CDC Meredith

YELLOW PEAS: CDC Meadow, CDC Treasure, CDC Saffron

GREEN PEAS: CDC Striker, CDC Raeser, CDC Pluto, CDC Tetris

DUN PEAS: CDC Dakota

MAPLE PEAS: CDC Acer, CDC Rocket

FLAX: CDC Sorrel, CDC Bethune, CDC Glas

LENTIL: CDC Imax

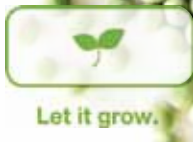
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Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S	F	R
McCarthy, Richard J. & Brent	Corning	(306)-224-4848			R

PASTEUR - SPRING

Altwasser, Rodney, Allen R. & Dean	Yellow Grass	(306)-465-2727			C
Bailey, Roy G.	Milden	(306)-935-4702			C
Blenkin, Leonard G. & Larry K.	Sintaluta	(306)-727-2222			C
Boldt, Garry	Osler	(306)-239-2071			C
Crosson, Lorne, Will, Lee & Glen	Welwyn	(306)-733-4593			C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	(306)-378-4839			C
Gerry, Greg	Creelman	(306)-457-2220			C
Hardy, Allan W. & Dale & Evan	Grenfell	(306)-697-3128			C
Kerber, Greg	Rosthern	(306)-232-4474			C
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S	F	
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649			C
Simpson, Trevor W.	Moose Jaw	(306)-693-9402			C
Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867			C
Trawin Seeds	Melfort	(306)-752-4060			C
Van Burck, Hans & Marianne	Star City	(306)-863-4377	S	F	R
Wylie, Leslie Dale	Biggar	(306)-948-2807			C

SADASH - SOFT WHITE SPRING

Allan, Raymond N. & Ruth	Corning	(306)-224-4666			R
Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602			C
Buziak, Ronald Charles	Mayfair	(306)-445-6556			C
Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford	(306)-445-2939			C
Dutton, David H. & George	Paynton	(306)-895-4306			C
Fritzler, Baine A., Brenda D. & Adam A. Govan		(306)-484-2010		F	C
Goossen, Mathew	Stenen	(306)-548-4760			C
Hanmer, Ronald F., Kent, Brad & Dallas	Govan	(306)-484-4327			C
Keyser, Robert Sean	Cupar	(306)-723-4949			C
Kondratowicz, Frank	Unity	(306)-228-3684			C
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	S		C
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414			R
Mattus, Ronald	Chaplin	(306)-395-2652			C
Maze, Gary Keith	Unity	(306)-398-2637			C
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027			C
Rude, Stanley	Naicam	(306)-874-2359			R
Simpson, Trevor W.	Moose Jaw	(306)-693-9402			C
Stokke, Shane T.	Watrous	(306)-946-4044			C
Toman, Fred	Guernsey	(306)-365-4215			C
Trawin Seeds	Melfort	(306)-752-4060	S		C
Veikle, Lorne A., Carl E., G. & J.	Cut Knife	(306)-398-4714			C
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984			R
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811			C
Winterhalt, Tim	Unity	(306)-228-3170			R

SHAW-AC DOMAIN (MIDGE TOLERANT VB)

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	S		
Beuker, Allan Daniel	Melfort	(306)-752-4810			
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown	(306)-882-2058			
Denis, Michel P. & Marc	St. Denis	(306)-258-2219			
Edmunds, Greg & Glen	Tisdale	(306)-873-5480			
Ennis, Garnet & Neil	Glenavon	(306)-429-2793			
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	(306)-378-4839			
Fritzler, Baine A., Brenda D. & Adam A. Govan		(306)-484-2010			
Goodnough, Dennis	Moose Jaw	(306)-693-9847			
Hansen, James S.	Yellow Grass	(306)-465-2525			C
Hetland, Bill	Naicam	(306)-874-5694			
Huber, Daniel & Rebecca	Landis	(306)-658-4200			
Kerber, Greg	Rosthern	(306)-232-4474			
Klemmer, Richard	Nipawin	(306)-862-3874			

Final pedigree status pending lab test verification.

Klym, Roy	Regina	(306)-543-5052	
Labrecque, Roger	Saskatoon	(306)-373-9379	C
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	C
Maze, Norman Daryl	Unity	(306)-398-2637	
McCutcheon, David	Outlook	(306)-856-2265	
Medernach, Louis J. & Kim L.	Cudworth	(306)-256-3398	
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	
Ostafie, Dave & Robert	Canora	(306)-563-6244	
Pratchler, John & Leander	Muenster	(306)-682-3317	
Rempel, Blair Allan	Nipawin	(306)-862-3573	
Shwaga, Jeff W.	Wroxton	(306)-742-4590	
Sopatky, Jeffery & Patti	Saskatoon	(306)-227-7867	
Wiens, Brennan R.	Herschel	(306)-377-2002	
Wilfing, Raymond John & Ryan John	Meadow Lake	(306)-236-6811	
Willner, Brady E.	Davidson	(306)-567-4613	
Willner, Lorne E.	Davidson	(306)-567-4613	
Woroschuk, Andrew	Calder	(306)-742-4682	
Yauck, Kevin Rodney	Govan	(306)-484-4555	

Final pedigree status pending lab test verification.

STETTLER - RED SPRING

Goossen, Mathew	Stenen	(306)-548-4760	C
Laxdal, G.M., Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	R
Robinson, Oren A., Marlene & Wade	Landis	(306)-658-4755	R

STRONGFIELD - DURUM

Altwasser, Rodney, Allen R. & Dean	Yellow Grass	(306)-465-2727	C
Bergstrom, Randy M.	Birsay	(306)-573-4625	C
Craswell, Raymond W.	Strasbourg	(306)-725-3236	C
Fraser, Scott & Shawn	Pambrun	(306)-741-0475	C
Fritzler, Baine A., Brenda D. & Adam A	Govan	(306)-484-2010	R C
Hanmer, Ronald F., Kent, Brad & Dallas	Govan	(306)-484-4327	C
Johnston, Lorne E. & L. Neil & L. J.	Eston	(306)-962-3917	C
Klym, Roy	Regina	(306)-543-5052	C
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	C
Marcil, Harvey G. & Brent Louis	Moose Jaw	(306)-694-2981	C
McDougall, Ken & Craig	Moose Jaw	(306)-693-3649	S F R
Miller, Neil, Jarrod, Sean & Bruce	Avonlea	(306)-868-2117	S F C
Petruic, Cameron L., Judy & Nick	Avonlea	(306)-868-2294	S
Renwick, Douglas Dale	Milestone	(306)-436-4418	C
Seymour, Glen Patrick, Donne, Kyle & Kelly	Stewart Valley	(306)-778-2344	R
Stirton, Brian James	Moose Jaw	(306)-693-2310	C
Straub, Lorne A.	Pense	(306)-345-2390	C
Sudom, Blaine G. & Nathan	Avonlea	(306)-868-4620	R
Watson, Wayne Donald, Calvin & Mark	Avonlea	(306)-868-2171	S F R C
Wiens, Brennan R.	Herschel	(306)-377-2002	C

SUNRISE - WINTER

Kennett, Brian Guy	Manor	(306)-448-4813	F
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SY433 - SPRING

Syngenta Canada Inc.,	Melfort	(306)-752-5397	R
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SY985 - CPS RED SPRING

Gregoire, Denis & Rory & Brandon	North Battleford	(306)-445-5516	C
Proven Seed/Crop Production Services (Canada) Inc.	Regina	(306)-569-5027	S F R C
Syngenta Canada Inc.,	Melfort	(306)-752-5397	F R C

TRANSCEND - DURUM

Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown	(306)-882-2058	C
Craswell, Raymond W.	Strasbourg	(306)-725-3236	S F R
Girodat Seeds Ltd.	Shaunavon	(306)-297-2563	C
Gizen, Jason	Prelate	(306)-673-2687	C
Herle, Gregory & Andrew E.	Wilkie	(306)-843-2934	C
Kaeding, Warren	Churchbridge	(306)-896-2236	C
Klym, Roy	Regina	(306)-543-5052	R C
McCarthy, Richard J. & Brent	Corning	(306)-224-4848	S R



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Reisner, Cecil & Barry	Limerick	(306)-263-2139	C
Smith, Ron T. W. & Barb A.	Limerick	(306)-263-4944	C
Smith, Wayne D.	Limerick	(306)-263-4944	R C
Straub, Lorne A.	Pense	(306)-345-2390	C

UNITY-WASKADA (MIDGE TOLERANT VB)

Allan, Raymond N. & Ruth	Corning	(306)-224-4666	
Blenkin, Leonard G. & Larry K.	Sintaluta	(306)-727-2222	
Fraser, Scott & Shawn	Pambrun	(306)-741-0475	C
Gellner, Clayton S.	Southey	(306)-726-4323	
Gerry, Greg	Creelman	(306)-457-2220	
Goodnough, Dennis	Moose Jaw	(306)-693-9847	
Heavin, G. Harvey & G. Ryan	Melfort	(306)-752-4171	
Keyser, Robert Sean	Cupar	(306)-723-4949	
Lepp, Milton & Elden & Neufeld, M.	Hepburn	(306)-254-4243	
Lutzer, Albert & Latrace, Jim	Lumsden	(306)-731-2843	C
Mayerle, Bernhard C.	Tisdale	(306)-873-4267	
Mayerle, Erwin D.	Tisdale	(306)-873-4261	
Needham, Reginald R.	Oxbow	(306)-483-5052	
Palmier, Maurice & Jason	Lafleche	(306)-472-5917	
Proven Seed/Crop Production Services			
(Canada) Inc.	Regina	(306)-569-5027	
Reisner, Cecil & Barry	Limerick	(306)-263-2139	
Rempel, Blair Allan	Nipawin	(306)-862-3573	
Robinson, Oren A., Marlene & Wade	Landis	(306)-658-4755	
Rugg, Barry C. & Robert B.	Elstow	(306)-257-3638	
Shewchuk, Stan, Lorne, Terry, Adam & Michael	Blaine Lake	(306)-497-3503	C
Smith, Ron T.W. & Barb A.	Limerick	(306)-263-4944	
South, Winston & Richard & Bradley	Melfort	(306)-752-9840	
Sperle, Bentley D. & Jody	Unity	(306)-228-3160	
Stoll, Douglas John, Joan & Lyndon	Delisle	(306)-493-2534	
Thompson, Jan Harris	Naicam	(306)-874-5407	
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984	
Wylie, Leslie Dale	Biggar	(306)-948-2807	
Yauck, Kevin Rodney	Govan	(306)-484-4555	

Final pedigree status pending lab test verification.

VESPER-WASKADA (MIDGE TOLERANT VB)

Altwasser, Rodney & Allen R. & Dean	Yellow Grass	(306)-465-2727	
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	(306)-668-4415	
Bergstrom, Randy M.	Birsay	(306)-573-4625	C
Berscheid, K. N. B., E. K., S., C. & Y.	Lake Lenore	(306)-368-2602	S
Beuker, Allan Daniel	Melfort	(306)-752-4810	
Boyd, Clare W. & Dale A.	Melfort	(306)-752-2108	
Bryant, Lee, Phyl, Vern & Carol	Battleford	(306)-937-3565	S
Buziak, Ronald Charles	Mayfair	(306)-445-6556	
Carlson, Herbert E. P. & Lesli	Buchanan	(306)-592-4449	
Cay, Randy D.	Kinistino	(306)-864-3696	
Fedoruk, Rod M. & Cathy	Kamsack	(306)-542-4235	
Fenton, Gerald A. & Robin Paul	Tisdale	(306)-873-5438	S
Fraser, Edward H., Glen & Dale	Yarbo	(306)-745-3830	
Gerry, Greg	Creelman	(306)-457-2220	
Goossen, Mathew	Stenen	(306)-548-4760	
Greenshields, Grant, Jim & Callie	Semans	(306)-524-2155	
Hamner, Ronald F., Kent, Brad & Dallas	Govan	(306)-484-4327	
Heggie, Kyle Robert	Leross	(306)-675-4920	
Hetland, Bill	Naicam	(306)-874-5694	
Holland, Ernest W.	Rocanville	(306)-645-4223	
Keyser, Robert Sean	Cupar	(306)-723-4949	
Laxdal, G.M.; Blyth, D., Gregory, Wayne, Richard & Bolt, Glen A.	Wynyard	(306)-554-2078	F R C
Lung Seeds Ltd.	Lake Lenore	(306)-368-2414	
Mayerle, Kris	Tisdale	(306)-873-4261	
Nakonechny, Donald, Coral & Lance	Ruthilda	(306)-932-4409	S
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill	(306)-323-4912	
Osborne, Nolan Stanley C.	Yorkton	(306)-782-7113	
Ostafie, Dave & Robert	Canora	(306)-563-6244	S

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Sopatyk, Jeffery & Patti	Saskatoon	(306)-227-7867	
Sorgard, Graham	Churchbridge	(306)-896-2236	
South, Winston & Richard & Bradley	Melfort	(306)-752-9840	
Sperle, Bentley D. & Jody	Unity	(306)-228-3160	S
Tebbutt, Gregg	Nipawin	(306)-862-9730	
Tomtene, Steven & Slind, Daniel	Birch Hills	(306)-749-3447	R C
Trowell, Kenneth, Larry & Nathan	Saltcoats	(306)-744-2687	
Trowell, Kenneth, Larry & Nathan	Saltcoats	(306)-744-2687	S
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984	
Wiens, Brennan R.	Herschel	(306)-377-2002	
Winterhalt, Tim	Unity	(306)-228-3170	
Woroschuk, Andrew	Calder	(306)-742-4682	
Wylie, Leslie Dale	Biggar	(306)-948-2807	

Final pedigree status pending lab test verification.

WASKADA - SPRING

Allan, John Garth	Corning	(306)-457-2629	R C
Allan, John Richard	Corning	()-()-()	C
Boyd, Clare W. & Dale A.	Melfort	(306)-752-2108	R
Boyd, Raymond W.	Melfort	(306)-752-3655	C
Fowler, Edith	Central Butte	(306)-796-4652	C
Heavin, Larry N. & L. Warren	Melfort	(306)-752-4020	S F
Nakonechny, Donald, Coral & Lance	Ruthilda	(306)-932-4409	S F
Needham, Reginald R.	Oxbow	(306)-483-5052	C
Shewchuk, Stan, Lorne, Terry, Adam & Michael	Blaine Lake	(306)-497-3503	C
Wakefield, Kristopher, Laurie G. & Monica	Maidstone	(306)-893-2984	S F

WHITEHAWK - HARD WHITE SPRING

Fraser, Scott & Shawn	Pambrun	(306)-741-0475	C
Sorgard, Graham	Churchbridge	(306)-896-2236	C

WR859 CL - SPRING

Syngenta Canada Inc.,	Melfort	(306)-752-5397	R C
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Trawin Seeds	Melfort	(306)-752-4060	C
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FAIRWAY - CRESTED

Smelland, Nels	Nipawin	(306)-862-3061	C
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KIRK - CRESTED

Hochbaum, Jack	Wilkie	(306)-843-2054	C
Horudko, Ernest	Nipawin	(306)-862-4889	C
Rempel, Blair Allan	Nipawin	(306)-862-3573	C

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Smelland, Nels	Nipawin	(306)-862-3061	C
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New wheat alliance

combines public resources, outside investments

The program is seeking investments from the private sector and producer groups

AN AMBITIOUS multi-year wheat research program involving scientists from across Canada is looking for new collaborators.

Prepared for Sask
Seed Guide

The Canadian Wheat Alliance (CWA) is a \$95 million program involving Agriculture Canada, the National Research Council, the University of Saskatchewan's Crop Development Centre and the province of Saskatchewan.

Fauzi Bekkaoui, the NRC program executive director who serves as the chair of the the alliance management committee, says the scope of the program is likely to expand as new research partnerships are formed and outside collaborators are identified.

The goal of the program is to improve the yield, sustainability and profitability of wheat for Canadian farmers and the Canadian economy.

This will be accomplished by developing new breeding technologies, creating new DNA markers and investigating key issues such as nutrient use efficiency and yield losses caused by drought, heat, cold and diseases.

"Initially, we have four major partners ... but we are also talking with other potential collaborators to invite them to join us, either as partners who might come with a significant level of funding or in-kind contributions, or as contributors to a specific project within the alliance," Bekkaoui said.

"An important aspect of the program is that we would like to include industry," he added.

"We know that industry is interested in wheat breeding and in wheat yield improvement so we are talking to potential partners and inviting them to join us."

By involving key experts from a variety of organizations, the Canadian Wheat Alliance will take a broad approach to improving wheat and developing new technologies for the Canadian wheat industry.

A central element of the alliance is resource sharing and encouraging the exchange of knowledge and expertise between organizations.



The Canadian Wheat Alliance is a \$95 million research program that involves a \$5 million monetary investment by Saskatchewan Agriculture and in-kind contributions worth \$90 million from the National Research Council, Agriculture Canada and the University of Saskatchewan's Crop Development Centre. | FILE PHOTO

For example, scientists at the U of S and the NRC who have specialized expertise in the areas of bioinformatics and genomics research will work together — sharing resources and information — in hopes of developing new DNA markers, novel breeding platforms and improved bioinformatics systems.

Similarly, researchers at the NRC, Agriculture Canada and the Crop Development Centre will work closely together to address downstream plant breeding challenges.

Agriculture Canada and the Crop Development Centre will provide field testing capacity, plots, field equipment and additional human resources.

Roughly \$90 million of the alliance's initial \$95 million budget will be comprised of in-kind contributions from the three major research participants. The only monetary contribution to the program to date is the \$5 million investment by the Saskatchewan government through the province's Agriculture Development Fund (ADF).

"The concept behind this model is really to leverage expertise and to

work together to maximize our chances (of success) and avoid duplication," Bekkaoui said.

"Co-ordination, collaboration, integration — all of those are part of the alliance."

During Phase 1 of the program, Bekkaoui and other members of the alliance's have identified six key themes or research areas.

Those themes include:

- Genomics Assisted Breeding (GAB), which includes activities aimed at improving genomic resources for faster gene discovery and identification of novel genes;
- Wheat Improvement through Cell Technologies (WICT) which includes activities aimed at improving the efficiency of the doubled haploidy system for multiple genotypes;
- Enhancing Fusarium and Rust Tolerance (EFRT) which includes projects aimed at characterizing disease resistant genes and breeding new wheat varieties with durable fusarium and rust resistance;

CONTINUED ON PAGE 100

- Improving Wheat Productivity Under Conditions of Abiotic Stress (Abiotic Stress Project), aimed at enhancing drought, heat and cold tolerance in wheat;

- Targeting developmental Pathways to Improve Performance and Yield in Wheat (Development Project) which includes work aimed at discovering and deploying genes associated with improved cultivar performance and seed yield and;

- Beneficial Biotic Interactions (BBI) which includes projects aimed at enhancing nutrient use efficiency and improving plant health through modified microbial communities.

Bekkaoui said specific projects within each theme area will be identified and considered for funding as the alliance gains momentum.

So far, four additional research projects have been approved for funding.

Discussions have also taken place with a handful of private sector partners that have expertise or interest in theme areas.

CWA program managers are hopeful that the alliance will continue to grow and gain momentum as additional partners are identified.

"If we want to address some of yield challenges ... and reduce losses caused by disease and climate and so on, we have to have more partners," Bekkaoui said.

"That's my goal is to bring in additional partners and grow this alliance.

"It's difficult to give a specific number but I wouldn't be surprised, within five years, if the alliance is 25 percent to 50 percent bigger than it is now."

The CWA will soon be putting the finishing touches on a private sector engagement strategy that outlining strategies aimed at attracting private sector participants.

"The way it (the engagement strategy) will work out likely is that we will go out to companies and meet with them to understand their needs and explain to them our expertise so we can identify areas where we can work together"

Other provinces including Alberta and Manitoba have also been invited to participate, he added.

With private sector involvement expected to play a significant role in the new alliance, it is likely that questions will arise regarding proprietary ownership of the program's key research findings and outputs.

Bekkaoui described the alliance's approach as a flexible model that will



The program hopes to combine expertise and resources at the NRC, Agriculture Canada and the University of Saskatchewan, with outside investments from producer groups, private sector companies and others. | FILE PHOTO

allow outside investors to get involved at any level of research or in any of the six research themes.

Private sector companies that contribute to research within one of the six themes will negotiate rights to utilize the outputs.

For example, private sector breeding companies could potentially partner in downstream activities such as varietal development work using newly developed DNA markers. Or they could get involved in more advanced genomics research that could potentially lead to the development of new biotech breeding platforms.

The CWA's goals, however, is to ensure that the new technologies developed are used as widely as possible by public and private researchers alike.

"What we want, from the NRC's point of view ... is to make sure that if there is an output, whether that be a new DNA marker or a new platform, we want to make sure that it is used by the industry and by (public) breeders to basically ensure that there is a tangible impact," Bekkaoui said.

Arrangements that offer corporate partners exclusive use of a new technology or research output may occur.

But exclusivity is not the alliance's preferred model.

Bekkaoui said producer funding mechanisms could also play a central role in advancing the alliance's mandate.

Producers have a long history of funding cereal breeding programs in Western Canada.

They also have a close relationship with breeders and publicly funded breeding institutions such as Agriculture Canada and the Crop Development Centre in Saskatoon, both of which are

primary collaborators in the alliance.

"I would like (producers) to consider our alliance and to look at investing in our alliance," he said.

"Producers already work closely with the breeders ... and I think they should also consider new technologies and transformational technologies as well as ... some of the challenging areas where breeders are having difficulties."

"We will be working with producers and talking with (producer organizations) to seek their participation in some of these project areas."

Bekkaoui said private sector interest in wheat research is gaining momentum in Canada and around the world.

Wheat is one of the most widely-grown crops in the world but during the last few decades, investment in wheat research by private sector companies has been limited relative to other major crops such as corn, and soybeans.

With the world's population projected to reach nine billion people by 2050, companies are beginning to see wheat as a crop with a significant upside potential in terms of yield improvement.

"With the genomics now and biotechnology that is available, we have some tools that will maybe help us to improve the rate of yield gain in wheat," he said.

"Our breeders have done a tremendous job of improving the yield of wheat ... so this is not to take anything away from the work that has been done so far," he added.

"It is more about looking ahead and asking: 'what more can we do going forward to improve yield'."

The CWA has stated publicly that it will not be directly involved in the creation of GM wheat varieties.

"We will not produce GM wheat ... (and) the reason for that is very simple. Right now producers ... do not want GM wheat," he said.

"Will we change our position? I don't know. It depends again on what's happening in the markets and within the industry, but for now, we are not considering developing a GM wheat variety."

Research teams involved in the Canadian Wheat Alliance are based at various locations across Canada including Edmonton, Lethbridge, Saskatoon, Swift Current, Winnipeg, Ottawa, Montreal, Moncton, Halifax and Summerland, B.C.

Specific projects that receive support through the CWA will be reviewed after three years and five years.

Those reviews will determine if additional support will be extended. ♦

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Canada's commercial and pedigreed flax supplies is one step away from being successfully executed.

The final step is to ensure that all flax planted in Canada in 2014 is planted with certified seed using flax varieties that are known to be Triffid-free.

"We may only get this one chance to start fresh," said Dave Sefton, director with the Saskatchewan Flax Development Commission.

"If we get this right, we should be able to put the whole Triffid experience behind us that much faster."

Triffid, a genetically modified flax variety developed at the University of Saskatchewan, disrupted Canadian flax exports in 2009 when it showed up in a bulk flax shipment bound for Europe. Since then, the Canadian flax industry has been working to remove Triffid from the flax seed supply and regain access to key European markets.

To eliminate Triffid from the Canadian flax supply, the industry introduced stringent testing and monitoring protocols in 2010 to ensure that all flax being exported from Canada does not contain traces of the de-registered GM variety.

In addition, the following steps were prescribed by the industry in early 2013:

- commercial flax growers were encouraged to sell, before early 2014, all stocks of commercial flax seed produced prior to the 2013 growing season.
- pedigreed seed growers in possession of pedigreed supplies of CDC flax varieties were encouraged to deliver those stocks into the commercial grain handling system and:
 - farmers throughout Canada were encouraged to plant their entire 2014 flax crop using certified seed that is known to be Triffid-free.

With assistance from SeCan, the University of Saskatchewan's Crop Development Centre (CDC) has recently completed a program aimed at reconstituting four popular CDC flax varieties that were thought to contain traces of Triffid.

Prepared for Sask
Seed Guide



A multi-pronged plan aimed at eliminating the final traces of a genetically modified flax variety, Triffid, from the Canadian flax seed supply is entering its final stages. In 2014, commercial flax producers are strongly encouraged to plant their entire crop with certified seed. Reconstituted supplies of four CDC flax varieties that are known to be Triffid-free are now available. | FILE PHOTO

The four reconstituted varieties — CDC Bethune, CDC Sorrel, CDC Sanctuary and CDC Glas — were reproduced from pure breeder seed that was tested thoroughly to ensure it was free of Triffid.

Certified supplies of those reconstituted varieties are now available through SeCan seed growers.

Between those four varieties and other varieties that were tested and proven free of Triffid genetics, there will be enough pedigreed seed available to produce more than a million acres of Triffid free flax in 2014.

In addition to planting their 2014 crop with certified seed, it is also imperative that commercial flax growers continue testing the flax that they harvest and sell in 2014.

One sample can cover up to 5,000 bushels if the crop was seeded from the same seed source and if the entire field has the same recent cropping history.

A description of sampling procedures can be found on the Flax Council's website

at www.flaxcouncil.ca

Funding for the Flax Farm Stewardship testing program was scheduled to continue until existing funds are expended. Beyond that, the cost of the Triffid testing will be fully borne by the producer.

"This process hasn't been an easy one for producers, but we've certainly come a long way," said Linda Braun, executive director of SaskFlax.

"Testing will continue, and at the same time, the industry is working hard on other initiatives, like international low-level presence policies, that will help prevent market disruptions like this from happening in the future.

"The level of cooperation at all levels has been exceptional," she added.

"This voluntary program could not have received any degree of success without the efforts of flax growers, seed growers, buyers and processors and everyone in the supply chain. Together, we're moving the industry forward." ♦



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Reassessing the agricultural landscape

Are farmers paying too much for representation?

CANADA'S FARM

leadership landscape is in the middle of a massive overhaul.

That overhaul will undoubtedly result in the establishment of new organizations and new funding mechanisms.

But what types of organizations and mechanisms will emerge when the overhaul is finished?

Will Canada's new farm leadership structure be a fully loaded Cadillac with all the bells and whistles? Will it be a comfortable family sedan with improved fuel efficiency? Or will it be a classic Bel-Air, rebuilt Cuban-style with binder twine and a trunk full of spare parts?

Since the elimination of the Canadian Wheat Board monopoly less than two years ago, at least six new farm organizations have taken root in Western Canada, all occupying space in the already crowded farm leadership landscape.

At the provincial level, one of the most important new developments has been the establishment of new provincial commissions for wheat and barley.

In Alberta, the Alberta Wheat Commission is now well established.

It was launched in August 2012 to collect producer levies on all types of wheat produced in the province and to serve as unified voice for all wheat growers in Alberta.

In Saskatchewan, the Saskatchewan Wheat Development Commission (SWDC) and the Saskatchewan Barley Development Commission (SWBC) are taking their first steps in the brave new world.

The SWDC and SWBC will also collect grower levies on wheat and barley production. The total of value of those levies will vary from year to year, depending on production, but it is safe to say that \$5 to \$6 million per year will be collected annually through new checkoffs.

Details of the work taking place at SWDC and SWBC is outlined on Page 36 of the 2014 Sask Seed Guide.

And in Manitoba, work is underway to establish a Manitoba Wheat and

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With many new organizations emerging in the agriculture sector and many existing ones trying to remain relevant, it is important that the industry take a broad approach to restructuring farm leadership functions. Farmers, who ultimately fund the various organizations, should take a critical look at the organizations they wish to support and the organizations that are not required. | FILE PHOTO

Barley Growers Association.

The MWBGA will serve a similar function as wheat and barley commissions in Alberta and Saskatchewan.

Provincial wheat and barley commissions in all three prairie provinces will be working with existing organizations — including the Canadian International Grains Institute (CIGI), the Canadian Malt Barley Technical Centre (CMBTC) and the Western Grains Research Foundation (WGRF) — to discuss funding issues and ensure that there is no significant duplication in key functions such as agronomic research and market development programming.

At the national level, the number of organizations jockeying for position has also increased.

In the past 12 months, two new national commodity councils have been formed.

Cereals Canada, whose membership includes grain handlers, exporters, producer groups, seed companies and end-users of Canadian grain, is billing itself as a multi-commodity organization designed to enhance the domestic and international competitiveness of all cereal grains grown in Canada,

including wheat, oats and barley.

Cereals Canada will support activities in the areas of research, agronomy, market development, market access and policy development.

Meanwhile, the Barley Council of Canada (BCC) was also formed last year to represent the interests of barley growers across Canada.

The BCC has indicated that it will work co-operatively with Cereals Canada but it will not join Cereals Canada formally.

The BCC feels the interests of barley growers would be better served if barley growers maintained their own separate organization.

Unlike Cereals Canada, BCC's membership is comprised primarily of growers groups and barley producer organizations.

The Prairie Oat Growers Association, POGA, has also indicated that it will not be joining Cereals Canada.

POGA leaders feel the oat industry's interests could be overlooked in a broadly-based organization that includes multiple stakeholder groups and represents several commodities.

CONTINUED ON PAGE 106

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Meanwhile, other established organizations such as the Canada Grains Council (CGC) and Grain Growers of Canada (GGC) are also vying for a position in the crowded farm leadership landscape.

Sprinkle in a handful of other organizations such as the Saskatchewan Winter Cereals Development Commission and the Western Canadian Wheat Growers and the farm leadership landscape begins to look like a dog's breakfast of sometimes-aligned and sometimes-competing interests.

With all those organizations and all that potential for duplication, it's little wonder that a lot of prairie farmers are beginning to ask the obvious question: Are all those organizations really necessary?

Richard Phillips, president of the Canada Grains Council, addressed that question during a recent presentation to the Inland Terminals Association of Canada.

Phillips, who previously served as executive director of the Grain Growers of Canada, suggested that the farm leadership landscape during the last couple of years has become crowded and confusing.

In his presentation to ITAC, he asked

the audience to consider two questions: How many farm organizations do farmers need? And how many farm organizations can the industry itself support?

"We have a lot of ... organizations out there," said Phillips.

"There's regional organizations. There's provincial organizations and there's multi-provincial organizations," he said.

"We (also) have national organizations ... we have policy-focused organizations, we have research-focused organizations, we have trade focused organizations and we even have a few unfocused organizations."

"At the end of the day, growers are paying for all of these groups and if growers want these groups, that's fine," Phillips said in a subsequent interview with the *Sask Seed Guide*.

"But we just have to make sure that we're all pulling in the same direction.

"Post-CWB, we just need to make sure we're all on the same page."

According to Phillips, the decisions made by Canadian farm leaders in the coming months will ultimately determine the competitiveness of the country's grain industry for years to come.

To maintain and expand global

market share, Canada's grain industry stakeholders, including farmers, seed companies, grain handlers, exporters and researchers groups, must deliver a clear and consistent message that is representative of the entire Canadian industry.

Different interests will always exist among different industry players.

But it is important that the industry identify and pursue mutual interests that benefit all stakeholders in the Canadian value chain.

"We simply need to put people in the room and say, 'How can we make this work,'" Phillips said.

"How do we build that trust so that you know, even if you are small group, that your views are recognized and you have your say?"

Jean-Marc Ruest, a senior executive with Richardson International who was also a founding director of Cereals Canada, said the industry's ability to address key issues as a unified force will be critical to ensuring a healthy and vibrant cereals sector in Canada.

"I think the key really is going to be communication between the organizations," Ruest said.

"I think the dialogue up to now has been very good, very healthy and I expect that to continue." ♦

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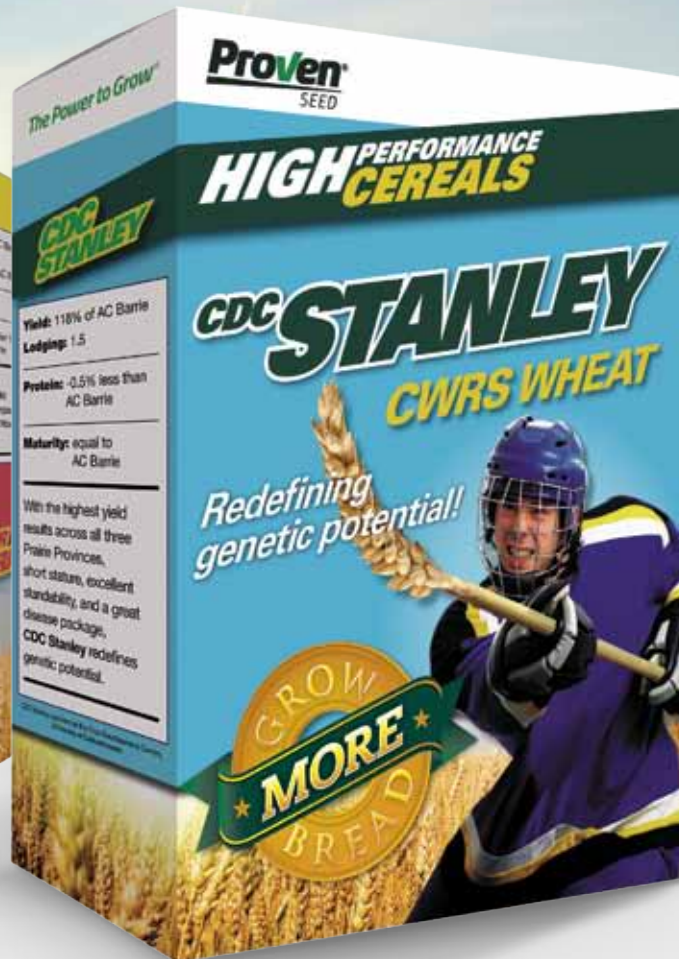
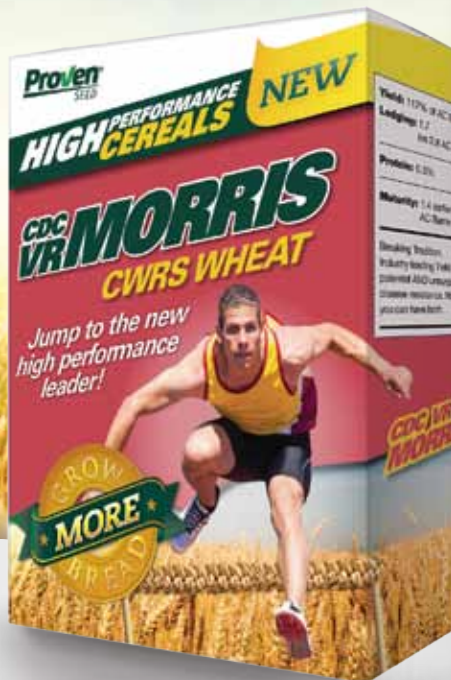


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