

# Alberta Seed Guide

ADVANCING SEED IN ALBERTA

FALL 2012

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## NEW VARIETIES

*What to plant for 2013*

## ACCESSING INTERNATIONAL MARKETS

*How seed and market  
changes are opening doors*

## CEREAL RESEARCH

*New projects and  
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|          |      |
|----------|------|
| L Series | 40.6 |
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N = 55

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|          |      |
|----------|------|
| L Series | 42.8 |
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N = 67

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STEVEN MILLER



RYAN MERCER

**THIS** upcoming January, the Association of Alberta Co-op Seed Cleaning Plants Ltd. will be celebrating its 60th anniversary. Some 60 years ago, the need for all farmers to have access to a source of weed-free seed was identified as a vital step in helping to control the spread of weeds in the province. Out of this need arose a plan that saw farmers, municipalities and the provincial government each contribute a third of the cost toward the building of state-of-the-art seed cleaning plants throughout the province. Today, this association of 69 Alberta plants, along with two plants from British Columbia, continues to fulfill its mandate of providing farmers with the cleanest seed possible.

That is not to say that there have not been challenges along the way. Some of these challenges have proven to be insurmountable, but most have not. As in all other walks of life, these obstacles have made the survivors stronger and eager to face the future.

Today the member plants of the Association of Alberta Co-op Seed Cleaning Plants Ltd. are indeed looking forward to the future. Many are undergoing serious upgrades to their infrastructure so as to accommodate the ever-increasing needs of their shareholders. More than a few are planning to rebuild their facilities from the ground up. Also, several of the plants are providing value-added services for their customers' benefit. Some are even exporting product all over the world.

The future looks bright for our seed cleaning plants. Yes, there will be challenges—there always are. These challenges should not be avoided, but instead viewed as opportunities to grow and flourish.

Thank you to those who, 60 years ago, had the foresight to start down this road. And thank you to those who continue to work together as farmers and staff of these cooperatives. Your contributions continue to make a positive difference in our communities.

**Steven Miller, President**

Association of Alberta Co-op Seed Cleaning Plants  
 Email: [stevenmiller@mcsnet.ca](mailto:stevenmiller@mcsnet.ca)

**WELCOME** to the Fall 2012 issue of the *Alberta Seed Guide!*

Our theme is "Global Opportunities." Excellent growing conditions and harvest weather allowed us to put some good quality seed and grain away for marketing this winter. Never before have I been able to call up several Canadian and American buyers of winter wheat to negotiate and make as many product sales as I needed to ensure I had ample bin space right from the seat of the combine! A lot has happened this past year with regard to grain marketing here in Canada, and of course with change comes new opportunity. We have access to technology we didn't have only a short time ago, and this keeps changing and improving as well. The world is getting smaller in many respects. We now have better access to global weather information, world commodity and crop input supplies, utilization and pricing, freight costs, and energy values.

Marketing is very important and essential to all farm operations; however, one cannot overestimate the importance of research and development to ensuring Canada remains competitive in the global marketplace as a reliable supplier of high-quality product. Canada has done an amazing job with the limited funding available for genetic and varietal development. However, without an increase in resources in this area, we will fall behind. The Alberta Seed Growers' Association is leading a group of cereal industry grower organizations in an effort to explore various models for producer, public and private led research and development. An article on this topic, among others, can be found in this issue of the *Alberta Seed Guide*, exploring how we can become stronger working as a team through a spirit of partnership as we take advantage of these "Global Opportunities." Enjoy!

**Ryan Mercer, President**

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Seed Industry Partners



ASSOCIATION OF ALBERTA CO-OP SEED CLEANING PLANTS



ALBERTA SEED GROWERS' ASSOCIATION





MINISTER OLSON

As Minister of Agriculture and Rural Development, it is my pleasure to extend greetings to readers of the **Alberta Seed Guide**, and to thank the Alberta Seed Industry Partnership for its work educating and informing Alberta producers about seed issues.

The Seed Industry Partnership has been instrumental in promoting Alberta's seed industry. This edition of the seed guide offers a wide range of information on topics from research to international markets. It's important for each of us to understand the significance of our province's agriculture industry, its future, and how Albertans and people around the world will benefit.

In 2011, Alberta's exports of primary and processed agricultural and food products totalled \$8.1 billion. As the world's population has now surpassed seven billion people, the global market for exports

will continue to grow, particularly in developing countries where a blossoming middle class has increased demand for high-quality foods like Alberta pulses and canola.

Now more than ever, we must work to solidify Alberta's reputation as a preferred and reliable supplier. I am confident readers will come away with new ideas and useful information to grow their operations now and in the years to come.

I wish Alberta producers a productive and successful year. Once again, thank you to everyone at the **Alberta Seed Guide** for your efforts in continuing to put together such a dependable source of information.

**Verlyn Olson, Q.C.**  
Minister of Agriculture and Rural Development



SHAWN BROOK

We've gone back to our roots! When you picked up your Fall 2012 issue of this very important decision-making tool, you might have noticed a different title on the front cover. Don't worry, it's all the same great information, but we're calling it like it is ... the **Alberta Seed Guide**.

Most of you had a wild ride this year, and while some of you are enjoying a fantastic harvest, some fields are still drying out and others are experiencing the famous snow/rain dance. One thing is certain: we are all actively looking toward next year and the decisions and excitement it will bring. There are many pressures on our industry, and staying focused on starting with great seed is an important insurance policy for the coming year as we continue to fight both weather and pest pressures.

Gone are the days when if you built it they would buy it. We are in a new marketing era, and understanding the global market, although slightly daunting, can bring success beyond your wildest dreams. Filling

lucrative niches within any industry is a profitable approach to doing business, and agriculture is no different. We must continue to improve our understanding of global market forces and position ourselves to access these markets. Reach out with all of the power and effort you can to ensure you are part of the new marketing reality—and remember that there are many resources to help you get there, including the **Alberta Seed Guide**.

Finally, I must send out a huge thank you to all of Alberta's seed growers and seed cleaning plants for their commitment to offering Alberta farmers a solid foundation on which to build their businesses. Alberta farmers are poised for success, and we hope that you are able to capitalize on the many opportunities in 2013.

**Shawn Brook, Publisher**  
**Alberta Seed Guide**  
Email: [sbrook@issuesink.com](mailto:sbrook@issuesink.com)

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# Alberta Seed Guide

Fall 2012

Seed Industry Partners



ASSOCIATION OF  
ALBERTA CO-OP  
SEED CLEANING PLANTS



ALBERTA  
SEED GROWERS'  
ASSOCIATION

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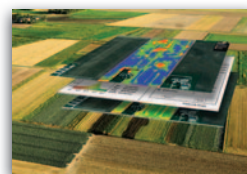


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### KEYNOTE SPEAKERS INCLUDE:

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|   |    |    |    |   |
| <p><b>David Chilton</b><br/>Author of Canada's all-time bestselling book, <i>The Wealthy Barber</i>, one of the Dragons on Dragon Den and a mentor to many successful entrepreneurs, and will be speaking on entrepreneurship.</p> | <p><b>Don Bell</b><br/>One of the four founders of WestJet, is widely credited with helping to make the company one of the most successful airlines in North America.</p> | <p><b>Jack Schultz</b><br/>The Director of the Christopher S. Bond Life Sciences Center in Missouri will share some remarkable breakthroughs on plant reactions to environmental stimuli that will impact your farm in the near future.</p> | <p><b>Dr. Danny Klinefelter</b><br/>"One of the 25 people in the world who will have the greatest influence on the future of American agriculture." -Top Producer magazine</p> | <p><b>Mike Dolinski</b><br/>One of industry's best, illuminating complex plant and insect interactions in a practical, fun, and hands on approach that farmers and agribusiness people from across Western Canada have come to appreciate.</p> |

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# GET ONLINE!

As you begin your planning for the 2013 cropping season, don't forget to visit [seed.ab.ca](http://seed.ab.ca)—the website of the *Alberta Seed Guide*—to help you with your seed cleaning and planting decisions.

**AS** you settle in to read your Fall 2012 issue of the Alberta Seed Guide, don't forget about [seed.ab.ca](http://seed.ab.ca). This one-stop web portal offers you access to the decision-making information you require at the tips of your fingers. User-friendly search tools help you quickly source seed for sale and seed cleaning services, find updates on issues the industry is facing, connect to industry

resources, or check out new and past issues of the magazine online in an easy-to-navigate page-flip reader.

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This new package of information, combining print and digital content, will keep you informed and prepared to make all of your input decisions for the coming year. As the site continues to evolve and present more features, we also welcome your feedback on tools and information you'd like to see added online. Send your suggestions to Kari Belanger at [kbelanger@issuesink.com](mailto:kbelanger@issuesink.com) or Lorena Pahl at [lorena.pahl@seed.ab.ca](mailto:lorena.pahl@seed.ab.ca).

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# Doors Open

International markets are opening up to Canadian agricultural products after a recent flurry of trade missions, negotiations and agreements.

**TO** a country that exports almost half of its total agricultural production, Canada's access to international markets is crucial. Over the past two years, market access has been a priority of the Canadian government after its recognition of the role Canadian agriculture plays as a key driver of Canada's economy. Several successful international trade missions have expanded existing markets and created new trade opportunities for Canadian agricultural products, which is great news for the seed industry, says Canadian Seed Trade Association president, Stephen Denys.

"Overall, the CSTA views the extensive work that is being done on international trade agreements very positively," says Denys. "Every crop sector has opportunities coming from these agreements. It doesn't matter where you are in the country—there are some nuggets in there for everybody."

For example, a trade mission to China last February resulted in an increase of Canadian canola meal exports to the Chinese feed

company Tongwei Co. Ltd.—up to \$300 million annually by 2015 and \$900 million over the next decade—as well as the signing of a Memorandum of Understanding on joint canola research between Canada and China.

"China is becoming a more consistent and larger market for canola," says Jim Everson, vice-president of corporate affairs for the Canola Council of Canada. "They are importing more oilseeds, and we are now consistently supplying them with volumes that are increasing regularly." He says a number of commodities, including canola, will benefit from China's increases in meat and milk production. "They need greater supplies of quality feed," says Everson.

Last March also marked the first Canadian commercial shipment of alfalfa hay to enter the Chinese market. The government is currently negotiating market access for timothy hay. According to an AAFC press release, the growing Chinese

dairy industry is also increasing demand for alfalfa hay, opening up more opportunities for Canadian producers.

Negotiations for an Economic Partnership Agreement with Japan were launched in March for the betterment of the agriculture industries of both countries. Trade mission delegates met with Japanese beef, pork, grain and oilseed buyers in an effort to grow market opportunities. In partnership with the Canadian Wheat Board, the Canadian Grain Commission and the Grain Growers of Canada, Agriculture Minister Gerry Ritz also guaranteed the continued supply of Canadian wheat and barley to the Japanese grain industry. Minister Ritz then travelled to South Korea to restate Canada's support for increased agricultural trade between the two countries.

A trade mission to Morocco the following month resulted in discussions of a Canada-Morocco free trade agreement as well as the signing of an MOU on agricultural cooperation. Morocco is an important market for Canadian durum wheat and pulses. Minister Ritz travelled from Morocco to Saudi Arabia in an effort to deepen economic ties with the Middle East.

## **“We must take a leap forward to catch up with the rest of the world just so we can level the playing field.”**

– Stephen Denys

However, it is the Canada-European Union Comprehensive Economic and Trade Agreement and the Trans-Pacific Partnership Agreement negotiations that may most profoundly affect the seed sector.

### **Negotiations**

Canada and the European Union have completed the ninth round of negotiations toward the CETA with the hope of concluding talks in 2012. The EU is a major market for the Canadian seed industry, says Denys, purchasing over \$81 million in seed exports from 2007 to 2008, forage markets worth more than \$10 million from 2006 to 2007, and \$3 million in timothy hay exports. “The seed trade believes there is potential to increase exports to the EU,” he says. “We hope those markets will expand as we go forward.”

Everson says a trade agreement with the EU could also help lift barriers to trade. “There are some tariffs in place on oil imports into the EU. Any reduction in tariffs usually leads to easier opportunities to enter the marketplace.” He says the negotiation of trade agreements with countries of larger economies is also exciting.

“While Canada has a reputation for negotiating free trade agreements, in the past they have been with smaller economies. These are important to some sectors, but from an agricultural point of view and [particularly] canola, we're encouraged by negotiations with larger economies. Generally speaking, coming to agreements like this where the end result is a more predictable and liberalized trading environment—that's also encouraging to us,” says Everson.

Meanwhile, in June, Canada was the eleventh country invited to participate in the TPP negotiations aimed at regional trade liberalization. “If you consider the countries involved, [they] account for 76 per cent of our seed exports. It's already a major market for us, but there's also a good opportunity for expansion if the agreement is put into place,” says Denys.

Everson says Canada's invitation to the TPP negotiations is an interesting development. “Multilateral agreements are preferential to bilateral agreements because there are elements of international trade that are not easily resolved through bilateral agreements.” He says a regional trade agreement involving a number of important nations may be another way of finding solutions to trade issues and could set a precedent for other trade arrangements. “The Asia-Pacific market is really important, so we're very pleased that Canada has been able to get a seat at the table, and we look forward to those negotiations,” says Everson.

“Both of these agreements are tremendously important to the seed sector,” says Denys. However, industry must continue to work closely with government to resolve tariff and non-tariff issues impeding trade, he says. “As part of the negotiations, we have to put a zero-based tariff environment in place across the board. We need synchronicity of approvals of biotechnology products and seed treatments, and progress in terms of low level presence policies for biotechnology traits.”

Although progress has been made over the past few months at international meetings to move toward some sort of consistency in terms of LLP measurements, work continues to resolve this issue in order to reduce trade disruptions. “With the equipment we've got today, zero is not really an option,” says Denys.

### **“A Leap Forward”**

Another area in which progress must be made, says Denys, is attracting investment to the Canadian seed industry. “In crops such as cereal grains, forages and, especially, open-pollinated crops—pretty much any crop outside of canola, soybean and corn—we must strengthen our intellectual property protection laws so that companies want to invest in Canada,” he says. While many nations are in agreement with the 1991 Act of the International Convention for the Protection of New Varieties of Plants, Canada's legislation does not comply with this most recent convention.

“We must take a leap forward to catch up with the rest of the world just so we can level the playing field,” says Denys. “The reality is that in order for producers to succeed and be competitive globally, they need the best technologies. At the end of the day, the producer benefits—if the producer doesn't benefit you won't be able to sell anything on the market.”

So far, the Canadian government has been a willing listener to the needs of the seed trade, says Denys, who wants the government to continue on its negotiating path, keeping the seed sector in mind. “At the end of the day, these agreements are not only positive for agriculture, but are positive for the seed industry,” he says. “Most importantly, it's positive for our producers and that makes it good for the farm economy as a whole and for the country. I see Canada in a very good position going forward.” **Kari Belanger**



# Trade Talk

**The *Alberta Seed Guide* talks to Agriculture and Agri-Food Canada about new trade opportunities and research initiatives.**

**ASG: New international markets have opened up to Canadian products—what cropping and breeding trends will develop from these new markets?**

AAFC: We anticipate that new markets will expand the specification requirements for our crops. New breeding trends will address these requirements in addition to agronomic research which will address the need for improved and higher yielding varieties with greater resistance to disease, pests and drought.

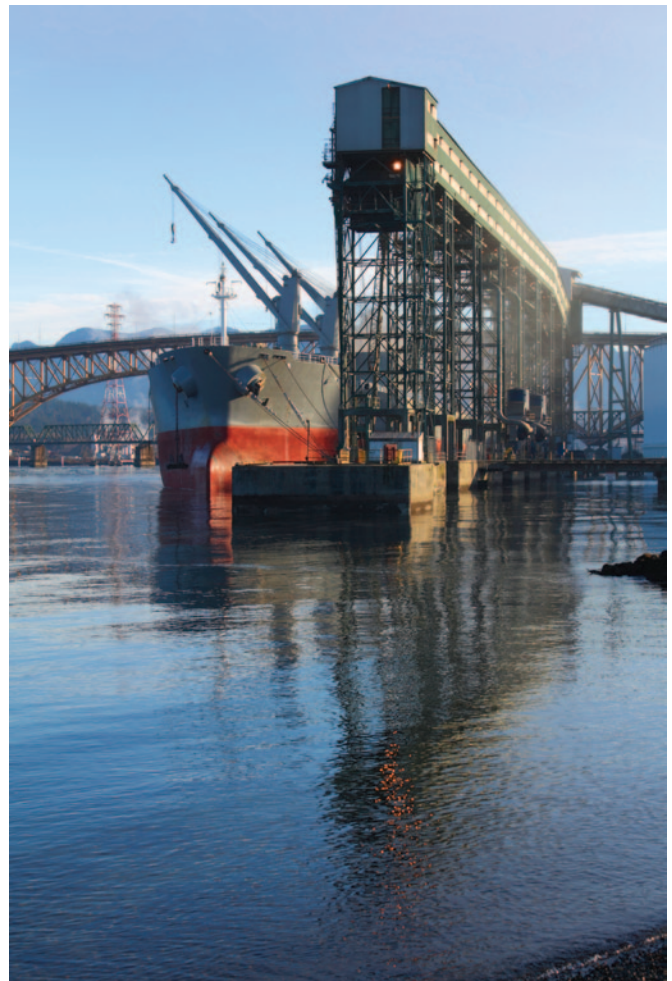
Some examples of new international market opportunities include:

- Forage market in China: recently received approval for alfalfa and working to gain access for timothy hay into a growing market for forages as China increases animal/dairy production.
- Pulses in China: resolved selenium restrictions on pulses going into China, opening up the opportunity to broaden applications and utilization of Canadian pulses in China.


Agriculture and Agri-Food Canada supports industry-led research to capitalize on the opportunities created when new markets open. One way we are doing this is through the Agri-Science Clusters—large research networks pulling in partners from across sectors, including industry, universities and governments. Part of what these networks do is to identify the priority research for their sectors to take advantage of market opportunities. This could involve substantiating their health benefits of crops or improving their appeal to foreign markets.

Some examples include:

- Pulse Cluster led by the Pulse Crops (Canada) Association. The Pulse Science Cluster aims to augment existing research investments, to advance sustainable production and to enhance profitability of the Canadian pulse industry. One of the three research themes is genetic improvement of pulse varieties to enhance the competitiveness and profitability of Canadian pulse crops. Research will focus on plant breeding and trait development for the creation of pulse varieties with improved adaptation to a changing climate, improved disease resistance and increased yield.
- Canola/Flax Agri-Science Cluster led by the Canola Council of Canada. The cluster brings together canola research in three



Joining the Trans Pacific Partnership will keep Canada on an even playing field with the United States, Australia, Chile and New Zealand in important export destinations.



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areas: oil nutrition, meal nutrition and crop production. The oil research will focus on the associated health benefits of canola oil. The meal research will look to enhance the energy content in meal. The production research is intended to increase acreage, yield and grower profitability to meet 2015 targets in a sustainable manner. The flax research focuses on nutrition. The industry is investing in science to continue to demonstrate the health benefits of flax aimed at supporting health claims in its target markets.

### **ASG: How will this affect commodity demand?**

*AAFC:* We are confident that our world-renowned reputation for high-quality commodities will be enhanced which will result in increased export demand.

### **ASG: Will demand created from new markets boost research spending?**

*AAFC:* Producers and companies recognize the value of research and provide significant funding to develop new varieties and products. Farmers and industry will profit from new demand resulting from the opening up of new markets, and we expect that their research investments will change to reflect the opportunities available.

AAFC plays a role in funding, pulling together and collaborating with networks of partners, including associations, universities and industry in pooling resources and providing leadership in setting research priorities and coordinating research for their sectors. Many of these networks are doing research projects that position their sectors to take advantage of new trade opportunities.

AAFC's collaboration with other countries on mutually beneficial research can also help to open new markets. This collaboration can include scientist and student exchanges, joint research projects and demonstration farms. For example, a joint oats breeding program between Canada and China has brought together Chinese and Canadian expertise and created awareness of the quality of Canadian oats and a potential market for Canadian oats in China.

### **ASG: What new marketing opportunities do you see developing?**

*AAFC:* We see new marketing opportunities for food-grade crops in oats and barley, malting barley varieties that meet brewing specifications, and pulses that are better suited to be milled into flour to enhance the nutritional value of food.

Many of the countries we are engaging with have less land and fewer water resources than Canada. Products, services, acumen and technologies that help deal with such resource constraints should find a ready market. Within those countries there is a growing need for crops which are drought tolerant and salt tolerant.

The AgriMarketing Program assists a wide range of agricultural sectors to develop and implement long-term international strategies which help these sectors identify and seize new opportunities. With respect to sectors such as grains, pulses and forage, the AgriMarketing Program has provided significant

support to seize opportunities in markets such as the United States, Japan, China, India, South Korea, Vietnam, Thailand, Turkey, United Arab Emirates, Europe, Mexico, Columbia and South Africa.

### **ASG: What will the Canada-European Union Comprehensive Economic and Trade Agreement mean to the seed industry and market access?**

*AAFC:* Negotiations with the EU towards a Comprehensive Economic and Trade Agreement (CETA) are ongoing and well advanced. Both sides are committed to maintaining the rapid pace of negotiations to meet the objective of finalizing negotiations in 2012. In the negotiations, Canada is committed to an ambitious outcome on tariff liberalization, including for cereals, pulses and seeds. A future CETA would be expected to eliminate tariffs or make permanent current duty-free access into the EU for these products. Canada is also pursuing satisfactory treatment for a number of sanitary and phytosanitary issues

**“We see new marketing opportunities for food-grade crops in oats and barley, malting barley varieties that meet brewing specifications, and pulses that are better suited to be milled into flour to enhance the nutritional value of food.”**

and technical barriers to trade, including issues related to biotechnology, which will be key to ensure real and effective gains in market access.

### **ASG: What will Canada's participation in the Trans Pacific Partnership mean for the industry and market access?**

*AAFC:* Our interest in joining the TPP negotiations is to broaden and deepen our trading relationships in the Asia-Pacific region. The nine current members of the TPP represent a market of 510 million people and a GDP of nearly \$18 trillion. With Canada and Mexico, TPP market potential grows to more than 658 million people with a combined GDP of \$20.5 trillion.

Joining the agreement would keep Canada on an even playing field with the United States, Australia, Chile and New Zealand in important export destinations, especially in Malaysia and Vietnam, two of the fastest-growing agri-food importers in Asia.

**Kari Belanger**

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# China and Canada Collaborate on Blackleg Research

**China has become a major importer of Canadian canola seed, meal and oil. Exports of Canadian canola products to China in 2011–12 were valued at \$1.6 billion.**

**“CHINA** is an important and growing market,” says Patti Miller, president of the Canadian Canola Council. “At the moment we have a significant amount of canola seed going to China, so we currently have access to the Chinese market, although it is limited to a number of crushing plants because of their concern about blackleg disease.”

The Chinese have justifiable concerns about blackleg as they do not yet have any reports of the virulent strain *Leptosphaeria maculans*, which is common in some canola-growing areas of the world and has been found in all of the Prairie provinces in Canada in 2012. Most blackleg infections come from infected canola residue, and Canadian growers are being encouraged to lengthen rotations, plant resistant varieties and use certified seed in an effort to reduce the risk of blackleg infection.

In 2009, China imposed restrictions on Canadian canola imports due to concerns about the possible infection of Chinese rapeseed crops with blackleg. Exceptions were made to allow some crushing plants located far enough from Chinese rapeseed-growing areas to import Canadian canola seed.

Despite the restrictions, exports to China have continued. China imported nearly 2.7 million tonnes of Canadian canola in



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2011–2012, nearly three times the previous year's purchases, and just behind a volume of almost 2.9 million tonnes in 2008–09, according to the Canadian Grain Commission.

In February 2012, Prime Minister Stephen Harper and Chinese Premier Wen Jiabao signed a Memorandum of Understanding to allow for joint research between Canada and China into blackleg disease as part of an ongoing strategy to achieve a stable trading environment with China.

The Canada-China Co-operative Research Plan for Blackleg Risk Mitigation consists of research projects that aim at better understanding the efficacy of current measures, and that explore the feasibility of potential new measures which could be implemented to help mitigate the risk of blackleg in the export of Canadian canola seed to China. The blackleg research plan is being coordinated by the CCC, with technical input from the Canadian Food Inspection Agency. The CFIA is responsible for collating the data and sharing updates of the results from the research projects to its counterpart in China.

"It's an ongoing, joint research project with China to learn more about the science of blackleg and how it is transmitted. After the research is done, we will be trying to determine ways of mitigating its transfer to Chinese crops," says Miller. The CCC is funding the research projects through Agri-Flexibility funds received from the Government of Canada.

There are many different research projects being conducted across Western Canada by researchers from Agriculture and Agri-Food Canada, Saskatchewan Agriculture, Alberta Innovates: Technology Futures, Alberta Agriculture and Rural Development, Simon Fraser University, and the Universities of Saskatchewan, Manitoba and Alberta.

One aspect of the China/Canada blackleg project is a three-year survey of canola crops across Western Canada to determine the amount and severity of blackleg. "A uniform protocol was decided on to survey canola fields and process the data collected," says Ralph Lange of AITF, the survey's national coordinator. Survey results are still being compiled for 2012, but in 2011, basal blackleg cankers were observed in 66 per cent of surveyed canola crops in Alberta, an increase of 12.6 per cent over 2010. The increase may be due to weather conditions conducive to disease development as well as improvements in the ability to identify the disease.

"The main purpose of the survey is to compile the information for CFIA, and they then take our survey data and results from their own DNA testing on field samples infected with *Leptosphaeria maculans* and share the results with the equivalent Chinese agency," says Lange. "It's one part of the trade restriction mitigation efforts, along with the many other projects being done at other research centres across Western Canada."

"I think what we have is a very robust, comprehensive research plan, and we are going to let ourselves be led by science and work with an important customer to ensure that we are taking care of their concerns and mitigating the transfer of blackleg to their crops," says Miller. "I am optimistic that we have a really good working relationship with the Chinese on tackling this problem together through the proper application of science." **Angela Lovell**

### Blackleg Research Projects

Some of the prominent research projects of the Canada-China Blackleg Risk Mitigation Research Plan include:

Understanding the effect of commercial crushing conditions (heat and chemical solvent) on blackleg associated with canola seed for crushing.

Understanding the ability of blackleg-infected canola seeds to spread the disease.

A survey of the distribution of blackleg in Canada to determine the incidence of the pathogen.

Developing a cross-border transmission risk model. The model will also consider current management practices in China, such as flooding in paddy rice-rapeseed production, and blackleg resistance in Chinese rapeseed germplasm, which could mitigate the risk of blackleg on Chinese rapeseed production.

### 20/20 Blackleg Quick Test

20/20 Seed Labs Inc. in Nisku, Alta., has recently developed a DNA canola seed quick test for blackleg in conjunction with Alberta Innovates: Technology Futures. The test reduces the amount of time to detect the virulent strain of blackleg *Leptosphaeria maculans* to only one to two working days. A traditional, microbial grow-out test can take two to three weeks. Although the relative costs of the two tests are comparable, the biggest challenge has been in determining the cut-off levels to compare infection rates using the DNA method to the traditional plate test, which is standard in the seed industry.

"DNA tests in general can be quite sensitive," says Kim Kenward, research manager at 20/20 Seed Labs. "It's a standard problem when you are trying to develop a molecular test that compares directly with a microbial grow-out test. DNA tests measure the total number of target fungus DNA present in an overall sample while a microbial test tells you how many infected seeds there are. Level of infection can vary between seeds but a plate test will not see that. We have put a lot of work into figuring out appropriate cut-off levels to relate the amount of blackleg fungus DNA present with what would come up as a 0.1 per cent infected seed result on a plate test."

Generally, certified seed retailers do not want to see an infection rate of even 0.1 per cent (which is 1 in 1,000 seeds). It's expected that the DNA quick test will eventually gain popularity among seed companies due to its rapid response time and the concern of important export markets, such as China, over possible blackleg contamination from imported canola seed.



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# OPPORTUNITIES, OPTIONS AND OBSTACLES

**August 1 marked the start of a new grain marketing era in Canada. What impact will this have on the seed industry in Canada and, specifically, on new variety research?**

**AS** open marketing for western Canadian wheat and barley officially began on August 1, many farmers were already harvesting, and with most expecting bumper yields and decent prices, their thoughts have turned to where, when and how to sell that grain.

However, what effect will marketing freedom have at the other end of the agricultural cycle, as farmers prepare for another crop year and decide what seed varieties they will buy? What will new varieties look like and where will future breeding and research efforts be focused? What role will seed companies and agri-retailers play in this new environment?

More communication throughout the value chain and much stronger market signals are two of the big changes that some industry experts are predicting. "There will be more direct communication between buyer and seller, and that should provide us with more information on what the end-user is looking for and how that can be gained through a specific wheat variety or class," says Peter Entz, assistant vice-president of seed and traits for Richardson International Ltd. "The market will provide a stronger signal as to what varieties farmers may want to grow in the future."

### New Varieties

Seed companies and their retail partners will be at the forefront of developing new varieties that address the current and future needs of the market. "Companies like Richardson will be more active in terms of bringing varieties of wheat and malt barley to the market," says Entz. "Not that we will be doing the breeding

or variety development work, but just focusing and expanding the work we do with our cereal seed partners today."

As the market has increasing influence on what farmers decide to plant, seed companies are sure to put their research dollars into developing new varieties that have more disease resistance, higher yields and are adapted to Canadian prairie growing conditions. "Seed companies are going to have more influence on what happens in Canada now and they are going to be able

**More communication throughout the value chain and much stronger market signals are two of the big changes that some industry experts are predicting.**

to put their shoulder behind the research and marketing," says Dennis Squair, president of Agri-Trend Marketing Inc. "You can have seed companies developing what the millers are looking for and that's a semi-hard wheat. That will build up enough demand for wheat varieties that fit that need and will develop the wheat



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## New Marketing Era

market faster and bring a lot more profitability to the producer.”

That could mean more acres of red winter wheat or semi-hard wheat to serve the international bread market, as well as specialty soft white wheat for the ethanol industry, says Squair. “We have had a lot of hard Canadian Western Red Spring wheat in Western Canada and it’s a specialized market,” he says. “I think we are going to see more high-yielding, lower quality wheat in Western Canada because those types of wheat are more profitable.”

While the first push may well be to develop more varieties for the larger wheat programs, some see that eventually a demand for less generic, specialty varieties could develop. “I think we will see more niche opportunities like identity-preserved programs,” says Mark Lepp, co-owner and business manager at FarmLink Marketing Solutions. “Under the old system there were a lot of

buyers worldwide who couldn’t buy Canadian wheat because they were too small and didn’t have the minimum requirement of tonnes to participate. So I see markets like that opening up initially in the United States and then globally that are smaller in scale but more valuable to the farmer and the seed companies.”

Squair also thinks there may be some Roundup Ready wheat varieties introduced in the future. “I think more development of semi-hard red wheat in Canada will include some Roundup Ready varieties as well,” he says.

### **Additional Benefits**

The open market should also be a catalyst for some needed changes in the registration process, says Entz. “There needs to be an adjustment made to the registration process to allow for broader germplasm to enter the western Canadian system,” he



says. "There are good reasons to keep classes like the CWRS as is, but there is definitely a need to broaden out some other classes to attract high-yielding, semi-dwarf milling wheats with mid-quality attributes."

There will probably be a lot more players in the wheat and barley breeding business, says Lepp. "In the past most of the wheat breeders in Canada were public and we probably had three or four groups focusing on wheat and barley varietal development. Now you are going to have 20 or 25 different groups, which will help the genetics and the opportunities for the seed companies, seed retailers and farmers," he says.

### Marketing Help

One thing's certain: whether farmers want to market their grain with or without the CWB, there will be plenty of people to assist

them. "Those with access to markets, infrastructure to handle their grain, and day-to-day knowledge and understanding of the markets will be good partners for farmers wishing to market their grain," says Entz.

But that doesn't mean that wheat and barley growers are going to be willing to limit their newfound marketing freedom by committing to any one company or its products. "I think some of the seed companies may try to do some technical use agreements or production contracts if they are going to have a fair bit of money invested, similar to what we have seen with Roundup Ready canola," says Squair. "But I think producers are going to push back on that, maybe not as much with TUA's because they understand that there needs to be money to launch that research, but I think producers are going to want to have flexibility, and the grain and seed companies are going to want to try and tie them in."

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Wheat marketing is a complex business, with so many different classes, proteins and grades, and represents a big learning curve for many farmers, which makes Lepp surmise that many will rely at first on the larger line companies to help them market their grain, but as time goes on he thinks many will dip a toe in the water of marketing it themselves.

He predicts that many new players will join the grain marketing business as well as some long-established ones that can finally put their knowledge of the system to better use on behalf of their clients.

“I think it will take the growers a couple of years to get used to all these different programs and figure out what works best for them,” he says. **Angela Lovell**

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## Continued Investment in Wheat and Barley Breeding

Effective August 1, 2012, voluntary producer wheat and barley check-offs, which were previously collected and administered by the Canadian Wheat Board, will be collected at point of sale at grain handling operations licensed by the Canadian Grain Commission. Deduction coverage is limited to licensed grain handling operations and deductions will not be collected on imports, producer to producer sales, feed and exports not delivered through licensed operations.

This interim program provides a check-off that will enable farmers to continue to fund the Western Grains Research Foundation, the Canadian International Grains Institute and the Canadian Malt Barley Technical Centre at a level equal to the funding they received from the CWB prior to August 1, 2012.

Initially, the ABC will administer this program on a cost recovery basis to enable the program to get started, but it's expected that provincial commissions will eventually be established to assume responsibility for the check-offs. “The ABC took on this role because we think that farmers see the value in the recipient organizations,” says Lisa Skierka, ABC's general manager. “At the time we were the only existing provincial barley or wheat commission in Western Canada. As a grassroots farmer organization we think it makes sense for farmers to control their own check-off dollars and we are happy to administer it, on a temporary basis, until other provincial farmer organizations evolve.”

For farmers the biggest change will be that their cash purchase tickets will list a levy deduction for the check-off amount. “Licensees will deduct the check-off at the point when cash purchase tickets are issued to a producer instead of from a producer's final CWB payment,” explains Melanie Gustafson, policy economist at the CGC. “Producers will be able to request a refund of the amount deducted on an annual basis. This is similar to the existing structure that is being replaced whereby the funding for the WGRF is automatically deducted unless producers request otherwise.”

At the end of each month, licensees will submit the check-off monies collected, along with a report detailing the amounts collected from each producer's deliveries of wheat and barley to the ABC for disbursement.

The new check-off rates will be 48c/tonne on wheat (up from the previous 30c/tonne) and 56c/tonne on barley (up from the previous 50c/tonne). The increase of 18c/tonne for the

check-off rate on wheat reflects a 3c/tonne administrative charge and a 15c/tonne amount now going directly to CIGI that was previously channelled through the CWB. “What it means is that CIGI's activities in terms of market development and customer support will be funded directly by farmers,” says Heather Johnson, director of communications and branding for CIGI, “which really creates a new relationship between our organization and the farmers across Western Canada.”

The additional 6c/tonne added to the barely check-off will also include 3c/tonne for administrative costs and a 3c/tonne levy going direct to the CMBTC, which provides technical support, promotion and market development services for the Canadian malt barley industry. “In the past, producer support for the CMBTC has come through the CWB, so this [new check-off system] brings us closer to the producer. The funding is more transparent to them, so they will be able to see more clearly the value that we bring to them,” says Rob McCaig, managing director of CMBTC.

In Alberta the check-off for barley under this program is 4c/tonne as the ABC already funds research and market development in the province in other ways.

According to a WGRF spring survey, prairie farmers remain committed to the check-offs, which are used by the recipient organizations to fund ongoing wheat and barley breeding and agronomy research. “Farmers have been extremely willing to invest in wheat production when they get a pay back on that investment,” says Peter Entz, assistant vice-president of seed and traits for Richardson International Ltd. “I don't see that slowing up soon.”

The reality is that there are many priorities for public research dollars and farmers understand that, says Garth Patterson, WGRF executive director. “When you look at the global picture, Canada has been lagging other countries in our investment in wheat research for a long time,” he adds. “There is a need here for farmers to keep investing in variety development and we also have to be willing to continue working with private industry partners.”

It's estimated that the United States spends over \$600 million a year on corn variety development and around \$300 million annually on soybean breeding. Australia spends \$80 million a year on wheat variety development. Canada invests only \$23 million on wheat research. **Angela Lovell**



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# Expiration Date

**The expiration of Monsanto's Roundup Ready patent is creating a wave of discussion and confusion in the seed sector, and is raising new questions for the agriculture industry.**

**IN** August 2011, Monsanto's original patent on Roundup Ready soybeans expired in Canada. The effects will be fully realized in 2013, when farmers can plant original Roundup Ready soybeans from saved seed for the first time. In the United States, this same trait technology remains under U.S. patent protection until 2014.

During the term of these patents, Monsanto has had the exclusive right to exclude others from making, using, offering for sale or selling the protected technology. Once these patents have expired, in theory, Monsanto will no longer have the right to exclude others from the protected technology. However, the regulatory mechanisms that must be maintained for the commercialization of the Roundup Ready traits may make it difficult for others to make, use or sell products incorporating the protected technology after the patents have expired.

The agriculture industry has tackled a variety of issues over the years, but no issue has produced as much discussion and confusion as the expiration of Monsanto's various trait-based patents in the next couple of years.

The expiration of Monsanto's Roundup Ready or glyphosate patents creates interesting new questions for the industry.

- What happens between 2011 and 2013? What are the opportunities and obligations?
- What does the future hold for soybean production in Canada with Roundup Ready and other production technologies?
- Will the expiration of the Roundup Ready patents lead to generic Roundup Ready seed in the Canadian and U.S. markets?
- Who will pay for the maintenance of the regulatory approval in Canada, the United States and worldwide?
- How will the expiration of the Roundup Ready and other

trait-based patents affect the import and export of seed into the North American marketplace?

## Impact on Farmers

Monsanto launched an awareness campaign in January 2011 to provide Canadian farmers with information about their rights and responsibilities when the patent on original Roundup Ready soybeans expired.

In 2011, growers who used this technology were still doing so during the life of the patent; therefore, they had to follow the patent law associated with this technology. However, in 2012, "farmers could have decided to buy the original Canadian Roundup Ready (OR1) soybean technology certified seed from a company holding a valid licence for OR1 soybeans, without any contractual obligations or royalty payment to Monsanto. A farmer may decide to save seed from the 2012 harvest for replanting in 2013, as long as the seed company from which they purchased the seed, for 2012 planting, does not have any contractual obligations preventing them from doing so," according to the Monsanto website. And in 2013, "a Canadian farmer may decide to plant OR1 soybeans saved from his own seed."

It is also important to note that the next-generation Roundup Ready soybean technology (Genuity Roundup Ready 2 Yield soybeans) is protected by a different patent than the first-generation Roundup Ready trait. As such, the changes that affect the use of the OR1 trait technology, now that its patent has expired, do not apply to Genuity Roundup Ready 2 Yield soybeans.

"The vast majority of Canadian farmers respect patent law and continue to honour the terms and conditions of the Technology





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Stewardship Agreements they have signed,” states Monsanto’s website. “As it has done every year since the introduction of Roundup Ready soybean technology in Canada, Monsanto will continue to operate its Technology Protection Field Check Program as a way to help maintain a level playing field for all farmers using and benefitting from this technology. Ongoing compliance with the terms and conditions of the Technology Stewardship Agreement is an important part of ensuring that farmers continue to have access to new products and technologies. It also helps keep farming fair for everyone.”

### The Future

Canada and the United States have solid regulatory systems—most of the traits that are incorporated into GM crops are required to be regulated in Canada by the Canadian Food Inspection Agency and the Health Canada Pest Management Regulatory Agency and in the United States by the United States Department of Agriculture, the Environmental Protection Agency, and the Food and Drug Administration.

These regulatory bodies regulate the development, transportation, testing and disposal of plant material as an agriculture product. The PMRA and EPA will then regulate a GM product if there is a pesticide substance incorporated into the plant, such as the Bt gene.

During the life of the Roundup Ready patents, Monsanto has maintained the regulatory requirements of each agency for the introduction and commercialization of the Roundup Ready traits, including all of the data, in order to use these traits in Canada, the United States and international markets.

According to the article entitled *Roundup Ready Soybean Post-Patent Regulatory Commitment Extended through 2021* on the company’s website, Monsanto estimates that it spends approximately \$1 to \$1.5 million per year for the maintenance of regulatory approvals for a product. With the expiration of the last of the Monsanto Roundup Ready patents, Monsanto has stated

that it will maintain the Roundup Ready regulatory approval globally through 2021.

Based on this statement, it appears that Roundup Ready seed will still be available until 2021. Nevertheless, it is still unclear whether other seed companies will be able to produce and sell generic versions after this point.

Patent expiration is a complex issue, and as the seed industry transitions from patented to generic biotech events, many questions have been and will be raised. While it remains mostly an industry responsibility to address the questions, farmers need to be aware of the discussions and always ask seed retailers for all patent implications when purchasing any seed.

**Barbara Campbell, James M. Weatherly and Julie McNabb**

*Editor’s Note: Barbara Campbell and James M. Weatherly are attorneys in the Intellectual Property, Technology and Media Department of Holme Roberts & Owen LLP in Denver, Colo. Campbell and Weatherly have over 11 years of combined experience in prosecuting agriculture and biotechnology-based patents, plant patents, plant breeders’ rights and trademarks throughout the world.*

## WHERE ON THE WEB

More information about the opportunities and obligations available to Canadian soybean farmers is available at **SOYBEANS.COM**, a website dedicated to patent expiration that Monsanto launched in 2010.

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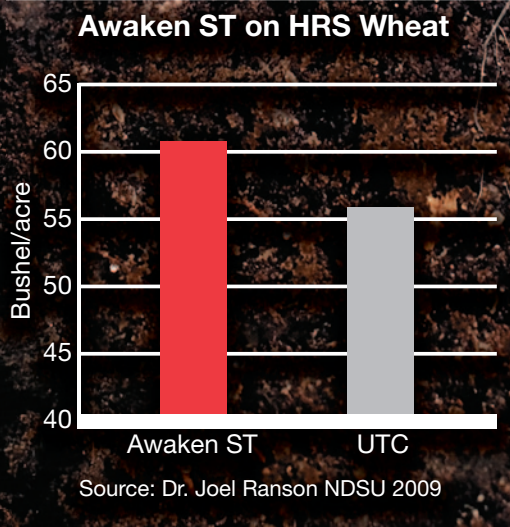
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# FALLING BEHIND

Canada’s failure to comply with the most recent plant breeders’ rights legislation is having a negative effect on innovation—putting breeding programs and growers across the country at a disadvantage when compared with other countries.

**WITH** new traits and opportunities on the horizon, the Canadian seed industry is still struggling with its biggest challenge—generating a return on investment through intellectual property protection. Canada is a member of the International Union for the Protection of New Varieties of Plants (UPOV), which provides an effective system of plant variety protection, but is one of the only developed countries in the world in which plant breeders’ rights legislation doesn’t comply with the most recent international convention, UPOV 1991.

PBR is one of the intellectual property protection mechanisms companies use to protect their inventions of new plant varieties and generate the revenue they need to reinvest in the development of new varieties, explains Patty Townsend, executive vice-president of the Canadian Seed Trade Association.

The World Trade Organization’s Intellectual Property Agreement requires that all countries have forms of intellectual property protection in place. Canada implemented its Plant Breeders’ Rights Act in 1990, and the legislation complied with UPOV 1978. That legislation was revised in 1991, and despite the fact that Canada has signed UPOV 1991, signalling its intention to ratify the agreement by amending its PBR legislation, those amendments have still not been made.

## Hindering Innovation

A recent survey completed by the CSTA of its members revealed that the private sector collectively invests 27 per cent of its combined operating budget in plant breeding and research, says Townsend, noting this investment is larger than that of almost any other sector in Canada.



UPOV 1991 promotes further breeding by making it compulsory for breeders to share their protected material for the development of new varieties.

Photo courtesy of Syngenta.

**Moving to UPOV 1991 will promote further investment in plant breeding, while failure to make the move puts Canadian breeders, and ultimately Canadian growers, at a disadvantage ...**

– Don McClure

This investment has been climbing every year for crops such as canola, corn and soybeans, but not in cereals, says Townsend, and consequently fewer new varieties of cereals are appearing on the market.

Don McClure, a soybean breeder with Syngenta Seeds Canada, says moving to UPOV 1991 will promote further investment in plant breeding, while failure to make the move puts Canadian breeders, and ultimately Canadian growers, at a disadvantage with respect to their counterparts in other countries, particularly the United States. The United States has ratified UPOV 1991 and has different rules under its Plant Variety Protection Act that allow breeders more freedom than we have in Canada, he says.

Lorne Hadley, executive director of the Canadian Plant Technology Agency, agrees. He says Canada is part of an international market for varieties, and if a company has a good variety but can't get adequate intellectual property protection in this country, it may choose not to market the variety here, and Canadian farmers lose out.

"The base standard for IP protection in the world is UPOV 1991, so that's where we need to be if we want to have the best varieties," he says.

Canadian producers are missing out on new plant varieties that could increase productivity and competitiveness, says Townsend. "As our member companies look for new germplasm



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Canadian producers may be missing out on new plant varieties that could increase productivity and competitiveness.

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to bring into Canada, they're finding that developers in other countries are refusing to send their germplasm to Canada because it can't be protected here the way it can be protected in other countries," she says.

### Producers' Concerns

Throughout recent years, farmer groups such as the National Farmers Union have resisted moving toward UPOV 1991. In one factsheet, NFU states, "seed transnationals such as Syngenta and Monsanto, along with supportive industry groups, are pushing for changes to Canada's seed and plant breeding systems. One proposed change is to tighten Canada's rules governing seeds and the protection of 'intellectual property rights' over those seeds ... Seed companies, industry supporters, and the Seed Sector Review recommend replacing our 'UPOV 1978' framework with the much more restrictive—for farmers—UPOV 1991 framework."

However, Townsend says there are many areas of misinformation out there when it comes to the impact UPOV 1991 would have on farmers, such as royalties. Producers believe the new convention will allow breeders to collect royalties on both seed and harvested material, but this is not the case. "A breeder cannot collect royalties on both the seed and the harvested material. It's only when they have not had the opportunity to collect on the seed that they can collect on the harvested material," she explains.

Townsend also notes that UPOV 1991 promotes further breeding by making it compulsory for breeders to share their protected material for the development of new varieties. UPOV 1978 does not include this provision.

However, the major concern producers have with respect to UPOV 1991 is about farm-saved seed, she says. "They're concerned that this ability will be taken away from them, but this is not the case. UPOV 1978 makes no mention of farmers' ability to save production and use it as seed; whereas UPOV 1991 contains specific language permitting countries to allow farmers to save production for use as seed on their own farms," says Townsend.

Townsend believes some farm organizations and producers don't understand what is required to move to the new convention. "There's been a lot of misinformation in the public about the potential impacts [of UPOV 1991], so there's a lot of nervousness about making the change," she says, noting that through its website, fact sheets and other material, the CSTA has been trying to address this misinformation.

"We're not saying that farmers are going to lose the farm because we want plant breeders' rights," she says. "We're saying that if farmers want new varieties and innovation in the Canadian plant agriculture industry, there needs to be a mechanism where funds can be generated for reinvestment."

### **Moving Forward**

The CSTA has been lobbying the government to comply with UPOV 1991. Along with other groups, the CSTA has taken the next step by developing amendments to the PBR Act. Townsend says they're now determining the best time to approach departmental officials and policymakers with the amendments.

To amend the act, a formal process has to be followed. A bill needs to be introduced, read in Parliament and debated in Parliament, and must receive royal assent by the Governor General. Alice D'Anjou, spokesperson for the Canadian Food Inspection Agency, says a bill amending the PBR Act to ratify UPOV 1991 provisions was introduced into Parliament in 1999. However, Parliament was prorogued that year and, consequently, the proposed amendments to the act were not passed.

From 2004 to 2005, the CFIA conducted a public consultation to verify that stakeholders continue to support any future changes to the PBR Act to reflect the UPOV 1991 provisions. Feedback confirmed that Canadian stakeholders generally support the amendments. Since that time, the CFIA has been working to assess the effect of ratifying UPOV 1991 on stakeholders.

However, the CFIA released a new regulatory renewal plan this past spring that places renewal of PBR legislation in a three- to five-year time frame. "This is not consistent with the government's innovation commitments," said the CSTA in a submission to the Senate Standing Committee on Agriculture and Forestry in March. "We submit that PBR is not a regulatory instrument, and should not be part of a regulatory reform process or schedule. It is an important tool to foster innovation and investment. Amending Canada's plant breeders' rights legislation should be a top priority and it should proceed on its own, expedited time lines." **Teresa Falk and Julie McNabb**

## **Producer Q & A with CFIA**

### **ASG: Would amending the Canadian Plant Breeders' Rights Act to conform to the UPOV 1991 convention affect Canadian farmers?**

*CFIA:* No. The amendments to have Canada's PBR Act conform to UPOV 1991 would not change what farmers are allowed to do with respect to protected plant varieties. The amendments contain new elements which are intended to facilitate a breeder's ability to enforce his/her rights on protected plant varieties.

### **ASG: Would amending Canada's PBR Act to conform to UPOV 1991 eliminate the farmers' privilege?**

*CFIA:* No. The amendments brought forward by UPOV 1991 would make it possible for Canada to explicitly lay out in the PBR Act that farmers would be allowed to save seed produced from a protected plant variety, and use it for replanting on their own farms. This is known as the "farmers' privilege" and is currently implicit in the PBR Act.

### **ASG: Would UPOV 1991 create more restrictions for farmers in buying and selling seed?**

*CFIA:* No. Even with Canada's current PBR Act, a farmer is restricted from buying or selling either pedigreed or common seed, or any other type of propagating material of a protected variety, without the permission of the breeder.

### **ASG: Would UPOV 1991 change the responsibility for the burden of proof in infringement cases?**

*CFIA:* No. As with Canada's current PBR Act, in an infringement case it is up to the breeder (the holder of the plant breeders' rights) to provide sufficient evidence to prove that someone has committed acts which constitute an infringement of the breeder's right.

### **ASG: Would UPOV 1991 place greater liability on farmers when harvesting grain from seed of protected varieties?**

*CFIA:* No. If farmers are obtaining seed of a protected variety legitimately, then there will be no increase in liability. In other words, if a farmer purchases seed of a protected variety from someone authorized by the breeder to sell it, the breeder will not be able to exercise his/her rights on the grain. UPOV 1991 provides breeders the opportunity to exercise their rights on the grain only if there was no reasonable opportunity to exercise their rights on the initial seed.

### **ASG: Would UPOV 1991 create more liability for seed cleaners?**

*CFIA:* UPOV 1991 extends the scope of the breeder's right to include the following with respect to a protected variety: importing, exporting, stocking and conditioning reproductive material (such as seed). This means that activities such as seed cleaning (conditioning) of a protected variety will require the permission of the breeder, unless the seed being cleaned is for planting on the grower's own land (that is, farm-saved seed). Where necessary, seed cleaners will need to be aware of which varieties have been granted rights, so that proper authorization has been obtained before cleaning seed of a protected variety.



# Controlling Clubroot

## Prevention and Management Strategies for Canola Producers

**I**f you live in central Alberta and grow canola, it is critical that you are aware of clubroot disease. Studies show that major infestations of clubroot may result in reductions of canola yield by half, and in some cases, total crop loss.

Clubroot is a soil-borne disease which affects the roots of canola and mustard as well as cruciferous vegetables, such as arugula, broccoli, Brussels sprout, cabbage and cauliflower. Cruciferous weeds, such as stinkweed, shepherd's purse and wild mustard can also serve as hosts.

The origin of clubroot in Alberta is not known; however, it has been a major issue for producers since its introduction. Resting spores can be transported from field to field via contaminated soil on agricultural, petroleum and construction equipment. Clubroot surveys have indicated most new infestations begin near the field access. Other methods of transmission include movement of soil via water or wind and soil attached to seed. What makes clubroot even more serious is the fact that the spores are extremely long-lived with a half-life of four years, and may survive in soil for up to 20 years.

The wet conditions of May and June in 2011 made that year particularly bad for clubroot in Alberta. Despite record seeded acres of canola this year, the wet weather early in the spring and summer will also pose problems for producers, says Murray Hartman, oilseed specialist with Alberta Agriculture and Rural Development.

"Clubroot in Alberta is still in an exponential spread phase with record chances of getting established in 2012. Clubroot is likely going to be a disease in central Alberta from now on—I doubt if it will ever go away," he says.

Since 2003, clubroot has been found in 830 fields in Alberta, with 265 cases in 2011 alone—the largest infestation to date.

### What to Look For

Roots of affected plants will have a club-like appearance, but this varies depending on growth stage. For example, at the seedling stage, infection can result in wilting, stunting and yellowing by the late rosette to early podding stage. Infection at a later growth stage may not present these symptoms; instead, plants ripen prematurely and seeds shrivel, reducing yield and quality.

### Curbing Clubroot

Control of the disease is being addressed through continued research and regulations. Clubroot was added as a declared pest to the Agricultural Pests Act in 2007. In Alberta, the act



Figure 1. Severe clubroot on canola.

Photo courtesy of Kelly Turkington.



Figure 2. Severe clubroot galls or "clubs" on canola root.

Photo courtesy of Kelly Turkington.



Figure 3. Moderately infected canola root.

Photo courtesy of Valerie Sowiak.

is administered through Alberta Agriculture and Food, with enforcement responsibility in the hands of local municipalities. Agriculture fieldmen or pest inspectors have the authority to enter land without permission to collect samples and inspect for pests. It is the ultimate responsibility of the landowner to ensure that management practices are put in place to assist with prevention and management of the disease. The creation of the Clubroot Risk Mitigation Initiative focuses research on pathology, breeding and disease management, utilizing approximately \$4 million of the Growing Forward fund.

### Prevention and Management

Currently there are no seed treatments or fungicides available to control clubroot in canola. Brassica vegetable growers have fungicide products available to them; however, application of these products on canola is too expensive and intensive at this time.

With no disease control available, industry experts agree prevention through appropriate stewardship practices is crucial. According to Hartman, the three most important prevention practices are as follows:

- equipment cleaning between fields (especially from infested fields);
- use of conservation tillage seeding methods to reduce soil erosion from wind and water; and
- growing of resistant varieties when clubroot has been found nearby or in the fields of a farm unit.

The success of growing resistant varieties also relies on appropriate crop rotations. Alberta Agriculture and Food and the Canola Council of Canada recommend a canola rotation of one in four years. Research conducted in Europe indicates a resistant variety loses its durability over time, thus making appropriate crop rotations key to the continued success of the technology developed to date. Once soil is infected, it is important to remember that management practices are more difficult and expensive to carry out, making prevention critical.

### Resistant Varieties Available to Date

Seed companies are continuing to develop resistant varieties. For example, Pioneer, DuPont, Viterra, Monsanto, Canterra and Bayer CropScience all currently carry clubroot-resistant varieties, most of which have had full registration since 2010. Bayer CropScience recently rolled out a new InVigor hybrid.

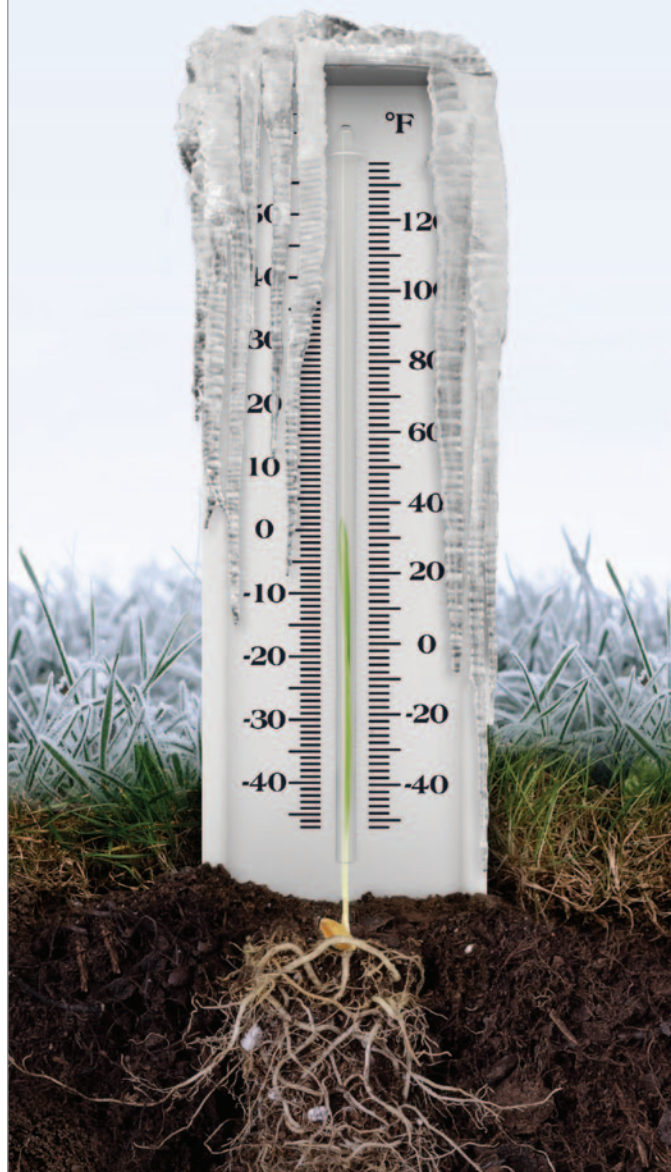
"InVigor L135C is resistant to all pathotypes of clubroot that have been found in infected areas. This hybrid is best suited to areas where the presence of clubroot has been confirmed," says Blaine Woycheshin, manager of oilseed crops, InVigor Seed for Bayer CropScience.

Chris Anderson, canola breeding lead for Monsanto, expects most companies will continue increasing their supplies of clubroot varieties in anticipation of high demand, considering the potential for more areas to be affected by clubroot. Monsanto currently has three commercially available varieties (73-67, 73-77, 74-47) and is working on the introduction of additional varieties each year.

"Awareness is the number one defense, it is essential for growers to make good choices with rotations and sanitation



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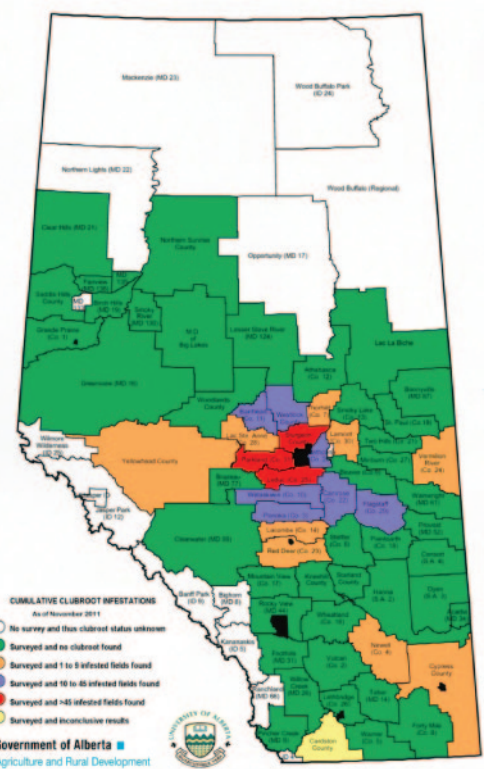
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**Figure 4.** Spread of clubroot disease and main areas of major infestations in 2011. Source: Alberta Agriculture and Rural Development

practices. Some farmers don't believe it will happen to them and it is important for seed companies and researchers to grow awareness of good stewardship practices," says Anderson.

Clubroot resistance could become a built-in feature in all future canola varieties, says Anderson, especially when considering potential outbreaks in other provinces. Over the next few years, Monsanto will be working toward a secondary source of resistance, and hopes to develop a variety with two separate genes, which would be more durable.

Anderson and Woycheshin both stress the need for use of proper stewardship practices in combination with resistant variety usage. However, growing a resistant variety is not a preventative measure on its own. Use of these varieties may reduce spore levels, but will not control spores already present in the soil. In addition, a low number of plants will still present clubroot symptoms. These plants may be non-resistant volunteers from previous crops or off-types that do not possess the gene. The key is to manage the severity of the infestation in order to protect yield and quality of the crop. Therefore, the sanitation practices mentioned above and proper rotation are crucial to ensuring the success of these products.

Hartman says he does not see the need to grow resistant varieties in areas that are far (approximately 50 kilometres) from infestations unless there are energy related projects occurring on their farms that involve drilling rigs and machinery.

Jennifer Ewankiw

## Pest Prevention

The Canola Council of Canada recommends the following management practices for clubroot disease prevention:

- Use long rotations—do not grow canola more than once every four years (e.g. three years out of canola).
- Planting clubroot-resistant varieties on fields with no history of this disease can be useful when clubroot is present nearby.
- Practice good sanitation to restrict the movement of potentially contaminated material.
- Use direct seeding and other soil conservation practices to reduce erosion.
- Scout canola fields regularly and carefully. Identify causes of wilting, stunting, yellowing and premature ripening—do not make assumptions.
- Avoid the use of straw bales and manure from infested or suspicious areas. Clubroot spores have been reported to survive through the digestive tracts of livestock.
- Avoid common untreated seed including canola, cereals and pulses.

Once soil is infested:

- Susceptible canola varieties should be avoided or not be seeded on infested land for five to seven years. Resistant varieties should not be seeded until after three years. Research indicates that the pathogen can survive in soil for up to 17 years; therefore, a break of five to seven years from canola will not eliminate the problem, but will keep the problem manageable.
- The extended rotation away from canola must also include diligent control of species susceptible to clubroot, including volunteer canola and weeds in the mustard family.
- Minimize soil erosion with zero or minimal tillage. Since clubroot is a soil-borne disease, the pathogen will move with wind or water-eroded soil.
- There is evidence that liming soils to pH 7 or higher will reduce the longevity of spores in the soil and/or disease severity.

## WHERE ON THE WEB

For recommended guidelines for field entry activities, visit [ARCHIVE.CANOLA-COUNCIL.ORG/CLUBROOT/DOCS/FIELD\\_ENTRY\\_1.PDF](http://ARCHIVE.CANOLA-COUNCIL.ORG/CLUBROOT/DOCS/FIELD_ENTRY_1.PDF)

For a clubroot field entry checklist, visit [ARCHIVE.CANOLA-COUNCIL.ORG/CLUBROOT/DOCS/FIELD\\_ENTRY\\_2.PDF](http://ARCHIVE.CANOLA-COUNCIL.ORG/CLUBROOT/DOCS/FIELD_ENTRY_2.PDF)

For a contact list of Alberta agricultural fieldmen, visit [AAAF.AB.CA/IMAGES/STORIES/AAAF\\_MEMBERS\\_COMPLETE.PDF](http://AAAF.AB.CA/IMAGES/STORIES/AAAF_MEMBERS_COMPLETE.PDF)





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# Clubroot by the Numbers

Since taking hold in canola fields in 2003, this disease has been making its presence felt and impacting farmers' bottom lines.



**6 WEEKS** The time it takes from infection until full-blown symptoms develop in plants

**1970s** Clubroot was first found on cole vegetables in a few home gardens in Alberta

**830+** The number of canola fields in which clubroot has been confirmed since 2003

**162** The number of new cases found in Barrhead, Leduc, Parkland and Strathcona counties in 2011

**\$2,000,000,000** The value of Alberta's canola industry being threatened by clubroot

**3–5 YEARS** The recommended length of crop rotation between successive crops of canola, mustard and cruciferous vegetables

**50** The number of scientists and research technicians working in Western Canada to conduct research on clubroot



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# The *Real* Value of Forage

A study in Alberta proves the direct and indirect value of forage crops to the agricultural economy.



**TRADITIONALLY**, forages have often been viewed as a restorative crop to prevent erosion, fatten cattle or to earn extra cash by selling the hay. It was sometimes viewed as a low-maintenance crop requiring little or no fertility, weed control or pest management. Those seriously involved in the forage industry have always known better and they are now being supported by a report that proves the direct and indirect value of forage in Alberta to be in the \$2.1- to \$3.8-billion range.

Stephanie Kosinski, a forage specialist with Alberta Agriculture and Rural Development and the author of *The Value of Alberta's Forage Industry: A Multi-Level Analysis*, says the value of the forage industry in Alberta is formidable. Often overlooked, forage production rivals that of the other agricultural commodities produced in the province. Seldom are forage crops viewed as viable cash crops, but their indirect value, as demonstrated in the report, should make the industry pay attention.

"When forage is grown on-farm, the value stays on the farm because it is fed to animals," Kosinski says. "Cattle producers are

**"The economic value of forage is huge because it starts at the farm gate and goes right through to the packers."**

– Terry Scott

good stewards of the land, and they know in the backs of their minds that they are maintaining soil health, protecting water and preserving wildlife habitats. We used a similar report from Saskatchewan as a template, and now that we have a template for Alberta, the potential exists to update it periodically to show what the industry is doing."

According to the report, some 11.6 million hectares (28.6 million acres) of forage crops are grown in Alberta each year. The list includes native range, tame or seeded pasture, forage seed production, alfalfa and alfalfa mixtures, corn for silage, and other tame hay or fodder crops. Tame hay average production (tonnes) is almost twice that of barley grain, even though the average farm value for hay is roughly half that of barley. Hay has an average farm value of close to \$79/tonne and just over \$618,000,000 in production value compared to approximately \$145/tonne and \$716,000,000 respectively for barley. In the final analysis, the total estimated direct and indirect economic value of Alberta's forage crops, according to the report, is \$2.09 to \$3.85 billion.

"The economic value of forage is huge because it starts at the farm gate and goes right through to the packers," says Terry

**Table 1.1 Forage Acreage in Alberta**

| Forage Type                            | Acres             | Hectares          |
|--|-------------------|-------------------|
| Native Range*                          | 16,135,646        | 6,529,886         |
| Tame/Seeded Pasture                    | 6,137,362         | 2,483,711         |
| Forage Seed                            | 244,615           | 98,993            |
| Alfalfa and Alfalfa-mixtures**         | 3,935,022         | 1,592,452         |
| All Other Tame Hay and Fodder Crops*** | 2,060,967         | 843,047           |
| Corn for Silage                        | 70,411            | 28,494            |
| <b>Total</b>                           | <b>28,584,023</b> | <b>11,576,583</b> |

Source: Statistics Canada, 2006

\* Refers to "Natural Land for Pasture" census category. Includes areas that have not been cultivated and seeded, or drained, irrigated or fertilized. Includes native pasture/hay, rangeland, and grazeable bush.

\*\* Includes alfalfa and alfalfa-mixtures used for hay, silage, greenfeed, dehydrated alfalfa, etc.

\*\*\* Includes all other tame hay and fodder (perennial and annual crops in which the whole plant is used as feed) crops for hay or silage.

**Table 2.15 Estimated Total Direct Economic Value from Forages in Alberta**

|                                  | Current Value<br>('000 000 per year) | Potential Value<br>('000 000 per year) |
|----------------------------------|--------------------------------------|--|
| Forage Seed - domestic           | \$23.8                               |  |
| Forage Seed - export             | \$36.0                               |  |
| Leafcutter Bees                  | \$16.0                               |  |
| Hay - domestic                   | \$620.5                              |  |
| Hay - export                     | \$4.0                                |  |
| Timothy Hay - export             | \$78.0                               |  |
| Processed Alfalfa - domestic     | \$3.7                                |  |
| Processed Alfalfa - export       | \$21.0                               |  |
| Greenfeed                        | \$91.5                               |  |
| Silage - corn                    | \$25.9                               |  |
| Silage - other annual crops      | \$114.9                              |  |
| Straw - feed                     | \$77.0                               |  |
| Pasture/Grazing Land             | \$349.8                              |  |
| Sod                              | \$30.3                               |  |
| Ag-Tourism                       | \$64.7 - \$108.5                     |  |
| Carbon Sequestration and Offsets |                                      | \$14.8                                 |
| <b>Total</b>                     | <b>\$1,557.0 - \$1,600.8</b>         | <b>\$14.8</b>                          |

**Table 3.2 Estimated Total Indirect Economic Value from Forages in Alberta**

|                                | Value ('000 000 per year)  |
|--------------------------------|----------------------------|
| Erosion Control                | \$2.7 - \$334.9            |
| Water Quality                  | \$15.5 - \$107.9           |
| Water Retention and Regulation | \$21.6 - \$118.6           |
| Wildlife – consumptive use     | \$5.0 - \$315.8            |
| Wildlife – non-consumptive use | \$17.4 - \$621.7           |
| Recreation Fishing             | \$0.2 - \$35.9             |
| Pollination Services           | \$288.7                    |
| Honey Production               | \$2.3                      |
| Carbon Sequestration           | \$184.0 - \$419.9          |
| <b>Total</b>                   | <b>\$537.4 - \$2,245.7</b> |

**Table 4.1 Total Estimated Direct and Indirect Economic Value of Alberta's Forages**

|              | Value(Millions)              |
|--------------|------------------------------|
| Direct       | \$1,557.0 - \$1,600.8        |
| Indirect     | \$537.4 - \$2,245.7          |
| <b>Total</b> | <b>\$2,094.4 - \$3,846.5</b> |

Source: Adapted, with permission, from *The Value of Alberta's Forage Industry: A Multi-Level Analysis*, 2012, Alberta Agriculture and Rural Development



Scott, Pickseed's director of sales for Western Canada. "For us in the seed industry, we are at the start of the chain. Because forage is often grown on marginal land, that land is now turned into something useful. We see this report as a good news story for the forage industry."

The recently-formed Alberta Forage Industry Network

**"Tracking industry values is important because it helps to establish benchmarks and trends, and it identifies areas of opportunity."**

– Harley Bell

encouraged the preparation of the report as one of its first initiatives. Don McLennan, AFIN's chair, says the report "helps those involved in the forage industry to recognize their own role in the agricultural economy," and also helps them explain that

role to other agricultural sectors.

"It's worth pointing out that in terms of acres, forage represents about 50 per cent of all production in this province," explains McLennan. "It's also a third of the total value of farm production. Forage is a significant part of the agricultural industry across Canada."

"*The Value of Alberta's Forage Industry* report consolidates a lot of the information and statistics about the Alberta forage industry," says Harley Bell, account and product manager at BrettYoung in Winnipeg. "Tracking industry values is important because it helps to establish benchmarks and trends, and it identifies areas of opportunity. For example, exports could be viewed as one of the opportunities, and worldwide reduction in forage seed production could increase the value for forage seed. Alberta is well positioned to take advantage of these kinds of opportunities."

Scott points out that the greatest value for forage is often indirect, and the report highlights how valuable that indirect connection is. "The value comes through the cattle and isn't quantified until the animal is sold," he explains. "The report identifies the value of the industry both directly and indirectly and shows how important it is to the economy. Those of us close to the forage industry have always known this, but now we have it in print!"

"The report can be used in a broader context," adds Kosinski.

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“Agriculture and Agri-Food Canada, with The Canadian Forage and Grassland Association, a national forage organization, is now compiling the information from all the provincial forage reports.” Nationally, the industry will now have proof of its value, which could translate into more cash for research, or public recognition that this area of agriculture has a far-reaching positive impact in terms of environmental and wildlife stewardship—both areas that get a great deal of attention from the general public. In addition, the issue of carbon sequestration can be linked favourably to forage production, another hot-button topic in the public’s eye.

With this first edition of the report, the industry can also see where more information needs to be gathered. “We hope we can gather data more efficiently in the future because this report does show us where there are holes in the collection system,” says McLennan. “Our ultimate goal is to get more recognition for the value of this industry to the economy.”

“This report definitely shows the rapid decline of forage seed production in the Peace River region,” says Bell. He adds that this information is useful for his company and others in terms of providing guidance on where their focus should be directed in order to meet the needs of the industry.

According to Scott, the report also highlights areas where growers could consider adding to their production plans. “Forage seed is a good cash crop for growers,” he says. “Don’t forget there are opportunities for honey production as well, because bees need clover.”

Over all, the industry is pleased with the findings of the report, and is already considering how future versions can be improved, from the type of information that still needs to be gathered to how to highlight the values. The bottom line is that forage crops, even if they do not have the historical significance of wheat or the heroic health benefits of canola, are in fact significantly important to all sectors of society, from human health to environmental protection. **Rosalie Tennison**

## WHERE ON THE WEB

Where on the Web: To view the full report’s findings, visit **WWW1.AGRIC.GOV.AB.CA/\$DEPARTMENT/DEPTDOCS.NSF/ALL/FOR13923/\$FILE/VALUE-ALBERTA-FORAGE.PDF.**

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Always follow grain marketing and all other stewardship practices and pesticide label directions. Details of these requirements can be found in the Trait Stewardship Responsibilities Notice to Farmers printed in this publication.





# Fostering Innovation

The new 60,000-square-foot Greenhouse Research and Production Complex near Brooks, Alta., has been opening more doors than its own to Alberta producers since March 1, 2012.



**THE** state-of-the-art Greenhouse Research and Production Complex at the Crop Diversification Centre South is an investment of more than \$17 million by the Alberta government, and the researchers working there are on the leading edge of crop research, technology and commercialization.

The current research projects at the facility are extensive, ranging from greenhouse tomato and pepper projects to determining whether a specific flax variety can create healthier omega-3 oils and a project on modifying camelina so that its oil may be used as a hydraulic fluid.

Integrated pest management manager Simone Dalpe is more than pleased with the wide variety of agricultural projects that the GRPC is currently undertaking, and she is looking forward to future projects at the facility.

“We’re at full production scale in our greenhouses. There are four bays—two poly greenhouses and two glass greenhouses—so it’s really glass versus poly for comparison research,” explains Dalpe. “All four bays contain state-of-the-art drip irrigations with feed-lines for every row of plants, which also helps to control plant nutrient as well as rain water capture capabilities within the facility.”

According to Dalpe, it’s this state-of-the-art technology that allows for important trials in both peppers and tomatoes within the commercial-size greenhouses located at GRPC. The facility is currently conducting tomato grafting projects where trials use seedlings that graft onto more vigorous rootstocks.

“Once research and data is taken from the trials held on registered vegetable plants, the results are available to the client and the public as well.”

## Research Greenhouses

There are 10 research greenhouses equaling over 11,000 square feet along with a level 2 bio-containment isolated unit. “This facility allows researchers to work on genetically modified products that are not yet in the marketplace,” explains Dalpe. “The facility helps to keep any pollen contained within a segregated area. We also use the facility for easily spreadable diseases such as clubroot in canola.”

The GRPC is not only conducting disinfectant trials for canola clubroot disease but is also working on lentil and soybean trials. The research greenhouses offer artificial and natural light, rolling benches, energy saving curtains and precise environmental controls. “Each of the 10 greenhouses offers a different environment which we can control,” explains Dalpe. “This allows us to work on a wide range of research projects at the same time.”

The environmental controls at the GRPC incorporate numerous technological advances throughout the complex. Researchers are able to control temperature, humidity, light and fertilization. The



State-of-the-art technology at the GRPC allows important trials to be conducted for both peppers and tomatoes.

system can regulate individual nutrients and, for the first time anywhere, can achieve complete randomization at a scale of up to one-quarter acre.

“We are able to assimilate data to estimate the ability of plants to produce yields under varying conditions,” explains Dalpe. “The monitoring system allows us to manage water intake, growth of the plant and weight of the plant.”

## Leading-Edge Technology

The complex also has a new aeroponic system available in one greenhouse bay that allows researchers to grow plants in an air or mist environment without the use of soil. According to Dalpe, there is a current aeroponics seed potato growing project in the works which will use a misting system to transmit nutrients to



the plants. “We also see aeroponics being used for research in other crops such as lettuce in the future,” says Dalpe.

The facility also has LEED Silver certification allowing the complex to produce commercial yields with fewer inputs of energy and water.

### Future Projects

Dalpe stresses that while the complex is focused on helping all sectors of Alberta agriculture flourish, they are in contact with other facilities and researchers domestically and internationally. “We hope to continue to expand our research to other crops for both research and breeding projects,” says Dalpe.

Current forward-looking projects at the complex include greenhouse best management programs, tomato grafting and propagation, a plant monitoring system, and flower programs. Industrial projects include lettuce and urban green-roof farming programs, combined heat-power, and water and waste heat management. **Shannon Schindle**

## GRPC Technology

- Total area equals 60,000 square feet with a header house at 8,000 square feet. Research greenhouses have 11,800 square feet with 10 compartments including the level 2 bio-containment facility.
- All compartments are equipped with artificial lighting, a fog system, rolling benches, energy saving curtains, evaporative coolers, insect screens and drip irrigation systems.
- Many trials are ongoing which include biochar, tomato grafting and propagation, crop monitoring and pulse crops trials.
- A new aeroponic system for potato nuclear production has been installed in one research compartment.
- Production and greenhouse trials equal 39,800 square feet, including two glass and two poly greenhouses equipped with heating and cooling systems, hanging gutters, artificial lighting, a fog system, drip irrigation and recirculation systems.



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midge?  
Hate  
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45H31 RR 43E01 RR  
45S54 RR 46H75 CL  
46S53 RR 45H73 CL  
45S52 RR

**VICTORY**  
HYBRID CANOLA

V12-1 v1050  
v1040 v2045

**VITERRA**

VT 500 G VR 9560 CL  
VR 9559 G VR 9557 GS  
Red River 1861 RR



73-45 RR 73-75 RR  
74-44 BL

**BrettYoung**

6060 RR 5525 CL  
6040 RR 5535 CL  
6050 RR

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**Nexera**  
CANOLA

1012 RR 2012 CL

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the latest information.





# Keeping it Local

The Taber Seed Cleaning Co-op has proven it can rise to any challenge to keep its customers coming back.

**JOE** Hanson, manager of the Taber Seed Cleaning Co-op Association Ltd., knows it's not just the big challenges that make or break a company—it's the small ones, too.

"Every day has different challenges," he says. "You think everything's always going to be the same, but you know it's not. [Customers] have different problems, or something new comes along for you to try and clean. We've cleaned some pretty strange stuff through the years! The first time we cleaned catnip, it's a really small seed, and literally to clean it we had to cover our screens in wedding veil material," laughs Hanson. "But we got it clean! The challenges are nice, they give you something to look forward to. Especially, when it works it's great, and most of the time you can make it work."

The Taber Seed Cleaning Co-op has been in operation since 1957—not a bad record for any business. Since Hanson came on as manager 21 years ago, the plant has been completely rebuilt and several new pieces of equipment have been added. In 1994, the co-op invested in a gravity table. This summer, the company invested in a colour sorter, which Hanson and his staff anticipate will help improve their efficiency even further.

**"Every day has different challenges—you think everything's always going to be the same, but you know it's not ... We've cleaned some pretty strange stuff through the year."**

— Joe Hanson

Technology is key to the plant's success, and it's one of the reasons Hanson is confident the business will continue to stay on top of its game. "Being able to change and adapt as agriculture has, keeps the business successful," he says. "As the farms have become bigger we've put in bigger equipment. We can clean a Super B in two and a half hours. We're cleaning 600 bushels an hour now."

Key to the idea of "keeping up," for the Taber Co-op, is the idea of "keeping it local"—because if the business wants to stay relevant to the community, it needs to stay on top of trends in the industry. "Our future goals are continuing to keep up with



Photo courtesy of Taber Seed Cleaning Co-op.

Technology is central to Taber Seed Cleaning Co-op's success, and one of the reasons the business is on top of its game.

technology, to be a leader in the community, to supply what we can and to keep things local as much as we can—if people can clean their grain here rather than going someplace else with newer technology, we make sure we can get that technology," says Hanson.

Any business in rural Alberta faces shared problems, however, and Hanson is candid about the biggest issue that has arisen over the years—staffing. The Taber plant faces tight competition with the oil companies. Even though plant employees have the privilege of working close to home, Hanson says, the higher wages offered by oil companies are a big draw for potential employees. Although they keep plant wages as competitive as possible, finding capable staff can still be difficult.

The efficiency and reliability of the plant's current staff members provides Hanson reason enough to believe in the future success of the business. "It definitely makes it nice when you've got people that you can count on," he says. "Just knowing that you've got competent staff if something comes up, and that things are going to get done, gives us a lot to offer." **Julienne Isaacs**



November 2012

To our valued customers,

Meridian is pleased to announce our merger with Sakundiak and Behlen, sister companies to Meridian under our parent company WGI Westman Group Inc. Effective January 1, 2013, all Behlen, Sakundiak and Meridian agriculture products will be marketed and sold under the Meridian brand.

Behlen agriculture products offer a diverse product line of galvanized hopper bins and cost effective on-farm building solutions. Sakundiak compliments this product line with large flat bottom galvanized bins and industry leading grain augers.

The Meridian brand has become synonymous with excellence and customer satisfaction, and we continue to grow in both geographic reach as well as product offering. Our commitment to our customers is second to none, hence our pursuit of new technologies and innovations to meet customer needs.

We are pleased to tell you that the Meridian agricultural products now include: smooth-wall hopper bins, galvanized hopper and flat bottom bins, aeration, grain rings, bulk seed tenders, grain augers, auger movers, conveyors, arch-wall and on-farm buildings, fuel tanks and custom built hopper bins.

To better meet your on-farm storage and handling needs, we bring together these innovative products under one strong, trusted brand – MERIDIAN.

Behlen, Sakundiak and Meridian pride themselves on commitment to the highest quality and customer service that is unmatched in the industry; this will continue to be our key mandate. Our customers will continue to receive the same quality product and service they have come to expect from Meridian.

We look forward to serving you in the future and encourage you to visit your local dealer to learn more about Meridian's Storage and Handling products. Or visit our website at [www.meridianmfg.com](http://www.meridianmfg.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Glenn Friesen", with a small dot at the end of the line.

Glenn Friesen  
Senior Vice President, Sales and Marketing  
Meridian Manufacturing Group

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Belt Conveyors



Bulk Seed Tenders



Grain Augers



**1947**

Sakundiak opens its first plant to manufacture disc harrows in Saskatchewan. The first plant employed only 3 employees building disc harrows. Production soon changed to grain augers, and the first auger manufactured was only 24' long with a 6" diameter



**1969**

Behlen releases their pre-engineered steel building systems. Behlen's steel building systems division would soon become the largest in Canada



**1979**

Wheatland Bins opens in Lethbridge, Alberta



**1965**

Friesen launches its first, all-welded, smooth-wall steel hopper bin. The Friesen Bin soon became the preferred alternative to corrugated galvanized storage for seed, feed and fertilizer. Additional manufacturing space was soon added to meet the growing demand

**1965**

Sakundiak develops an auger with a self leveling. The product is eventually patented for this unique feature



**1977**

Behlen launches their line of flat floor, galvanized grain silos. This style of silo has come to be depended upon by farmers world-wide

**1984**

Wheatland opens an additional sales office in Camrose, Alberta

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Smooth-Wall Bins



High Capacity Corrugated Bins



Grain Rings



Meridian AirMax Aeration



Fuel Tanks

**1989**  
The Friesen family launches a facility in Storm Lake, Iowa. Their innovations with Seed Tenders revolutionized planting in the corn and soybean belt

**1997**  
Wheatland builds a new and expanded manufacturing plant and sales office in Camrose, Alberta.

**1997**  
Meridian establishes state of the art manufacturing facility in Winkler, Manitoba

**1998**  
Meridian's Lethbridge location designs and builds the world's first large scale powder bake oven

**2002**  
Westman Group Inc purchases Meridian industries (Winkler, MB) and Wheatland bins (Camrose and Lethbridge, AB)

**2003**  
WGI and Meridian received Platinum Status as one of Canada's 50 Best Managed Companies

**2004**  
WGI completes the acquisition with the purchase of the Iowa facility

**2007**  
All operations come together and become known as Meridian Manufacturing Group





**2008**  
Meridian unifies their product line across North America under the Meridian brand bringing together Friesen, Wheatland, Stor King, Grain Max and Friesen USA

**2011**  
Meridian launches Meridian AirMax aeration

**2012**  
Meridian launches their line of belt conveyors to the North American market

**2012**  
Meridian Manufacturing Group has over 600,000 square feet of production space and over 1000 employees with the merger.

**January 2013**  
Behlen and Sakundiak Agricultural products are merged with and sold under the Meridian Brand





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## The Alberta Seed Guide New Varieties List is your heads-up to what will soon be available in a field near you.

Some varieties may only be available in limited supply, so make sure you call your local representative for more information. The companies that were asked to supply information are responsible for any claims contained within the list. Always remember that variety performance may vary from region to region. Visit [seed.ab.ca](http://seed.ab.ca) for company links.

### Abbreviations

#### PEST RESISTANCE:

R - Resistant  
MR - Moderately Resistant  
MS - Moderately Susceptible  
S - Susceptible

#### TRAITS:

Bt - ECB Resistant  
HXI - Herculex I  
YGCB - YieldGard Corn Borer  
CL - Clearfield Production System  
GENRR2Y - Genuity RR2 Yield

GT - Glyphosate Tolerant  
LL - Liberty Link  
RR - Roundup Ready  
RR2 - Roundup Ready 2  
RR2Y - Roundup Ready 2 Yield  
**PESTS:**  
CB - Corn Borer  
RW - Corn Rootworm  
ECB - European Corn Borer  
FHB - Fusarium Head Blight  
PRR - Phytophthora Root Rot  
SCN - Soybean Cyst Nematode

#### OTHER:


HU - Heat Units  
OP - Open Pollinated  
SSZ - Short Season Zone  
MSZ - Mid Season Zone  
LSZ - Long Season Zone  
**WHEAT:**  
CPS - Canada Prairie Spring  
CWAD - Canada Western  
Amber Durum  
CWRS - Canada Western Red Spring

## ALFALFA

| Company  | Variety  | Crop Type | Maturity | Yield | Standability | Pest Resistance | Specialty Features  |
|--|----------|-----------|----------|-------|--------------|-----------------|---|
|  Viterra<br>Ph: 306-569-4411<br>Viterra.ca | VR Total | Alfalfa   |          |       |              |                 | A very hardy winter variety that can still yield with Elite 3-cut lines. Traffic tested. Very good response to multi-cut management systems (3 or 4 cut). Strong disease resistance. Superior forage quality. |






ALFALFA

## BARLEY

| Company  | Variety    | Crop Type        | Maturity             | Yield              | Standability | Pest Resistance                             | Specialty Features  |
|--|------------|------------------|----------------------|--------------------|--------------|---|---|
|  SeCan<br>Canada's Seed Partner<br>Ph: (800) 665-7333<br>SeCan.com | CDC Carter | 2-Row<br>Hulless | Equal to AC Metcalfe | 97% of AC Metcalfe | Good         | I - FHB, stem rust<br>R - Smut<br>S - Scald | Smut resistant hulless barley. Excellent threshability and a solid disease package. Makes a great fit for food or feed. |

BARLEY

## CANOLA



| Company   | Variety              | Crop Type       | Maturity                  | Yield                | Standability | Pest Resistance   | Specialty Features   |
|---|----------------------|-----------------|---------------------------|----------------------|--------------|---|--|
|  Bayer CropScience<br>Ph: (888) 283-6847<br>BayerCropScience.ca | InVigor Health L156H | napus Hybrid GM | Equal to 46A65 and Q2     | 138% of 46A65 and Q2 | Excellent    | R - Blackleg  | InVigor L156H has all the yield potential of an "L Series" combined with a simple contract premium offering growers greater returns.   |
|  BrettYoung<br>Ph: (800) 665-5015<br>BrettYoung.ca              | 6050 RR              | napus GM RR     | -1.0 days of 46A65 and Q2 | 124% of 46A65 and Q2 | Very Good    | R - Blackleg<br>R - Fusarium Wilt                           | A new mid to early maturity hybrid. Excellent yield performance across the three canola production zones. It particularly well suited to the mid and short canola zones.   |
|   | 6056 CR              | napus GM RR     | +1.8 days of 46A65 and Q2 | 134% of 46A65 and Q2 | Excellent    | R - Blackleg<br>R - Fusarium Wilt<br>R - Clubroot           | New clubroot resistant hybrid with very good yield potential. Widely adapted with excellent standability for very good harvest.  |
|  Canterra Seeds<br>Ph: (866) 744-4321<br>Canterra.com           | CANTERRA 1999        | napus Hybrid GM | -0.8 days of 45H29        | 103% of 45H29        | Very Good    | R - Blackleg<br>R - Fusarium Wilt                           | Available in limited quantities. The Great One! Ranked #1 in Yield, Standability and Oil Content in 2011 FACT  |
|  Nexera   | 1012RR               | napus Hybrid RR | +4 days of 72-65 RR       | 101% of 72-65RR      |              | R - Blackleg  | Outstanding yield potential. Very good lodging resistance for easier swathing. \$48 more returns per acre than 72-65RR.  |
|   | 1016CL               | napus Hybrid RR | +2 days of 72-65 RR       | 96% of 72-65RR       |              | R - Blackleg  | Outstanding yield potential. Very good lodging resistance for easier swathing. \$20 more returns per acre than 72-65RR.  |
|   | 2012CL               | napus Hybrid CL | +2 days of 45P70          | 100% of 45P70        |              | MR - Blackleg   | Outstanding yield potential. Very good lodging resistance for easier swathing. \$39 more returns per acre than 45P70   |
|   | 2016CL               | napus Hybrid CL | +1 day of 45P70           | 98% of 45P70         |              | R - Blackleg  | Outstanding yield potential. Very good lodging resistance for easier swathing. \$26 more returns per acre than 45P70   |
|  Monsanto Canada Inc<br>Ph: (800) 667-4944<br>DEKALB.ca         | 74-44 BL             | napus Hybrid GM | -1 days of 45H29          | 107% of 45H29        | Excellent    | R - Blackleg, Multi-genetic Resistance<br>R - Fusarium Wilt | DEKALB 74-44 BL is the newest broad acre hybrid to be introduced to the DEKALB line up. It offers outstanding yield potential. Multi-genetic blackleg resistance to pathogenic groups 2, 3, 4 and T. The excellent emergence and vigour of this hybrid combined with its ease of swathing make it an excellent option on farm. |

CANOLA





# New Varieties

CANOLA

| Company   | Variety  | Crop Type                         | Maturity              | Yield                    | Standability | Pest Resistance                                      | Specialty Features  |
|---|----------|-----------------------------------|-----------------------|--------------------------|--------------|--|---|
|  Monsanto Canada Inc<br>Ph: (800) 667-4944<br>DEKALB.ca    | 74-47 CR | <i>napus</i><br>Hybrid<br>GM      | 0.5 days of<br>45H29  | 103% of<br>45H29         | Excellent    | R - Blackleg<br>R - Fusarium Wilt<br>R - Clubroot    | 74-47 CR is the DEKALB brand's 2nd generation clubroot resistant hybrid for those growers at risk. It protects from pathotypes 2, 3, 5, 6, and 8. This hybrid provides good early season vigour. Outstanding standability and high yield potential. |
|  Pioneer Hi-Bred Ltd.<br>Ph: (800) 265-9435<br>Pioneer.com | 45S54    | <i>napus</i><br>Hybrid<br>RR, SCL | Similar to<br>45H29   | 126% of<br>46A65/Q2      |              | R -Blackleg<br>R - Fusarium Wilt<br>MR - Sclerotinia | New hybrid with built-in resistance to sclerotinia - Pioneer Protector Sclerotinia resistance trait. R for blackleg; very good standability. Available exclusively from Pioneer Hi-Bred sales reps.   |
|   | 43E02    | <i>napus</i><br>Hybrid<br>RR      | -0.8 days of<br>43E01 | 117% of<br>46A65<br>/ Q2 |              | MR -Blackleg<br>R - Fusarium Wilt                    | New early hybrid with good performance. MR for blackleg; very good early growth. Available exclusively from Pioneer Hi-Bred sales reps.   |
|   | D3154S   | <i>napus</i><br>Hybrid<br>RR, SCL | +1 day of<br>45H29    | 126% of<br>46A65/Q2      |              | R -Blackleg<br>R - Fusarium Wilt<br>MR - Sclerotinia | New hybrid with built-in resistance to sclerotinia - Pioneer Protector Sclerotinia resistance trait. R for blackleg; very good standability. Available exclusively from DuPont through select Independent and Co-Op retailers.                      |

CORN



| Company   | Variety  | Crop Type              | Maturity | Yield     | Standability | Pest Resistance | Specialty Features   |
|---|----------|------------------------|----------|-----------|--------------|-----------------|--|
|  BrettYoung<br>Ph: (800) 665-5015<br>BrettYoung.ca | Venza R  | Silage<br>Hybrid<br>GM | 2500 HU  | Excellent |              |                 | A new high yielding silage hybrid for the higher heat unit product areas. Venza R has excellent early season development and produces a tall crop with excellent silage quality.     |
|   | E44A02 R | Feed<br>Hybrid<br>GM   | 2150 HU  | Excellent |              |                 | E44A02 provides fast emergence and early maturity paired with drydown and bushel weight. It provides the best corn borer protection without the need for planting a separate refuge. |
|   | E50G29 R | Feed<br>Hybrid<br>GM   | 2400 HU  | Excellent |              |                 | E50G29R combines fast emergence, early drydown and yield for the major grain production areas with a complete pest resistant package. E50G29R requires 20% refuge.                   |

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## Trait Stewardship Responsibilities Notice to Farmers

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**Protein:** -0.1% less than AC Barrie

**Maturity:** equal to AC Barrie



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CDC Stanley was bred at the Crop Development Centre, University of Saskatchewan.



# New Varieties

CORN

| Company   | Variety   | Crop Type             | Maturity       | Yield               | Standability | Pest Resistance                               | Specialty Features   |
|---|-----------|-----------------------|----------------|---------------------|--------------|---|--|
|  Brett Young<br>Ph: (800) 665-5015<br>BrettYoung.ca    | Sorento R | Silage Hybrid GM      | 2300 HU        | Excellent           |              |   | Sorento R delivers superior yields in a package that includes corn borer protection and resistance to glyphosate and Liberty. For many silage and grazing areas of Western Canada.   |
|  Hyland Seeds<br>Ph: (800) 265-7403<br>HylandSeeds.com | 3093      | Feed/Silage Hybrid GM | 2350 HU        | 15-17 tons per acre | Very Good    |   | Very good early vigour. Broadly adapted and delivers consistent performance across variable environments.  |
|   | 4093      | Feed/Silage Hybrid GM | 2350 HU        | 15-17 tons per acre | Very Good    | R - ECB, CRW<br>MR - NCLB                     | Excellent dual purpose hybrid. Responds to aggressive plant densities in suitable environments.  |
|   | 8105      | Feed/Silage Hybrid GM | 2400 HU        | 15-17 tons per acre | Very Good    | R - ECB, CRW, WBC<br>MR - NCLB                | Consistent ear development with good ear length. Very good grain quality with fast dry down. Strong roots, very good fall health and late season plant integrity.  |
|   | 8166      | Feed/Silage Hybrid GM | 2525 HU        | 17-18 tons per acre | Excellent    | R - ECB, CRW, WBC<br>MR - Eyespot, Goss' Wilt | High yield potential in productive environments, good ear flex adapts well to variable plant densities. Above average root strength tolerates poorly drained soils, early grain setup with fast dry down. Good disease and stress tolerance. |
|   | HL 3085   | Feed/Silage Hybrid GM | 2275 HU        | 15-17 tons per acre | Very Good    |   | Great late season eye appeal with good standability and stalk quality. Excellent ear consistency with an attractive grain that delivers good test weight.  |
|   | HLS 3120  | Feed/Silage Hybrid GM | 2450-2650 HU   | 17-18 tons per acre | Very Good    |   | Medium plant with full canopy, excellent digestibility and starch scores. Recommended for silage, earlage and high moisture corn use. Glyphosate tolerant.   |
|   | HLS 3177  | Feed/Silage Hybrid GM | 2500 - 2800 HU | 17-18 tons per acre | Excellent    |   | Medium-tall plant with full canopy, good tonnage and quality, consistent ear fill and excellent husk coverage. Recommended for silage, earlage and high moisture corn use. Will respond to more increased plant populations.                 |

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| Company   | Variety        | Crop Type                        | Crop Type         | Yield     | Standability | Pest Resistance                                  | Specialty Features   |
|---|----------------|----------------------------------|-------------------|-----------|--------------|--|--|
|  <p>Monsanto Canada Inc<br/>Ph: (800) 667-4944<br/>DEKALB.ca</p>    | DKC26-28RIB    | Grain<br>GM                      | 2150 HU           | Excellent |              |  | Excellent top-end yield potential.<br>Excellent staygreen and plant health.  |
|   | DKC27-55RIB    | Grain<br>GM                      | 2200 HU           | Excellent |              |  | Excellent test weight with very good drydown.<br>Excellent yield potential.<br>Very good plant health and harvest appearance.  |
|   | DKC28-79RIB    | Grain<br>GM                      | 2225 HU           | Excellent |              |  | Very good top-end yield potential.<br>Excellent dry down and intactness.<br>Dual purpose grain and silage product.   |
|   | DKC30-07RIB    | Grain<br>GM                      | 2325 HU           | Excellent |              |  | Medium-tall hybrid with excellent harvest appearance.<br>Excellent yield potential.  |
|   | DKC31-07       | Grain<br>GM                      | 2375 HU           | Excellent |              |  | This hybrid travels soil types well with excellent seedling vigour and late season intactness.<br>Very good stalk and root strength, with exceptional yield.<br>Well suited to early planting at medium high to high populations.  |
|   | DKC31-10RIB    | Grain<br>GM                      | 2400 HU           | Excellent |              |  | This hybrid travels soil types well with excellent seedling vigour and late season intactness.<br>Very good stalk and root strength, with exceptional yield.<br>Well suited to early planting at medium high to high populations.  |
|  <p>Pioneer Hi-Bred Ltd.<br/>Ph: (800) 265-9435<br/>Pioneer.com</p> | P8193AM        | Feed/Silage<br>Hybrid<br>GM      | 2400 HU           | Excellent |              | R - ECB  | Early hybrid with Optimum AcreMax single-bag integrated refuge.<br>Good root and stalk strength.<br>Solid agronomic package.   |
|   | P8210HR        | Feed/Silage<br>Hybrid<br>GM      | 2500 HU           | Excellent |              | R - ECB  | Above average root and stalk strength.<br>Excellent drought tolerance.<br>Solid agronomics.  |
|   | P8651HR        | Feed/Silage<br>Hybrid<br>GM      | 2550 HU           | Excellent |              | R - ECB  | Taller plant with excellent performance.<br>Very good silage characteristics.<br>Above average stalk strength.   |
|  <p>PRIDE Seeds<br/>Ph: (800) 265-5280<br/>PrideSeed.com</p>      | A4023BTRR      | Feed/Silage<br>Hybrid<br>GM      | 2125 HU           | Excellent |              | R - ECB  | Very early flowering and finish, superior harvest intactness, excellent disease tolerance.<br>Full dent grain with very good grain quality.<br>Very suitable for early planting, cold soils and late harvest timing.   |
|   | A4176BTRR      | Feed/Silage<br>Hybrid<br>GM      | 2150 HU           | Excellent |              | R - ECB  | Very high yield performance in very early zones, very early flowering and physiological maturity.<br>Flintdent grain on a stout girthy ear with white cob.<br>Outstanding emergence and spring vigour. Very suitable for early planting and cold soils.  |
|   | A4240RR        | Feed/Silage<br>Hybrid<br>GM      | 2200 HU           | Excellent |              |  | Excellent dual purpose choice for grain and silage.<br>Very good early silage yield and quality.<br>Tall hybrid that will work very well in all soil types.<br>Very suitable for early planting and cold soils with fast emergence and vigour.   |
|   | A4705HMRR      | Silage<br>Hybrid<br>GM           | 2175-2350<br>HU   | Excellent |              |  | Unique stable genetics for the silage and high moisture corn grower with a wide harvest window.<br>Unbeatable output year after year. Outstanding emergence and spring vigour.<br>Stout girthy flint grain ear size and white cob and good starch levels providing excellent quality silage.   |
|   | A4914G2<br>RIB | Feed/Silage<br>GM                | 2350 HU           | Excellent |              | R - ECB<br>R - Corn Earworm<br>R - Fall Armyworm | New Genuity® VT Double PRO RIB Complete™ - 5% refuge in the bag. High yielding with excellent test weight.<br>Attractive fall appearance, intactness and health.<br>Solid agronomic package.<br>Excellent drought tolerance.   |
|   | AS1046 EDF     | Silage<br>Hybrid<br>Conventional | 2200 -<br>2375 HU | Excellent |              |  | Big plant with a stout girthy flint grain ear and white cob. Huge potential in good growing conditions for the silage and high moisture grower. Effective digestible fibre hybrid with excellent silage characteristics and yield per acre.<br>Slow dry down from 30%, preserving feed quality if harvest is delayed. Outstanding emergence and visually attractive. |



OATS

# OATS

| Company   | Variety        | Crop Type            | Maturity           | Yield              | Standability | Pest Resistance                                     | Specialty Features   |
|---|----------------|----------------------|--------------------|--------------------|--------------|---|--|
|  Canterra Seeds<br>Ph: (866) 744-4321<br>Canterra.com              | CDC Seabiscuit | Oat Spring           | Equal to AC Morgan | 108% of CDC Dancer | Good         | MR - Smut<br>MS - Stem Rust<br>S - Crown Rust, BYDV | High grain and milling yield.<br>Very plump kernels.   |
|  SeCan<br>Canada's Seed Partner<br>Ph: (800) 665-7333<br>SeCan.com | AC Bradley     | White Hulled Milling | Equal to Ronald    | 106% of Ronald     | Very Good    | MS - Stem Rust,<br>Crown Rust                       | High yielding, early maturing, white hulled variety.<br>Currently under milling evaluation.<br>Provides short strong straw and a reasonable disease package. |

SOYBEAN

# SOYBEAN

| Company   | Variety     | Crop Type  | Maturity | Yield     | Standability | Pest Resistance                  | Specialty Features   |
|---|-------------|------------|----------|-----------|--------------|----------------------------------|--|
|  Hyland Seeds<br>Ph: (800) 265-7403<br>HylandSeeds.com     | HS 006RYS24 | Black GM   | 2450 HU  |           | Very Good    | R - SCN, PRR<br>MR - White Mould | Moves north well.<br>Good plant standability.<br>Good IDC tolerance.   |
|   | DAS007R3    | Brown RR2Y | 2475 HU  |           | Very Good    | MR - PRR                         | Early variety with excellent yield potential.<br>Taller plant type with excellent standability.<br>Good IDC tolerance.                   |
|  Pioneer Hi-Bred Ltd.<br>Ph: (800) 265-9435<br>Pioneer.com | 90Y01       | Tan GM     | 2500 HU  | Excellent | Very Good    | R - Phytophthora                 | Multi-race Phytophthora resistance via the Rps1k gene.<br>New variety with excellent field emergence.<br>Very good harvest standability. |



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\*Monsanto Field Scale trials conducted in 2010 and 2011. Always follow grain marketing and all other stewardship practices and pesticide label directions. Details of these requirements can be found in the Trait Stewardship Responsibilities Notice to Farmers printed in this publication. InVigor® and LibertyLink® are registered trademarks of Bayer. © 2012 Monsanto Canada, Inc.

# Reduce sclerotinia losses in canola with Pioneer Protector® hybrids



Sclerotinia disease infection on canola stems in a non-resistant hybrid (left) versus Pioneer® brand 45S52 (RR) with the Pioneer Protector Sclerotinia Resistance trait (right). 2012; Nanton, Alberta.



2012 Proving Ground™ trial in Simpson, Saskatchewan shows Pioneer® brand 45S54 (RR) with the Pioneer Protector Sclerotinia Resistance trait producing healthier stands of canola under significant sclerotinia pressure.



Sclerotinia can be a costly disease for canola growers. Lost revenues exceeded an estimated \$600 million in 2010, in a year when conditions were favourable for

development of the disease. While the numbers are not all tallied yet, for many areas of the Prairies incidence of sclerotinia in 2012 was higher than we have seen in quite a few years.

## Management approach

1. Crop rotation
2. Final plant population of 6–10 plants per square foot
3. Sclerotinia resistant hybrids
4. Foliar fungicide

*“In 2012 sclerotinia incidence was worse than 2010 and far worse than 2011. Southeast Saskatchewan experienced much higher incidence than the south-central parts of the province. Seeding date also had a huge effect on levels of incidence.”*

Dave Vanthuyne, DuPont Pioneer agronomist for central and southern Saskatchewan

Pioneer® brand hybrids with the Pioneer Protector® Sclerotinia Resistance trait

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*“As far as incidence and severity, 2012 has been the worst I have seen for sclerotinia since 2007. I saw ranges of incidence from less than 5% to as high as 60% in fields. Some of the fields were sprayed and still had levels in the 30% range.”*

Doug Moisey, DuPont Pioneer agronomist for central and northern Alberta

## Sclerotinia resistant hybrids

DuPont Pioneer, a leader in canola genetics, provides the *first* and *only* canola hybrids with built-in sclerotinia resistance on the market. The Pioneer Protector® Sclerotinia Resistance trait is built right into the seed so the risk of sclerotinia infection is greatly reduced.

The Pioneer Protector® Sclerotinia Resistance trait provides these benefits to growers:

### Reduction in incidence

Greater than 50% reduction in sclerotinia incidence.\*

### Peace of mind

Increased flexibility and insurance when timing fungicide applications.

### Convenience

Sclerotinia protection is planted with the seed.

### Season-long control

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of sclerotinia in your canola crop

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\*Field results show that Pioneer Protector® Sclerotinia resistance can reduce the incidence of sclerotinia in a canola crop by over 50%. Individual results may vary. Depending on environmental and agronomic conditions, growers planting Pioneer Protector Sclerotinia resistant hybrids may still require a fungicide application to manage sclerotinia in their crop.

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# New Varieties

SOYBEAN

|   |             |         |         |                        |           |          |   |
|---|-------------|---------|---------|------------------------|-----------|----------|---|
| <br>SeCan<br>Ph: (800) 665-7333<br>SeCan.com | Bishop R2   | GM RR2Y | 2450 HU | 100% of NSC Portage RR | Very Good | S - IDC  | High yield potential with excellent lodging resistance. Early maturity.                                 |
|   | Beurling R2 | GM RR2Y | 2500 HU | 102% of NSC Portage RR | Very Good | MR - IDC | High yield potential with excellent lodging resistance. Performs well under higher moisture conditions. |


SUNFLOWER

## SUNFLOWER

| Company  | Variety | Crop Type                   | Maturity | Yield | Standability | Pest Resistance | Specialty Features   |
|--|---------|-----------------------------|----------|-------|--------------|-----------------|--|
| <br>Pioneer Hi-Bred Ltd.<br>Ph: (800) 265-9435<br>Pioneer.com | P63ME70 | Sunflower Spring ExpressSun | Medium   |       | Very Good    |                 | Outstanding yield potential with solid agronomics. Built-in tolerance to Express herbicide. NuSun, mid-oleic hybrid. |

TIMOTHY

## TIMOTHY

| Company  | Variety | Crop Type | Maturity | Yield | Standability | Pest Resistance | Specialty Features   |
|--|---------|-----------|----------|-------|--------------|-----------------|--|
| <br>Viterra<br>Ph: 306-569-4411<br>Viterra.ca | Crest   | Grass     |          |       |              |                 | New medium late maturing timothy (similar to Climax), selected for spring vigour and plant health. Very good forage quality. Good summer regrowth after cutting. |

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| WHEAT   |              |  |                                   |                           |              |  |   |
|---|--------------|--|-----------------------------------|---------------------------|--------------|--|---|
| Company   | Variety      | Crop Type  | Maturity                          | Yield                     | Standability | Pest Resistance  | Specialty Features  |
| FP Genetics<br>Ph: (877) 791-1045<br>FPGenetics.ca                | AC Transcend | CWAD<br>Spring<br>Milling<br>Semolina            | +2 days of<br>AC Strong-<br>field | 101% of AC<br>Strongfield | Fair         | R - Stem Rust, Leaf<br>Rust, Common Bunt,<br>Leaf Spot<br>MS - FHB                       | Best overall disease package and superior<br>agronomics.<br>High test weight and protein with low Cadmium.  |
| Mastin Seeds<br>Ph: (403) 556-2609<br>MastinSeeds.com             | Pintail      | Winter<br>Feed                                   | -1 day of<br>Radiant              | 104% of all<br>checks     | Very Good    | R - Stripe Rust<br>MR - Leaf Spot, Pow-<br>dery Mildew, Stem and<br>Leaf Rust<br>S - FHB | Very good winter hardiness. Awnless spike. High<br>yield.   |
| SeCan<br>Canada's Seed Partner<br>Ph: (800) 665-7333<br>SeCan.com | AC Whitehawk | CWHWS<br>Spring<br>Milling                       | -2 days of<br>AC Barrie           | 103% of<br>AC Barrie      | Good         | I - Stem Rust<br>R - Leaf Rust<br>MS - FHB   | Improved quality hard white wheat with very early<br>maturity. Identity preserved contracts required<br>through Richardson Pioneer.   |
|   | AC Vesper VB | CWRS<br>Spring -<br>Midge<br>Tolerant<br>Milling | Equal to AC<br>Barrie             | 120% of<br>AC Barrie      | Good         | R - Wheat Midge, MR -<br>Stem Rust<br>R - Leaf Rust<br>I - FHB, HS - Stripe<br>Rust      | Second generation midge tolerant wheat provides<br>high yield potential.<br>Large seed and high test weight.<br>Ranked number one for yield in Saskatchewan and<br>Manitoba seed guides.                                  |
| Viterra<br>Ph: (306) 569-4411<br>Viterra.ca                       | 5604HR CL    | CWRS<br>Spring<br>Milling                        | -1.6 days of<br>AC Barrie         | 109% of<br>AC Barrie      | Excellent    | R - Stem Rust, Leaf<br>Rust<br>MS - Leaf Spot<br>MR - FHB                                | 5604HR CL offers high yield potential, short stature,<br>great standability, and excellent disease package.<br>Clearfield tolerance.<br>Wheat producers can expect an early harvest, excel-<br>lent yield and top grades. |
| Syngenta Canada<br>Ph: 877-964-3682<br>SyngentaFarm.ca            | SY985        | Spring   | -2 days of<br>5700PR              | 102% of<br>5700PR         | Good         | R - Stem Rust, Leaf<br>Rust<br>MS - Leaf Spot, FHB<br>R - Loose smut                     | Good yield potential (higher than checks), short<br>straw, heavier kernels, higher protein relative to the<br>checks.<br>This cultivar has the desirable quality profile carried<br>by the 5700 series controls.          |

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# New Varieties, New Opportunities

A look at the many end-user-focused recommendations from the 2012 Variety Recommending meetings.

**EACH** February, members of the Prairie Grain Development Committee and the Western Canada Canola/Rapeseed Recommending Committee meet to approve registration of new crop varieties developed by the federal government and private breeders. These newly-approved varieties give Canadian farmers more options when they make seeding decisions in the spring.

## **Disease Concerns Drive Canola Development**

A total of 32 Roundup Ready, 16 Liberty Link and nine Clearfield canola cultivars were approved for full two-year registration by the WCC/RRC members, with seven Roundup Ready cultivars receiving interim recommendation. Thirteen of these were varieties with lower amounts of linoleic acid (Omega-6) developed by Dow AgroSciences Canada Inc. (8), Cargill Specialty Canola Oils (3) and Bayer CropScience (2).

Sclerotinia and clubroot remain top concerns for WCC/RCC members. A report was given on the outcome of the sclerotinia protocol evaluation program conducted in 2011, which indicated that there were significant differences in terms of resistance, and refinement and standardization of protocols is required. Committee members advocated for additional funding to support an additional year of testing.

Moreover, a requirement for clubroot testing at all public and private co-op sites was implemented—the site must test negative for the presence of clubroot before trials can be planted on the site. Further, it was noted that clubroot sanitation guidelines should be distributed to researchers and should be incorporated into the procedures once the guidelines have been finalized.

### Improved End-Use Quality in Wheat

The Prairie Recommending Committee for Wheat, Rye and Triticale considered 26 candidates for registration recommendation. The 19 candidates include the following:

- four Canada Western Red Spring varieties;
- three Canada Western Hard White Wheat varieties;
- two Canada Prairie Spring Red varieties;
- four Canada Western Amber Durum varieties;
- one Canada Western Soft White Spring variety;
- three Canada Western General Purpose varieties—two spring and one winter;
- one Canada Western Red Winter milling cultivar; and
- one spring spelt line.

Highlights for the recommended cultivars included increased yield potential, improved quality, early maturity, improved disease resistance and resistance to the orange wheat blossom midge. The three CWHWS cultivars recommended represent

### Members of the Prairie Recommending Committee for Oilseeds voted in support of three flax varieties: FP 2308, FP 2314 and FP 2325. All three varieties have strong agronomic packages.

significant improvements in end-use quality over varieties that are currently grown. One CWAD cultivar, DT818, is solid-stemmed, the first durum wheat cultivar expressing this trait to be recommended. The solid-stemmed trait confers tolerance to wheat stem sawfly infestation, and is the first such durum variety to be registered since the release of Golden Ball. GP080, a spring CWGP, expresses a high level of resistance to Fusarium head blight. Meanwhile, PIG98027 is high in anti-oxidant (anthocyanin) content, and is purple-seeded.

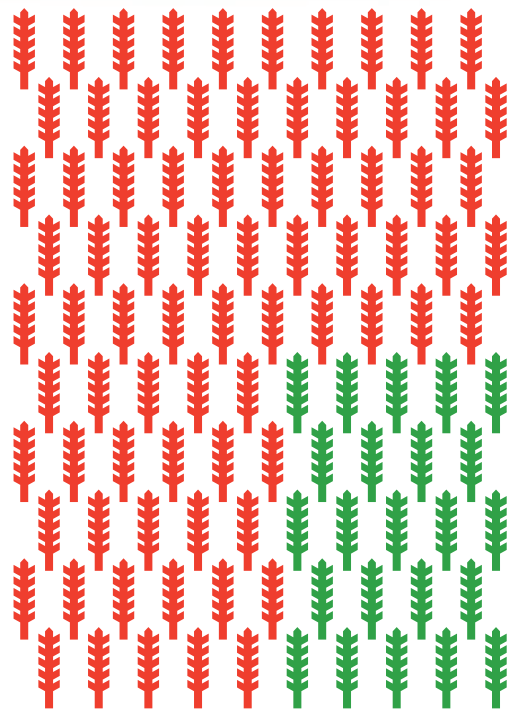
### Focus on Oat and Barley Growers and End-Users

One six-row general purpose and two two-row malting barley cultivars, as well as three milling oat varieties, were accepted by the Prairie Recommending Committee for Oats and Barley. The three oat varieties focus simultaneously on the producer and the end-user. OT3054 is a milling oat with very good yield potential,

## Variety Development

During the last five years, more than 75 per cent of the wheat planted in Western Canada was comprised of varieties developed by Agriculture and Agri-Food Canada.

The graphic shows a field of stylized wheat heads in red and green. The red wheat heads represent the varieties developed by AAFC, and the green ones represent those developed by others. The red wheat heads cover 75 per cent of the field: this provides a more dramatic graphic representation of the importance of AAFC in the development of wheat varieties.



AAFC Developed Varieties



Varieties Developed by Others

Data Source: Canadian Wheat Board 2006 to 2010 Variety Surveys.





Highlights of the recommended cultivars include increased yield potential, improved quality, early maturity, improved disease resistance and resistance to the orange wheat blossom midge.

excellent milling yield, high thousand kernel weight and plumps, low thins, acceptable test weight and crown rust resistance similar to CDC Dancer. OT3056 is a milling oat with good yield potential, good milling yield, good straw strength, high thousand kernel weight and plumps, low thins, acceptable test weight and elevated beta-glucan content over CDC Dancer. Meanwhile, OT4001R is a high-yielding, shorter stature white hulled milling oat with excellent straw strength and above-average beta-glucan levels, making it of interest to both growers and end-users.

### **Pulses and Special Crops Take Off**

Nineteen candidate lines were considered and approved for registration by members of the Pulses and Special Crops Recommending Committee. Eleven recommended field pea varieties include nine yellow cotyledon and two green. Highlights



of the pea lines include improved yield potential, resistance to powdery mildew, large seed size, longer vine length and improved lodging resistance.

The one recommended lentil variety, 3305-7, is a high-yielding green lentil line which is similar to CDC LeMay, a French green lentil. 3305-7 has improved lodging tolerance and is taller than CDC LeMay, resulting in improved harvestability.

Seven dry bean varieties—one red, one great northern, two navy and three pinto—were also recommended by the committee. SR47-3-3, a high-yielding small red bean line with good seed quality, partially upright indeterminate growth habit and early maturity, and GN13-10-1, a high-yielding great northern bean line with upright indeterminate growth habit and good seed quality, are both adapted to the Red River Valley of Manitoba. OAC 05-1 is a navy bean line with excellent yield and maturity, while navy bean line 1190m-13 combines high

yield with early maturity and indeterminate growth habit, making it suitable for the irrigated regions of Saskatchewan as well as for dryland production in eastern Saskatchewan and western Manitoba.

### Three Flax Varieties Shine

Members of the Prairie Recommending Committee for Oilseeds voted in support of three flax varieties: FP 2308, FP 2314 and FP 2325. All three varieties have strong agronomic packages. FP 2314 is a “star” line with no weaknesses identified on the support documentation. The line is adapted for flax growers in all areas of Western Canada, with yield similar to CDC Bethune, and is significantly greater in seed weight, iodine value, linolenic acid content and oil yield than check CDC Flanders. **Julie McNabb**



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## ASGA's new research project aims to develop a unique, home-grown strategy for boosting investment in western Canadian cereals.

**ASK** any savvy cereals producer about the future of cereals in Western Canada, and odds are you'll get the same answer: there is no future in cereals unless we make one for ourselves.

This is one of the mandates of the Alberta Seed Growers' Association—building a strong future for the sector in the midst of fluctuating, and increasingly competitive, global markets. It's also the reason why the ASGA has launched a new project entitled Investigation and Development of a New Cereal Plant Breeding Model for Western Canada. The project aims to do the following:

- Investigate global cereal breeding programs;
- Share results through broad-based stakeholder consultations and communications in Western Canada; and
- Define the preferred business model(s) for future cereal plant breeding in Canada.

A steering committee made up of growers from 10 different producer organizations will guide the project through various steps, beginning this fall and ending next July. The group will facilitate meetings with a wide range of stakeholders, including farmers, farm organizations, government representatives, public and private industry members, companies, consultants, and members of the public.

The result of the project will be a business model blueprint for cereal breeding in Western Canada—one which clearly delineates the roles that farmers, industry and government will play in strengthening the sector in the years to come.

### Falling Behind

The rationale behind the project boils down to this: Canada is falling behind in cereals research and development. According to Alan Hall, new initiatives and project hunter with the Alberta Crop Industry Development Fund, one of several organizations

involved in the cereals project, investment in cereal research and breeding has dramatically increased around the world, but Canada has not seen comparable growth.

"In Australia, investment has doubled or tripled over the last few years. Here in Canada, we're probably running at about \$20 to \$30 million a year in wheat breeding," Hall explains.

"As other parts of the world [develop] better genetics, their investments are going to put us in a pretty tight spot. Farmers are asking—what role do we want to play in this? Do we want to

**"Farmers are asking—what role do we want to play in this? Do we want to have an active role in investing in cereal breeding, or don't we?"**

– Alan Hall

have an active role in investing in cereal breeding, or don't we? In Australia, farmers own about 60 per cent of the wheat breeding business. Will we move in that direction?"

Ryan Mercer, ASGA president and a seed grower himself, says it's an issue that has become increasingly pressing. "Over the past few years, but especially this last winter, with the changes in the way cereals are being marketed in Canada, and with the

lack of public funding going into plant breeding, I was hearing concerns that farmers were not going to be competitive globally," he says. "Lots of research was going into canola, corn and soybeans, but not so much into wheat and barley. So we thought we should come up with some solutions."

Key to the project's first stage will be the investigation of plant breeding models around the world, including Europe, the United States, Argentina, Brazil, Uruguay and Australia. "We want to look at models throughout the world but come up with a made-in-Canada solution," says Mercer.

It wasn't simply the need for increased investment in the sector that prompted the project, Mercer says—the producers themselves wanted a stronger voice in how that investment would play out. "The producers wanted to maintain control and have a significant say in where producer and public dollars were spent in terms of plant breeding," he explains.

"Everyone on our steering committee is a producer. I think we see private industry and government more as advisors—although that might change. We need to figure out as producers where we're at, and then involve government and industry."

### Key Challenges

The steering committee faces several challenges right from the start—key among them being the sheer scope of the project, which aims to be completed in less than a year. "Time to engage a broad array of people is going to be quite a challenge," says Hall. "A lot of meaningful conversations will have to happen over a fairly tight timeline."

Those "meaningful conversations" will form the core of the project's goal—to find a solution that works for all stakeholders, across the board. Mercer believes the biggest challenge the project is facing will be finding the right consultants. "That's going to be really instrumental in finding which are the most advantageous results—we want to choose the consultants who can see all sides of this," he says. "We don't want to discourage private industry in investing in these areas, but we'd like to be a partner with private industry. We want a consultant who's going to understand where the producers are coming from, and also understand where private investment is coming from."

The exact roles producers, government and companies will be assigned in the final report, which will be tabled next summer, remains to be seen. According to both Hall and Mercer, no part of that balance has been predetermined by the steering committee or the organizations involved. The solution, they hope, will emerge from fruitful discussions which reflect all sides of the issue.

Mercer is confident that the challenges the project is facing can be overcome. All stakeholders agree that investment in cereals must increase, or producers will be hurt in the long run. In light of that shared goal, the spirit of cooperation will be the key to finding a solution that works for everyone, with "producers, private and public [investors] coming together at the table and trying to figure out how to work together," Mercer says.

"We can accomplish a lot more by working together and not being divided. I think that is going to be a lasting outcome long after the study is complete." **Julienne Isaacs**

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# Alberta and British Columbia Pedigreed Seed Growers Directory of Varieties Produced in 2012

Grower listings were prepared by the Canadian Seed Growers' Association for varieties eligible for sale in Canada and crops issued certificates at the time of publication. Breeding institution and distributor listings were prepared by the publisher. CSGA assumes no responsibility for errors or omissions in any listings. Pedigreed class code is listed after the grower's phone number. S=Select; F=Foundation; R=Registered; C=Certified; BI=Breeding Institution; Dist=Canadian Distributor(s)

## BARLEY

|  | S | F | R | C |
|--|---|---|---|---|
| <b>ABI VOYAGER</b>   |   |   |   |   |
| <b>BI: Busch Ag. Res. Dist: Canterra Seeds</b>                   |   |   |   |   |
| Haney Farms (1985) Limited / Picture Butte / (403) 738-4517      |   |   | R |   |
| <b>AC ALBRIGHT</b>   |   |   |   |   |
| <b>BI: AAFC (Lacombe), Dist: SeCan Members</b>                   |   |   |   |   |
| Wuthrich, David / Cecil Lake / (250) 781-3527                    |   |   | R |   |
| <b>AC HARPER</b>   |   |   |   |   |
| <b>BI: AAFC (Lethbridge), Dist: SeCan Members</b>                |   |   |   |   |
| Feenstra, Lloyd / Barons / (403) 757-3737                        |   |   |   | C |
| Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395          |   |   |   | C |
| <b>AC LACOMBE</b>  |   |   |   |   |
| <b>BI: AAFC (Lacombe), Dist: SeCan Members</b>                   |   |   |   |   |
| Jones, Danny / Beaverlodge / (780) 354-8089                      |   |   | R |   |
| <b>AC METCALFE</b>   |   |   |   |   |
| <b>BI: AAFC (Brandon), Dist: SeCan Members</b>                   |   |   |   |   |
| Andersen, B.W. / Kitscoty / (780) 847-2022                       |   |   |   | C |
| Archer, Charles Darrel / Wetaskiwin / (780) 352-3179             |   |   |   | C |
| Benci, Dennis / Carmangay / (403) 643-2294                       |   |   | R |   |
| Chin Ridge Seeds Ltd. / Taber / (403) 223-3900                   |   |   | R | C |
| Crop Production Services Canada / Didsbury / (403) 335-3055      |   |   | R | C |
| Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456            |   |   | R |   |
| Dueck, Ralph E. & Brent / Olds / (403) 556-2602                  |   |   |   | R |
| Eliason, Bruce W. / Wrentham / (403) 222-2258                    | S | F |   |   |
| Ellis, Brian / Olds / (403) 556-2890                             |   |   | R | C |
| Foster, Norman R. / Beaverlodge / (780) 354-2107                 |   |   |   | C |
| Freh, Herman R. / Colinton / (780) 675-4840                      |   |   |   | C |
| Goldstrom, David / Innisfail / (403) 227-2133                    |   |   |   | C |
| Hallett, Dale R. & Richard / Carstairs / (403) 337-2469          |   |   |   | C |
| Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268    |   |   |   | C |
| Holmen, Jonathan W. & Carson R. / Rosedale / (403) 823-9296      |   |   |   | C |
| Kapitski, Lawrence / Andrew / (780) 365-2134                     |   |   |   | C |
| Kaun, Mark L. / Penhold / (403) 886-4562                         |   |   |   | C |
| Kopjar, Gerald M. / Rowley / (403) 368-2409                      |   |   |   | C |
| Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500          |   |   | R | C |
| Limoges, Marcel / M'Lennan / (780) 324-3024                      |   |   |   | C |
| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240 |   |   |   | C |
| Markert Seeds Ltd. / Vulcan / (403) 485-6708                     |   |   |   | C |
| Massey, Derwin / Stettler / (403) 883-2503                       |   |   |   | C |
| M'Donald, Gerald / Grande Prairie / (780) 538-3868               |   |   |   | C |
| M'Nelly, Bevin / Clyde / (780) 348-5749                          |   |   | R | C |
| Miller, Gordon J. / Milk River / (403) 642-2424                  |   |   |   | C |
| Miller, Kenneth F. / Milk River / (403) 647-2127                 |   |   |   | C |
| Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595 |   |   | R |   |
| Murray, Bruce / Lethbridge / (403) 327-9389                      |   |   | R | C |
| Nemetz, Charlie, Jerritt, Lewis & B. / Stettler / (403) 742-0436 |   |   |   | C |
| Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645         |   |   |   | C |
| Oatway, Grant / Lacombe / (403) 784-3418                         |   |   |   | C |
| Penner, Larry / Three Hills / (403) 443-7212                     |   |   | R | C |
| Peters, Edward W. / Didsbury / (403) 335-4506                    |   |   | R |   |
| Pizzey, J. David / Canmore / (403) 609-3588                      |   |   |   | C |
| Rasmuson, Dennis G. & Cory Dean / Gwynne / (780) 361-3813        |   |   | R |   |
| Strain, Arthur George / Foremost / (403) 867-2227                |   |   |   | C |
| Svean, Alan Carl & Scott / Rivercourse / (780) 745-2578          |   |   | R | C |
| Thomas, Earl J. / Warner / (403) 642-2253                        |   |   |   | C |
| Wagner, Terry & Loree / Lacombe / (403) 782-2107                 |   |   | R |   |
| Weigum, Garry / Three Hills / (403) 443-2476                     |   |   |   | C |
| Welsh, Donald Alan / Milk River / (403) 647-2228                 |   |   | R | C |
| Wood, Robert, Patricia & Marshall / Bowden / (403) 224-3928      |   |   |   | C |
| <b>AC RANGER</b>   |   |   |   |   |
| <b>BI: AAFC (Brandon), Dist: FP Genetics</b>                     |   |   |   |   |
| Airth, Jock & Linda / Brooks / (403) 362-4372                    |   |   |   | C |

|  |  |  |  |   |
|--|--|--|--|---|
| <b>BENTLEY</b>   |  |  |  |   |
| <b>BI: AAFRD, Dist: Canterra Seeds</b>                           |  |  |  |   |
| Cameron, Danny / Millet / (780) 387-5313                         |  |  |  | R |
| Kaun, David E. / Penhold / (403) 886-4562                        |  |  |  | C |
| <b>BRETON</b>  |  |  |  |   |
| <b>BI: AAFRD, Dist: Canterra Seeds</b>                           |  |  |  |   |
| Laliberte, Adam & Vos, Henry / Fairview / (780) 835-5286         |  |  |  | S |
| <b>BUSBY</b>   |  |  |  |   |
| <b>BI: AAFRD, Dist: Mastin Seeds</b>                             |  |  |  |   |
| Anderson, Ken & Evelyn / Barrhead / (780) 674-5670               |  |  |  | C |
| Feenstra, Lloyd / Barons / (403) 757-3737                        |  |  |  | C |
| Freh, Herman R. / Colinton / (780) 675-4840                      |  |  |  | C |
| Gibson, Donald / Sangudo / (780) 785-2214                        |  |  |  | C |
| Jones, Greg Thomas / Ponoka / (403) 783-6495                     |  |  |  | C |
| Mastin, Robert B. / Sundre / (403) 556-2609                      |  |  |  | R |
| Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595 |  |  |  | C |
| Schultz, Jason / Bashaw / (780) 372-2286                         |  |  |  | R |
| Smith, Gary W. / Eckville / (403) 746-5878                       |  |  |  | C |
| Vanruskenveld, Gerald L. / Westlock / (780) 349-2466             |  |  |  | C |
| <b>CDC AUSTENSON</b>   |  |  |  |   |
| <b>BI: CDC, Dist: SeCan Members</b>                              |  |  |  |   |
| Airth, Jock & Linda / Brooks / (403) 362-4372                    |  |  |  | C |
| Benci, Dennis / Carmangay / (403) 643-2294                       |  |  |  | C |
| Card, Gordon B. / Magrath / (403) 758-3444                       |  |  |  | C |
| Chin Ridge Seeds Ltd. / Taber / (403) 223-3900                   |  |  |  | C |
| Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151   |  |  |  | C |
| Crop Production Services Canada / Didsbury / (403) 335-3055      |  |  |  | R |
| Dallas, Bradley C. / Bowden / (403) 224-2162                     |  |  |  | C |
| Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321        |  |  |  | S |
| Ellis, Brian / Olds / (403) 556-2890                             |  |  |  | F |
| Freh, Herman R. / Colinton / (780) 675-4840                      |  |  |  | R |
| Galloway, James D. & Peter / Fort Saskatchewan / (780) 998-3036  |  |  |  | R |
| Hadland, Edward / Baldonnel / (250) 789-3646                     |  |  |  | R |
| Hallett, Dale R. & Richard / Carstairs / (403) 337-2469          |  |  |  | C |
| Haney Farms (1985) Limited / Picture Butte / (403) 738-4517      |  |  |  | C |
| Hoff, Peter Edward / Gleichen / (403) 734-2140                   |  |  |  | C |
| Huvenaars, Carl / Hays / (403) 725-2213                          |  |  |  | C |
| Kemp, Richard L. / Innisfail / (403) 227-4836                    |  |  |  | R |
| King, Harold F. / Three Hills / (403) 443-7330                   |  |  |  | C |
| Klassen, Ken / Rosemary / (403) 378-4408                         |  |  |  | C |
| Kopjar, Gerald M. / Rowley / (403) 368-2409                      |  |  |  | C |
| Kotowich, Paul & Dennis / St.Paul / (780) 645-2535               |  |  |  | C |
| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240 |  |  |  | R |
| Markert Seeds Ltd. / Vulcan / (403) 485-6708                     |  |  |  | R |
| Massey, Derwin / Stettler / (403) 883-2503                       |  |  |  | C |
| M'Donald, Gerald / Grande Prairie / (780) 538-3868               |  |  |  | C |
| M'Nelly, Bevin / Clyde / (780) 348-5749                          |  |  |  | R |
| Metzger, Don / Three Hills / (403) 572-3284                      |  |  |  | C |
| Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595 |  |  |  | S |
| Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645         |  |  |  | F |
| Oatway, Lori / Lacombe / (403) 784-3418                          |  |  |  | R |
| Persely, Edward & Shirley / Bonnyville / (780) 826-2992          |  |  |  | R |
| Peters, Edward W. / Didsbury / (403) 335-4506                    |  |  |  | R |
| Selte, Donald / Vermilion / (780) 853-2484                       |  |  |  | R |
| Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322           |  |  |  | R |
| Shultz, Shawn / Didsbury / (403) 335-3694                        |  |  |  | R |
| Sim, Darwin & Derek / Ponoka / (780) 372-2111                    |  |  |  | R |
| Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358      |  |  |  | R |
| Stamp, Richard, M., Greg & Nathan / Enchant / (403) 739-2233     |  |  |  | C |
| Templeton, Brant / Lethbridge / (403) 345-4124                   |  |  |  | C |
| Trueblood, Brian G. / Dapp / (780) 954-3745                      |  |  |  | R |
| Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253         |  |  |  | R |
| Warkentin, Harold K. & Errol / Tofield / (780) 662-2617          |  |  |  | S |
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| Welsh, Donald Alan / Milk River / (403) 647-2228                   |   |   |   | C |
| Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395            |   |   |   | C |
| <b>CDC BATTLEFORD</b>  |   |   |   |   |
| <b>BI: CDC, Dist: SeCan Members</b>                                |   |   |   |   |
| Wagner, Terry & Loree / Lacombe / (403) 782-2107                   | S |   | R |   |
| <b>CDC COALITION</b>   |   |   |   |   |
| <b>BI: CDC, Dist: Canterra Seeds</b>                               |   |   |   |   |
| Cameron, Danny / Millet / (780) 387-5313                           |   |   | R | C |
| Cross, Douglas / Westlock / (780) 349-2587                         |   |   | R | C |
| Cyre, Clifford & Greg / Barrhead / (780) 349-4775                  |   |   | R | C |
| Galloway, James D. & Peter / Fort Saskatchewan / (780) 998-3036    |   |   |   | C |
| Kaun, Mark L. / Penhold / (403) 886-4562                           |   |   |   | C |
| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240   |   |   |   | C |
| Plante, Jacques / St. Paul / (780) 645-4604                        |   |   |   | C |
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| Chin Ridge Seeds Ltd. / Taber / (403) 223-3900                     |   |   |   | C |
| Clark, Todd / Edmonton / (780) 472-6308                            |   |   |   | C |
| Crop Production Services Canada / Didsbury / (403) 335-3055        |   |   |   | C |
| Dallas, Bradley C. / Bowden / (403) 224-2162                       |   |   | R | C |
| Dueck, Ralph E. & Brent / Olds / (403) 556-2602                    | S | F | R | C |
| Eliason, Bruce W. / Wrentham / (403) 222-2258                      |   |   |   | C |
| Goldstrom, David / Innisfail / (403) 227-2133                      |   |   | R | C |
| Hadway, W. Tom & Carol / Didsbury / (403) 335-4929                 |   |   |   | C |
| Hallett, Dale R. & Richard / Carstairs / (403) 337-2469            |   |   |   | C |
| Kemp, Richard L. / Innisfail / (403) 227-4836                      |   |   |   | C |
| King, Harold F. / Three Hills / (403) 443-7330                     |   |   |   | C |
| Kittle, James W. & Andrew / Viking / (780) 336-2583                |   | F |   | C |
| Kopjar, Gerald M. / Rowley / (403) 368-2409                        |   |   | R | C |
| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240   |   |   | R | C |
| Markert Seeds Ltd. / Vulcan / (403) 485-6708                       |   |   |   | C |
| M <sup>c</sup> Nelly, Bevin / Clyde / (780) 348-5749               |   |   |   | C |
| Meinczinger, Matthew Jr. / Busby / (780) 349-2456                  |   |   |   | C |
| Murray, Bruce / Lethbridge / (403) 327-9389                        |   |   |   | C |
| Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645           |   |   |   | C |
| Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788             |   |   | F | C |
| Penner, Larry / Three Hills / (403) 443-7212                       |   |   |   | R |
| Peters, Edward W. / Didsbury / (403) 335-4506                      |   |   |   | R |
| Selte, Donald / Vermilion / (780) 853-2484                         |   |   |   | C |
| Smith, Miles A. / Trochu / (403) 442-2693                          |   |   |   | C |
| Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253           |   |   |   | C |
| Wagner, Terry & Loree / Lacombe / (403) 782-2107                   |   |   |   | C |
| Zwack, Thomas / Daysland / (780) 374-2450                          |   |   |   | R |
| <b>CDC COWBOY</b>  |   |   |   |   |
| <b>BI: CDC, Dist: SeCan Members</b>                                |   |   |   |   |
| Airth, Jock & Linda / Brooks / (403) 362-4372                      |   |   |   | R |
| Bright, David / New Norway / (780) 855-2240                        |   |   |   | R |
| Chin Ridge Seeds Ltd. / Taber / (403) 223-3900                     |   |   | S | C |
| Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456              |   |   |   | C |
| Degenhardt, Keith, Terry Lee & Kerry / Hughenden / (780) 856-2383  |   |   |   | C |
| Foster, Norman R. / Beaverlodge / (780) 354-2107                   |   |   |   | C |
| Hadland, Edward / Balldonnel / (250) 789-3646                      |   |   |   | R |
| M <sup>c</sup> Nelly, Bevin / Clyde / (780) 348-5749               |   |   |   | R |
| Pare, Raymond A. / Wainwright / (780) 842-2073                     |   |   |   | R |
| Sand, Ron W. & David R. / M <sup>c</sup> Laughlin / (780) 745-2251 |   |   |   | C |
| Selte, Donald / Vermilion / (780) 853-2484                         |   |   | S | F |
| Stewart, E. Wilbur & Eldon / Big Valley / (403) 876-2784           |   |   |   | C |
| Warkentin, Harold K. & Errol / Tofield / (780) 662-2617            |   |   |   | C |
| Zwack, Thomas / Daysland / (780) 374-2450                          |   |   |   | C |
| <b>CDC EARL</b>  |   |   |   |   |
| <b>BI: CDC, Dist: N/A</b>  |   |   |   |   |
| Airth, Jock & Linda / Brooks / (403) 362-4372                      |   |   |   | F |
| <b>CDC HELGASON</b>  |   |   |   |   |
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| Hadland, Edward / Balldonnel / (250) 789-3646                      |   |   |   | R |
| Smith, Gary W. / Eckville / (403) 746-5878                         |   |   |   | C |
| <b>CDC KINDERSLEY</b>  |   |   |   |   |
| <b>BI: CDC, Dist: SeCan Members</b>                                |   |   |   |   |
| Kittle, James W. & Andrew / Viking / (780) 336-2583                |   |   | S | R |
| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240   |   |   | S | F |
| SeCan Association / Kanata / (613) 592-8600                        |   |   | S | R |

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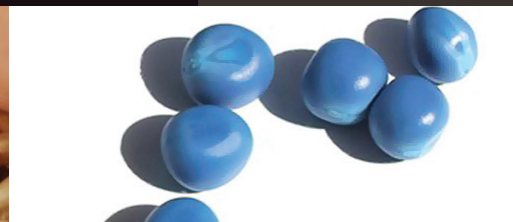
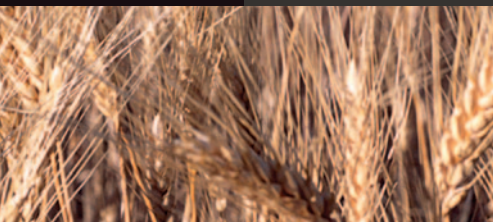
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| Viterra / Regina / (306) 569-5027                                     | S |   |   |
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| Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322                |   |   | R |
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| Ellis, Brian / Olds / (403) 556-2890                                  |   |   | C |
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| Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535             |   |   | R |
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| Richards, Cliff & Dan / Sexsmith / (780) 766-2266              |   |   | R |
| Viterra / Regina / (306) 569-5027                              | S | F | R |
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| Crop Production Services Canada / Didsbury / (403) 335-3055    |   |   | R |
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| Haney Farms (1985) Limited / Picture Butte / (403) 738-4517    |   |   | C |
| Repka, Gerald / Willingdon / (780) 636-3458                    |   |   | C |
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| Webber, Curtis / Stony Plain / (780) 963-6897                  |   |   | C |
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 Markert Seeds Ltd. / Vulcan / (403) 485-6708 R  
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**RYE**

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**PRIMA**

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|  | S | F | R | C |
|--|---|---|---|---|
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| <b>PRONGHORN</b><br>BI: AARD Dist: Not Assigned<br>Mans, John / Nobleford / (403) 824-3585   |   |   | R |   |
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| <b>TAZA</b><br>BI: AAFRD (Lacombe), Dist: Solick Seeds<br>Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358  |   |   | R |   |
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|  | S | F | R | C |
|--|---|---|---|---|
| <b>BOBCAT</b><br>BI: AAFRC (Swift Current), Dist: Corns Brothers Farms<br>Corns, Bryan & Gary / Grassy Lake / (403) 655-2464 | S |   |   |   |
| <b>FRIDGE</b><br>BI: N/A, Dist: N/A<br>Wood, Robert, Patricia & Marshall / Bowden / (403) 224-3928                           |   |   |   | C |
| <b>LUOMA</b><br>BI: AARD (Lacombe), Dist: Corns Brothers Farms<br>Corns, Bryan & Gary / Grassy Lake / (403) 655-2464         |   |   | R |   |
| <b>METZGER</b><br>BI: AAFRD (Lacombe), Dist: Haney Farms Ltd.<br>Corns, Bryan & Gary / Grassy Lake / (403) 655-2464          |   |   |   | C |

## WHEAT - DURUM

|   | S      | F | R | C                               |
|---|--------|---|---|---------------------------------|
| <b>AC NAVIGATOR</b><br>BI: AAFRC (Swift Current), Dist: Viterra<br>Viterra / Regina / (306) 569-5027  | S      | F | R | C                               |
| <b>BRIGADE</b><br>BI: AAFRC (Swift Current), Dist: Viterra<br>Viterra / Regina / (306) 569-5027   | S      | F | R | C                               |
| <b>CDC VERONA</b><br>BI: CDC, Dist: Alliance Seed Corp.<br>Mercer, Lloyd, Connie & Ryan / Lethbridge / (403) 327-9736<br>Nikkel, Ed / Lethbridge / (403) 792-2116<br>Van Roessel, William & Jean / Bow Island / (403) 545-6018<br>Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434<br>Willms, Kevin J. / Grassy Lake / (403) 655-2450  |        |   |   | C<br>C<br>C<br>F<br>S<br>F<br>R |
| <b>CDC VIVID</b><br>BI: CDC, Dist: Viterra<br>Viterra / Regina / (306) 569-5027<br>Willms, Kevin J. / Grassy Lake / (403) 655-2450  | S<br>S |   |   |                                 |
| <b>ENTERPRISE</b><br>BI: AAFRC (Swift Current), Dist: Canterra Seeds<br>Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151<br>Haney Farms (1985) Limited / Picture Butte / (403) 738-4517<br>Mercer, Lloyd, Connie & Ryan / Lethbridge / (403) 327-9736<br>Welsh, Donald Alan / Milk River / (403) 647-2228<br>Welsh, Stuart Jason / Milk River / (403) 647-2228  |        |   |   | C<br>C<br>F<br>C<br>C           |
| <b>HALLMARK</b><br>BI: N/A, Dist: N/A<br>C & M Seeds / Palmerston / (519) 343-2126<br>Haney Farms (1985) Limited / Picture Butte / (403) 738-4517   |        |   | R | C<br>C                          |
| <b>STRONGFIELD</b><br>BI: AAFRC (Swift Current), Dist: SeCan Members<br>Chin Ridge Seeds Ltd. / Taber / (403) 223-3900<br>Haney Farms (1985) Limited / Picture Butte / (403) 738-4517<br>Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347<br>Holmen, Jonathan W. & Carson R. / Rosedale / (403) 823-9296<br>Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338<br>Strain, Arthur George / Foremost / (403) 867-2227 |        | S | F | R<br>C<br>C<br>C<br>C           |

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| <b>TRANSCEND</b>                                 |   |   |   |   |
| <b>BI: AAFC (Swift Current), Dist: N/A</b>       |   |   |   |   |
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| Hummel, Wallace H. / Milk River / (403) 647-3749 |   |   | R |   |
| Markert Seeds Ltd. / Vulcan / (403) 485-6708     |   |   | R |   |

**WHEAT - MIDGE TOLERANT** S F R C

|  |   |  |  |  |
|--|---|--|--|--|
| <b>CDC UTMOST-HARVEST</b>  |   |  |  |  |
| <b>BI: N/A, Dist: FP Genetics</b>                                  |   |  |  |  |
| Andrukow, Allan / Viking / (780) 385-6402                          |   |  |  |  |
| Benci, Dennis / Carmangay / (403) 643-2294                         |   |  |  |  |
| Dalton, Dennis / Wainwright / (780) 842-2361                       |   |  |  |  |
| Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036           |   |  |  |  |
| Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268      |   |  |  |  |
| Hoff, Peter Edward / Gleichen / (403) 734-2140                     |   |  |  |  |
| King, Harold F. / Three Hills / (403) 443-7330                     |   |  |  |  |
| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240   |   |  |  |  |
| Markert Seeds Ltd. / Vulcan / (403) 485-6708                       |   |  |  |  |
| Massey, Derwin / Stettler / (403) 883-2503                         |   |  |  |  |
| Pizzey, J. David / Canmore / (403) 609-3588                        |   |  |  |  |
| Sand, Ron W. & David R. / M <sup>l</sup> Laughlin / (780) 745-2251 |   |  |  |  |
| Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358        |   |  |  |  |
| Tomlinson, Chelsea / Redwater / (780) 777-5885                     |   |  |  |  |
| Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253           |   |  |  |  |
| <b>CONQUER - 5701PR</b>  |   |  |  |  |
| <b>BI: AAFC, Dist: Canterra Seeds</b>                              |   |  |  |  |
| Markert Seeds Ltd. / Vulcan / (403) 485-6708                       |   |  |  |  |
| <b>ENCHANT-AC CRYSTAL</b>  |   |  |  |  |
| <b>BI: N/A, Dist: FP Genetics</b>                                  |   |  |  |  |
| Sand, Ron W. & David R. / M <sup>l</sup> Laughlin / (780) 745-2251 | S |  |  |  |
| <b>GOODEVE-AC INTREPID</b>   |   |  |  |  |
| <b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>                    |   |  |  |  |
| Alliance Seed Corporation / Winnipeg / (204) 272-2890              |   |  |  |  |
| Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500            |   |  |  |  |

|   |  |  |  |   |
|---|--|--|--|---|
| <b>SHAW-AC DOMAIN</b>                                       |  |  |  |   |
| <b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>             |  |  |  |   |
| Huvenaars, John & Lisa / Hays / (403) 725-2126              |  |  |  |   |
| Shultz, Shawn / Didsbury / (403) 335-3694                   |  |  |  |   |
| Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358 |  |  |  |   |
| Warkentin, Harold K. & Errol / Tofield / (780) 662-2617     |  |  |  | S |
| <b>UNITY-WASKADA</b>  |  |  |  |   |
| <b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>             |  |  |  |   |
| Dow, Willard & Dale / Rivercourse / (306) 387-6767          |  |  |  |   |
| Eliason, Bruce W. / Wrentham / (403) 222-2258               |  |  |  |   |
| Jacula, Dean S. & Shawn D. / Vermilion / (780) 853-7333     |  |  |  |   |
| Warkentin, Harold K. & Errol / Tofield / (780) 662-2617     |  |  |  |   |
| <b>VESPER-WASKADA</b>                                       |  |  |  |   |
| <b>BI: N/A, Dist: SeCan Members</b>                         |  |  |  |   |
| Pare, Raymond A. / Wainwright / (780) 842-2073              |  |  |  |   |
| Pizzey, J. David / Canmore / (403) 609-3588                 |  |  |  |   |

**WHEAT - SPRING** S F R C

|  |   |   |  |       |
|--|---|---|--|-------|
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| <b>BI: Syngenta Seeds Canada, Dist: Viterra</b>                    |   |   |  |       |
| Murray, Bruce / Picture Butte / (403) 732-5550                     |   |   |  | C     |
| Viterra / Regina / (306) 569-5027                                  | S | F |  | R C   |
| <b>5700PR</b>  |   |   |  |       |
| <b>BI: Viterra, Dist: Viterra</b>                                  |   |   |  |       |
| Viterra / Regina / (306) 569-5027                                  |   |   |  | S R C |
| <b>AAC BAILEY</b>  |   |   |  |       |
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| <b>AAC REDWATER</b>  |   |   |  |       |
| <b>BI: AAFC (Lacombe), Dist: SeCan Members</b>                     |   |   |  |       |
| Oatway, Ward / Lacombe / (403) 784-3418                            |   |   |  | S     |
| <b>AC ANDREW</b>   |   |   |  |       |
| <b>BI: AAFC (Lethbridge), Dist: SeCan Members</b>                  |   |   |  |       |
| Kittle, James W. & Andrew / Viking / (780) 336-2583                |   |   |  | C     |
| <b>AC CRYSTAL</b>  |   |   |  |       |
| <b>BI: AAFC (Swift Current), Dist: SeCan Members</b>               |   |   |  |       |
| Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456              |   |   |  | C     |
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| <b>BI: Viterra, Dist: Viterra</b>                                  |   |   |  |       |
| Willms, Kevin J. / Grassy Lake / (403) 655-2450                    |   |   |  | S F R |
| <b>AC ELSA</b>   |   |   |  |       |
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| <b>AC FOREMOST</b>   |   |   |  |       |
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| Cyre, Clifford & Greg / Barrhead / (780) 349-4775                  |   |   |  | R C   |
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| Jackson, Thomas / Killam / (780) 385-2332                                     | C |
| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240              | C |
| Meinczinger, Matthew Jr. / Busby / (780) 349-2456                             |   |
| Nanninga, Justin / Neerlandia / (780) 674-3822                                |   |
| Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788                        | F |
| Radke, Bryan Victor / Barrhead / (780) 674-5715                               | F |
| Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535                     | C |
| Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253                      | F |
| Webber, Curtis / Stony Plain / (780) 963-6897                                 | C |
| Wood, Robert, Patricia & Marshall / Bowden / (403) 224-3928                   | C |
| <b>AC MEENA</b>   |   |
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| Murdoch, Jody / Fort Steele / (250) 489-2339                                  |   |
| Saari, Sue / Cranbrook / (250) 421-0874                                       |   |
| <b>AC SPLENDOR</b>  |   |
| <b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>                               |   |
| Sand, Ron W. & David R. / M <sup>c</sup> Laughlin / (780) 745-2251            | C |
| <b>ALVENA</b>   |   |
| <b>BI: Semiarid Prairie Agricultural Research Centre, Dist: SeCan Members</b> |   |
| Wagner, Terry & Loree / Lacombe / (403) 782-2107                              | C |
| Webber, John D.J. / Berwyn / (780) 338-3657                                   | C |
| <b>CARBERRY</b>   |   |
| <b>BI: N/A, Dist: SeCan Members</b>   |   |
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| Card, Gordon B. / Magrath / (403) 758-3444                                    | C |
| Chin Ridge Seeds Ltd. / Taber / (403) 223-3900                                | C |
| Corns, Bryan & Gary / Grassy Lake / (403) 655-2464                            | C |
| Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151                | C |
| Dovichak, Michael / Brooks / (403) 501-5420                                   | C |
| Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321                     | F |
| Eliason, Bruce W. / Wrentham / (403) 222-2258                                 | C |
| Feenstra, Lloyd / Barons / (403) 757-3737                                     | C |
| Haney Farms (1985) Limited / Picture Butte / (403) 738-4517                   | C |

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| Pizzev, J. David / Canmore / (403) 609-3588                    |   |   | R |
| Stamp, Richard, M., Greg & Nathan / Enchant / (403) 739-2233   |   |   | C |
| Strain, Arthur George / Foremost / (403) 867-2227              | S |   |   |
| Templeton, Doran / Lethbridge / (403) 345-4144                 |   |   | C |
| Van Roessel, William & Jean / Bow Island / (403) 545-6018      |   |   | R |
| Welsh, Donald Alan / Milk River / (403) 647-2228               |   |   | C |
| Welsh, Stuart Jason / Milk River / (403) 647-2228              |   |   | C |
| Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395        |   |   | C |
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| Crop Production Services Canada / Didsbury / (403) 335-3055    |   |   | C |
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| Ellis, Brian / Olds / (403) 556-2890                           |   |   | R |
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| Hadway, Walter Thomas / Didsbury / (403) 335-4929              |   |   | C |
| Hoff, Peter Edward / Gleichen / (403) 734-2140                 |   |   | C |
| Holmen, Jonathan W. & Carson R. / Rosedale / (403) 823-9296    |   |   | C |
| Kaun, David E. / Penhold / (403) 886-4562                      |   |   | R |
| Kemp, Richard L. / Innisfail / (403) 227-4836                  |   |   | C |
| King, Harold F. / Three Hills / (403) 443-7330                 |   |   | C |
| Limoges, Marcel / M <sup>c</sup> Lennan / (780) 324-3024       |   |   | C |
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| Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395         |   |   | C   |
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| <b>CDC NRG003</b>   |   |   |     |
| <b>BI: CDC, Dist: Canterra Seeds</b>                            |   |   |     |
| Kapitski, Lawrence / Andrew / (780) 365-2134                    |   | R | C   |
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| <b>BI: CDC, Dist: FP Genetics</b>                               |   |   |     |
| Andersen, B.W. / Kitscoty / (780) 847-2022                      |   |   | R   |
| Galloway, James D. & Peter / Fort Saskatchewan / (780) 998-3036 | S |   |     |
| <b>CDC STANLEY</b>  |   |   |     |
| <b>BI: CDC, Dist: Viterra</b>                                   |   |   |     |
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| <b>CDC THRIVE</b>   |   |   |     |
| <b>BI: CDC, Dist: Cargill Ltd.</b>                              |   |   |     |
| Cameron, Danny / Millet / (780) 387-5313                        |   | F |     |
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| <b>BI: CDC, Dist: Viterra</b>                                   |   |   |     |
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| Crop Production Services Canada / Didsbury / (403) 335-3055      |   |   |   | C   |
| Dalton, Dennis / Wainwright / (780) 842-2361                     |   |   |   | C   |
| Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036         |   |   |   | R C |
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| Lindholm, Craig, Stevan, Dane & L. / New Norway / (780) 352-3240 |   |   |   | C   |
| Sim, Darwin & Derek / Ponoka / (780) 372-2111                    |   |   |   | C   |
| Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358      |   |   |   | R C |
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| Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253         |   |   | F | R C |
| Wood, Robert, Patricia & Marshall / Bowden / (403) 224-3928      | S | F |   | R   |
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| Corns, Bryan & Gary / Grassy Lake / (403) 655-2464               |   |   |   | C   |
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| Kopjar, Gerald M. / Rowley / (403) 368-2409                      |   |   |   | R   |
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| Senzdiak, Don P & Stephen / Edmonton / (780) 434-1322            |   | S |   | R   |
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| Murray, Bruce / Lethbridge / (403) 327-9389                 | S |  |  |   |
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| <b>4S417</b>  |   |   |  |   |     |
| <b>BI: Dairyland Seed, Dist: N/A</b>                              |   |   |  |   |     |
| Dairyland Seed Co. / Homedale / (208) 772-2465                    |   |   |  | C |     |
| <b>54Q32</b>  |   |   |  |   |     |
| <b>BI: Pioneer Hi-Bred, Dist: Pioneer Hi-Bred</b>                 |   |   |  |   |     |
| Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135  |   |   |  |   | C   |
| <b>55V12</b>  |   |   |  |   |     |
| <b>BI: N/A, Dist: Pioneer Hi-Bred</b>                             |   |   |  |   |     |
| Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135  |   |   |  |   | C   |
| <b>55V48</b>  |   |   |  |   |     |
| <b>BI: Pioneer Hi-Bred, Dist: Pioneer Hi-Bred</b>                 |   |   |  |   |     |
| Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135  |   |   |  |   | C   |
| <b>ABLE</b>   |   |   |  |   |     |
| <b>BI: N/A, Dist: Pickseed Canada Inc.</b>                        |   |   |  |   |     |
| Pickseed Canada Inc. / Winnipeg / (204) 633-0088                  |   |   |  |   | C   |
| <b>AC GRAZELAND BR</b>  |   |   |  |   |     |
| <b>BI: AAFC (Saskatoon), Dist: Pickseed Canada Inc.</b>           |   |   |  |   |     |
| Pickseed Canada Inc. / Winnipeg / (204) 633-0088                  |   |   |  |   | C   |
| <b>ACTIS</b>  |   |   |  |   |     |
| <b>BI: N/A Dist: La Co-op Federee</b>                             |   |   |  |   |     |
| BrettYoung / St. Norbert / (204) 261-7932                         |   |   |  |   | C   |
| <b>AKORI</b>  |   |   |  |   |     |
| <b>BI: N/A, Dist: Pickseed Canada Inc.</b>                        |   |   |  |   |     |
| Pickseed Canada Inc. / Winnipeg / (204) 633-0088                  |   |   |  |   | C   |
| <b>DALTON</b>   |   |   |  |   |     |
| <b>BI: AAFC, Dist: N/A</b>  |   |   |  |   |     |
| Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653          |   |   |  |   | F C |
| <b>EQUINOX</b>  |   |   |  |   |     |
| <b>BI: Forage Genetics Int., Dist: Viterra</b>                    |   |   |  |   |     |
| Forage Genetics International / Nampa / (208) 466-3568            |   |   |  |   | F C |
| Gold Medal Seeds Limited / Brooks / (403) 362-3444                |   |   |  |   | C   |
| Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653          |   |   |  |   | C   |
| Viterra / Regina / (306) 569-5027                                 |   |   |  |   | C   |
| <b>FORCE</b>  |   |   |  |   |     |
| <b>BI: N/A, Dist: Northstar Seed Ltd.</b>                         |   |   |  |   |     |
| Northstar Seed Ltd. / Neepawa / (204) 476-5241                    |   |   |  |   | C   |
| <b>GENEVA</b>   |   |   |  |   |     |
| <b>BI: Novartis, Dist: Viterra</b>                                |   |   |  |   |     |
| Pickseed Canada Inc. / Winnipeg / (204) 633-0088                  |   |   |  |   | F C |
| <b>GENOA</b>  |   |   |  |   |     |
| <b>BI: Forage Genetics Int., Dist: Pickseed Canada Inc.</b>       |   |   |  |   |     |
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**HALO**

**BI: N/A, Dist: Viterra**  
Forage Genetics International / Nampa / (208) 466-3568

**HAYGRAZER**

**BI: Great Plains Research Co., Dist: Northstar Seed Ltd.**  
Northstar Seed Ltd. / Neepawa / (204) 476-5241

**LEADER**

**BI: N/A, Dist: Pickseed Canada Inc.**  
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**LEGENDAIRY 5.0**

**BI: N/A, Dist: Agronomy Company of Canada**  
Forage Genetics International / Nampa / (208) 466-3568  
Gold Medal Seeds Limited / Brooks / (403) 362-3444

**LEXUS**

**BI: N/A, Dist: Quality Seeds Ltd.**  
Northstar Seed Ltd. / Neepawa / (204) 476-5241

**MAGNUM VI WET**

**BI: Dairyland Research Intl. (Clinton), Dist: Seed-Link Inc.**  
Dairyland Seed Co. / Homedale / (208) 772-2465  
Petersen, Donald / Tilley / (403) 377-2367

**MARVEL**

**BI: N/A, Dist: Quality Seeds Ltd.**  
Forage Genetics International / Nampa / (208) 466-3568

**MASKA**

**BI: AAFC, Dist: N/A**  
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Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653

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**MULTIPLIER 3**

**BI: N/A, Dist: Northstar Seed Ltd.**  
Northstar Seed Ltd. / Neepawa / (204) 476-5241

**PERFECT**

**BI: N/A, Dist: Pickseed Canada Inc.**  
Pickseed Canada Inc. / Winnipeg / (204) 633-0088

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**BI: Pickseed, Dist: Pickseed Canada Inc.**  
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**BI: Pickseed, Dist: Pickseed Canada Inc.**  
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**BI: N/A, Dist: Hyland Seeds**  
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**BI: Cal/West Seeds, Dist: Northstar Seed Ltd.**  
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**BI: N/A, Dist: Northstar Seed Ltd.**  
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**SPREDOR 4**

**BI: Forage Genetics Int., Dist: Viterra**  
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| <b>BI: Pickseed, Dist: Pickseed Canada Inc.</b>          |   |          |          |            |
| Pickseed Canada Inc. / Winnipeg / (204) 633-0088         | C |          |          |            |
| <b>STEALTH SF</b>  |   |          |          |            |
| <b>BI: N/A, Dist: Quality Seeds Ltd.</b>                 |   |          |          |            |
| Northstar Seed Ltd. / Neepawa / (204) 476-5241           | C |          |          |            |
| <b>SUPER NOVA</b>  |   |          |          |            |
| <b>BI: Pickseed, Dist: Pickseed Canada Inc.</b>          |   |          |          |            |
| Pickseed Canada Inc. / Winnipeg / (204) 633-0088         | C |          |          |            |
| <b>SURVIVOR</b>  |   |          |          |            |
| <b>BI: N/A, Dist: Seed-Link Inc.</b>                     |   |          |          |            |
| BrettYoung / St. Norbert / (204) 261-7932                | C |          |          |            |
| <b>TOPHAND</b>   |   |          |          |            |
| <b>BI: N/A, Dist: Quality Seeds Ltd.</b>                 |   |          |          |            |
| Northstar Seed Ltd. / Neepawa / (204) 476-5241           | C |          |          |            |
| <b>VISION</b>  |   |          |          |            |
| <b>BI: N/A, Dist: Pickseed Canada Inc.</b>               |   |          |          |            |
| Kolk, John / Iron Springs / (403) 738-4596               | C |          |          |            |
| Pickseed Canada Inc. / Winnipeg / (204) 633-0088         | C |          |          |            |
| <b>VR TOTAL</b>  |   |          |          |            |
| <b>BI: N/A, Dist: Viterra</b>                            |   |          |          |            |
| Gold Medal Seeds Limited / Brooks / (403) 362-3444       | C |          |          |            |
| <b>WL 319HQ</b>  |   |          |          |            |
| <b>BI: N/A, Dist: N/A</b>                                |   |          |          |            |
| Forage Genetics International / Nampa / (208) 466-3568   | C |          |          |            |
| <b>WL 348AP</b>  |   |          |          |            |
| <b>BI: N/A, Dist: N/A</b>                                |   |          |          |            |
| Forage Genetics International / Nampa / (208) 466-3568   | C |          |          |            |
| <b>WL 357HQ</b>  |   |          |          |            |
| <b>BI: N/A, Dist: Growmark Inc.</b>                      |   |          |          |            |
| Forage Genetics International / Nampa / (208) 466-3568   | C |          |          |            |
| Gold Medal Seeds Limited / Brooks / (403) 362-3444       | C |          |          |            |
| <b>WL327</b>   |   |          |          |            |
| <b>BI: N/A, Dist: Quality Seeds Ltd.</b>                 |   |          |          |            |
| Forage Genetics International / Nampa / (208) 466-3568   | C |          |          |            |
| <b>WL343HQ</b>   |   |          |          |            |
| <b>BI: N/A, Dist: Growmark Inc.</b>                      |   |          |          |            |
| Forage Genetics International / Nampa / (208) 466-3568   | C |          |          |            |
| <b>WL353LH</b>   |   |          |          |            |
| <b>BI: N/A, Dist: Growmark Inc.</b>                      |   |          |          |            |
| Forage Genetics International / Nampa / (208) 466-3568   | C |          |          |            |
| Gold Medal Seeds Limited / Brooks / (403) 362-3444       | C |          |          |            |
| <b>BROMEGRASS</b>  |   | <b>S</b> | <b>F</b> | <b>R C</b> |
| <b>AC KNOWLES</b>  |   |          |          |            |
| <b>BI: AAFC (Saskatoon), Dist: Viterra</b>               |   |          |          |            |
| Kerschbaumer, John A. / Fairview / (780) 835-4508        | C |          |          |            |
| Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653 | C |          |          |            |
| <b>AC ROCKET</b>   |   |          |          |            |
| <b>BI: AAFC (Sainte-Foy), Dist: Viterra</b>              |   |          |          |            |
| Noble, Robert / Manning / (780) 836-2337                 | C |          |          |            |
| Viterra / Regina / (306) 569-5027                        | C |          |          |            |
| <b>CARLTON</b>   |   |          |          |            |
| <b>BI: AAFC (Saskatoon), Dist: Public</b>                |   |          |          |            |
| BrettYoung / St. Norbert / (204) 261-7927                | C |          |          |            |
| Dynamic Seeds Ltd. / Fairview / (780) 835-5435           | C |          |          |            |
| Froese, Cornelius H. / La Crete / (780) 927-4645         | C |          |          |            |
| Kerschbaumer, John A. / Fairview / (780) 835-4508        | C |          |          |            |
| Lay, Dennis M. / Beaverlodge / (780) 354-8357            | C |          |          |            |
| Mittelstadt, Mark Andrew / Fairview / (780) 835-3239     | C |          |          |            |
| Noble, Robert / Manning / (780) 836-2337                 | C |          |          |            |
| Sallis, Gary / Manning / (780) 836-2381                  | C |          |          |            |
| Shaw, Theron Harry / Fairview / (780) 835-0826           | C |          |          |            |
| <b>FLEET</b>   |   |          |          |            |
| <b>BI: AAFC (Saskatoon), Dist: SeCan Members</b>         |   |          |          |            |
| BrettYoung / St. Norbert / (204) 261-7932                | C |          |          |            |
| Card, Gordon B. / Magrath / (403) 758-3444               | C |          |          |            |
| Froese, Cornelius H. / La Crete / (780) 927-4645         | C |          |          |            |
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| Hostettler, Fritz / Bluesky / (780) 835-4761             | C |          |          |            |
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**MONTANA**

**BI: Montana State University, Dist: Viterra**

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C

**CANARY GRASS**

S F R C

**CDC TOGO**

**BI: CDC, Dist: Canterra Seeds**

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F

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S F R C

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**BI: ARC, Dist: N/A**

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C

**VELDT**

**BI: AAFC (Lethbridge), Dist: Viterra**

Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653

C

**CLOVER**

S F R C

**AURORA**

**BI: AAFC (Beaverlodge), Dist: BrettYoung**

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Moore Seed Processors Inc. / Debolt / (780) 957-3964

F

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C

C

**FESCUE**

S F R C

**ARC BUTTE**

**BI: ARC, Dist: N/A**

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C

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C

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C

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S F R C

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C

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S F R C

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### Marwayne

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www.parrishandheimbecker.com / (71)



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## SEED CLEANING PLANTS AND TREATING SERVICES IN YOUR COMMUNITY.

The Association of Alberta Co-op Seed Cleaning Plants is a group of locally operated co-operatives that offer valuable cleaning services for communities throughout Alberta and British Columbia. They were established through the joint efforts of the Province of Alberta and local municipal governments.

Farmers can get seed cleaned and treated at facilities across the province. Additional services available at several facilities include pulse processing, value processing, pedigreed seed processing, specialty processing, and seed inoculating, as well as seed and chemical sales.



### Location / ad page #

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**Stony Plain** Stony Plain Seed Cleaning Association Ltd. /  
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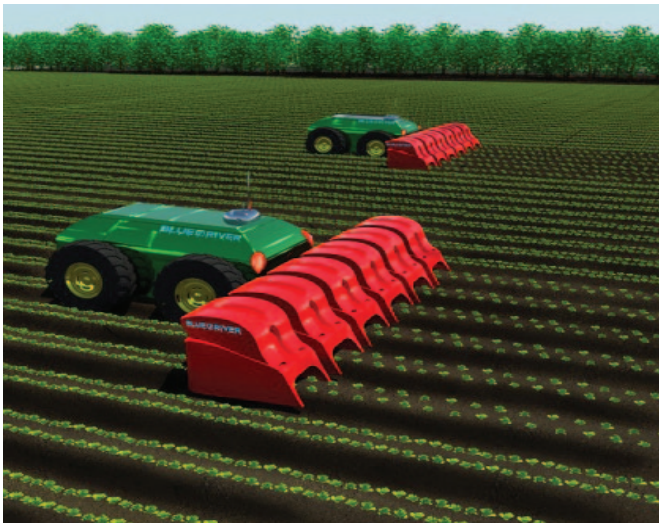
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**Westlock** Westlock Seed Cleaning Co-op Ltd. /  
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www.westlockseed.ca / (73)

**Wetaskiwin** Wetaskiwin Seed & Grain Co-operative Ltd. /  
877.352.6212 / seedclean@incenre.net /  
www.seed.ab.ca/plants/Wetaskiwin / (88)





### Robotic Weeding

Blue River Technology, a pioneer in robotics and computer technology, is testing prototypes of its “Lettuce-Bot,” an autonomous weed-seeking robot. The robot is designed to move up and down rows, identifying weeds using a combination of algorithms, and killing them one by one with a targeted injection of fertilizer. Celebrated as a possible future alternative to the use of herbicides, the Bot has potential for application on organic and chemical-free farms or large-scale operations, where efficiency is the watchword. The rolling weed-seeker uses computer vision technology to first identify plants and then to decide which plants in the row are lettuce and which are weeds—even when the plants’ leaves are overlapping. “Our culture fosters extreme innovation aimed at real-world problems,” said Jorge Heraud, co-founder and CEO of Blue River Technology, in a press release.

### Remote-Controlled Irrigation

India-based company Ossian Agro Automation has created a new remote-controlled GSM technology called Nano Ganesh, which allows the user to remotely turn irrigation pumps on and off from any distance, using either mobile phones or landlines. The farmer can also check on the availability of power supply at the pump, and with some models can even receive notification if the cable or pump is tampered with. How it works? A Nano Ganesh instrument is first connected to the farmer’s system; to access it the farmer dials a number dedicated to the Nano Ganesh set and simply punches in a code. A benefit is the farmer doesn’t have to purchase a new pumping set—the technology can be connected to existing electrical starters and motor pumps.



### Portable Bio-Sensing

A multidisciplinary team of researchers and scientists at the National Centre for Scientific Research in Athens, Greece, is developing FOODsniffer, a patented biosensor designed to detect infections, pesticide residues or toxins in agricultural crops. The system is also currently being tested for the detection of mycotoxins in grains. The tool is portable and easy to use, and results from the analysis are transmitted in real time to a cloud-based service. Information gleaned from the in-field analysis can be used either to address crop infections or to monitor pesticide residue prior to harvest.

### Z-Trapping

Spenza Technologies is testing prototypes of its “Z-Traps,” unique automated units capable of monitoring insect populations in real time. Growers deploy several Z-traps in the field. Each trap monitors the number of insects it captures, and then the information from all traps is wirelessly transmitted to a base location. The aggregated information can then be accessed by growers via the Internet or smartphone. “Frequent and reliable monitoring of pest populations is one of the most fundamental components of IPM,” states the company’s website. “Spenza Z-Traps offer a novel and cost-effective IPM solution by automating the critical but labour-intensive task of monitoring insect populations.”





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