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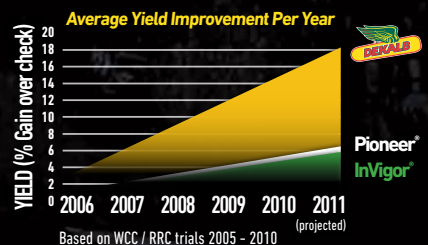
**2011
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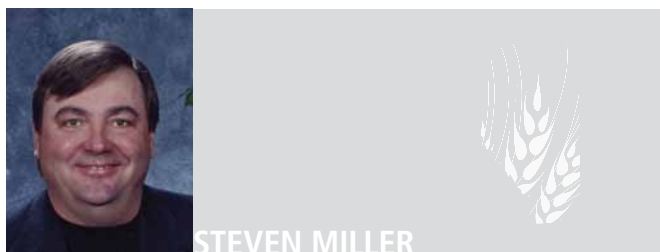
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STEVEN MILLER



RYAN MERCER

WELCOME to the spring 2012 edition of **seed.ab.ca**.

I don't know about you, but I am always amazed at how fast this time of year passes by. It seems like only yesterday that we put the combine away for the season, and already we are in the middle of preparations for the upcoming growing season. And of course each new year comes with its own set of challenges—and a new set of opportunities.

The theme for this issue of **seed.ab.ca** is Starting Smart. We have tried to provide you with some tools and tips to help make this year's crop better than ever. This year's RVT trial data contains more information than ever before, with the inclusion of data from field-scale trials which were conducted by various seed companies to provide depth to the assessment of consistency in variety performance. I think you will find the article on plant breeding to be quite interesting.

If we, as western Canadian farmers, are to regain our competitive edge in grain production, we will need new varieties of all cereal grains to meet the demands of increased production. Hopefully you will find the information from the Maltster's roundtable discussion useful in helping to decide what malt varieties to grow. The story on seed-applied nutrients highlights a new way to tackle an old problem: how to feed our crops in the most efficient manner. And of course the story on protecting pollinators reminds us of how important it is to protect our environment.

I hope that you enjoy this issue and find value in the information it contains. We are always looking for any feedback or story ideas that you would like to see in upcoming issues.

Have a great year.

Steven Miller, President

Association of Alberta Co-op Seed Cleaning Plants
Email: stevenmiller@mcsnet.ca

HERE it is! The long-awaited spring edition of **seed.ab.ca**. As you know, the magazine and website will prove to be a valuable tool in assisting you as a farm manager to make key decisions on your operation throughout the planning and growing seasons. These decisions, from choosing the best seed variety to marketing the harvested production, will greatly affect the profitability of your business. Once again, we have an excellent lineup of contributors who are experts in their specific area of this exciting industry.

Much laboratory and field research has been conducted this past season throughout Western Canada. Our public and private plant breeders are amongst the best in the world, as they continually seek to make agronomic and end use quality improvements in cereal, oilseed, pulse and forage crops. A good portion of your certified seed purchase goes back to these scientists, enabling them to continue in their valuable endeavors. Once these varieties have been registered, head-to-head trials are conducted throughout the Prairies and published in **seed.ab.ca** every year. Read and evaluate these results carefully, then call your local seed grower, who has often been growing these varieties from breeder seed for two or three years already.

As grain marketing in Western Canada changes, it will be more important than ever to diligently research what end-users are looking for. Make cropping and varietal decisions based on overall net returns per unit, while still meeting your cash flow requirements throughout the year. To compete globally, we must take advantage of our specific climatic conditions and quality control systems here in Canada, rather than focusing on producing higher volumes and competing strictly on price. Develop relationships with suppliers, agronomists and marketers as you plan a crop sequence that will provide the greatest long-term benefits to your farm business.

I wish each and every one of you much success this coming season! These are indeed very exciting times to be part of the global agriculture industry!

Ryan Mercer, President

Alberta Seed Growers' Association
Email: rmerc@mercarseeds.ca

Seed Industry Partners





MINISTER BERGER

IT is a pleasure to bring greetings to the readers of **seed.ab.ca** and to the many Albertans involved in the grain and oilseed sector.

You play a valuable role in Alberta’s agriculture industry, and we are grateful for your hard work and dedication to the province’s second-largest industry. This year, the world’s population reached 7 billion, which is an astounding number. Canada is fortunate that we have more than enough food to feed our nation, and that Alberta may be called upon in the next 10 to 15 years to help feed the world’s population.

This is just one of the reasons why I am so optimistic about the future of agriculture in Alberta. In addition to becoming the preferred supplier of agricultural products to feed a growing population, we are also seeing higher prices for crops. I am hopeful that these prices are a benchmark and we are just seeing the tip of the iceberg.

The positive relationship that my department has with the seed industry is important as we step to the forefront of the world stage. We continue to be committed to investing in crop improvement programs and to developing new crop varieties with the help of our industry and research partners, which is vital to ensure Alberta’s competitiveness.

While we need to be mindful of some of the economic challenges in other areas of the world, I firmly believe that 2012 will be another strong year for Alberta’s agriculture industry. We look forward to continuing to work with Alberta’s seed growers, and we encourage you to use this valuable guide to help you with planting decisions for the coming growing season.

I wish all producers in Alberta a productive and prosperous growing season in 2012.

Evan Berger
Minister of Alberta Agriculture and Rural Development



SHAWN BROOK

AS you prepare for the upcoming growing season, and pour over the variety information in this issue of **seed.ab.ca**, you may also reach out to others in the industry to collect information on the latest varieties. With the evolution of social media, and the invention of the smartphone, our ability to be productive now literally has no bounds.

With this, the term “socializing” has taken on new meaning as more farmers, growers and agriculture professionals join the social networking craze by hopping onto Facebook and Twitter to communicate with their peers. Social media is about building relationships fast. The importance of relationships is not lost—nothing will ever replace face-to-face contact—but social media is an easy way to communicate and interact with people so you can spend less time garnering those relationships.

If you’re looking to jump on this trend, establish a goal for how you want to use social media. Become familiar with the tools first and then develop

a strategy. Start small and start simple. Describe what’s going on at your farm—this is a great way to connect with your peers, share success stories, struggles and offer advice on how to overcome challenges. Post photos of your farm as well as events you’ve attended. Post updates from industry meetings you are at, while you are there. Post market information, relevant news and articles to create reader interest and engagement.

In other words, share your business message with family, friends and colleagues; recommend and comment on stories relevant to your farm; discuss topics around specific issues the industry is facing; share photos and video—the possibilities, really, are endless. For those of you who are gunshy: start out as an observer. Sign up and check out other pages created by growers. And then join the conversation when you are ready.

Shawn Brook, Publisher
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ALBERTA'S SEED GUIDE

Spring 2012

Seed Industry Partners



ASSOCIATION OF
ALBERTA CO-OP
SEED CLEANING PLANTS



ALBERTA
SEED GROWERS'
ASSOCIATION

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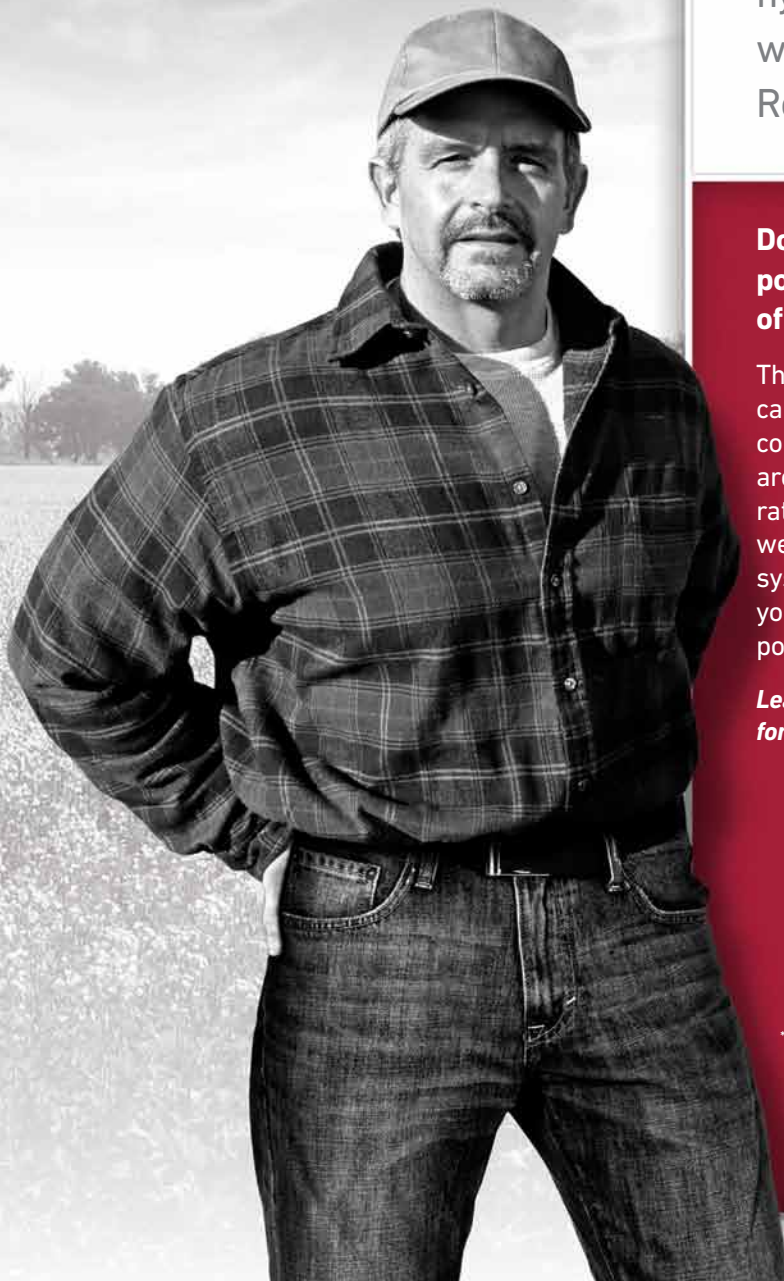
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MYTH

To grow the highest yielding canola, I have to put up with cleavers and perennial weeds.



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*Source: 2011 Monsanto FACT™ trials. Genuity Roundup Ready represented by 73-75 RR; InVigor® by L150.

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*Source 1996-2010 WCC/RRC Trials.

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BOOSTING SEED'S NATURAL PROPERTIES

North American companies are developing, testing and marketing new seed-applied technologies to improve the performance of this valuable investment.

AS new traits and technologies are introduced, the value of seed is increasing, and farmers are looking for ways to protect that valuable investment. A variety of products, applied directly to the seed and designed to improve seed's growth and deliver valuable nutrients and inoculants needed at sowing, are hitting the Canadian marketplace. These products have one goal in mind—to help your seed reach its true yield potential.

Through the application of nutrients to the seed directly, these products help young seedlings grow before they are big enough to feed themselves. And getting the crop off to a good, healthy start is critical to its long-term performance and yield potential.

Getting Off to a Good Start

Giving seed a head start is the thinking behind Wolf Trax Inc.'s ProtinusSeed Nutrition product. A patented seed-applied fertilizer, Protinus provides plants with small amounts of nutrients right after they germinate, before they are mature enough to access soil nutrients on their own.

"By improving early plant nutrition, growers see the benefit in crop establishment, early-season growth and the ability to withstanding challenging growing conditions. This all adds up to better yield potential," says Jennifer Bailes, Wolf Trax's director of seed products and innovations, in Winnipeg, Man.

In addition to speeding up emergence by one to two days, treating seed with Protinus results in seedlings that are 15 per cent larger, with roots up to 20 per cent more developed. Protinus field trials have shown positive results for corn, soybeans, canola, cotton, cereals, forages, grasses and vegetable crops, says Bailes.

Why Inoculate?

While they aren't technically seed-applied nutrients, inoculants help plants increase their uptake of valuable nutrients from the soil, so they often fall into this category. Novozymes has been offering its JumpStart product for many years in Canada. A phosphate inoculant that grows along the root, making more soil and fertilizer phosphate available to the plant, JumpStart promises healthier crops and higher net returns and is available in Canada for canola, wheat and legume crops.

A second, more recent product released by Novozymes is called TagTeam which combines rhizobia strains with *Penicillium bilaii*, the active ingredient in JumpStart, for improved phosphate efficiency.



Protinus by Wolf Trax provides plants with small amounts of nutrients to use right after germination. Right side treated.

TagTeam is available in granular, peat and liquid formulations for use on peas, lentils, chickpeas, soybeans and dry beans.

Speeding Up Plant Growth

Products that stimulate plant growth by tapping into the plant's nutritional capabilities are also becoming increasingly popular. While products such as BrettYoung's BioBoost are foliar applications, there are also a few that are applied directly to the seed.

Novozymes has developed a unique seed-applied product called Optimize with LCO Promoter Technology. According to the company, the product, which comes in a liquid formulation for soybeans, enhances nutritional capabilities that drive natural growth processes—essentially enabling your soybean crop to achieve its full genetic potential by maximizing crop performance all season long.

Optimize contains Novozymes' patented LCO (lipochitooligosaccharide) Promoter Technology, a unique molecule that enhances a plant's nutritional capabilities, which drives the natural growth processes immediately and independently of growing conditions.

Key benefits received from enhanced nutritional capabilities include:

- Enhanced root system for improved nutrient and water uptake;
- Earlier and increased nodule development for improved nitrogen fixation;
- Improved vigour, stand and emergence produces healthier, faster-developing plants;
- Faster canopy closure reduces weed pressure and conserves soil moisture; and
- Increased flexibility with a 30-day planting window after application.

Meanwhile, XiteBio Technologies Inc., based in Manitoba, is developing innovative and value-added biological products with plant growth regulators. "At XiteBio, we are inspired by nature and create products that enhance the natural properties of plants and soils. That's why we are proud to bring Advanced Growth Promoting Technology with rhizobia for legumes that are second to none," says Manas Banerjee, CEO of XiteBio Technologies. The company believes it has set the stage for more profitable legume production in North America.

Banerjee says the company's Advanced Growth Promoting Technology, or AGPT, not only introduces optimum numbers of rhizobia into the soil, but also invigorates the natural soil microflora, including the native rhizobia, and creates synergy between them. Different soil types support different microflora, many of which are beneficial to crops. The native microbes living in the soil, such as bacteria, fungi and algae, are stimulated by AGPT, and these organisms can then confer their beneficial impact upon the crop. According to Banerjee, this is what makes AGPT a revolutionary technology—it creates synergy between a rhizobial inoculant and the invigorated native microflora.

"Inoculants with AGPT provide all the advantages of traditional rhizobia plus the benefits of the numerous beneficial organisms that may already be present in the soil," explains Banerjee. The AGPT inoculant enhances the microbial activity, resulting in improved soil health and ensuring that crops are healthier, more vigorous and higher-yielding.

The company has developed SoyRhizo and PeasRhizo, two newly formulated rhizobium-based products with AGPT targeted for the U.S. and Canadian markets. According to the company, these innovative products allow high survivability of introduced bacteria across various environmental constraints, thereby ensuring higher yields and greater productivity. They are currently available in the United States, and promising field trial

results have been obtained from Canada. XiteBio Technologies will be releasing these eco-friendly products in Canada once they are registered by the Canadian Food Inspection Agency. XiteBio is also working on AGPT inoculants for use on corn, canola, wheat, barley, alfalfa, flax, sugar beet and vegetables, and these will soon be commercially available.

Seed industry technology will continue to evolve to solve problems growers are facing. Seed-applied nutrients and plant growth regulators are some of the recent developments that North American farmers can use to increase their bottom lines.

julie.mcnaab

WHERE ON THE WEB

For more information on these technologies visit:

Wolf Trax—Protinus Seed Nutrition
WOLFTRAX.COM/PROTINUS

Novozymes—JumpStart, TagTeam, Optimize
BIOAG.NOVOZYMES.COM/EN/PRODUCTS/CANADA/BIOFERTILITY

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Habibur Rahman

Country of Origin: Bangladesh
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 University of Alberta
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Patricia Juskiw

Country of Origin: Canada
 Title/Organization: Barley Breeder, Field Crop
 Development Centre
 Specialty: Barley Breeding and Research

HABIBUR Rahman’s interest in plant genetics and breeding began in a college-level course on botany, but it was while completing a bachelor’s degree in agricultural science and then a master’s degree in plant genetics and breeding at the University of Bangladesh that he became determined to make it a lifelong pursuit. After his master’s, Rahman received a scholarship from the Danish government to pursue a PhD in plant breeding at the Royal Veterinary and Agricultural University (now Copenhagen University) in Denmark, following which he worked for the Danish seed company Danisco as a canola/rapeseed breeder for 15 years.

In October 2003, Rahman moved to Canada to work for the University of Alberta. His research focuses on broadening the genetic diversity in the canola gene pool, developing canola germplasm with clubroot and blackleg resistance through the introgression of genes from other Brassica species, and integrating molecular breeding with conventional plant breeding. He also maintains a research project on the modification of fatty acid in oil, which aims to improve canola oil quality.

Conscious of the impact his work has on growers in Alberta and the rest of Western Canada, Rahman looks for solutions to local problems. One achievement Rahman notes with special interest occurred during his work increasing the allelic diversity of canola—recently, he introduced a gene from other Brassica species into canola which allows the canola to flower early. “This is an example of the benefits of introducing allelic diversity from exotic gene pools in order to improve agronomic traits and yield, and in turn making the canola crop more resistant to diseases,” says Rahman.

“The university is a public institution with research dollars—I try to use these research dollars for the benefit of the community, the canola growers,” he says. “When I achieve something like this, it brings me a lot of pleasure.”

IT was a class of celebrated forage researcher Anna Storgaard at the University of Manitoba that first tweaked Patricia Juskiw’s interest in plant breeding. “There weren’t a lot of women in the industry then,” says Juskiw. “She inspired a lot of female students.” Juskiw completed a bachelor’s degree in agriculture and a master’s in plant breeding at the University of Manitoba, before heading to the University of Guelph for her PhD, where she worked on yield components in wheat.

After completing her degrees, Juskiw worked for two years with Agriculture and Agri-Food Canada as a biologist, studying stem rust resistance in wheat and barley. In the 1990s, she became a plant breeder with the Field Crop Development Centre in Lacombe. There, her team works with two-row, feed and malting barley, six-row and hull-less barley and triticale. “A lot of our research is focused on grain yield and disease resistance,” says Juskiw. “It’s also focused on biomass and quality for forage, and feed efficiency through improved digestible energy content in hull-less and hulled barley.”

Her work with malting barley is of special interest to Alberta growers, says Juskiw. “If we can make malting barley less risky, more likely to meet quality requirements, then we’re adding value.” The research that interests her most is improving in vitro fibre digestibility in hulled barley by studying how to capture that quality in different varieties. “It’s kind of exciting,” she says.

“Looking into genomics has given us the tool to sort of pull things apart on a much finer level and [see how that] feeds back into the whole loop of things,” says Juskiw. “You have to see how things work in the field and then get them back into the lab. It’s not quite Star Trek yet, but we’re getting there.”

A Career in Seeds

“The seed industry has a wide range of careers that are very rewarding. I urge you to arm yourself with the nature of science principles that guide the scientific side of the seed industry. Tomorrow, you will be called upon to make decisions, as leaders, that have a direct bearing on the issues that society confronts today.” – Francis Kirigwi, Research Scientist/Wheat Breeder, Syngenta Seeds Canada [To learn more about a career in seeds visit www.cdnseed.org](http://www.cdnseed.org)



Surya N. Acharya

Country of Origin: India
Title/Organization: Research Scientist and Forage Breeder, Agriculture and Agri-Food Canada
Specialty: Forage Breeding and Research

SURYA Acharya's research focuses have been diverse: he began his studies at Orissa University of Agriculture and Technology in India, completing a bachelor's degree in agriculture and a master's in agriculture and botany, during which he focused on biometrical studies of rice. He came to Canada to complete his PhD at the University of Saskatchewan, where he switched his focus to barley.

Since then, Acharya's research has mostly focused on alfalfa. Presently, his research involves producing alfalfa varieties with tolerance to abiotic stresses such as saline and acidic soil conditions. This year, he released the very first salt-tolerant alfalfa variety, called AC Bridgeview, and he hopes to release an acid-tolerant alfalfa next year. For Alberta cattle producers, he is also working on breeding a new forage fenugreek variety, as well as a variety of the forage crop sainfoin which can be mixed

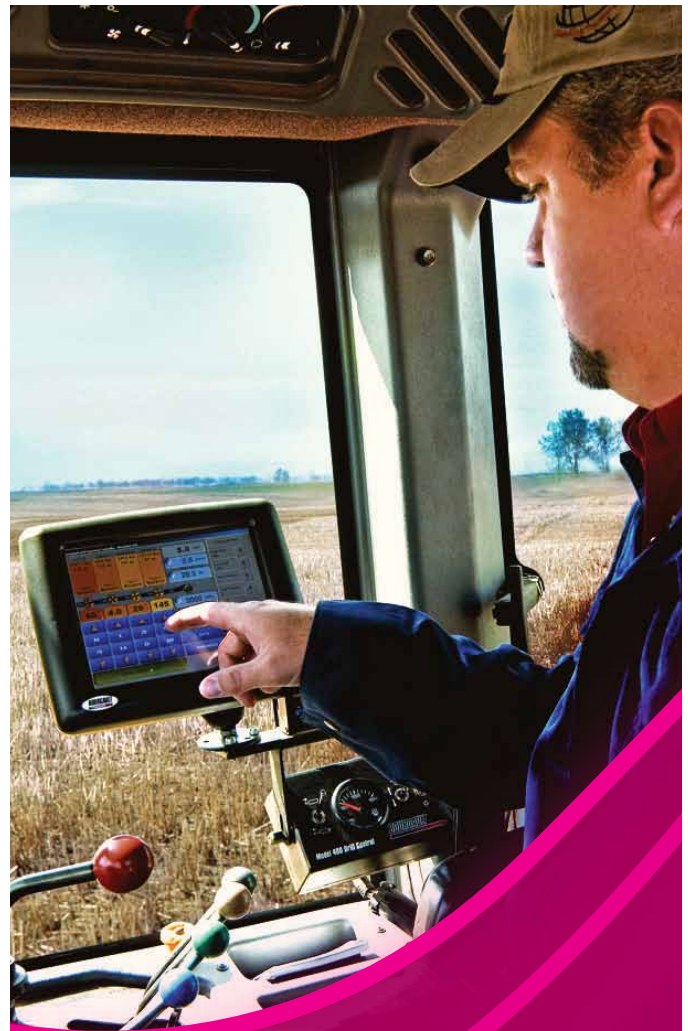
“Forage research is not considered very sexy.”

—Surya N. Acharya

with alfalfa, withstand grazing pressure and prevent ruminant animal bloat.

Because of its weaknesses, sainfoin has never been a popular forage in Western Canada, says Acharya, but test trials of his new sainfoin variety have already shown positive results. He has good funding from the Alberta Livestock and Meat Agency, the Beef Science Cluster program and the Saskatchewan Agricultural Development Fund for the sainfoin project, and a strong partnership with Tim McAllister in Lethbridge and Alan Iwaasa in Swift Current.

“Forage research is not considered very sexy,” laughs Acharya. “[But] I’m really passionate about the sainfoin and cicer milkvetch, as they are bloat-free forage legumes—nobody else is working on them.” He is certain Alberta producers will benefit from his work. “All my selections are from around the Lethbridge area—Alberta producers will benefit first from these cultivars,” he says.



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Ron DePauw

Country of Origin: Canada
Title/Organization: Senior Principal Research Scientist, Agriculture Canada's Semi-arid Prairie Agricultural Research Centre
Specialty: Wheat Breeding and Research

RON DePauw was raised on a farm in Manitoba, but it wasn't until his master's of science at the University of Manitoba that his interest in plant breeding and genetics took off. After his master's, DePauw was hired by the University of Manitoba as part of a team breeding rust-resistant wheat in Kenya for the Canadian International Development Agency—invaluable work that he carried on with to develop during his PhD.

In his work for the SPARC, DePauw has bred many wheat varieties in common use, including AC Barrie, the most widely grown CWRS wheat from 1998 to 2005 and AC Lillian—most widely grown variety from 2007 to 2010. In the hard red spring wheat category, DePauw has also created a variety resistant to pests such as the orange wheat blossom midge, especially valuable for central Alberta. "We've developed a variety called AC Goodeve VB—hard red spring wheat which has a gene that confers tolerance to the orange wheat blossom midge," he says.

Additionally, DePauw has worked on the CWRS-eligible grade Stettler variety, which "has an exciting level of increased yield, high protein content and stronger semi-dwarf stature," as well as Much More and Carberry, which have higher yield and protein, and resistance to diseases such as yellow rust. His team is also

responsible for the AC Foremost, Taber and Crystal varieties in the Canadian Prairie spring red market class.

DePauw has received the Order of Canada as well as the 2011 Gold Medal from the Professional Institute of the Public Service of Canada for his work in plant breeding. After this long list of successes, DePauw's excitement for plant breeding remains unabated. "I enjoy learning, and every day is exciting because I learn something new. And there are more base pairs in the genetic make-up of wheat than in the human species," he says.

"There are incredible levels of complexity to sort out in the genetics of wheat—how it responds to the various diseases and insects, and how you can adapt it to fit the different agro-ecological conditions across Western Canada and build in the quality traits to make safe and nutritious food for people. That's what turns my crank."



Janice Cuthbert

Country of Origin: Canada
Title/Organization: Canola Breeder, DL Seeds
Specialty: Canola Breeding and Research

IN her own words, Cuthbert is a "city girl, born and raised," but she knew very early that she would pursue a career in plant science. Following high school and throughout her undergraduate degree, she worked for the University of Manitoba's canola breeding program as a research assistant, which prompted her to pursue a master's in canola breeding at the U of M. Following her master's degree, Cuthbert did some work for Novartis Crop Protection (now Syngenta) before returning to the U of M to pursue her PhD.

A canola breeder for DL Seeds, Cuthbert now works mainly on breeding canola hybrids for western Canadian producers. "We develop hybrids with superior yields, very good agronomics and disease resistance packages. We are also looking for hybrids that stand well in the field," she says. "We are developing what the Alberta producer wants to grow—a profitable hybrid."

DL Seeds produces canola alone, which means that Cuthbert's research is dedicated to Brassica-specific issues, including disease resistance and yield. Some of the varieties the DL Seeds breeding team have registered in Alberta include 6060RR, 5525CL, 1970, 1990, Fusion and 94H04.

"I think the best part about being a breeder is that you get to work on a number of different projects, but you're also afforded the luxury of spending time outside in the summer," says Cuthbert. "I really enjoy spending time in the field evaluating new hybrids and parental lines as well as working with my colleagues abroad. But being in the field is probably at the top of my list. It really is a lot of fun—I can get lost in the fields for hours."

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ANNUAL CONTRIBUTION OF THE PLANT BREEDING AND RESEARCH SEGMENT TO THE CANADIAN ECONOMY

58%

AGRICULTURAL VARIETIES PROTECTED UNDER PBR IN CANADA DEVELOPED AT PUBLIC INSTITUTIONS

\$4.2 MILLION

ROYALTIES COLLECTED ANNUALLY BY SEED GROWERS THROUGH SALES FROM ONE ORGANIZATION AND REINVESTED IN PUBLIC SECTOR RESEARCH

\$56 MILLION

– PRIVATE SECTOR INVESTMENT IN PLANT BREEDING AND RESEARCH IN 2007

\$106

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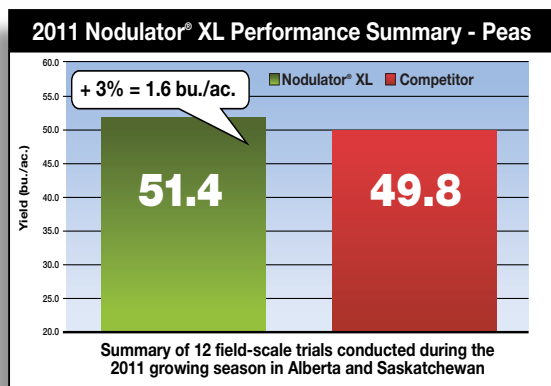
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Busy Bees

Continued work by dedicated researchers is helping to keep the population of Canadian honeybees healthy and thriving into 2012 and beyond.

WITH roughly one in every three bites of food the direct result of pollination, the role of pollinators in the agricultural industry is enormous.

According to Peter Kevan, director of the Canadian Pollination Initiative as well as professor emeritus in Environmental Sciences and supervisor of the Applied Ecology and Anthecology Laboratory at the University of Guelph in Ontario, pollinators play a huge and essential role in our everyday diet. "Much of our food is pollinated ... including feed for dairy, beef and pork—all are part and parcel, from pollination to producing feed for these animals."

The Canadian Pollination Initiative, or CANPOLIN, was introduced in 2009 and is examining the problem of pollinator decline in agriculture and natural ecosystems in Canada.

Kevan adds that while the population of Canada's pollinators has declined over the past few years, these losses are not due to colony collapse disorder. "There is a very well-defined set of symptoms to determine CCD, and none of these symptoms have been found in this country." So what factors are playing a role in pollinator losses around the country?

Alberta Colony Losses

"We have not seen the symptoms of CCD in Canada however we have found one main cause of colony kill," says Medhat Nasr, provincial apiculturist of the Pest Surveillance Branch with Alberta Agriculture and Rural Development. "The *Varroa* mite is common throughout Canada and the world. The mites live off of the honeybee itself and can also transmit viruses which can infect, in some cases, the whole colony."

Control measures are available to fight the *Varroa* mite in the form of miticides; however, according to Nasr, the *Varroa* mites are now developing resistance to these miticides, which have become increasingly ineffective in recent years. [The Canadian industry] looked around for another effective tool to fight against the mites infecting bee populations. We were able to find a new miticide called Apivar, which is from France. This miticide received emergency registration for use for Canada" explained Nasr. "Canadian beekeepers replaced the old supplies of miticides



with the new one from France, and they witnessed an immediate improvement."

In recent years, further Canadian analysis revealed another pest that many researchers were not even aware existed. Called *Nosema ceranae*, this internal parasite lives within honeybees, and causes dehydration, diarrhea-like symptoms, weakness and eventually death. The *Nosema cerrena* parasite, originally discovered in Asia, was transmitted to European bee populations in the mid-1970s, and has since been transmitted world-wide. "This parasite can have a significant impact on the amount of winterkill in bee populations," says Nasr.

In Alberta, winterkill losses between 2007 and 2009 were roughly 30 per cent and in 2010 winterkill loss was only 18 per cent. The long-term average of winterkill is roughly 15 per cent, according to Nasr.

Continued Surveillance

Alberta conducts the Honeybee Pest Surveillance Program, where researchers work side-by-side with beekeepers to ensure bee colony health is not compromised. According to Nasr, this cooperation is helping to keep both researchers and beekeepers aware of any concerns affecting Alberta's pollinator population. "We not only have to look at overall honeybee health but wintering conditions and nutrition are just as important as pest control," he says.

"If the bees are dead, it's too late. We need to be proactive and address these issues before death in the colony occurs."

According to Nasr, 2011 was a good example of how things can go wrong. "Many parts of Alberta witnessed heavy snowfall levels which buried many hives outside and we had extended cold temperatures," he explains. "Then in the spring the melt came

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quickly drowning many hives or bees starved to death, so it's not always pests that can cause hive losses."

The Alberta Honeybee Pest Surveillance Program works across the country with a group of dedicated researchers and specialists who share information in order to keep ahead of any factors that may affect the health of colonies. "We need to share information throughout the country and with beekeepers so that we are using best management practices." Nasr says it's this commitment that will continue to help industry stakeholders advance their knowledge and stay progressive.

Continued research in Canada is essential, according to Kevan and Nasr, for maintaining a healthy and profitable honeybee population. "Funding for our programs is necessary in order to continue our research and improve the survival of bees across the country," says Nasr.

National Bee Diagnostic Services Centre

Construction has begun on Canada's first National Bee Diagnostic Services Centre located at Agriculture and Agri-Food Canada's Beaverlodge Research Farm in Alberta. The new facility, which is expected to be completed this summer, will be owned and operated by the Grand Prairie Regional College in collaboration with AAFC.

Beaverlodge AAFC researcher Steve Pernal says the new centre will not only provide molecular identification of pests and pathogens, but will offer a central hub both regionally and nationally for the continued health of the Canadian bee population. Pernal adds that the centre will also be equipped to screen imports for hybridization with Africanized bees, and offer collaborative research analysis and provide hands-on

teaching opportunities in the near future. "We want to provide, on a national level, a perspective of the Canadian honeybee population on items such as health status, changes by region and to support applied research projects," says Pernal.

Currently, only a few testing services are available to honeybee producers and researchers in Canada—due to lack of infrastructure, most tests are usually conducted out of the country, mainly in the United States. The new facility will be able to handle Canada's testing requirements and offer comprehensive diagnostic services as well as provide up-to-date data for the industry as a whole.

More buzz is being created around this important sector of agriculture, but further attention and funding is still needed to ensure pollinators can continue to produce a viable food supply for a growing population. **shannon.schindle**

Honeybee Statistics

Alberta maintains 40 per cent of the bee population in Canada.

Each year 70,000 to 80,000 hives are used in Alberta's hybrid canola fields for seed production—the highest amount of hives being used anywhere in Canada.

Normally two hives per acre are required for proper pollination; the production of hybrid canola seed, comprising 90 per cent of the acres of varieties grown, would not be possible without honeybees.



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GROWING ALLIES

The malting barley industry is about to get a lot cosier. Three million tonnes less malting barley variety production has that effect, say three industry insiders. Maltsters and brewers partner up with growers to ensure the success of the industry.

OVER the past few years, Canada's barley acres have declined from over 10 million acres to around seven million, following a worldwide long-term trend. A number of factors are responsible for the decline, such as lower demand from the domestic feed industry, the ability of growers to produce other crops as a result of the development of new varieties more suited to northern climates (e.g. canola and soybeans), competition from other cereal crops in the rotation and, in some areas, fusarium head blight infestation.

Three industry professionals discuss what effect declining barley acres is having on the Canadian malting barley industry, what opportunities lie ahead and the role of seed in the future.

BIOGRAPHIES:



Michael Brophy has worked in the Canadian barley malting and brewing industry for 20 years. He is president and CEO of the Brewing and Malting Barley Research Institute where he steers the organization's activities in varietal development, evaluation and related communications.



Robert (Rob) McCaig is the managing director and director of brewing for the Canadian Malting Barley Technical Centre. He has over 30 years of brewing industry experience, including the position of brewmaster with Molson Breweries. Rob is a fellow of the Institute of Brewing and Distilling and also serves on its board of examiners.



Kevin Sich is the barley manager of the Grain Department for Rahr Malting Canada Ltd. He's worked in the grain industry for 27 years, holding a number of positions in country operations across Western Canada.

seed.ab.ca: How is the decline in barley acres affecting the malting barley industry?

MB: The industry is obviously concerned. It wants to ensure that a sufficient supply of barley is produced. The industry is now working with its growers to achieve a higher selection rate of malting barley varieties in order to maintain the total selectable pool needed each year for both domestic processing and exports.

A number of companies are also working closely with growers. These specialty growers have a higher success rate in terms of malting barley production selection by adopting best management practices for malting barley, from seeding through growing, to harvesting and post-harvest management.

Growers are now much more careful in choosing the malting barley varieties that are in market demand, whereas, some years ago, if there was no market demand for the varieties they produced it just went to the feed market.

RM: It's made supplies rather tight worldwide. Because of what's happening around the world, there are opportunities for Canadian growers to grab more of the market share now that we're moving into a new reality.

The domestic industry only uses about 35 per cent of the production. So we'll always have enough for the domestic maltsters and brewers. About 65 to 66 per cent goes offshore. What we're in danger of doing is not being able to ship as much malt barley to places like China, the United States, South Africa and South America, which offer lucrative opportunities for farmers.

KS: It's of concern to the whole industry. We cannot continue to watch acres drop. At some point we have to try to stabilize acres to fulfill our needs. What is that threshold? Is it five million acres? Six million? That's what we need to figure out—what's going to service the market.

We're trying to create more partnerships with farmers, to work with them on better agronomic practices. That wasn't communicated to a grower even 10 years ago. We're spending more time with growers; we want them to succeed.

seed.ab.ca: What effect is fusarium head blight having on the industry?

MB: Part of the reason growers are moving out of barley in some areas, such as the Red River Valley in Central Manitoba and even into Western Manitoba, is the effect of FHB—not the blight itself, but the actual industry specifications for the feed and food markets in terms of the levels of vomitoxin in the kernels. Barley has basically been driven farther west into Saskatchewan and Alberta, and out of Manitoba.

RM: Fusarium comes and goes. Any fusarium on malt barley bars it from selection. This past year we had good weather in terms of smaller rainfalls around grain filling and harvest time, and fusarium was essentially nil. Last year, when we had rain, and then more rain, fusarium was an issue in Manitoba and Southeastern Saskatchewan. It depends on what Mother Nature throws at us.

Breeders are working on new varieties that are less susceptible to fusarium as well as to smut and stem rust. Before they can be registered, many of the new varieties have to exhibit the same level—or better—of disease resistance as existing varieties. We may be approaching the point where we can breed out susceptibility to fusarium.

KS: In Alberta, we haven't had a problem with fusarium in barley yet. However, you'd be foolish to think it couldn't end up out here. It's already showing up in wheat, in some cases. We have to be vigilant, and we test for it every year—so far so good.

seed.ab.ca: What opportunities for the future do you foresee?

MB: The opportunities for the future relate to specialty growers producing malting barley as a specialty crop. Growers will work more closely than in the past with their elevators, malting companies and end-use customers, so they will be producing malting barley varieties to the specifications required by their customers.

We also see opportunities for malting barley to be treated as one

of the cereal crops in rotation with canola and pulses. A number of new varieties are coming on stream that will potentially be more productive for growers in terms of bushels per acre, allowing malting barley to compete with other high-yielding cereal crops, such as some of the wheat varieties. It will be a joint effort by growers, their customers and the seed industry to make sure we have varieties and production practices in place that will keep barley a competitive crop for growers.

RM: In terms of the future, declining acres around the world presents an opportunity for Canadian farmers to step up. Canada commands about 26 per cent of the world malting barley market in an average year. Given what's happening in Europe and the United

“Canada commands about 26 per cent of the world malting barley market in an average year.”
— Robert McCaig

States, there's an opportunity to capture more of that world market share, particularly in the United States, China and South America.

Now that Bill C-18 has passed, there will be opportunities for large international brewing and malting organizations to come into Canada and set up partnerships with Canadian farmers. The top five brewing companies in the world command about 75 per cent of the beer worldwide. There will be an opportunity for these organizations to set up direct contracting with the farmers of Canada to grow malt barley to their specifications, and with the varieties they want.

KS: We ship a lot of raw barley export—is there room for more processing on the Prairies? Is there an opportunity for creating more malt out here, more value-added products? Certain organizations are looking at other uses for barley, such as barley teas, dough and bread. I don't think enough time has been spent on developing value-added products.

Barley is also a good rotational crop. Canola is king, and pays

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the bills for many farmers, but they can't grow canola every year. In some areas, barley could be a great rotational crop with canola. It's an easy crop to grow, it's not a high-cost crop, and, if managed properly, it can be a grower's best paying crop.

Right now we're in a voluntary or dual marketing system. I think we're going to see the barley market develop into a true North American market. As a true North American market we could start supplying more barley to the United States.

seed.ab.ca: What role does seed play in the future of the industry?

MB: Seed will continue to play a very important role. Canada has an excellent international reputation for the quality of our malting barley and malt, and that is based on good varieties, the purity of the samples produced by growers, and the purity of the deliveries from growers to the industry. Varietal purity is critical in our industry. Growers who use certified seed know they're getting a guarantee of purity of the seed they are putting into the ground. At harvest time, they have the confidence that the purity is going to be there when they're delivering the barley to their customers.

RM: The role of seed is going to be huge because international organizations are looking at traceability, and part of that traceability is growers knowing they're using the right seed—the varieties those organizations are looking for. These companies, to ensure their supplies, are going to insist on the use of certified seed. Therefore, I think we're going to see an increase in certified seed use in Canada.

KS: [New varieties of seed] is one of the biggest opportunities for the industry. However, there's been some really good barley varieties developed in the past that never had a fair shake because they were pushed to market before the market developed.

We need to develop a variety and then let the maltster test it first. If we can make decent malt out of the variety then it's our job to get it out to the brewing industry to show some value to them; for example, can they make more bottles of beer out of it, or can it speed up the process. If that works, and if it's a variety that offers agronomic traits to a grower, then we've got something. A farmer looks at yield, maturity, and standability. Our breeding industry can breed that into a variety for a farmer. **kari.belanger**

WHERE ON THE WEB

seed.ab.ca: What is the importance of funding and the Canadian Malt Barley brand to the industry?

MB: The Canadian Malt Barley brand is not just a logo. Basically, it's our overall system that we are promoting—our varietal development system, malting barley selection system, market development system and our industry members—that's the brand. Now we are crystallizing it into something we can define as a brand.

With changes to the marketing structure, it's very important that we continue to have funding from multiple sources, from growers, private industry and government, so that we can continue to have a vibrant and competitive industry compared to our international competitors. It's also important that we all have a concerted plan so that everybody is working in the same direction as we go forward.

RM: The CMBTC is largest recipient of this funding for the Canadian Malt Barley brand. It's an important part of the support to Canadian malt barley farmers and the industry. We get funding from industry and government (through this funding mechanism), and we also get funding from the farmer—up until now it has been through the Canadian Wheat Board but, in the future, funding will probably be through a check-off. We have three important parts of the malt barley value chain involved as integral parts in developing the brand, and in developing and supporting Canadian malt barley worldwide.

Two-thirds of Canadian malt barley goes offshore, so it's important to have this identity, and to be out there promoting that our selection process is based on quality. The government recognizes the importance of the work we're doing in setting up this Canadian Malt Barley brand; however, there are some concerns going forward as budgets become tighter, and because what we do doesn't exactly fit the funding model for this program. We're hoping in the future a better funding model is developed that more aptly fits what we do.

KS: There needs to be one main umbrella for the barley industry that captures and promotes it. There are a lot of separate identities out there. As an industry, everybody has to take part in this to develop it.

The Canadian Malt Barley brand has been really good. Robert McCaig's group works with foreign buyers and the group has done well. If we can now somehow pull that all into one identity so that no focus on any part of it is lost, but how is that done? That is the question being asked at meetings right now.

I think we need a barley council of some kind that can bring everybody in—the brewers, the maltsters and the feed industry. We need to do that to capture funding. It has to pull all of the parties together.

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Growing to Meet Demand

Expansion to satisfy the needs of shareholders keeps a northern Alberta seed cleaning plant ahead of the competition.

TWENTY-FOUR kilometres north of Grand Prairie sits Sexsmith, which serves as an agricultural hub in its own right despite its far better known neighbour to the south. Some 40 years after the town was founded, the Sexsmith Co-operative Seed Cleaning Association was formed to give local farmers a place to get their seed cleaned. The original plant was built in 1958 and then rebuilt in 1984 and, since then, the company has continued to grow.

Sexsmith Co-op's manager, Sheldon Shura, took over the operation in 2006 and has continued to lead the company through its expansion plans. "We recently upgraded the machinery," he says, "and we are adding a 20-foot scale extension to the plant next summer in 2012. We are also considering the addition of a colour sorter in 2013."

The plant operates with two full-time and two part-time staff members and they oversee the throughput of an average of 465,000 bushels of grain per year. The group works a lot of hours, according to Shura, and he sometimes thinks they could run 24 hours a day if they could find the staff to keep the plant going.

Over 700 farmers belong to the co-op but less than 200 are actively farming. Shares in the plant cost \$50, and all the money earned goes back into improvements.

"Over half of what we handle is peas for human consumption, which are shipped to India or China," says Shura. The shipping is handled by a 24-car spot on the rail line that goes through town. Shura says the co-op ships an average of 142 cars per year but, thanks to some recent improvements and a good season for farmers, he predicts the company may hit 300 cars in 2012.

"In 2003, we put up six hopper bins that sit on custom made rig mats because we lease the site from CN," Shura explains. "If we ever have to move, we can take the bins and adjust to our new location quickly." Three more bins were added in 2008 and he expects more will be added if demand increases.

While peas for human consumption is the main revenue stream, at Sexsmith Co-op, the company services wheat, oats and barley and, for those crops, an auger was purchased. The

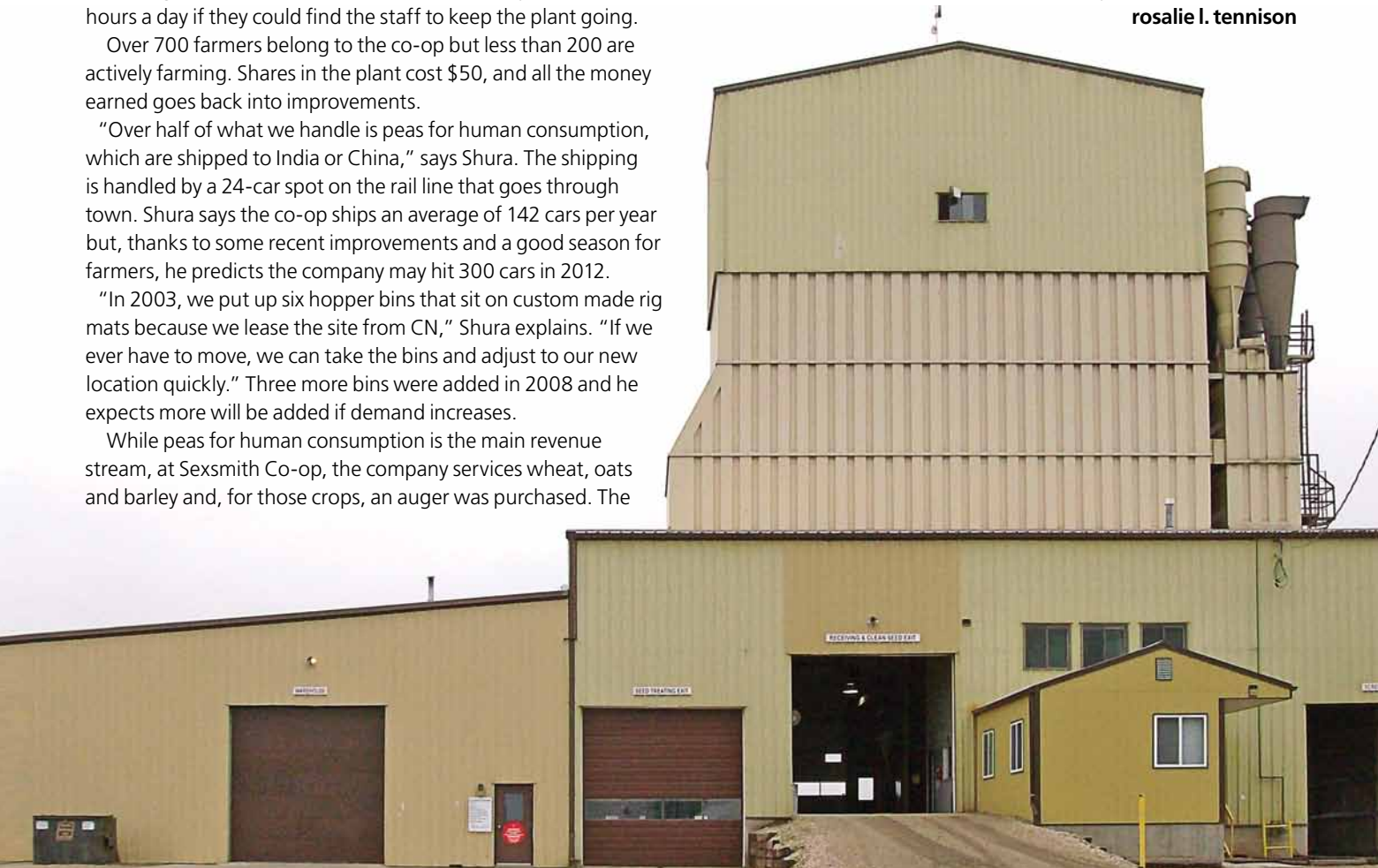
peas are loaded with a 15 x 85-foot belt conveyor, which is gentler for that crop, and the cereals and oilseeds are pushed through one of two 15 x 45-foot grain augers.

"The plant has been here for over 50 years—we clean a lot of seed, and draw from a large area," Shura says. There are other plants in the area, but he says they are all busy. "Sure, we have competition, but there is enough work for everyone." He says his farmer-customers care about their products and what they ship, which prompts the company to continue upgrading and seeking the best technology to help their farmers be successful.

"This is a good area and the farmers are doing a good job," Shura says. "My bosses are the farmers who own the plant and they know what is needed."

In an area that is growing, and where land sells for a premium, Sexsmith Co-operative Seed Cleaning Plant is doing its best to meet the needs of progressive farmers. The company not only invests in its future but the future of its many customers.

rosalie I. tennison



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6040 RR

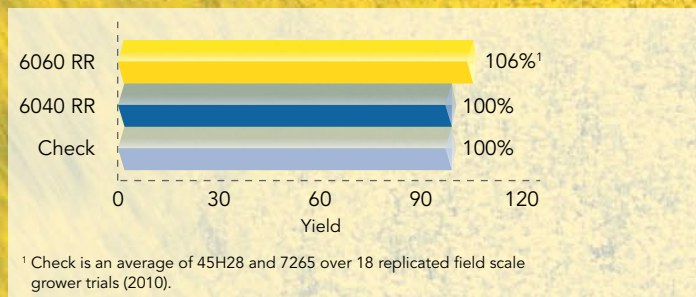
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A Trainload of Success

A high-achieving seed cleaning plant has a hard working staff and a stop on the railroad.

OVER 50 years ago, a group of farmers in the Alliance area set up a seed cleaning co-operative and, since 1957, the business has grown at a record-setting pace. In fact, in 2010, Alliance Seed Cleaning Association had over \$1 million in sales, which was a record for the plant. That record was achieved with the help of a much needed expansion, which included new office space, sales area, and a warehouse for feed and pet supplies storage.

According to the co-op's long-time manager, Terry Howe, the increase in volume is due to many factors. "When I started, we would clean 250,000 to 400,000 bushels per year," he recalls. "In July of 2011, we put in a colour sorter, and our volume skyrocketed. We've been using it to pick ergot out of wheat. From the time we added the colour sorter to Christmas of 2011, we cleaned a half-million bushels, which was double what we would normally do in a year!"



Howe says the five full-time employees at the company work very hard and put in many long hours. He says they sometimes work 20-hour days in order to keep up with demand and, he believes, that dedication is a huge factor in Alliance Seed Cleaning's success. "I have a good staff that works hard," he says. "Because the staff is so great, succession should be smooth, when that time comes!"

Two other reasons the company has steadily improved its position in Flagstaff County are its move to offer retail sales of feed and pet supplies and its stop on the Battle River Railroad. Alliance Seed Cleaning Plant is the last stop on the 56-mile railroad and often adds 20 cars of grain to the train before it continues on to connect with the CN main line.

"Our retail space and access to the railroad may be what keeps us competitive," Howe suggests. "With the uncertain future of the Canadian Wheat Board, there could be some changes that will benefit us. Local farmers see opportunities with our access to the railroad."

The addition of the retail space 10 years ago helps the company balance the costs of running the plant and brings more traffic to the operation. The co-op also age verifies calves for the Canadian Cattle Identification Agency.

Alliance Seed Cleaning Association's 250 shareholders are willing to expand and improve to keep the plant viable and competitive. The co-op added a 90-foot scale a few years ago to accommodate larger trucks, and there are plans to upgrade storage in 2012.

"We want to beef up our incoming by adding new bins," explains Howe.

Alliance Seed Cleaning Association's longevity can be traced to good management, hard work and diversification.

rosalie I. tennison

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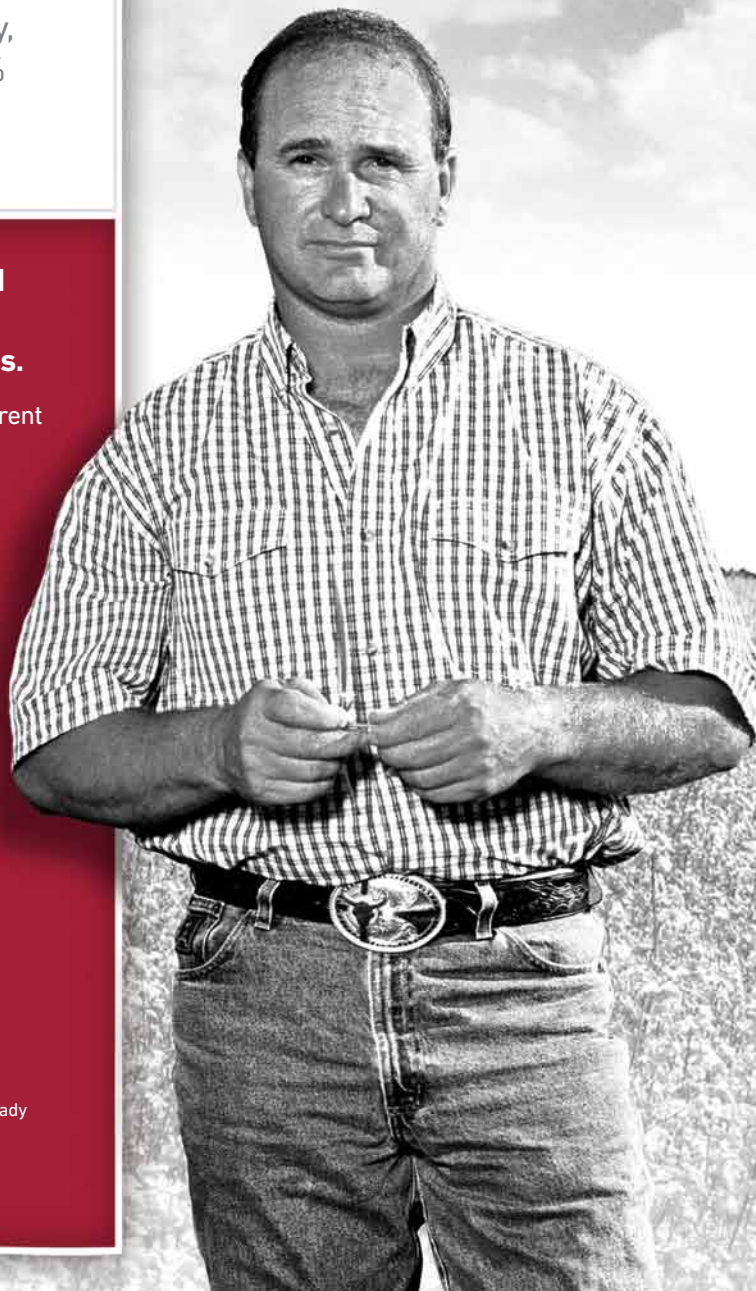
Leave the myths behind. See your local retailer for details, or go to www.genuitycanola.ca.



*Source: 2011 Monsanto FACT trials. Genuity Roundup Ready represented by 73-75 RR; InVigor® by L150.

MYTH

To grow the highest yielding canola, I may have to live with an increased risk of Group 1 resistant weeds.



Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible. Monsanto Company is a member of Excellence Through Stewardship™ (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship™ is a service mark of Excellence Through Stewardship. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup® brand agricultural herbicides. Roundup® brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity®, Genuity and Design®, Roundup Ready®, Roundup WeatherMAX®, and Roundup® are trademarks of Monsanto Technology LLC, Monsanto Canada, Inc. licensee. All other trademarks are the property of their respective owners. ©2011 Monsanto Canada, Inc.

At Your Service

Three Alberta seed growers are taking action and turning ideas into certified success.



Mastin Seeds

Low levels of pedigreed seed usage prompted Bob Mastin to create the Mastin Method of seed distribution, which can be summed up in four words: lower royalty, higher volume. The premise behind the innovative distribution method is simple—Mastin pays a lower royalty to breeders for the rights to good varieties, and then sells higher volumes of reasonably priced certified seed to farmers.

This new distribution method was conceived when Mastin, who has been in the pedigreed seed business for more than 30 years, was asked to submit a bid to the Alberta Agriculture's Research Station in Lacombe, Alta., for the BT566 barley variety now known as Sundre.

The Mastin Method is built on three cornerstones—supplying a consistently high-quality product, fair pricing and readily available product. The method concentrates on cutting costs, increasing



Bob Mastin

efficiencies, improving quality and making the product available.

Mastin's strategy is based on the fact that only about 15 per cent of cereal seed sold in Western Canada is pedigreed. "Seed growers are trying to determine how to divvy up that 15 per cent of the business when we should be going after the 85 per cent, which would reduce the cost of the seed," says the owner of Mastin Seeds, based near Sundre, Alta.

Plant breeders often have a million dollars invested in a variety, he explains, and they try to recover these breeding costs through royalties and fees. But if royalties are only collected on 15 per cent of the seed, the royalties become fairly high and onerous, according to Mastin. "It's a vicious cycle. If you have high royalties on pedigree seed the price of pedigree seed becomes significantly higher than common seed. And this encourages more people to use common seed," he says.

Mastin is hoping that a lower royalty and thus a lower certified seed price will lead to more growers buying certified seed on a regular basis. And he's already seeing promising results. Two varieties he distributes, Sundre barley and AC Mustang oats, have sold out every year with very little promotion, he says.

With his new approach to seed distribution, Mastin is trying to change the entire seed industry in Western Canada. And he realizes that this will take time as old habits die hard. "The trend is on my side, but it's still going to take a long time. All I can do is speed this natural trend up," he says. "In a long drawn-out process things change along the way, so you have to be vigilant, recognize the changes and change your strategy to stay relevant."

Mastin's advice for other farmers considering new business ventures is to do your research, stick with what you know and make sure your idea has a strong profit potential so when things get scaled back as they often do in agriculture, it will still be viable.

"And make sure it [offers you] satisfaction other than just money. Money alone is not enough to keep you going for years or to keep you motivated to do the right things," he adds.

WHERE ON THE WEB

For more information on the Mastin Method visit WWW.MASTINSEEDS.COM.

Stamp's Select Seeds

Greg Stamp isn't afraid to try something new. The Alberta farmer has pursued several ventures in the past few years, including organic production, direct marketing, variable rate technology and social media.

After graduating from university in 2006, Stamp returned to the family farm near Enchant, Alta., where he now farms about 2,600 acres of winter wheat, spring wheat, canola, durum, barley, flax and fababeans with his wife and parents.

After being hailed out a few years ago, Stamp decided he needed to find a way to spread the farm's risk over more areas, and decided to rent land from a farmer approximately 50 kilometres away. "It's a pain moving machinery back and forth, but in the end when you look at the balance sheet it's a smart move," he says, noting that more farmers are doing the same thing. So far, it's going well for Stamp.

"The neighbours are really cooperative when dealing with isolations for seed canola and we're able to trade land for potatoes—whereas in our area, we can't do that because our land isn't as well suited for potatoes," he says.

After acquiring the new parcel of land, Stamp contemplated turning it into organic production, but soon realized the risks were too high. "I spent the money to become certified organic because I wanted to grow processing peas and corn," he says. "But we ended up not doing that because the amount of risk involved with having weedy fields or a poor crop, compared to what they were paying, wasn't worth it." Despite the outcome, Stamp views it as a learning experience.

Another new experience came earlier this year, when Stamp and his wife began selling their flax seed at the Calgary Farmers' Market through the Innisfail Growers. They were surprised by the demand for flax, and are hoping to eventually expand into selling other crops at farmers' markets.

Stamp is also dabbling in variable rate technology on his farm, but acknowledges that he still has a lot to learn. To gain knowledge on new technologies and key industry issues, Stamp feels it's important to attend conferences to learn from colleagues.

The young producer also feels farmers can learn from social media. He sees value in farmers using social media tools such as Twitter. "I post pictures from the farm with descriptions of what we're doing, and that often starts conversations," he says, adding, "It can bring you closer to people who have similar interests, and you can learn from them."



Greg Stamp

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WHERE ON THE WEB

For more information on the Stamp's Seeds visit
WWW.STAMPSSEEDS.COM.

SeedNet

A group of southern Alberta seed growers have come together to form SeedNet in an effort to enhance their market presence and value-added opportunities.

The marketing group was formed in 2010 by 14 independent seed growers who separately have between 15 and 50 years of experience in growing, processing and retailing seed. "We are dedicated to providing farmers with the best-quality seed and farm inputs available. Our products and services are provided by our farmer members who have first-hand, real-life experience with the seed and farm inputs we are selling," says Ron Markert, owner of Markert Seeds, based near Vulcan, Alta.

"We have developed one large company to increase the competitive position of all 14 independent seed retailers," says Markert. "Although we farm and retail individually, we work together to promote SeedNet and our seed products."

As a result of this joint venture, SeedNet has just signed an agreement with Alliance Grain (Saskcan Pulse) that will allow the group to produce, retail and provide production contracts for all Alliance Grain products. SeedNet will begin with a focus on lentils and fababeans from Saskcan.

"We are also in discussions with two other companies to participate in joint ventures. SeedNet has been approached by fertilizer, chemical and fuel companies all wanting to do business with us," says Markert. "In all of these cases, all of these companies want to work with a larger group that farms more acres as opposed to an individual seed grower."

Currently, SeedNet collectively controls 50,000 acres eligible for seed production with grain storage in excess of 2,000,000 bushels. We provide 14 retail outlets in Southern Alberta that can effectively serve the agricultural needs of the southern regions of Alberta, British Columbia and Saskatchewan, notes Markert.

While SeedNet is now experiencing growth and success, that did not happen overnight. Markert says it took approximately two years for the venture to get off the ground. "Everyone was a little apprehensive at first, because some of the farm units in the group had been competing with one another in the seed business for over 50 years," he says. "But the more we talked, the more we realized we had a lot in common and that we would have to do something to compete in the seed industry, because the structure of the industry was changing quickly—and not to the benefit of the smaller, independent seed growers."

Markert says one of the best things the company did was to hire a third-party consultant. "We wanted to find out if this company was viable. Was it worth the effort? Could we work together?" he says, noting that the group had a one-day seminar to determine whether they were all on the same page. "At the end of the day, it was as if someone had turned the light on. Everyone said, 'what are we waiting for? Let's do it.'"

The group agreed that 14 seed growers farming in excess of 50,000 acres represented by one company had a far

better chance of surviving and expanding than 14 individual growers. "Size has its benefits, and those benefits also include the vast array of knowledge and talent within the group working together for a common cause," he says. "All of us watched the seed industry change over the past 20 years. As soon as we realized that we could all benefit it was an easy decision."

That being said, says Markert, working together as a group does present challenges. "But given time, everyone will benefit in the group far more than if they had proceeded individually," he says.

He encourages other farmers who are pursuing new business ventures to take their time and structure their companies right the first time. **teresa.falk**



SeedNet consists of the following 14 independent seed growers:

- Benci Seed Farms
- Chin Ridge Seeds
- Fabian Seed Farms
- Foremost Seeds
- Willms Seed Farm
- Huvenaars Seed Farms
- Markert Seeds
- Mercer Seeds
- Sleepy Hollow Seeds
- Specialty Seeds
- Stamp Select Seeds
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WHERE ON THE WEB

For more information on the SeedNet partnership visit WWW.SEEDNET.CA.



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Measuring Up

THE 2011 data from the Regional Variety Trials will help you make one of your most important management decisions – choosing the best varieties for your farm. Once you've made your picks, you'll find the grower directory immediately following the performance trial results.

Legend for Cereals & Oilseeds

Symbols

- † Denotes variety may not be described in 2009.
 - NS Denotes variety generally not suited for area.
 - XX Denotes insufficient test data to describe.
 -  Denotes variety protected by Plant Breeders' Rights.
 -  Denotes protection under Plant Breeders' Rights has been applied for.
- * Numerical yield data followed by a star (e.g. 101*) denotes limited data.

Resistance

- Ldg. Lodging.
- Shat. Shattering: EX = Excellent, VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.
- Com. Rt. Rot Common root rot.
- Fl. & Cov. Smut False loose & covered smuts.
- Net Blt. Net Blotch: R = Resistant, I = Intermediate, S = Susceptible.
- Sprout Toler. Sprouting Tolerance: Ex = Excellent, G = Good, F = Fair, P = Poor.
- Leaf Spot VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

Abbreviations

- Comp. Mat. Comparative maturity in (+ or -) days from the check variety.
- Comp. Prot. Comparative protein in (+ or -) percent from the check variety.
- Te. Wt. Test Weight (lb/bu). Multiply lb/bu by 1.25 to get kilograms per hectolitre.
- Kn. Wt. Kernel Weight (grams/1,000 kernels).
- Seed size S = Small, M = Medium, M-L = Medium Large, L = Large.
- Ht. Height in centimeters.
- Awn type R = Rough, S = Smooth, SS = Semi-smooth.
- Toler. FHB Fusarium Head Blight Tolerance: G = Good, F+ = Somewhat better than fair, F = Fair, P = Poor, VP = Very Poor.

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- NEW AC™ ENTERPRISE – CWAD
- NEW AC™ CONQUER VB – CPSR with Midge Resistance

OATS

- TRIACTOR

BARLEY

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- BENTLEY – 2-ROW MALTING
- CDC POLARSTAR – 2-ROW MALTING IP
- CDC COALITION – 2-ROW FEED

PEAS

- AC™ AGASSIZ – YELLOW
- AC™ THUNDERBIRD – YELLOW

CANARYSEED

- CDC TOGO – GLABROUS



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Varieties of Cereal and Oilseed Crops for Alberta

THIS publication provides information on cereal and oilseed variety performance within Alberta and Northeastern British Columbia. Important agronomic characteristics are given in tabular form for varieties of wheat, oat, barley, rye, triticale, flax and canola. The Alberta Regional Variety Testing program is coordinated by the Alberta/British Columbia Grain Advisory Committee (ABCGAC) and Alberta Agriculture and Rural Development. Funding for the program is provided by Alberta Agriculture and Rural Development, the Alberta Seed Growers' Association, the Association of Alberta Co-op Seed Cleaning Plants, the Alberta Winter Wheat Producers' Commission and entry fees for the varieties in the tests. Data for this publication is contributed by numerous applied research associations, the Prairie Grain Development Committee, the Canola Council of Canada, Viterra, Agriculture and Agri-Food Canada and AARD. Every year, the test results and updated tables are reviewed and approved by members of the ABCGAC. Sincere thanks are extended to all individuals and organizations who contribute to this important publication.

Test Yield Categories

The defined range for each Yield Test Category is provided in bushels per acre (bu/ac). Variety yields are reported based on the site means relative to the check in two ways:

- As the overall average yield for all data available to the Alta./B.C. testing program, with the number of site-years of data indicated. When there are limited data for a new variety, yield information may only appear in the Overall Yield column.
- As the average yields in Low, Medium, High and Very High Test Yield Categories for comparison with the check for productivity regimes and environments that may be anticipated. Varieties that are statistically higher (+) or lower (-) yielding than the standard check are indicated. No symbol after the yield figure indicates that there is no statistical difference. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested.

Test Yield Categories allow producers to fine tune their variety choices for the productivity levels expected in particular fields in the coming season. This approach is similar to that used when making decisions on the levels for other inputs. Scientific studies conducted on crop varieties in Western Canada show that Test Yield Category analysis provides a more stable description of variety yield performance than descriptions organized by geographic groupings.

To make effective use the yield comparison tables, producers first need to assess where their target yield for the season fits within the Low, Medium, High and Very High Test Yield categories. It should be noted that the indicated yield levels are those from small plot trials, which are often 15 to 20% higher than yields expected under commercial production. Also remember that yield is not the only factor that affects net return. Be sure to consider the other important agronomic and disease resistance characteristics. The genetic yield potential of a variety is often masked by various crop management factors, some of which can be controlled.

For more information, please visit Alberta Agriculture's website, Ropin' the Web: www.agriculture.alberta.ca/rvt.

Yield Summarization Methods

For cereal crops, yield data is expressed on the basis of varying environmental productivity (Test Yield Categories of Low, Medium, High and Very High). Experience has shown that yield rankings can change substantially due to growing conditions. To reflect these differences and make the data more useful to producers, results from a test site that produced high yield in a particular year are now placed into the database for 'high' yielding environments. That same site may contribute to the 'low' yielding category in a drought year, when yields are low.

Consistent performance over all productivity environments indicates that the variety has good yield stability over a wide range of environments. For new varieties where sufficient data is not available to provide reasonable estimates of yield performance in each Yield Test Category, the overall provincial yield is a first indication of the yield potential relative to the check.

It is important to note that many of the comparisons in the tables are not direct comparisons. Small plot agronomic trials are expensive to grow, and new varieties are registered every year. It is simply impractical to grow all of the varieties at the same time. Following several years of data collection, the yield data for a particular variety will stabilize relative to the standard check and testing will no longer be warranted. It is for this reason that the

Variety	Overall Yield (1)		Test Yield Category (2)			
	All Sites	Station years of testing	Low <60 bu/ac	Med 60-90 bu/ac	High 90-120 bu/ac	Very High >120 bu/ac
Variety bu/ac	97		45	77	105	136
Check Variety	100	(252)	100	100	100	100
Variety X	103	(95)	97	101	104+	99

On average, Variety X has yielded 4% more than the check variety and this difference is statistically significant.

same standard reference check varieties are grown every year (e.g. AC Barrie for CWRS wheat, AC Metcalfe for barley) and changes do not occur very often. This means that the only direct comparison that you can be sure of is with that of the reference check. The “number of station-years” column provides some indication of the unbalanced nature of the data.

To help aid in the selection process, varieties that have yielded statistically higher (+) or lower (-) than the standard check are indicated. If a large difference from the check is reported but is not significant, this could mean that the yields of the new variety have varied widely, and/or there still is not enough data to prove a statistical difference. In all cases, for the yield data to be presented, there must be a total of at least six station-years of data collected over two years. With additional years of testing, the reported yield differences will become more precise.



Variety choice should not be based solely on yield in a specific Yield Test Category. Producers are encouraged to consider other characteristics, such as maturity, straw strength and disease resistance when considering a new variety. In addition, factors such as expected growth season rainfall, soil moisture status, disease forecasts, soil fertility and weed pressure will impact the specific Yield Test Category in which actual yields will occur.

Maturity Ratings

As is the case for yield, growing conditions have a tremendous influence on maturity. For example, a variety of CWRS wheat may

mature in 98 days in Lethbridge, but take 103 days in Edmonton. In addition, a two day difference in maturity between varieties in Lethbridge may amount to a five day difference in Edmonton. To take this into account, maturity is now expressed using a five category scale: Very Early, Early, Medium, Late and Very Late. To aid producers with this relative scale, the average number of days to maturity for the standard check is reported. Note that this scale is different for each crop type. For example, an early barley variety will mature much earlier than an early flax variety.

Plant Breeders’ Rights

The use of Plant Breeder’s Rights (PBR) logo  indicates a variety is protected by law, and seed of this variety cannot be sold without permission and royalty payment. The use of the logo  indicates that PBR has been applied for.

Canola

The Alberta Cereal and Oilseed Advisory Committee does not take any responsibility for accuracy or validity of the canola performance data.

Diseases, Seed Treatments and Seed Testing

- Disease ratings are compiled from various data sources in Alberta and other Prairie Provinces.
- Treat rye and flax seed to control seedling blight, cereal seed for smuts and fusarium, canola seed to control flea beetle,



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- Treated seed must not be fed to livestock, poultry or wildlife or sold for feed. Refer to labels for maximum storage periods of treated seed.
- The leaf spot rating in the wheat charts is a combination of resistance to tan spot and septoria leaf disease complex.
- Fusarium head blight, caused by *Fusarium graminearum*, is an increasing problem in Alberta. The relative ranking of crops from most susceptible to least susceptible is durum, CPS wheat, CWRS wheat, triticale, barley and oat. Corn is a host of *F. graminearum* and can serve as a source of infection when residue is left on the ground. Under severe epidemics, all cereal varieties will suffer damage. All seed, especially seed brought in from infected areas of the Eastern Prairies, should be tested for the presence of FHB and treated with an appropriate seed treatment. Producers are advised to choose varieties with the best FHB tolerance whenever possible and always use best management practices to slow the spread of this disease
- All seed of cereal varieties tested in the Alberta Regional Variety Testing program comes with a "fusarium-free" certificate. In addition, all regional trials are inspected for the disease at the most susceptible stage.

Laboratories participating in the FHB testing program:

- 20/20 Seed Labs Ltd., Nisku, Alta., 1-877-420-2099
- BioVision Seed Research Ltd., Edmonton, Alta., 1-800-952-5407
- BioVision Seed Research Ltd., Grande Prairie, Alta., 1-877-532-8889
- Parkland Laboratories, Red Deer, Alta., 1-403-342-0404
- Precision Seed Testing, Beaverlodge, Alta., 1-780-354-2259
- Seed Check Technologies Inc., Leduc, Alta., 1-780-980-8324

Other Variety Information

For additional variety information, including varieties not listed in this factsheet, check the Alberta Agriculture website or call the Alberta Ag-Info Centre toll-free at 310-FARM (3276). Website: www.agriculture.alberta.ca.

All tables prepared, reviewed, and approved by:

Alberta/British Columbia Grain Advisory Committee

Data prepared by:

Alex Fedko
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BARLEY

Variety	2 or 6 Row	Awn Type ¹	Overall Yield	Station Years of Testing	Yield Category ² (% AC Metcalfe)			
					Low <60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High >120 (bu/ac)
AC Metcalfe (bu/ac)			100		48	79	104	133
AC Metcalfe ³ ☼	2	R	100	(422)	100	100	100	100
AC Harper ☼*	6	SS	103+	(166)	94	96-	102	111+
AC Lacombe ☼*	6	S	107+	(194)	98	100	107+	115+
AC Ranger ☼*	6	S	107+	(48)	100	99	118+	108+
AC Rosser ☼	6	S	110+	(166)	100	103	111+	117+
Busby ☼	2	R	104+	(45)	107	103	106	103
CDC Austenson ☼	2	R	111+	(61)	108	111+	111+	112+
CDC Coalition ☼	2	R	109+	(53)	107	110+	108+	109+
CDC Cowboy ☼	2	R	95-	(75)	107	94-	93-	95-
CDC Dolly	2	R	101	(184)	97	100	103+	100
CDC Helgason ☼	2	R	104+	(101)	96	99	106+	114+
CDC Mindon ☼	2	R	99	(47)	XX	98	103	96-
CDC Trey ☼	2	R	104+	(106)	98	103	103	109+
Champion ☼	2	R	112+	(97)	124+	111+	111+	110+
Chigwell ☼	6	S	104	(43)	XX	98	106	111+
Conlon	2	S	94-	(63)	94	92-	93-	95-
Gadsby ☼	2	R	109+	(31)	XX	109+	110+	108+
Manny ☼†	6	R	110+	(77)	99	101	113+	119+
Niobe ☼†	2	R	105+	(63)	96	97	108+	113+
Ponoka ☼	2	R	110+	(120)	98	107+	112+	112+
Seebe	2	R	100	(229)	91-	98	103	102
Stander ☼	6	SS	104+	(76)	XX	101	100	111+
Sundre ☼	6	S	111+	(68)	97	111	109+	121+
Trochu ☼	6	S	110+	(136)	99	106	110+	120+
XENA	2	R	112+	(229)	107	109+	114+	115+
SEMI-DWARF								
CDC Bold	2	R	106+	(77)	111+	107+	106+	102
Mahigan ☼*†	6	SS	101	(111)	85-	92-	102	110+
Vivar ☼	6	R	110+	(106)	101	104	110+	117+
HULLLESS								
CDC Carter ☼	2	R	97-	(45)	97	99	94-	XX
CDC McGwire ☼†*	2	R	93-	(107)	88-	93-	99	XX
Falcon ☼†	6	S	83-	(181)	72-	83-	91-	89
Millhouse ☼†	2	R	84-	(35)	85-	86-	80-	XX
Tyto	6	S	84-	(72)	76-	80-	96	96
MALTING ACCEPTANCE: RECOMMENDED								
AC Metcalfe (bu/ac)			100		48	79	104	133
AC Metcalfe ³ ☼	2	R	100	(423)	100	100	100	100
CDC Copeland ☼	2	R	104+	(137)	93	101	108+	109+
CDC Meredith ☼	2	R	108+	(61)	102	109+	108+	108+
Legacy ☼	6	SS	102	(122)	91-	99	103	111+
Newdale ☼	2	R	103+	(90)	102	102	104	104+
Stellar-ND ☼	6	SS	94-	(73)	XX	88-	94-	103
Tradition ☼	6	SS	101	(121)	88-	99	102	110+
MALTING ACCEPTANCE: UNDER TEST								
Bentley ☼	2	R	105+	(61)	109	102	104+	105+
CDC Clyde ☼	6	SS	103	(77)	93	104	101	108+
CDC Kamsack ☼	6	R	97	(37)	XX	90-	99	109
CDC Kindersley ☼	2	R	102	(31)	XX	102	99	103
CDC Mayfair ☼	6	R	97	(52)	XX	91-	96	104
CDC Reserve ☼	2	R	102	(61)	112	101	99	102
Celebration	6	SS	94	(27)	XX	87-	99	XX
Cerveza ▲	2	R	109+	(45)	XX	109+	108+	110+
Major ☼	2	R	106+	(45)	XX	106	107+	106+
Merit 57 ☼	2	R	109+	(83)	108	108+	109+	109+
Norman ☼	2	R	97-	(47)	XX	94-	97	98
MALTING ACCEPTANCE: OTHER								
CDC Battleford ☼†	6	S	105+	(107)	94	101	104	117+
CDC ExPlus ☼	2	R	87-	(30)	XX	89-	88-	XX
CDC Kendall ☼	2	R	98-	(165)	100	98	97-	96-
CDC Yorkton †	6	S	106+	(96)	XX	106	105+	111+
Excel †*	6	SS	102	(50)	95	106	100	102
Formosa †	2	R	97	(36)	XX	98	95	101
Harrington	2	R	93-	(284)	99	96-	92-	89-

Alberta and British Columbia Pedigreed Seed Growers Directory of Varieties Produced in 2011

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)

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Type	Growing Zone	Maturity (Days)	Height (Inches)	Lodging
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BARLEY—CONTINUED

Variety	Agronomic Characteristics							Disease Resistance ⁶					
	Maturity Rating ⁴	Test		Ht. (cm)	Resistance to Ldg. ⁶	Loose Smut	Other Smuts	Root Rot	Scald	Spot Form		Net Form Blotch	FHB
		Weight (lb/bu)	TSW ⁵ (g)							Blotch	Blotch		
AC Metcalfe ³ ☼	M	52	46	80	F	VG	F	F	VP	F	VP	F	
AC Harper ☼ *	M	48	40	80	G	P	F	F	F	F	F	P	
AC Lacombe ☼ *	M	48	42	84	G	P	G	P	P	G	P	VP	
AC Ranger ☼ *	L	49	43	74	F	P	F	G	P	G	F	VP	
AC Rosser ☼	M	48	41	82	G	P	VG	G	VP	G	F	VP	
Busby ☼	M	53	49	78	G	VP	G	VP	F	G	P	F	
CDC Austenson ☼	L	54	46	78	G	VP	VG	F	VP	VG	P	F	
CDC Coalition ☼	L	53	47	74	G	VG	VG	F	VP	G	VP	F	
CDC Cowboy ☼	L	52	55	103	F	P	G	F	P	G	F	G	
CDC Dolly	M	53	49	74	F	VP	F	F	F	P	VP	G	
CDC Helgason ☼	E	52	46	75	G	VG	G	F	VP	G	G	P	
CDC Mindon ☼	M	52	48	77	G	VG	VG	XX	VP	G	VP	G	
CDC Trey ☼	M	52	50	80	G	P	VG	G	P	VG	F	F	
Champion ☼	M	53	48	78	G	VP	VG	XX	VP	F	VP	F	
Chigwell ☼	M	49	40	77	G	P	G	P	G	G	F	VP	
Conlon ☼	VE	52	52	79	G	F	F	G	VP	G	F	G	
Gadsby ☼	M	53	52	84	F	VG	VG	F	VG	G	P	F	
Manny ☼ †	E	48	41	86	G	XX	VG	P	VG	F	P	P	
Niobe ☼ †	E	50	45	75	G	P	G	P	F	VG	P	P	
Ponoka ☼	L	50	46	79	G	VG	VG	F	G	G	P	F	
Seebe	VL	52	50	86	G	VP	VG	F	G	P	VP	G	
Stander ☼	M	51	41	84	G	P	P	F	VP	G	VP	VP	
Sundre ☼	L	51	43	85	G	P	VG	P	VG	F	P	VP	
Trochu ☼	M	49	42	79	G	P	G	G	F	G	VP	F	
XENA ☼	M	52	49	78	G	P	P	G	VP	F	VP	G	
SEMI-DWARF													
CDC Bold	M	53	48	72	VG	P	G	G	VP	F	VP	VP	
Mahigan ☼ †	M	49	36	76	VG	VP	VG	P	G	F	F	VP	
Vivar ☼	M	49	44	73	VG	F	VG	G	F	G	VG	VP	
HULLLESS													
CDC Carter ☼	M	62	39	77	VG	VG	VG	VP	P	G	F	F	
CDC McGwire ☼ † *	M	61	39	80	VG	P	G	G	F	G	F	G	
Falcon ☼ †	E	58	35	68	VG	P	G	F	F	F	F	VP	
Millhouse ☼ †	M	57	42	87	F	VP	G	F	P	P	P	F	
Tyto	M	55	39	73	VG	VP	VG	F	P	F	VP	P	
MALTING ACCEPTANCE: RECOMMENDED													
AC Metcalfe (bu/ac)													
AC Metcalfe ³ ☼	M	52	47	82	F	VG	F	F	VP	F	VP	F	
CDC Copeland ☼	M	51	47	81	F	P	F	F	VP	F	F	F	
CDC Meredith ☼	L	51	46	75	F	VG	G	G	VP	VG	VP	F	
Legacy ☼	M	49	40	82	G	VG	G	G	VP	G	VP	P	
Newdale ☼	M	52	46	72	F	VP	G	G	P	G	F	F	
Stellar-ND ☼	E	49	41	79	G	G	G	F	P	F	P	F	
Tradition ☼	E	50	40	81	G	VP	G	G	VP	F	VP	VP	
MALTING ACCEPTANCE: UNDER TEST													
Bentley ☼	M	52	47	81	G	P	G	G	VP	VG	P	P	
CDC Clyde ☼	VE	49	40	76	G	F	VG	G	P	G	F	VP	
CDC Kamsack ☼	M	48	41	69	G	F	G	F	P	F	VP	VP	
CDC Kindersley ☼	E	XX	XX	79	G	VP	VG	F	VP	G	P	F	
CDC Mayfair ☼	E	48	40	75	G	VP	G	F	VP	G	P	P	
CDC Reserve ☼	M	53	44	78	F	VP	P	F	P	P	VP	P	
Celebration	M	50	40	79	G	VG	VG	P	VP	G	VP	P	
Cerveza ▲	M	51	46	74	F	VG	VG	F	VP	G	P	F	
Major ☼	M	51	44	74	G	VG	G	F	P	G	F	F	
Merit 57 ☼	VL	51	44	79	F	P	VP	F	P	G	P	G	
Norman ☼	M	52	43	75	G	VP	VP	P	VP	VG	P	G	
MALTING ACCEPTANCE: OTHER													
CDC Battleford ☼ †	M	49	41	84	G	P	G	G	P	VG	P	VP	
CDC ExPlus ☼	M	60	44	82	VG	P	P	VP	VP	F	F	G	
CDC Kendall ☼	E	52	45	78	F	P	P	G	VP	G	F	F	
CDC Yorkton †	M	47	39	81	G	P	G	G	P	G	F	VP	
Excel † *	M	50	40	75	G	P	F	G	VP	F	VP	VP	
Formosa †	M	53	48	79	XX	XX	XX	XX	VP	F	VP	XX	
Harrington	M	50	44	78	F	P	P	F	VP	P	VP	G	

REMARKS: General Purpose barley varieties are described as follows: 1) General Purpose varieties -standard Ht.; 2) Semi Dwarf-varieties shorter than standard General Purpose varieties and 3) Hullless-Hullless General Purpose type. In hullless varieties comparable yields are 9-12% lower. Hullless seed is more susceptible to damage than hulled seed, so handling should be minimized. CDC Carter, CDC McGwire and Millhouse are normal starch hullless barleys suitable for food use. Two row FB205 and six row BT584—insufficient information to describe. ☼-Plant Breeder's Rights. ▲- Plant Breeder's Rights applied for. †-Flagged for removal. *-Varieties have limited data compared with AC Metcalfe. XX-insufficient data to describe.

REMARKS: Malting Barley varieties are described as follows: Recommended: varieties with market acceptance and recommended by the Canadian Malting Barley Technical (CMBTC); Under Test: varieties currently undergoing evaluation for market acceptance; and Other: not currently recommended but varieties where a market may exist. CDC ExPlus and HB08304 are hullless malting varieties. Also CDC ExPlus is a normal starch hullless barleys suitable for food use. Two row CDC PolarStar, HB08304 and six row BT584 and CDC Anderson varieties - insufficient data to describe. * - Varieties have limited data compared with AC Metcalfe. ☼ - Plant Breeder's Rights. ▲ - Plant Breeder's Rights applied for. † - Flagged for removal. 1 Awn types describe as R=rough, S=smooth and SS=semi-smooth. 2 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Metcalfe are reported in the Overall and Low, Medium, High and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 3 Yield are reported relative to AC Metcalfe. Varieties that are statistically higher (+) or lower (-) yielding than AC Metcalfe are indicated. No symbol after the yield figure indicates that there is no statistical difference. 4 Maturities rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long-term average days to maturity for AC Metcalfe is 95 days and rated as Medium maturing (M). 5 Thousand Seed Weight. 6 Resistance Ratings: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor. Varieties having a rating of Fair (F) or Poor (P) to loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for plant infection.

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BI: CDC, Dist: SeCan Members					Airth, Jock & Linda / Brooks / (403) 362-4372				C
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Stamp, Richard, M., Greg & Nathan / Enchant / (403) 739-2233			R		CDC MAYFAIR				
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CDC COALITION					Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456		S		
BI: CDC, Dist: Canterra Seeds					Eliason, Bruce W. / Wrentham / (403) 222-2258				R
Bright, David / New Norway / (780) 855-2240				C	Ellis, Brian / Olds / (403) 556-2890				C
Cameron, Danny / Millet / (780) 387-5313				R	Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				R
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Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736			R		Holmstrom, Darrell & Barbara / Killam / (780) 385-3574				R
Plante, Jacques / St. Paul / (780) 645-4604				C	Jensen, Albert / Drumheller / (403) 823-9976				C
Wutrich, David / Cecil Lake / (250) 781-3527		S	F		Knight, William, G., B., C. & Brian / Tees / (403) 784-3633				R
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Crop Production Services Canada / Didsbury / (403) 335-9171				R	Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736		S		R
Dallas, Bradley C. / Bowden / (403) 224-2162				C	Mueller, Darcy / Three Hills / (403) 820-4115				R
Dueck, Ralph E. & Brent / Olds / (403) 556-2602		S	F	R	Mueller, Donald A. / Three Hills / (403) 823-3177				C
Eliason, Bruce W. / Wrentham / (403) 222-2258			R	C	Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645		S		R C
Goldstrom, David / Innisfail / (403) 227-2133				C	Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		S		
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929				C	Oatway, Grant / Lacombe / (403) 784-3418				R C
Hallett, Dale R. / Carstairs / (403) 337-2469				C	Peters, Edward W. / Didsbury / (403) 335-4506				R
Kemp, Richard L. / Innisfail / (403) 227-4836				C	Shultz, Shawn / Didsbury / (403) 335-3694				R
Kopjar, Gerald M. / Rowley / (403) 368-2409				R	Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		S		R
Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240				C	Zwack, Thomas / Daysland / (780) 374-2450				R C
McNelly, Bevin / Clyde / (780) 348-5749			R		CDC POLAR STAR				
Meinczinger, Matthew Jr. / Busby / (780) 349-2456				C	BI: CDC, Dist: Canterra Seeds				
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				R	Canterra Seeds Ltd. / Winnipeg / (204) 988-9750			F	R C
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F		R	CDC THOMPSON				
Overwater, Anthony Paul / Didsbury / (403) 335-3055				C	BI: CDC, Dist: FP Genetics				
Peters, Edward W. / Didsbury / (403) 335-4506				R	Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Richards, Cliff & Dan / Sexsmith / (780) 766-2266				C	Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535				R
Selte, Donald / Vermilion / (780) 853-2484				C					
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R						

CDC TREY

BI: CDC, Dist: FP Genetics

Andersen, Ed. A. & Kathy & B.W. / Kitscoty / (780) 847-2022
Wood, Robert, P. & Marshall / Bowden / (403) 224-3928

R
S F R C

CDC YORKTON

BI: CDC, Dist: Canterra Seeds

Benci, Dennis / Carmangay / (403) 643-2294
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322

C
C

CERVEZA

BI: AAFC (Brandon), Dist: Mastin Seeds

Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500
Mastin, Robert B. / Sundre / (403) 556-2609

S F
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CHAMPION

BI: Viterra, Dist: Viterra

Schmermund, Donnie / Calahoo / (780) 967-2850
Viterra / Regina / (306) 569-5027

C
F R C

CHIGWELL

BI: AAFRD (Lacombe), Dist: SeCan Members

Anderson, Ken & Evelyn / Barrhead / (780) 674-5670
Benci, Dennis / Carmangay / (403) 643-2294
Crop Production Services Canada / Didsbury / (403) 335-9171
Dueck, Ralph E. & Brent / Olds / (403) 556-2602
Hadland, Edward / Baldonnel / (250) 789-3646
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517
Huvenaars, John & Lisa / Hays / (403) 725-2126
Mans, John / Nobleford / (403) 824-3585
Sim, Darwin & Derek / Ponoka / (780) 372-2111
Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535
Wagner, Terry & Loree / Lacombe / (403) 782-2107
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617
Webber, Curtis / Stony Plain / (780) 963-6897
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4026

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CONLON

BI: NDSU, Dist: Seed Depot

Airth, Jock & Linda / Brooks / (403) 362-4372
Welsh, Donald Alan / Milk River / (403) 647-2228

C
C

DUKE

BI: CDC, Dist: SeCan Members

Airth, Jock & Linda / Brooks / (403) 362-4372

C

FALCON

BI: AAF, Dist: N/A

Stickland, Melvin G., I & Brian / Red Deer / (403) 886-4875

R C

GADSBY

BI: AAFRD (Lacombe), Dist: SeCan Members

Oatway, Lori / Lacombe / (403) 784-3418
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617
Webber, Curtis / Stony Plain / (780) 963-6897

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LEGACY

BI: Busch Ag. Res., Dist: Viterra/FP Genetics

Wood, Robert, P. & Marshall / Bowden / (403) 224-3928

F C

MERIT 57

BI: Busch Ag. Res., Dist: Canterra Seeds

Kaun, Mark L. / Penhold / (403) 886-4562
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322
Sollick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358

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MUSKWA

BI: AAFRD (Lacombe), Dist: N/A

Logan, Glenn C., Marie & Douglas / Lomond / (403) 792-3696
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4026

S
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NEWDALE

BI: AAFC (Brandon), Dist: FP Genetics

Crop Production Services Canada / Didsbury / (403) 335-9171
Dalton, Dennis / Wainwright / (780) 842-2361
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268
King, Harold F. / Three Hills / (403) 443-7330
Markert Seeds Ltd. / Vulcan / (403) 485-6708
Sim, Darwin & Derek / Ponoka / (780) 372-2111
Sollick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358
Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253

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PONOKA

BI: AAFRD (Lacombe), Dist: SeCan Members

Anderson, Ken & Evelyn / Barrhead / (780) 674-5670
Freh, Herman R. / Colinton / (780) 675-4840
Gibson, Donald / Sangudo / (780) 785-2214
Hoff, Peter Edward / Gleichen / (403) 734-2140
McDonald, Gerald / Grande Prairie / (780) 538-3868
Metzger, Don / Three Hills / (403) 572-3284

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Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595
Persely, Edward & Shirley / Bonnyville / (780) 826-2992
Selte, Donald / Vermilion / (780) 853-2484
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617
Webber, Curtis / Stony Plain / (780) 963-6897

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SEEBE

BI: AAFRD (Lacombe), Dist: SeCan Members

Anderson, Ken & Evelyn / Barrhead / (780) 674-5670
Baier, Bill & Dean / Clyde / (780) 348-5791
Beamish, Dale / Jarvie / (780) 954-3960
Cross, Douglas / Westlock / (780) 349-2587
Freh, Herman R. / Colinton / (780) 675-4840
Meinczinger, Matthew Jr. / Busby / (780) 349-2456
Schmermund, Donnie / Calahoo / (780) 967-2850
Webber, Curtis / Stony Plain / (780) 963-6897

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SUNDRE

BI: AAFRD (Lacombe), Dist: Mastin Seeds

Crop Production Services Canada / Didsbury / (403) 335-9171
Cross, Douglas / Westlock / (780) 349-2587
Feenstra, Lloyd / Barons / (403) 757-3737
Gibson, Donald / Sangudo / (780) 785-2214
Hadland, Arthur Austin / Baldonnel / (250) 789-3566
Hallett, Dale R. / Carstairs / (403) 337-2469
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268
Jones, Greg Thomas / Ponoka / (403) 783-6495
Jonk, Nicholas / Westlock / (780) 349-5458
Kemp, Richard L. / Innisfail / (403) 227-4836
King, Harold F. / Three Hills / (403) 443-7330
Klassen, Ken / Rosemary / (403) 378-4408
Mastin, Robert B. / Sundre / (403) 556-2609
Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595
Richard, Gerald / Spirit River / (780) 864-4352
Schultz, Jason / Bashaw / (780) 372-2286
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322
Sim, Darwin & Derek / Ponoka / (780) 372-2111
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4026

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TROCHU

BI: AAFRD (Lacombe), Dist: SeCan Members

Crop Production Services Canada / Didsbury / (403) 335-9171
Kittle, James W. & Andrew / Viking / (780) 336-2583
Wagner, Terry & Loree / Lacombe / (403) 782-2107
Webber, Curtis / Stony Plain / (780) 963-6897

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VIVAR

BI: AAFRD (Lacombe), Dist: SeCan Members

Mans, John / Nobleford / (403) 824-3585
Sim, Darwin & Derek / Ponoka / (780) 372-2111
Webber, Curtis / Stony Plain / (780) 963-6897
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4026

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XENA

BI: Western Plant Breeders, Dist: Viterra

Schmermund, Donnie / Calahoo / (780) 967-2850
Viterra / Regina / (306) 569-5027

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Recommended Malting Barley Varieties 2012-13

THESE recommendations are based on the varieties expected to be selected by grain and malting companies for both domestic and export markets from the 2012 harvest. Seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators and malting companies. This list is published on behalf of the members of the CMBTC, and other companies that have provided their input. Varieties not listed are not recommended. The varieties are listed in descending order to the amount selected in 2011.

RECOMMENDED TWO-ROW BARLEY VARIETIES

VARIETY	DOMESTIC	EXPORT	MARKET DEMAND
AC METCALFE ⁴	ESTABLISHED	ESTABLISHED	STABLE DEMAND
CDC COPELAND ⁴	ESTABLISHED	ESTABLISHED	STABLE DEMAND
CDC POLARSTAR ^{5**}	LIMITED	LIMITED	STABLE DEMAND
NEWDALE ³	ESTABLISHED	LIMITED	STABLE DEMAND
CDC MEREDITH ⁴	LIMITED	LIMITED	INCREASING DEMAND

BENTLEY, MAJOR, MERIT 57, NORMAN, CERVEZA, CDC KINDERSLEY AND CDC RESERVE ARE NOT YET BEING GROWN FOR THE COMMERCIAL MARKET. PRODUCTION IS LIMITED TO QUANTITIES REQUIRED FOR TESTING AND MARKET DEVELOPMENT. **CDC POLARSTAR IS AVAILABLE ONLY THROUGH A CLOSED LOOP IDENTITY PRESERVED PROGRAM OFFERED BY PRAIRIE MALT LIMITED/SAPPORO BREWERIES AND THEIR AGENTS.

RECOMMENDED SIX-ROW BARLEY VARIETIES

VARIETY	DOMESTIC	EXPORT	MARKET DEMAND
LEGACY ^{1,2,3}	ESTABLISHED	ESTABLISHED	STABLE DEMAND
STELLAR-ND ⁵	LIMITED	LIMITED	STABLE DEMAND
TRADITION ^{1,2,3}	ESTABLISHED	ESTABLISHED	DECLINING DEMAND

INNOVATION, CDC MAYFAIR AND CDC ANDERSON ARE NOT YET BEING GROWN FOR THE COMMERCIAL MARKET. PRODUCTION IS LIMITED TO QUANTITIES REQUIRED FOR TESTING AND MARKET DEVELOPMENT. CELEBRATION REACHED CAPACITY FOR PLANT SCALE TESTING IN 2010. PLEASE TALK TO YOUR LOCAL MALTING COMPANY SELECTOR IN REGARDS TO DEMAND FOR CDC BATTLEFORD, LACEY AND ROBUST.

The CMBTC recommends the use of Certified seed to ensure varietal purity and to increase opportunity for selection.

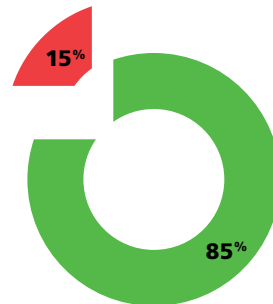
The following companies have pedigreed seed distribution rights for those varieties that are footnoted: 1-Viterra; 2- BARI-Canada; 3 – FP Genetics; 4 - SeCan; 5 – CANTERRA SEEDS

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

Questions? Call you selector, seed company, grain handling company, the Canadian Wheat Board or contact the CMBTC at (204) 984-4399 (cmbtc@cmbtc.com).

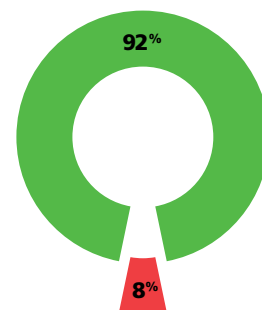
VARIETIES SELECTED FOR EXPORT
(FIVE YEAR AVERAGE)
1,000,000 TONNES DELIVERED

• TWO-ROW • SIX-ROW



VARIETIES SELECTED FOR DOMESTIC
(FIVE YEAR AVERAGE)
960,000 TONNES DELIVERED
365,000 TONNES TO DOMESTIC BREWERS

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OATS

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% CDC Dancer)				Agronomic Characteristics				Resistance ⁵	
			Low <70 (bu/ac)	Medium 70-100 (bu/ac)	High 100-130 (bu/ac)	V. High >130 (bu/ac)	Mat. Rating ³	Test Wt. (lb/bu)	TSW ⁴ (g)	Ht. (cm)	Ldg. ⁵	Smuts ⁵
MILLING												
CDC Dancer (bu/ac)	95		50	86	116	146						
CDC Dancer ²	100	(98)	100	100	100	100	E	41	37	93	G	VG
AC Juniper	103+	(80)	100	102	105+	103	E	41	38	94	VG	F
AC Morgan	112+	(93)	109+	112+	110+	118+	M	40	41	92	VG	F
Bradley ▲	104+	(31)	XX	103	108	106	E	39	39	92	VG	VG
Cascade	102+	(159)	103	102	102	101	E	39	37	100	G	VP
CDC Big Brown ☉	106+	(21)	XX	105	XX	110+	M	41	39	100	G	VG
CDC Boyer	102	(89)	103	103	100	105	M	39	42	101	G	P
CDC Minstrel ☉	103+	(51)	99	103+	103	105+	M	39	38	89	VG	VG
CDC Orrin ☉	109+	(52)	113+	107+	107+	XX	M	41	40	84	G	VG
CDC ProFi †	93-	(30)	98	94-	94	87-	M	38	41	80	G	P
CDC Weaver ☉	104	(44)	108+	103	100	100	M	40	43	91	F	VG
Derby	101	(79)	103	102	96-	105	L	41	39	103	G	P
Jordan ☉	112+	(36)	112+	109+	117+	XX	VL	38	44	87	G	VG
Leggett ☉	95-	(40)	97	93	93-	XX	M	41	39	88	G	VG
Ronald ☉	97-	(55)	98	92	98	101	M	41	37	83	VG	VG
SW Betania ☉ †	102	(43)	106+	104	97	XX	E	40	39	88	G	G
Triactor ☉	110+	(43)	109	106+	114+	110+	M	38	39	88	G	VG
FEED												
AC Mustang *	114+	(104)	119+	112+	110+	117+	L	42	38	103	G	F
Lu *	100	(54)	99	98	99	110	VE	41	39	84	G	VG
FORAGE												
CDC Baler *	99	(42)	97	106	96	XX	L	40	43	99	XX	VP
Murphy ☉ *	95-	(51)	93	96	97	94	M	39	36	108	XX	VP

REMARKS: Use higher seeding rates for large seeded varieties. CDC Seabiscuit and OT 2069—insufficient data to describe. New varieties: CDC Seabiscuit (OT 3036) and CDC Morrison (OT 3044). ☉ - Plant Breeder's Rights. ▲ - Plant Breeder's Rights applied for. † - Flagged for removal. * These varieties have limited data compared to CDC Dancer and yields have been adjusted to CDC Dancer from Cascade. ¹ Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields (bu/ac) for CDC Dancer are reported in the Overall and Low, Medium, High, and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. ² Yields are reported relative to CDC Dancer. Varieties that are statistically higher (+) or lower (-) yielding than CDC Dancer are indicated. No symbol after the yield figure indicates that there is no statistical difference. ³ Maturities rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average days to maturity for CDC Dancer is 98 days and rated as Early maturing (E). ⁴ Thousand Seed Weight. ⁵ Resistance to Ldg. and Smuts Ratings: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor.

OATS

AC JUNIPER

BI: Viterra, Dist: Mastin Seeds

- Bell, D. Leslie / Drumheller / (403) 823-9462
- Hadland, Edward / Baldonnel / (250) 789-3646
- Mastin, Robert B. / Sundre / (403) 556-2609
- Tolway, Wilfred / Clairmont / (780) 567-2422

AC MORGAN

BI: AAFC (Lacombe), Dist: SeCan Members

- Anderson, Ken & Evelyn / Barrhead / (780) 674-5670
- Bright, David / New Norway / (780) 855-2240
- Corns, Bryan & Gary / Grassy Lake / (403) 655-2464
- Degenhardt, Keith L., Terry L. & K. / Hughenden / (780) 856-2383
- Graham, Lawrence W. / Innisfail / (403) 227-2336
- Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268
- Hegland, David Olaf / Wembley / (780) 766-2450
- Hill, Gordon P. / Taylor / (250) 789-3469
- Jonk, Nicholas / Westlock / (780) 349-5458
- Kemp, Richard L. / Innisfail / (403) 227-4836
- Klassen, Ken / Rosemary / (403) 378-4408
- Knight, William, G., B., C. & Brian / Tees / (403) 784-3633
- McDonald, Gerald / Grande Prairie / (780) 538-3868
- Meinczinger, Matthew Jr. / Busby / (780) 349-2456
- Miller, Brian / Barrhead / (780) 674-5001
- Richard, Gerald / Spirit River / (780) 864-4352
- Selte, Donald / Vermilion / (780) 853-2484
- Smith, Gary W. / Eckville / (403) 746-5878
- Warkentin, Harold K. & Errol / Tofield / (780) 662-2617
- Webber, Curtis / Stony Plain / (780) 963-6897

AC MUSTANG

BI: AAFC (Lacombe), Dist: Mastin Seeds

- Crop Production Services Canada / Didsbury / (403) 335-9171
- Hadland, Edward / Baldonnel / (250) 789-3646
- Hallett, Dale R. / Carstairs / (403) 337-2469
- Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268
- Jonk, Nicholas / Westlock / (780) 349-5458

S F R C



2011 Regional Variety trials were conducted for oats at the sites indicated on the map above.

Lyster, Norman / Stettler / (403) 742-4456	S	R	
Markert Seeds Ltd. / Vulcan / (403) 485-6708			C
Mastin, Robert B. / Sundre / (403) 556-2609	F	R	
Richard, Gerald / Spirit River / (780) 864-4352			C
Tolway, Wilfred / Clairmont / (780) 567-2422			C
BRADLEY			
BI: N/A, Dist: N/A			
Holmstrom, Darrell & Barbara / Killam / (780) 385-3574	S		
CDC BALER			
BI: CDC, Dist: FP Genetics			
Crop Production Services Canada / Didsbury / (403) 335-9171			C
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268			C
Sand, Ron W. & D. R. / McLaughlin / (780) 745-2252			C
Sim, Darwin & Derek / Ponoka / (780) 372-2111	F		
Wood, Robert, P. & Marshall / Bowden / (403) 224-3928	S	F	R
CDC MINSTREL			
BI: CDC, Dist: FP Genetics			
Benci, Dennis / Carmangay / (403) 643-2294			R
Sand, Ron W. & D. R. / McLaughlin / (780) 745-2252			F
CDC NASSER			
BI: CDC, Dist: N/A			
Sand, Ron W. & D. R. / McLaughlin / (780) 745-2254			C
CDC SO-I			
BI: CDC, Dist: N/A			
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268			C
Logan, Glenn C., Marie & Douglas / Lomond / (403) 792-3696	S		
DERBY			
BI: N/A, Dist: N/A			
Mastin, Robert B. / Sundre / (403) 556-2609	S	F	
Richard, Gerald / Spirit River / (780) 864-4352			R

FOOTHILL			
BI: N/A, Dist: N/A			
Degenhardt, Keith L., Terry L. & K. / Hughenden / (780) 856-2383			R
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617			C
JORDAN			
BI: AAFC (Winnipeg), Dist: SeCan Members			
Jones, Greg Thomas / Ponoka / (403) 783-6495			F
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788			F
LU			
BI: AAFC (Lacombe), Dist: SeCan Members			
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617	S	F	
MURPHY			
BI: AAFC (Lacombe), Dist: SeCan Members			
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617	S	F	C
Webber, Curtis / Stony Plain / (780) 963-6897			R
TRIACTOR			
BI: SW Seed Ltd., Dist: Canterra Seeds			
Kapitski, Lawrence / Andrew / (780) 365-2134			R
Laliberte, Adam & Vos, Henry / Fairview / (780) 835-3003			F
Plante, Jacques / St. Paul / (780) 645-4604			C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322			C
Wuthrich, David / Cecil Lake / (250) 781-3527	S	F	C
WALDERN			
BI: AAFC (Lacombe), Dist: SeCan Members			
Richard, Gerald / Spirit River / (780) 864-4352			C
Selte, Donald / Vermilion / (780) 853-2484			C

FALL RYE

Variety	Overall Yield (% Prima)	Station Years of Testing	Yield Test Category ¹ (% Prima)				Agronomic Characteristics						
			Low <48 (bu/ac)	Medium 48-80 (bu/ac)	High 80-112 (bu/ac)	V. High >112 (bu/ac)	Winter Survival ³	Mat. Rating ⁴	Ht. (cm)	Ldg. Resi. ³	Shat Res. ³	Test Wt. (lb/bu)	TSW ⁴ (g)
Prima (bu/ac)	80		36	60	93	139							
Prima ²	100	(79)	100	100	100	100	EX	E	119	F	F	58	33
AC Remington	101	(31)	120	100	98	88 -	EX	M	97	G	VG	57	30
AC Rifle	101	(79)	114	106	97	87 -	EX	E	87	VG	VG	57	30
Dakota	120 +	(45)	120 +	123 +	116 +	XX	EX	M	111	F	XX	56	34
Hazlet	119 +	(22)	XX	128 +	XX	106	EX	M	105	G	XX	58	39
Musketeer	91 -	(40)	88 -	92	93	93	EX	M	120	F	F	56	33

REMARKS: The provincial average maturity date for Prima is August 3 (215 days after January 1). AC Rifle and AC Remington are semi-dwarf varieties. Hazlet has lower viscosity which improves feed performance in monogastric livestock. No data for fall rye variety performance were collected during 2009-2011. ¹ Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields (bu/ac) for Prima. ² All yields are reported relative to Prima. Varieties that are statistically higher (+) or lower (-) yielding than Prima are indicated. No symbol after the yield figure indicates that there is no statistical difference. ³ Ratings for Winter Survival, Ldg. Resistance, and Shattering Resistance: VP=Very Poor, P=Poor, F=Fair, G=Good, VG=Very Good. ⁴ Maturity Ratings: VE=Very Early, E= Early, M=Medium, L=Late, VL=Very Late.



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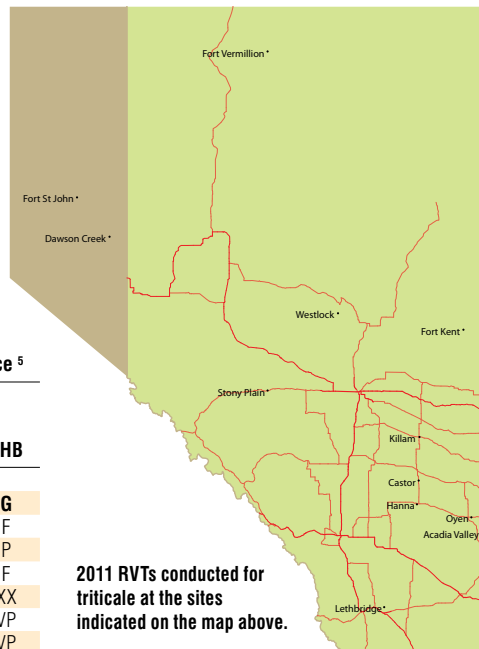
RYE			
AC REMINGTON			
BI: AAFC (Swift Current), Dist: Canterra Seeds			
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464			C
MUSKETEER			
BI: AAFC (Swift Current), Dist: SeCan Members			
Degenhardt, Keith L., Terry L. & K. / Hughenden / (780) 856-2383			R
PRIMA			
BI: AAFC (Swift Current), Dist: SeCan			
Shultz, Shawn / Didsbury / (403) 335-3694			C
Weigum, Garry / Three Hills / (403) 443-2476			C

SPRING TRITICALE

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% Pronghorn)			
			Low <60 (bu/ac)	Medium 60-80 (bu/ac)	High 80-110 (bu/ac)	V. High >110 (bu/ac)
Pronghorn (bu/ac)	88		48	76	104	138
Pronghorn ²	100	(225)	100	100	100	100
AC Ultima	100	(166)	101	100	99	101
Bumper ☼	102	(37)	111+	XX	98	92-
Bunker ☼	90-	(49)	89-	94	87-	92-
Companion	92-	(50)	94-	97	85-	89-
Sunray	94-	(26)	95-	XX	93-	XX
Taza ▲	96-	(26)	94	XX	96	XX
Tyndal ☼	101	(53)	106	101	96	95-

Variety	Mat. Rating ³	Test Weight (lb/bu)	TSW ⁴ (g)	Ht. (cm)	Resistance to: ⁵			Loose Smut	Bunt	FHB
					Ldg.	Shat.	Sprout.			
Pronghorn (bu/ac)	M	55	43	101	G	G	F	VG	VG	G
Pronghorn ²	M	55	43	101	G	G	F	VG	VG	G
AC Ultima	E	56	45	97	G	G	F	VG	VG	F
Bumper ☼	E	58	45	89	VG	G	F	XX	VG	P
Bunker ☼	VL	57	48	107	F	G	F	VG	VG	F
Companion	M	55	51	116	XX	XX	XX	VG	VG	XX
Sunray	E	56	44	91	VG	G	F	VG	VG	VP
Taza ▲	M	57	45	99	G	G	F	VG	VG	VP
Tyndal ☼	L	57	44	97	G	G	P	VG	VG	P

REMARKS: All varieties are late maturing compared to CWRS wheat (approximately five days later). Companion is a forage type. Bunker, Taza and Tyndal are reduced-awn varieties. T200 - insufficient data to describe. Pronghorn yields about 30% more than AC Barrie (CWRS wheat) in areas of adaptation. New varieties: Sunray (T204) and Taza (T198). ☼ - Plant Breeder's Rights. ▲ - Plant Breeder's Rights applied for. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for Pronghorn are reported in the Overall and Low, Medium, High and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to Pronghorn. Varieties that are statistically higher (+) or lower (-) yielding than Pronghorn are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturities rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average days to maturity for Pronghorn is 112 days and rated as Medium maturing (M). 4 Thousand Seed Weight. 5 Resistance Ratings: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor. Varieties having a rating of Fair (F) or Poor (P) to loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for plant infection.



2011 RVTs conducted for triticale at the sites indicated on the map above.

WINTER TRITICALE

Variety	Overall Yield ¹ (% Pika)	Station Years of Testing	Winter Survival ³	Maturity Rating ⁴	Ht. (cm)	Ldg. Resistance ³	Test Weight (lb/bu)	TSW ⁴ (g)	Agronomic Characteristics		
Pika (bu/ac)	73										
Pika ²	100	(42)	VG	L	119	VP	54	38			
Bobcat	94	(40)	F	VL	99	G	54	36			
Luoma	105	(14)	VG	VL	118	F	54	39			
Metzger	102	(14)	VG	L	107	G	54	35			
CDC OSPREY (W. Wheat)	111 +	(28)	VG	M	88	G	64	32			

REMARKS: The provincial average maturity date for Pika is August 12 (224 days after January 1) or about a week later than winter wheat. Winter triticale has a winter hardiness potential slightly lower than winter wheat. Bobcat, Luoma and Metzger have heads with reduced awn length (awnletted), making them more palatable in forage applications. No data for winter triticale variety performance were collected during 2009-2011. 1 The actual yields (bu/ac) for Pika are reported. Note that small plot yields may be 10-15% higher than field scale results. 2 All yields are reported relative to Pika. Varieties that are statistically higher (+) or lower (-) yielding than Pika are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Ratings for Winter Survival and Ldg. Resistance: VP=Very Poor, P=Poor, F=Fair, G=Good, VG=Very Good. 4 Maturity Ratings: VE=Very Early, E=Early, M=Medium, L=Late, VL=Very Late.

TRITICALE SPRING

	S	F	R	C
BUMPER				
BI: CIMMYT, Dist: AAFC (Lacombe) Kittle, James W. & Andrew / Viking / (780) 336-2583				F
BUNKER				
BI: AAFRD (Lacombe), Dist: FP Genetics Airth, Jock & Linda / Brooks / (403) 362-4372 Markert Seeds Ltd. / Vulcan / (403) 485-6708 Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358				F C F R C
PRONGHORN				
BI: AARD Dist: Not Assigned Corns, Bryan & Gary / Grassy Lake / (403) 655-2464 Mans, John / Nobleford / (403) 824-3585 Webber, Curtis / Stony Plain / (780) 963-6897				S F C C
SUNRAY				
BI: N/A, Dist: N/A Markert Seeds Ltd. / Vulcan / (403) 485-6708				S
TAZA				
BI: AAFRD (Lacombe), Dist: Solick Seeds Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358				S F
TYNDAL				
BI: AAFRD (Lacombe), Dist: SeCan Members Corns, Bryan & Gary / Grassy Lake / (403) 655-2464 Fabian, Patrick V. / Tilley / (403) 377-2000				R R

TRITICALE WINTER

	S	F	R	C
BOBCAT				
BI: AAFC (Swift Current), Dist: Corns Brothers Farms Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
FRIDGE				
BI: N/A, Dist: N/A Fabian, Patrick V. / Tilley / (403) 377-2000				R
LUOMA				
BI: AARD (Lacombe), Dist: Corns Brothers Farms Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				R
METZGER				
BI: AAFRD (Lacombe), Dist: Haney Farms Ltd. Haney Farms (1985) Limited / Picture Butte / (403) 738-4517 McNaughton, Brian / Lethbridge / (403) 308-9914				S R
PIKA				
BI: AFC, Dist: N/A Airth, Jock & Linda / Brooks / (403) 362-4372 Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				R C

DURUM

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% Strongfield)			Agronomic Characteristics					Disease Resistance ⁵						
			Low <45 (bu/ac)	Medium 45-75 (bu/ac)	High >75 (bu/ac)	Mat. Rating ³	Test Wt. (lb/bu)	TSW ⁴ (g)	Ht. (cm)	Resistance to: ⁵			Loose Smut	Stripe Rust	Leaf Spot	FHB	
										Ldg.	Shat.	Sprout.					
CANADA WESTERN AMBER DURUM																	
Strongfield (bu/ac)	64		35	61	95												
Strongfield ² ☼	100	(94)	100	100	100	M	63	45	85	F	VG	F	VP	G	G	P	VP
AC Avonlea ☼	98	(60)	103	92-	100	M	63	44	90	F	G	F	VP	VG	F	P	P
AC Morse ☼	91-	(67)	95-	89-	93-	E	61	44	84	F	G	F	VP	VG	G	VP	VP
AC Navigator ☼	95-	(65)	102	93-	92-	M	63	45	77	G	G	G	VP	VG	VG	VP	VP
Brigade ☼	104+	(45)	101	105+	103	L	64	48	88	G	XX	F	P	G	G	F	P
CDC Verona ☼	102	(35)	99	105+	99	M	63	47	81	G	XX	F	P	G	VG	P	P
Commander ☼ †	103	(39)	XX	105	100	M	62	45	78	VG	VG	F	F	VG	F	P	VP
Enterprise ▲	102	(35)	102	101	103	M	64	45	82	G	XX	F	P	G	VG	G	P
Eurostar ☼	102	(45)	103	103	100	L	64	47	88	G	XX	F	P	VG	VG	F	P
Kyle	88-	(123)	90-	89-	85-	M	62	44	99	P	G	F	VP	VG	VG	P	P
Transcend ▲	100	(24)	97	101	101	M	63	50	89	F	XX	F	VP	VG	VG	F	P

REMARKS: Generally durum wheat should only be grown in south and southeastern portion of Alberta due to late maturity. Outside these areas, durum is late maturing and subject to quality loss. All durum varieties are susceptible to two new races of loose smut and are generally more susceptible than CWRS varieties to FHB. Strongfield yields about 10% higher than AC Barrie in areas of best adaptation. AC Navigator, Brigade, Commander and Eurostar have stronger gluten and grown under contract. New varieties: Transcend (DT801). ☼ - Plant Breeder's Rights. ▲ - Plant Breeder's Rights applied for. † - Flagged for removal. XX - insufficient data to describe. ¹ Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for Strongfield are reported in the Overall and Low, Medium and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. ² Yields are reported relative to Strongfield. Varieties that are statistically higher (+) or lower (-) yielding than Strongfield are indicated. No symbol after the yield figure indicates that there is no statistical difference. ³ Maturities rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average days to maturity for Strongfield is 105 days and rated as Medium maturing (M). ⁴ Thousand Seed Weight. ⁵ Resistance Ratings: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor. Varieties having a rating of Fair (F) or Poor (P) to loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for plant infection.

WHEAT - DURUM

AC NAVIGATOR

BI: AAFC (Swift Current), Dist: Viterra
Viterra / Regina / (306) 569-5027

BRIGADE

BI: AAFC (Swift Current), Dist: Viterra
Viterra / Regina / (306) 569-5027

CDC VERONA

BI: CDC, Dist: Alliance Seed Corporation
Fabian, Patrick V. / Tilley / (403) 377-2000
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338
Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736
Nikkel, Ed / Lethbridge / (403) 792-2116
Nikkel, John Jr. / Coaldale / (403) 345-4963
Van Roessel, William & Jean / Bow Island / (403) 545-6018
Wiens, David Paul / Lomond / (403) 739-3762
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434
Willms, Kevin J. / Grassy Lake / (403) 655-2450

ENTERPRISE

BI: AAFC (Swift Current), Dist: Canterra Seeds
Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736
Welsh, Donald Alan / Milk River / (403) 647-2228

HALLMARK

BI: N/A, Dist: N/A
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517

S	F	R	C
S	F	R	C
S	F		C
			C
		R	C
		R	C
			C
S			C
			C
			C
S			C
S	F		C
		R	
		R	
			C

STRONGFIELD

BI: AAFC (Swift Current), Dist: SeCan Members

Benci, Dennis / Carmangay / (403) 643-2294
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338
Markert Seeds Ltd. / Vulcan / (403) 485-6708
Strain, Arthur George / Foremost / (403) 867-2227
Welsh, Donald Alan / Milk River / (403) 647-2228
Willms, Kevin J. / Grassy Lake / (403) 655-2450

TRANSCEND

BI: AAFC (Swift Current), Dist: N/A

Markert Seeds Ltd. / Vulcan / (403) 485-6708

S	F	R	C
		F	C
			C
			C
			C
		R	C
			C
			C
			C
			C
			C
		F	R
S	F		



2011 Regional Variety Trials were conducted for durum at the sites indicated above.

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CPS AND GENERAL PURPOSE WHEAT

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% AC Taber)			Agronomic Characteristics							Disease Resistance ⁵					
			Low <45 (bu/ac)	Med. 45-90 (bu/ac)	High >90 (bu/ac)	Mat. Rating ³	Protein (%)	Test Wt. (lb/bu)	TSW ⁴ (g)	Ht. (cm)	Resistance to: ⁵			Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
			Ldg.	Sprout.														
CANADA PRAIRIE SPRING - RED																		
AC Taber (bu/ac)	71		37	68	109													
AC Taber ²	100	(297)	100	100	100	L	12.3	62	42	79	G	P	P	VG	VP	F	VP	
5700PR ☉	102+	(117)	105	101	103+	M	0.4	62	42	75	VG	F	P	G	P	P	VP	
5701PR ☉	101	(91)	101	101	94-	M	0.4	60	43	77	G	P	F	F	G	P	VP	
5702PR ☉	101	(52)	113	99	98	M	0.4	61	40	79	G	P	P	F	P	F	P	
AC Crystal ☉	99	(230)	97-	98-	102	L	0.3	62	43	79	G	P	F	VG	VP	F	VP	
AC Foremost	98-	(124)	99	97-	100	M	XX	62	43	73	VG	F	F	VG	VP	P	VP	
Conquer VB ☉	133+	(29)	XX	140+	106	M	XX	63	42	84	G	P	P	G	VG	F	P	
SY985 ▲	126+	(29)	XX	131+	94	M	XX	62	44	79	G	F	VG	G	XX	F	F	
CANADA WESTERN GENERAL PURPOSE																		
CDC NRG003 ☉	135+	(29)	XX	142+	106	M	XX	61	43	81	G	F	G	VG	XX	VP	VP	
Minnedosa ☉	120+	(45)	121	124+	102	M	XX	62	42	83	G	G	F	G	G	P	P	
NRG010 ☉	129+	(43)	XX	133+	106	L	XX	62	41	83	G	P	VG	VG	VG	P	VP	

REMARKS: Caution should be taken interpreting the data because AC Taber performed poorly in 2011 causing yield values for some new varieties to be unexpectedly high. CPS varieties are more susceptible to take-all root rot than other wheat classes. AC Taber yields about 20% higher than AC Barrie. AC Crystal, 5700PR, 5701PR and 5702PR have improved quality compared to AC Foremost and AC Taber. 5700PR is grown under contract. Conquer VB is the only CPS-red midge tolerant variety using the "Sm 1" gene. Varieties in the General Purpose market class are intended for ethanol and livestock feed purposes. ☉ - Plant Breeder's Rights. ▲ - Plant Breeder's Rights applied for. XX - insufficient data to report. New varieties: Conquer VB (HY682); NRG010 (GP010), CDC NRG003 (GP003) and SY985 (HY985). 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Taber are reported in the Overall and Low, Medium and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to AC Taber. Varieties that are statistically higher (+) or lower (-) yielding than AC Taber are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturities rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average days to maturity for AC Taber is 108 days and rated as Late maturing (L). 4 Thousand Seed Weight. 5 Resistance Ratings: VG - Very Good; G - Good; F - Fair; P - Poor and VP - Very Poor. Varieties having a rating of Fair (F) or Poor (P) to loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for plant infection.

SOFT WHITE SPRING WHEAT

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% AC Andrew)			Agronomic Characteristics							Disease Resistance ⁵					
			Low <55 (bu/ac)	Med. 55-85 (bu/ac)	High >85 (bu/ac)	Maturity Rating ³	Protein (%)	Test Wt. (lb/bu)	TSW ⁴ (g)	Ht. (cm)	Resistance to: ⁵			Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
			Ldg.	Shat	Sprout													
AC Andrew (bu/ac)	83		44	74	115													
AC Andrew ²	100	(117)	100	100	100	L	11.5	62	38	79	VG	VG	P	VP	P	F	G	VP
AC Meena	97 -	(51)	101	97-	95	L	-0.6	61	37	80	G	G	F	VP	VP	G	F	P
Bhishaj	100	(24)	XX	99	103	L	XX	62	37	85	VG	VG	F	G	VP	G	F	VP
Sadash ☉	110 +	(51)	113+	109+	109+	L	-0.4	63	39	82	VG	VG	P	VP	VP	VG	F	P

REMARKS: All soft white spring wheat varieties have a semi-dwarf stature. AC Andrew yields about 35% more than AC Barrie. SWS varieties may have potential demand as a feedstock in the production of ethanol. Soft white spring wheat is susceptible to pre-harvest sprout. ☉ - Plant Breeder's Rights. XX - insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Andrew reported in the Overall and Low, Medium and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to AC Andrew. Varieties that are statistically higher (+) or lower (-) yielding than AC Andrew are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturities rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average days to maturity for AC Andrew is 110 days rated as Late maturing (L). 4 Thousand Seed Weight. 5 Resistance Ratings: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor. Varieties having a rating of Fair (F) or Poor (P) to loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for plant infection.

EXTRA STRONG SPRING WHEAT

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% Amazon)			Agronomic Characteristics							Disease Resistance ⁵				
			Low <50 (bu/ac)	Med. 50-90 (bu/ac)	High >90 (bu/ac)	Mat. Rating ³	Test Weight (lb/bu)	TSW ⁴ (g)	Ht. (cm)	Resistance to: ⁵			Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
			Ldg.	Shat	Sprout												
Amazon (bu/ac)	58		38	64	86												
Amazon ² ☉ †	100	(154)	100	100	100	L	61	46	97	G	G	P	VG	F	F	F	P
Bluesky †	99	(59)	97	99	103	E	61	44	96	F	G	P	XX	XX	P	P	P
CDC Rama †	108 +	(60)	107+	107+	XX	L	63	48	97	F	G	G	VG	G	G	P	F
Laser †	97	(59)	90 -	98	103	E	61	39	88	VG	G	F	VG	VP	XX	P	VP

REMARKS: Extra strong spring varieties have limited market potential. ☉ - Plant Breeder's Rights. XX - insufficient data to describe. † - Flagged for removal. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for Amazon are reported in the Overall and Low, Medium and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to Amazon. Varieties that are statistically higher (+) or lower (-) yielding than Amazon are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturity rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average days to maturity for Amazon is 110 days and rated as Medium maturing (M). 4 Thousand Seed Weight. 5 Resistance Ratings: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor. Varieties having a rating of Fair (F) or Poor (P) to loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for plant infection.

SPRING WHEAT

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% AC Barrie)			Agronomic Characteristics						Disease Resistance ⁵					
			Low <45 (bu/ac)	Medium 45-70 (bu/ac)	High >70 (bu/ac)	Mat. Rating ³	Prot. (%)	Test Wt. (lb/bu)	TSW ⁴ (g)	Ht. (cm)	Resistance to: ⁵		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
											Ldg.	Spout.					
CANADA WESTERN RED SPRING																	
AC Barrie (bu/ac)	59		36	55	79												
AC Barrie ² ☼	100	(357)	100	100	100	M	13.3	62	37	88	G	G	G	F	VP	P	F
5602HR ☼	105+	(80)	101	104	109+	M	0.5	63	37	91	G	F	VG	G	F	F	G
5603HR ☼	105+	(50)	103	107+	104+	L	-0.3	63	34	87	G	VG	G	G	P	F	F
5604HR CL ☼	100	(49)	106	99	99	M	-0.1	63	33	87	G	G	VG	VG	XX	P	G
AC Cadillac ☼	96-	(103)	96-	96-	96-	M	0.2	64	39	98	F	F	VG	VG	G	F	F
AC Eatonia ☼	94-	(78)	87-	97	92-	M	-0.1	62	35	92	P	G	F	G	F	P	XX
AC Elsa v	103+	(110)	99	105	104	M	-0.4	62	35	89	G	F	G	F	F	G	P
AC Intrepid ☼	102	(107)	98	103	105+	E	-0.5	62	39	90	G	P	F	G	F	G	P
AC Splendor	95-	(151)	92-	95-	98	VE	0.4	61	37	89	F	F	F	F	F	F	P
Alikat	96-	(70)	95-	95-	98	E	-0.4	63	36	87	F	F	G	XX	VP	P	F
Alvena ☼	101	(68)	100	101	103	E	0.4	63	37	90	G	P	G	G	F	XX	P
Carberry ☼	107+	(49)	117+	104	105	L	0.2	63	38	79	VG	F	G	G	F	G	P
CDC Abound ☼ CL	110+	(84)	108+	109+	112+	M	0.1	63	40	82	G	F	F	F	P	P	P
CDC Alask ☼	107+	(102)	105+	107+	109+	M	0.1	62	36	92	F	G	G	G	F	P	P
CDC Bounty	104+	(65)	101	106+	103	M	-0.4	64	37	94	F	F	G	F	G	P	F
CDC Go	111+	(88)	103	111+	117+	M	0.2	61	42	83	G	VP	P	G	G	P	P
CDC Imagine ☼ CL	104+	(76)	102	104	109+	M	-0.2	61	37	83	G	F	G	G	F	P	VP
CDC Kernen ▲	108+	(49)	111	103	110+	M	0.4	63	38	92	G	F	VG	F	F	F	F
CDC Osler	106+	(70)	103	106	109+	E	0.0	61	35	85	G	F	G	G	F	F	VP
CDC Stanley ▲	114+	(49)	116+	112+	113+	M	-0.1	63	33	85	G	G	G	VP	XX	F	P
CDC Teal	100	(86)	94-	102	101	E	-0.2	62	36	90	G	P	F	F	G	P	VP
CDC Thrive ▲ CL	109+	(49)	110	107	110+	E	0.3	63	36	88	G	P	G	F	F	F	P
CDC Utmost VB ▲	113+	(49)	116+	112+	111+	M	0.3	62	35	85	G	G	P	VP	F	F	P
Fieldstar VB ☼	102	(50)	102	102	102	M	-0.3	63	33	88	F	VG	F	G	P	XX	F
Glenn ☼	104	(49)	112+	100	104	L	0.4	65	37	85	VG	F	F	F	G	F	F
Goodeve VB ☼	106+	(84)	109+	104	104	M	0.3	62	37	88	VG	G	G	P	F	P	VP
Harvest ☼	102	(114)	98	103	104	M	0.1	62	37	83	VG	VG	G	F	G	P	VP
Infinity ☼	104+	(70)	104	104+	106	M	-0.3	62	33	89	G	G	G	F	P	P	VP
Journey	99	(69)	95	101	99	M	0.6	62	36	83	VG	G	F	G	F	P	P
Kane ☼	99	(51)	95-	98	102	M	0.1	64	36	85	G	VG	P	F	F	F	F
Katepwa	98	(301)	98	99	98	M	-0.1	62	35	93	F	F	G	G	P	P	F
Lillian ☼	105+	(83)	111+	100	104	M	-0.1	61	37	86	G	G	F	G	VG	P	VP
Lovitt ☼	97	(37)	96	95-	105	M	-0.3	62	35	89	G	VG	G	F	P	XX	VP
McKenzie	103+	(104)	101	104	105+	M	-0.9	62	34	90	F	VG	P	VG	P	F	F
Muchmore ☼	111+	(49)	121+	106	110	L	0	63	37	74	VG	G	G	G	G	P	P
Park	97	(45)	91-	98	102	VE	0.0	62	35	92	F	G	G	XX	P	P	VP
Peace	100	(53)	100	97	103	M	0.2	63	37	92	G	P	VG	VG	G	XX	VP
Prodigy †	104+	(84)	102	104	103	M	0.3	63	35	94	G	F	F	G	F	P	VP
Roblin	95-	(82)	91-	97	95-	VE	0.1	62	36	87	G	F	G	VP	F	VP	VP
Shaw VB ☼	113+	(49)	117+	109+	113+	M	0.2	63	37	92	G	G	P	G	XX	P	P
Somerset ☼	100	(50)	102	99	100	M	-0.2	62	36	97	G	F	VG	F	F	P	P
Stettler ☼	112+	(67)	120+	109+	111+	M	0.4	63	37	84	G	G	G	G	G	P	P
Superb ☼	112+	(177)	110+	111+	115+	L	-0.2	62	42	85	G	F	F	G	VP	P	P
Unity VB ☼	111+	(67)	112+	110+	111+	M	-0.4	64	36	90	G	G	P	VG	P	P	P
Vesper VB ▲	107+	(33)	108	109	105	M	-0.4	63	38	90	VG	F	F	P	VP	G	G
Waskada ☼	100	(67)	101	98	102	M	0.1	64	37	92	G	VG	G	G	P	P	G
WR859 CL ☼	107+	(67)	111+	104	107+	M	0.4	63	35	81	G	G	VG	VG	F	P	G
CANADA WESTERN HARD WHITE																	
Snowbird ☼	101	(94)	99	101	101	M	-0.4	62	36	89	G	G	G	F	P	P	P
Snowstar ☼	102	(56)	99	103	102	M	-0.9	64	31	83	XX	G	P	P	P	F	P

REMARKS: AC Eatonia and Lillian are adapted to sawfly areas. Alikat is adapted to acid soils. C.W. Red Spring Wheat grown under irrigation tends to have lower grades. CDC Abound, CDC Imagine, CDC Thrive and WR589 CL are tolerant to the CLEARFIELD® herbicides Adrenalin SC and Altitude FX. Fieldstar VB, Goodeve VB, Shaw VB, CDC Utmost VB and Vesper VB are CWRS wheat midge tolerant varieties. They contain the same "Sm 1" gene for tolerance. Glenn is a semi-dwarf variety. BW433, BW901 and HW024- insufficient data to describe. 5603HR-2011 yield data was not included into the table due to poor seed. Varieties added to the table: Vesper VB. ☼-Plant Breeder's Rights. ▲-Plant Breeder's Rights applied for. †-Flagged for removal. XX-insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Barrie are reported in the Overall and Low, Medium, and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to AC Barrie. Varieties that are statistically higher (+) or lower (-) yielding than AC Barrie are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturities rated as: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average days to maturity for AC Barrie is 106 days and rated as Medium maturing (M). 4 Thousand Seed Weight. 5 Resistance Ratings: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor. Varieties having a rating of Fair (F) or Poor (P) to loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for plant infection.



2011 Regional Variety Trials were conducted for HRS at the sites indicated on the map above.

UNITY-WASKADA

BI: AAFC (Winnipeg), Dist: SeCan Members

- Dow, Willard & Dale / Rivercourse / (306) 387-6767
- Hoff, Peter Edward / Gleichen / (403) 734-2140
- Holmstrom, Darrell & Barbara / Killam / (780) 385-3574
- Jacula, Dean S. & Shawn D. / Vermillion / (780) 853-7333
- King, Harold F. / Three Hills / (403) 443-7330
- Kopjar, Gerald M. / Rowley / (403) 368-2409
- Pare, Raymond A. / Wainwright / (780) 842-2073
- Shultz, Shawn / Didsbury / (403) 335-3694
- Warkentin, Harold K. & Errol / Tofield / (780) 662-2617

VESPER-WASKADA

BI: N/A, Dist: N/A

- Hoff, Peter Edward / Gleichen / (403) 734-2140
- Kopjar, Gerald M. / Rowley / (403) 368-2409
- Pare, Raymond A. / Wainwright / (780) 842-2073
- Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

WHEAT - SPRING

5603HR

BI: Syngenta Seeds Canada, Dist: Viterra

- Viterra / Regina / (306) 569-5027

5604HR CL

BI: Syngenta Seeds Canada, Dist: Viterra

- Logan, Glenn C., Marie & Douglas / Lomond / (403) 792-3696
- Pohl, Curtis / Wetaskiwin / (780) 352-0430
- Viterra / Regina / (306) 569-5027

5700PR

BI: Viterra, Dist: Viterra

- Schmermund, Donnie / Calahoo / (780) 967-2850
- Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322
- Viterra / Regina / (306) 569-5027

5702PR

BI: Syngenta Seeds Canada, Dist: Viterra

- Viterra / Regina / (306) 569-5027

AC ANDREW

BI: AAFC (Lethbridge), Dist: SeCan Members

- Degenhardt, Keith L., Terry L. & K. / Hughenden / (780) 856-2383
- Kittle, James W. & Andrew / Viking / (780) 336-2583

AC BARRIE

BI: AAFC (Swift Current), Dist: SeCan Members

- Baier, Bill & Dean / Clyde / (780) 348-5791

AC CRYSTAL

BI: AAFC (Swift Current), Dist: SeCan Members

- Dargis, Richard / St. Vincent / (780) 635-2333
- Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456
- Dechaine, Louis / St. Lina / (780) 635-2235
- Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321
- Pare, Raymond A. / Wainwright / (780) 842-2073
- Sand, Ron W. & D. R. / McLaughlin / (780) 745-2256

AC DOMAIN

BI: AAFC (Winnipeg), Dist: SeCan Members

- Warkentin, Harold K. & Errol / Tofield / (780) 662-2617

AC EATONIA

BI: Viterra, Dist: Viterra

- Strain, Arthur George / Foremost / (403) 867-2227
- Willms, Kevin J. / Grassy Lake / (403) 655-2450

WHEAT - MIDGE-TOLERANT

CDC UTMOST-HARVEST

BI: CDC, Dist: FP Genetics

- Andrukow, Allan / Viking / (780) 385-6402
- Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303
- Dalton, Dennis / Wainwright / (780) 842-2361
- Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036
- Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240
- Markert Seeds Ltd. / Vulcan / (403) 485-6708
- Massey, Derwin / Stettler / (403) 883-2503
- Sand, Ron W. & D. R. / McLaughlin / (780) 745-2257
- Sim, Darwin & Derek / Ponoka / (780) 372-2111
- Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358
- Tomlinson, Chelsea / Redwater / (780) 777-5885
- Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253

FIELDSTAR-WASKADA

BI: AAFC (Winnipeg), Dist: SeCan Members

- Holmen, Wallace P. & Carson R. / Rosedale / (403) 823-9296

GOODEVE-AC INTREPID


BI: AAFC (Swift Current), Dist: Alliance Seed Corporation

- Letsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500

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 Warkentin, Harold K. & Errol / Tofield / (780) 662-2617

AC FOREMOST

BI: AAFC (Swift Current), Dist: SeCan Members

Anderson, Ken & Evelyn / Barrhead / (780) 674-5670
 Beamish, Dale / Jarvie / (780) 954-3960
 Bright, David / New Norway / (780) 855-2240
 Clark, Todd / Edmonton / (780) 472-6308
 Crop Production Services Canada / Didsbury / (403) 335-9171
 Cyre, Clifford & Greg / Barrhead / (780) 349-4775
 Dallas, Bradley C. / Bowden / (403) 224-2162
 Ellis, Brian / Olds / (403) 556-2890
 Foster, Norman R. / Beaverlodge / (780) 354-2107
 Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036
 Jackson, Thomas / Killam / (780) 385-2332
 Kaun, Mark L. / Penhold / (403) 886-4562
 Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240
 Miller, Brian / Barrhead / (780) 674-5001
 Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645
 Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788
 Radke, Bryan Victor / Barrhead / (780) 674-5715
 Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535
 Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253
 Webber, Curtis / Stony Plain / (780) 963-6897
 Wood, Robert, P. & Marshall / Bowden / (403) 224-3928

AC INTREPID

BI: AAFC (Swift Current), Dist: Canterra Seeds

Cyre, Clifford & Greg / Barrhead / (780) 349-4775
 Wuthrich, David / Cecil Lake / (250) 781-3527

AC MEENA

BI: AAFC (Lethbridge), Dist: Haney Farms

Murdoch, Jody / Cranbrook / (250) 919-1074
 Saari, Sue / Cranbrook / (250) 421-0874

AC SPLENDOR

BI: AAFC (Winnipeg), Dist: SeCan Members

Paszkowski, Walter / Sexsmith / (780) 568-3629

ALVENA

BI: Semi-arid Prairie Agricultural Research Centre, Dist: SeCan Members

Knight, William, G., B., C. & Brian / Tees / (403) 784-3633
 Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500
 Wagner, Terry & Loree / Lacombe / (403) 782-2107
 Webber, John D.J. / Berwyn / (780) 338-3657

CARBERRY

BI: N/A, Dist: SeCan Members

Airth, Jock & Linda / Brooks / (403) 362-4372
 Benci, Dennis / Carmangay / (403) 643-2294
 Chin Ridge Seeds Ltd. / Taber / (403) 223-3900
 Corns, Bryan & Gary / Grassy Lake / (403) 655-2464
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 Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321
 Hadway, W. Tom & Carol / Didsbury / (403) 335-4929
 Haney Farms (1985) Limited / Picture Butte / (403) 738-4517
 Holmstrom, Darrell & Barbara / Killam / (780) 385-3574
 Huvenaars, John & Lisa / Hays / (403) 725-2126
 Kopjar, Gerald M. / Rowley / (403) 368-2409
 Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736
 Pizzev, J. David / Canmore / (403) 609-3588

Stamp, Richard, M., Greg & Nathan / Enchant / (403) 739-2233
 Strain, Arthur George / Foremost / (403) 867-2227
 Van Roessel, William & Jean / Bow Island / (403) 545-6018
 Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434
 Witdouch, Dale & Calvin / Iron Springs / (403) 738-4026

CARDALE

BI: AAFC (Winnipeg), Dist: Seed Depot

Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736
 Seed Depot Corporation / Pilot Mound / (204) 825-2000

CDC ABOUND

BI: CDC, Dist: Viterra

Viterra / Regina / (306) 569-5027

CDC ALSASK

BI: CDC, Dist: Viterra

Viterra / Regina / (306) 569-5027

CDC GO

BI: CDC, Dist: Public

Blotski, John & Elizabeth / Edmonton / (780) 454-7277
 Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151
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 Kemp, Richard L. / Innisfail / (403) 227-4836
 King, Harold F. / Three Hills / (403) 443-7330
 Kopjar, Gerald M. / Rowley / (403) 368-2409
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 Sich, Louis John & Ivan / Trochu / (403) 442-2112
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 Templeton, Doran / Lethbridge / (403) 345-4144
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CDC STANLEY					
BI: CDC, Dist: Viterra					
Pare, Raymond A. / Wainwright / (780) 842-2073				R	
Viterra / Regina / (306) 569-5027	S	F	R	C	
CDC THRIVE					
BI: CDC, Dist: Cargill Ltd.					
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				R	
GLENN					
BI: NDSU Research Foundation, Dist: Canterra Seeds					
Airth, Jock & Linda / Brooks / (403) 362-4372				C	
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C	
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C	
HARVEST					
BI: AAFC (Winnipeg), Dist: FP Genetics					
Andersen, Ed. A. & Kathy & B.W. / Kitscoty / (780) 847-2022				R	C
Andrukow, Allan / Viking / (780) 385-6402				C	
Appleby, Kenneth Arthur / Tofield / (780) 662-3583				C	
Benci, Dennis / Carmangay / (403) 643-2294				C	
Bright, David / New Norway / (780) 855-2240				C	
Cameron, Danny / Millet / (780) 387-5313				C	
Crop Production Services Canada / Didsbury / (403) 335-9171				C	
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303				C	
Dalton, Dennis / Wainwright / (780) 842-2361				R	C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F	R	C	
Kapitski, Lawrence / Andrew / (780) 365-2134				C	
Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240				R	C
Markert Seeds Ltd. / Vulcan / (403) 485-6708				R	C
Massey, Derwin / Stettler / (403) 883-2503				C	
Pizzey, J. David / Canmore / (403) 609-3588				R	C
Sand, Ron W. & D. R. / McLaughlin / (780) 745-2258	F	R	C		
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C	
Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358	S	F			
Tomlinson, Chelsea / Redwater / (780) 777-5885				C	
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253	R	C			
Wood, Robert, P. & Marshall / Bowden / (403) 224-3928	S	F	R		
KANE					
BI: Cereal Research Centre, Dist: SeCan Members					
Nemeitz, Charlie, J., L. & Brandon / Stettler / (403) 742-0436				C	
Pare, Raymond A. / Wainwright / (780) 842-2073				R	
Pizzey, J. David / Canmore / (403) 609-3588				C	
LILLIAN					
BI: AAFC (Swift Current), Dist: SeCan Members					
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C	
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151				C	
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347				R	C
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				R	C
Welsh, Donald Alan / Milk River / (403) 647-2228				C	
Welsh, Stuart Jason / Milk River / (403) 647-2228				C	
Willms, Kevin J. / Grassy Lake / (403) 655-2450	S	F	C		
MINNEDOSA					
BI: AAFC (Winnipeg), Dist: SeCan Members					
Kopjar, Gerald M. / Rowley / (403) 368-2409				C	
MUCHMORE					
BI: AAFC (Swift Current), Dist: FP Genetics					
Sim, Darwin & Derek / Ponoka / (780) 372-2111		F			
Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535		F			

NRG010					
BI: AAFC (Swift Current), Dist: Canterra Seeds					
Senziaik, Don P. & Stephen / Edmonton / (780) 434-1322					F
PARK					
BI: N/A, Dist: N/A					
Lyster, Norman / Stettler / (403) 742-4456				S	F
PASTEUR					
BI: N/A, Dist: N/A					
Holmstrom, Darrell & Barbara / Killam / (780) 385-3574				S	
SADASH					
BI: AAFC (Lethbridge), Dist: SeCan Members					
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151					C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517					C
Huvenaars, John & Lisa / Hays / (403) 725-2126					C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434					F
Wood, Robert, P. & Marshall / Bowden / (403) 224-3928					C
SNOWBIRD					
BI: AAFC (Winnipeg), Dist: FP Genetics					
Andersen, Ed. A. & Kathy & B.W. / Kitscoty / (780) 847-2022					R
Dalton, Dennis / Wainwright / (780) 842-2361					C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036					C
Kapitski, Lawrence / Andrew / (780) 365-2134					C
Laliberte, Adam & Vos, Henry / Fairview / (780) 835-3003					C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500					C
Massey, Derwin / Stettler / (403) 883-2503					C
Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358					R
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253					C
SNOWSTAR					
BI: AAFC (Winnipeg), Dist: SeCan Members					
Benci, Dennis / Carmangay / (403) 643-2294					R
STETTTLER					
BI: AAFC (Winnipeg), Dist: SeCan Members					
Andrukow, Greg / Camrose / (780) 336-3180					R
Baier, Bill & Dean / Clyde / (780) 348-5791		S	F		C
Benci, Dennis / Carmangay / (403) 643-2294					C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900					C
Clark, Todd / Edmonton / (780) 472-6308					C
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151					C
Crop Production Services Canada / Didsbury / (403) 335-9171					R
Cyre, Clifford & Greg / Barrhead / (780) 349-4775		S	F		R
Dallas, Bradley C. / Bowden / (403) 224-2162					C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456					R
Dechaine, Louis / St. Lina / (780) 635-2235					C
Dovichak, Michael / Brooks / (403) 501-5420					C
Fabian, Patrick V. / Tilley / (403) 377-2000					C
Foster, Norman R. / Beaverlodge / (780) 354-2107					C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036					R
Hadway, Walter Thomas / Didsbury / (403) 335-4929					C
Harris, William Peter / Beaverlodge / (780) 354-2823		S			R
Hoff, Peter Edward / Gleichen / (403) 734-2140					R
Holmstrom, Darrell & Barbara / Killam / (780) 385-3574		S			R
Huvenaars, John & Lisa / Hays / (403) 725-2126					R
Jackson, Thomas / Killam / (780) 385-2332					C
Jensen, Albert / Drumheller / (403) 823-9976					R
Kapitski, Lawrence / Andrew / (780) 365-2134					C
Kittle, James W. & Andrew / Viking / (780) 336-2583					R
Klassen, Ken / Rosemary / (403) 378-4408					R
Kopjar, Gerald M. / Rowley / (403) 368-2409					R
Kotowich, Paul / St. Paul / (780) 645-2535					C
Laliberte, Adam & Vos, Henry / Fairview / (780) 835-3003					R



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Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240	R	
Lopushinsky, Julian / Bruderheim / (780) 796-2048	R C	
Markert Seeds Ltd. / Vulcan / (403) 485-6708	C	
Massey, Derwin / Stettler / (403) 883-2503	R	
McDonald, Gerald / Grande Prairie / (780) 538-3868	R C	
Meinczinger, Matthew Jr. / Busby / (780) 349-2456	R	
Miller, Brian / Barrhead / (780) 674-5001	R C	
Mueller, Darcy / Three Hills / (403) 820-4115	R C	
Nemetz, Charlie, J., L. & Brandon / Stettler / (403) 742-0436	R C	
Oatway, Ward / Lacombe / (403) 784-3418	S F R C	
Pare, Raymond A. / Wainwright / (780) 842-2073	S R	
Penner, Larry / Three Hills / (403) 443-7212	R C	
Peters, Edward W. / Didsbury / (403) 335-4506	R	
Plante, Jacques / St. Paul / (780) 645-4604	C	
Sand, Ron W. & D. R. / McLaughlin / (780) 745-2259	R	
Sekulic, John Jr. / Rycroft / (780) 765-2280	R	
Sekulic, Warren, F. / Rycroft / (780) 765-2234	R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322	R C	
Shultz, Shawn / Didsbury / (403) 335-3694	R	
Sim, Darwin & Derek / Ponoka / (780) 372-2111	C	
Stewart, E. Wilbur & Eldon / Big Valley / (403) 876-2784	C	
Trueblood, Brian G. / Dapp / (780) 954-3745	F	
Van Roessel, William & Jean / Bow Island / (403) 545-6018	C	
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253	C	
Wagner, Terry & Loree / Lacombe / (403) 782-2107	R C	
Weigum, Garry / Three Hills / (403) 443-2476	C	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4026	R	
Wuthrich, David / Cecil Lake / (250) 781-3527	R	
Zwack, Bryan / Daysland / (780) 374-3577	R C	
Zwack, Thomas / Daysland / (780) 374-2450	C	
SUPERB		
BI: AAFC (Winnipeg), Dist: SeCan Members		
Airth, Jock & Linda / Brooks / (403) 362-4372	C	
Clark, Todd / Edmonton / (780) 472-6308	C	
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456	C	
Foster, Norman R. / Beaverlodge / (780) 354-2107	C	
Holmen, Wallace P. & Carson R. / Rosedale / (403) 823-9296	C	
Jackson, Thomas / Killam / (780) 385-2332	C	
Jones, Danny / Beaverlodge / (780) 354-8089	R	

Pare, Raymond A. / Wainwright / (780) 842-2073				C
Trueblood, Brian G. / Dapp / (780) 954-3745				C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617				C
SY985				
BI: Syngenta Seeds Canada, Dist: Viterra				
Cyre, Clifford & Greg / Barrhead / (780) 349-4775	S	F		
Laliberte, Adam & Vos, Henry / Fairview / (780) 835-3003		F		
Viterra / Regina / (306) 569-5027	S			
WASKADA				
BI: AAFC (Winnipeg), Dist: SeCan Members				
King, Harold F. / Three Hills / (403) 443-7330			R	
Pare, Raymond A. / Wainwright / (780) 842-2073	S			
WR859 CL				
BI: Syngenta Seeds Canada, Dist: Syngenta Seeds Canada				
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151	S			C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
Holtman, Scott / Taber / (403) 381-1960				C
Stamp, Richard, M., Greg & Nathan / Enchant / (403) 739-2233				C
Syngenta Seeds Canada Inc., / Saskatoon / (306) 653-7302	S	F	R	C



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CDC Buteo Winter Wheat	Morgan Oats
Alvena Wheat	*New: Malt Barley - Meredith



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--	---



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WINTER WHEAT

Variety	Yield Test Category ¹ (% CDC OSPREY)						Agronomic Characteristics							Disease Resistance ³						
	Overall Yield (% CDC OSPREY)	Stn. Years of Test.	Low <45 (bu/ac)	Med. 45-75 (bu/ac)	High 75-105 (bu/ac)	V. High >105 (bu/ac)	Wint. Surv. ³	Mat. Rat. ⁴	Prot. (%)	Ht. (cm)	Ldg. Res. ³	Shat. Res. ³	Test Wt. (lb/bu)	TSW (g)	Krnl. Hard. & Col. ⁵	Bunt	Strp. Rust	Leaf Rust	Stem Rust	FHB
CANADA WESTERN RED WINTER "SELECT"																				
CDC OSPREY (bu/ac)	76		35	62	86	118														
CDC OSPREY ²	100	(222)	100	100	100	100	VG	M	12.2	90	G	G	63	32	HR	VP	VP	P	P	P
AC Bellatrix	102 +	(187)	110 +	102	100	101	F	L	+0.3	88	G	G	64	36	HR	F	VP	VP	VP	F
AC Readymade	96 -	(83)	99	96 -	95	97	P	VL	+1.7	90	VG	F	63	36	HR	P	XX	VP	VP	XX
AC Tempest	98	(137)	100	97 -	100	98	P	VL	+1.4	89	VG	G	63	37	HR	P	G	VP	VP	F
CDC Buteo	99	(103)	102	99	97	101	VG	M	+0.2	88	F	G	65	34	HR	VP	VP	G	G	G
Flourish ☼	100	(47)	XX	103	97	XX	F	E	+0.5	78	VG	G	63	35	HR	F	F	F	F	VP
McClintock ☼	96 -	(78)	89	97	95	100	F	L	0.0	91	VG	G	64	32	HR	VP	G	G	VG	VP
Moats ▲	108	(12)	XX	XX	108	XX	G	M	+0.4	89	G	G	65	33	HR	P	G	G	VG	XX
Norstar	95 -	(131)	103	96 -	92 -	88 -	VG	L	-0.1	108	VP	G	64	33	HR	VP	XX	VP	VP	G
Radiant ☼	102 +	(157)	105	101	103 +	100	VG	L	-0.1	87	VG	G	63	36	HR	P	P	VP	VP	VP
CANADA WESTERN RED WINTER "GENERIC"																				
CDC CLAIR	103 +	(125)	103	103 +	104	105 +	VG	M	-0.4	88	F	G	63	34	HR	VP	XX	P	P	XX
CDC Falcon	102	(163)	94	103	102	103	F	E	-0.4	73	VG	G	63	31	HR	VP	VP	G	G	VP
CDC Harrier	106 +	(136)	108	106 +	105 +	104	G	M		93	G	G	62	31	HR	VP	VP	P	G	P
CDC Kestrel	104 +	(108)	106	104	105 +	102	VG	M	-1.4	93	G	G	62	32	HR	VP	XX	P	P	XX
CDC Raptor	101	(95)	99	102	102	98	G	M	-0.4	81	VG	G	63	30	HR	VP	XX	G	VG	XX
CANADA WESTERN GENERAL PURPOSE																				
Accipiter ▲	108 +	(33)	XX	109	107 +	105	G	M	-0.2	81	VG	G	64	30	HR	VP	XX	G	VG	VP
Broadview ☼	104 +	(47)	XX	106	103	XX	G	E	-0.7	78	G	G	63	32	HR	VP	VP	VG	VG	VP
CDC Ptarmigan	111 +	(71)	XX	112 +	109 +	111 +	G	M	-2.0	90	F	G	61	34	SW	VP	VP	P	P	XX
Peregrine ▲	109 +	(34)	XX	108	109 +	105	VG	M	-0.4	94	F	G	64	34	HR	VP	G	VG	VG	P
Sunrise	112 +	(26)	XX	XX	112 +	XX	G	M	-0.7	87	G	G	61	33	SR	VP	G	G	G	XX

REMARKS: Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before September 15) and if there is adequate snowfall. Varieties with Poor winter survival are generally not suitable outside of southern Alberta. The provincial average maturity date for CDC OSPREY is August 7 (219 days after January 1). Radiant has resistance to the wheat curl mite, the vector that carries Wheat Streak Mosaic Virus. AC Bellatrix and Flourish are the only varieties with resistance to common bunt; other varieties should be treated with a systemic seed treatment to reduce the potential for plant infection. Winter wheat will normally escape FHB infection if seeded before September 15. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. CWRW Select varieties may receive price and protein premiums. Winter wheat is a good feedstock for ethanol production. Note that the Canadian Grain Commission advises that CDC CLAIR, CDC Harrier, CDC Kestrel and CDC Raptor will be moved to the Canada Western General Purpose class effective August 1, 2013. The reclassification of CDC Falcon to the CWGP class is likely to be delayed until 2014. Flourish and Moats will not be available in fall 2012. ¹ Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields (bu/ac) for CDC OSPREY are reported in the Overall and Low, Medium, High, and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. ² All yields are reported relative to CDC OSPREY. Varieties that are statistically higher (+) or lower (-) yielding than CDC OSPREY are indicated. No symbol after the yield figure indicates that there is no statistical difference. ³ Ratings for Disease Resistance, Winter Survival, Ldg. Resistance, and Shattering Resistance: VP=Very Poor, P=Poor, F=Fair, G=Good, VG=Very Good. ⁴ Maturity Ratings: VE=Very Early, E=Early, M=Medium, L=Late, VL=Very Late. ⁵ Abbreviations for Kernel Hardness and Colour: HR=Hard Red, SW=Soft White, SR=Soft Red.

WHEAT - WINTER

AC BELLATRIX

BI: AAFC (Lethbridge), Dist: FB Genetics
Strain, Arthur George / Foremost / (403) 867-2227

BROADVIEW

BI: AAFC (Lethbridge), Dist: Canterra Seeds
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517

FLOURISH

BI: AAFC (Lethbridge), Dist: N/A
Wagner, Terry & Loree / Lacombe / (403) 782-2107

MOATS

BI: CDC, Dist: SeCan Members
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517

RADIANT

BI: AAFC (Lethbridge), Dist: Canterra Seeds

- Airth, Jock & Linda / Brooks / (403) 362-4372
- Benci, Dennis / Carmangay / (403) 643-2294
- Corns, Bryan & Gary / Grassy Lake / (403) 655-2464
- Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151
- Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036
- Haney Farms (1985) Limited / Picture Butte / (403) 738-4517
- Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736
- Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358

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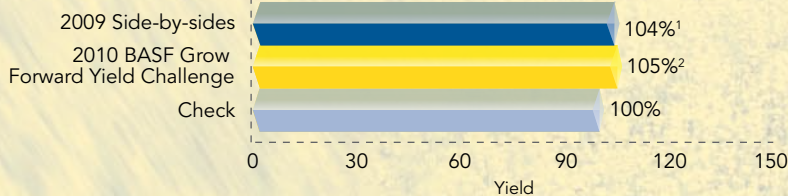
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5525 YIELD RESULTS



¹ Check varieties from 8 field side-by-side trials include PH 46P50, InVigor 5440, PH 45H73, CT 1651 and DK 71-40.
² Checks 16 field scale 2010 BASF Grow Forward Yield Challenge trials include D 3150, DK 71-45 RR, InVigor 5020, 5030, 5440, 8440 and PH 45H28.

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2008 World Championship Silver Medalist

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Canola Variety Information for 2012

THE Canola Performance Trials (CPT) represent the next generation in variety evaluation for western Canadian canola growers. The trials provide:

- Relevant, unbiased and timely performance data that reflects actual production practices.
- Comparative data on leading varieties and newly introduced varieties.
- Detailed reporting on agronomic characteristics such as yield, height, lodging, maturity and economic performance, and site specific performance variables including weather, soil type, crop nutrition, seeding and harvest management.

Who runs the program?

The three Prairie canola grower groups – Alberta Canola Producers Commission, the Saskatchewan Canola Development Commission (SaskCanola) and the Manitoba Canola Growers Association – fund the program. Seed trade companies that participate pay entry fees. The B.C. Grain Producers Association is conducting trials in the Peace as their means of participation.

A third-party, Haplotech, coordinates the trials under the guidance of a governance committee which oversees approval of varieties, protocol design, data collection, analysis and reporting, and financial management. Governance committee members include representatives from the provincial grower groups including B.C.; provincial oilseed specialists from Manitoba, Saskatchewan and Alberta; three commercial Canadian Seed Trade Association representatives; and the Canola Council of Canada (CCC). The CCC is delivering the program on their behalf.

Participants in the small plot trials consist of line companies, independent retailers and seed companies including Viterra, Bayer CropScience, Monsanto, Dow AgroSciences, Cargill, Canterra Seeds, BrettYoung Seeds, FP Genetics and SeCan. For 2011, Monsanto, Bayer CropScience, Canterra Seeds and Dow AgroSciences are also participating in the field-scale component of the program.

How are the trials conducted?

The program includes 23 small plot trials and 108 field scale trials for 2011. The map on this page shows small plot trial locations and provides numbers by province for the field scale trial sites. Site distribution is based on seeded acres in Manitoba, Saskatchewan and Alberta.

Small plot trials include leading varieties and varieties that are newly introduced. The new small plot system ensures that:

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

Field scale comparisons add extra perspective for assessing consistency in variety performance.

Ensuring Quality Data

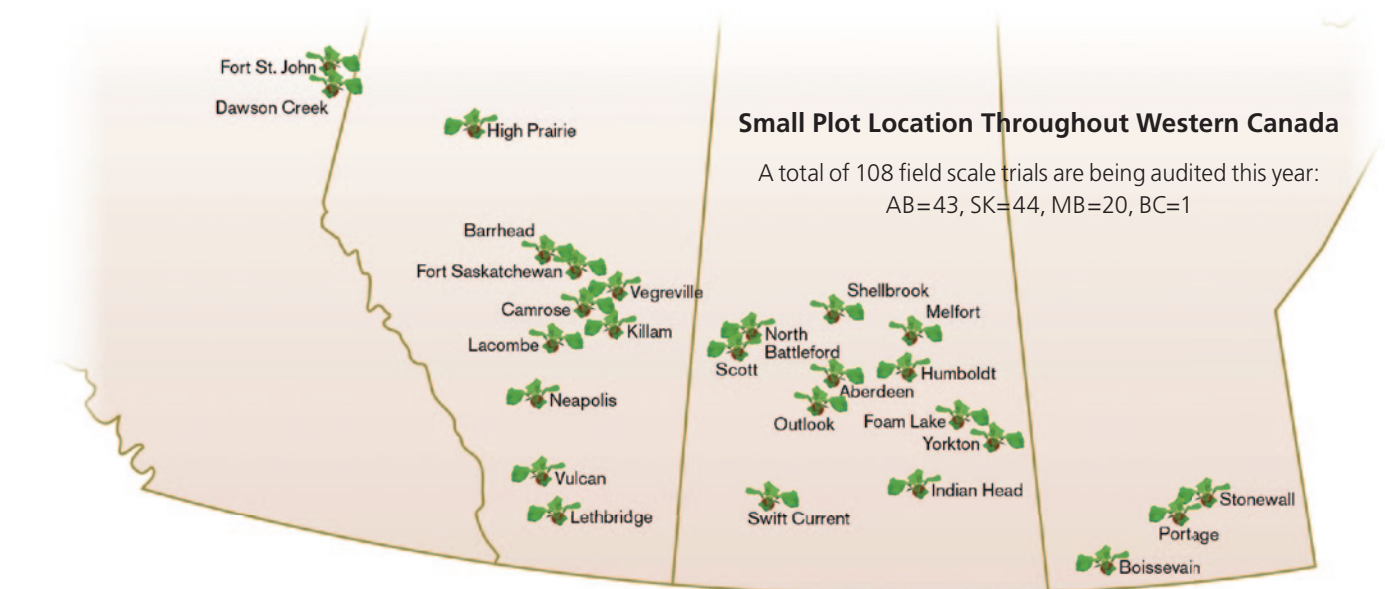
The technical committee established protocols and developed research plot designs to ensure that the data is representative. Performance objectives were established to provide guidelines on timely field operations and data collection. All sites are inspected to verify these guidelines were followed to allow a fair comparison among the varieties tested.

Audits of field scale projects give growers the confidence that the protocol was conducted in a scientifically sound manner and that comparisons are appropriate. Qualified professionals with extensive background in conducting field scale research trials perform the audits.

How are results reported?

Small plot and field scale data are presented separately. Results provided are:

- Yield, height, lodging and maturity for each variety at each site.
- Variety performance by soil zone and season zone.



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InVigor



- Data analysis based on CV (coefficient of variation) and LSD (least significant difference) to allow proper interpretation of variety differences.
- Site specific data on weather, soil type, previous crop, fertility, seeding date and rate and harvest date.

individual site will be reported online. The online tool will have an Economic Calculator that includes the costs associated with growing the selected variety to assist growers in determining potential profitability. Results may also be accessed online through the provincial grower group websites. Data will also be available in booklet form and can be obtained from your local agri-retailer.

Where can you get the results?

Results will be available through an online interactive tool at www.canolacouncil.org. The interactive tool will allow growers to explore many agronomic factors, and to search for trial data in specific geographic areas near their farming operations. Details on management, operations and environmental data for each

Canola Performance Trials are a new approach to the comparison of some of the most popular and recent canola types in the western Canadian marketplace. This data is provided by the Canola Performance Trials committee and has not been verified by the Alberta Seed Industry as to its accuracy.


2011 CANOLA SMALL PLOT ZONE SUMMARIES

Variety Description

Variety (<i>B. napus</i>)	Type	Yield by Maturity Zone			WCC/RRC Registration Data			Distributor
		Long (4)	Mid (10)	Short (7)	Maturity (+/- checks)	Height (cm)	Blackleg Tolerance	
Clearfield								
2012 CL*	Hybrid	54	50	-	-0.6	0.6	MR	Dow AgroSciences
5525 CL	Hybrid	57	58	73	1.4	11.3	R	BrettYoung
VR 9560 CL	Hybrid	65	62	79	2.1	13.4	R	Viterra
Liberty Link								
5440	Hybrid	62	67	83	-0.2	7.3	R	Bayer CropScience
5770	Hybrid	61	64	81	2.6	7.5	R	Bayer CropScience
L130	Hybrid	59	63	82	-0.2	3.9	R	Bayer CropScience
L150	Hybrid	58	66	85	1.3	8.9	R	Bayer CropScience
L170S**	Hybrid	51	59	75	1.0	-	R	Bayer CropScience
LL varieties being tested or proposed for registration in Canada								
8CN0024	Hybrid	61	63	77	-1.1	6.3	R	Bayer CropScience
Roundup Ready								
1012 RR***	Hybrid	54	57	-	2.3	-	R	Dow AgroSciences
1970	Hybrid	62	60	-	1.9	7.1	R	CANTERRA SEEDS
1980	Hybrid	59	55	-	-1.2	-1.9	R	CANTERRA SEEDS
1990	Hybrid	60	63	-	0.4	4	R	CANTERRA SEEDS
6060 RR	Hybrid	60	62	81	2.2	9.9	R	BrettYoung
72-65 RR	Hybrid	54	60	72	0.6	0.0	R	DEKALB
73-15 RR	Hybrid		54	69	-0.3	-4.5	MR	DEKALB
73-45 RR	Hybrid	56	59	72	-2.5	-4.8	R	DEKALB
73-55 RR	Hybrid	61	59	72	-1.2	-1.6	R	DEKALB
73-75 RR	Hybrid	58	60	74	-0.7		R	DEKALB
94H04	Hybrid	58	59	70	-0.1	7.4	R	FP Genetics
VR 9559 G	Hybrid	62	63	80	1.1	7.8	R	Viterra
Fusion	Hybrid	48	54	66	-1.7	0.4	R	SeCan
v1040*	Hybrid	59	59	74	0.8	3.7	R	Cargill - VICTORY Hybrid Canola
VT 510 G	Hybrid	57	56	70	0.8	-0.1	R	Viterra
V12-1	Hybrid	64	64	79	0.0	2.3	R	Cargill - VICTORY Hybrid Canola

* Indicates varieties with Specialty oil profiles. ** Indicates varieties with interim registration.

This canola variety table summarizes the performance of selected registered canola varieties available for planting in spring 2012. The post-registration Canola Performance Trials (CPT) testing in 2011 was designed to be more reflective of field practices. The appropriate herbicide products have been applied to the matching herbicide tolerant (HT) varieties in small plots, with no 'check' variety assigned. Individual location data for the small plot trials are available at www.CanolaPerformanceTrials.ca, but the best performance indicator is to compare varieties over multiple sites. This also includes comparing performance of small plot trials with field scale trial results. The CPT information in this factsheet and on-line, provides both data sources which have been reviewed through a protocol and data audit process. This process assures that data was collected and trials conducted in a scientific manner and that comparisons are unbiased. **With the changes in trial management and data source collection, data from 2011 is not considered comparable to previous trials.**



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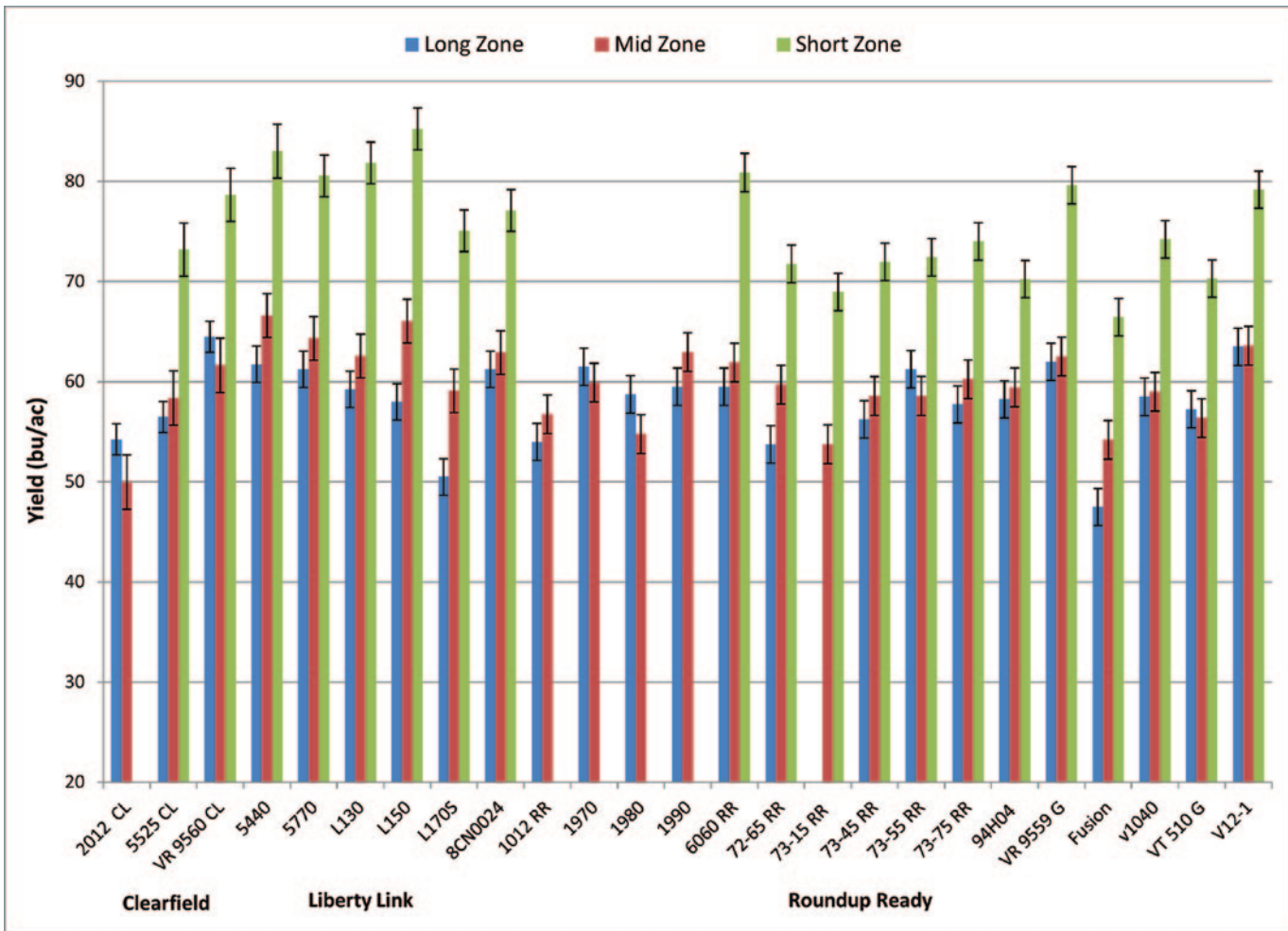


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AVERAGE CANOLA VARIETY YIELDS BY ZONE 2011 SMALL PLOT CANOLA PERFORMANCE TRIALS



Error bars on top of columns are Least Significant Differences for determining real differences between varieties within each zone.

CANOLA - ARGENTINE

CAFE

BI: SW Seed Ltd., Dist: SeCan Members
Hadland, Edward / Baldonnel / (250) 789-3646

RUGBY

BI: Agriprogress Inc., Dist: SeCan Members
Hadland, Edward / Baldonnel / (250) 789-3646
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617

CANOLA - JUNCEA

OASIS CL

BI: N/A, Dist: Viterra
Viterra / Regina / (306) 569-5027

S F R C

F C

C C

S F R C

C

CANOLA - POLISH

ACS-C29

BI: N/A, Dist: Mastin Seeds
Mueller, Darcy / Three Hills / (403) 820-4115

EARLY ONE

BI: N/A, Dist: Mastin Seeds
Mastin, Robert B. / Sundre / (403) 556-2609
Richard, Gerald / Spirit River / (780) 864-4352

SYNERGY

BI: N/A, Dist: Mastin Seeds
Foster, Norman R. / Beaverlodge / (780) 354-2107
Markert Seeds Ltd. / Vulcan / (403) 485-6708

S F R C

C

C C

C C

2011 CANOLA FIELD SCALE TRIAL LOCATION DATA

2011 Yield (bu/ac)

Variety

Location	Variety										
	2012 CL	5440	L130	L150	1012 RR	1970	1990	72-65 RR	73-45 RR	73-75 RR	73-15 RR
ALBERTA											
Alix	-	-	-	-	52	-	-	50	-	-	-
Ardrossan	-	-	-	-	65	-	-	65	-	-	-
Athabasca	-	-	-	-	-	-	-	-	48	-	39
Calmar	-	-	-	-	-	55	66	-	53	-	-
Carbon	-	51	48	55	-	-	-	-	50	-	-
Carseland	-	70	70	71	-	-	-	-	66	-	-
Carstairs	-	-	-	-	-	-	-	-	52	-	48
Cranford	-	-	-	-	-	-	-	-	84	83	-
Dapp	-	-	-	-	-	-	-	-	62	68	61
Didsbury	-	-	-	-	-	-	-	-	65	64	69
Didsbury	-	71	69	68	-	-	-	-	70	-	-
Ft. Saskatchewan	67	-	-	-	67	-	-	67	-	-	-
Ft. Saskatchewan	-	-	-	-	-	-	-	-	62	60	62
Ft. Saskatchewan	-	-	-	-	-	62	66	-	65	-	-
Girouxville	-	-	-	65	-	-	-	-	66	64	65
Girouxville	-	-	-	-	52	-	-	56	-	-	-
High River	-	-	-	-	56	-	-	55	-	-	-
LaCrete	-	-	-	-	-	-	-	-	49	-	51
Lavoy	-	-	-	-	-	-	-	-	63	65	-
Leduc	-	69	70	70	-	-	-	-	67	-	-
Lethbridge	-	83	84	86	-	-	-	-	85	-	-
Lethbridge	-	-	-	-	65	-	-	63	-	-	-
Lyalta	47	-	-	-	49	-	-	51	-	-	-
Mannville	-	-	-	58	-	-	-	-	60	60	57
Mundare	-	-	-	62	-	-	-	-	55	59	-
Namao	-	85	90	81	-	-	-	-	83	-	-
Ohaton	-	-	-	61	-	-	-	-	-	60	-
Ohaton	-	-	-	-	55	-	-	51	-	-	-
Ryley	-	65	64	66	-	-	-	-	56	-	-
Seven Persons	-	-	-	-	52	-	-	56	-	-	-
St. Isidore	-	-	-	-	-	-	-	-	59	-	58
St. Paul	-	59	60	54	-	-	-	-	53	-	-
St. Paul	-	-	-	44	-	-	-	-	51	48	46
Stettler	-	60	63	62	-	-	-	-	60	-	-
Strathmore	-	-	-	62	-	-	-	-	56	66	-
Strathmore	-	-	-	-	42	-	-	45	-	-	-
Strathmore	-	-	-	-	-	38	43	-	44	42	-
Three Hills	-	-	-	-	51	-	-	52	-	-	-
Vegreville	-	-	-	-	50	-	-	56	-	-	-
Vulcan	-	-	-	58	-	-	-	-	55	52	-
Vulcan	-	65	66	62	-	-	-	-	57	-	-
Westlock	-	60	61	64	-	-	-	-	62	-	-
Wetaskiwin	-	-	-	-	-	-	-	-	61	56	-

BRITISH COLUMBIA

Ft. St. John	-	51	52	51	-	-	-	-	50	-	-
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Field scale trials are managed by growers using their typical production practices. The individual plots range from 0.5 to 1.5 acres in size. The trials are planted, swathed, harvested and in some cases sprayed by growers using the respective herbicide systems according to established protocols. For more details on individual trials visit www.CanolaPerformanceTrials.com. Single site comparisons are of limited value and averages over many locations should be used for the best comparison.

FLAX

Variety	Overall Yield	Station Years of Testing	Yield Category ¹ (% CDC Bethune)				Agronomic Characteristics			
			Low <20 (bu/ac)	Medium 20-35 (bu/ac)	High 35-50 (bu/ac)	Very High >50 (bu/ac)	Maturity Rating ³	Seed Size	Ht. (cm)	Resistance to Ldg. ⁴
CDC Bethune (bu/ac)	35		14	28	42	60				
CDC Bethune² ☼	100	(98)	100	100	100	100	L	M	58	VG
CDC Arras †	94-	(27)	97	95	97	87-	L	L	61	F
CDC Sorrel ☼	104	(32)	112	107	98	99	L	L	61	G
Flanders	100	(43)	108	100	98	97	L	S	57	G
Hanley ☼	97	(35)	98	101	94	97	L	M	52	VG
NorLin †	95-	(92)	107	93-	93-	90-	M	M	57	G
Prairie Grande ☼	98	(42)	101	99	97	97	M	M	53	VG
Prairie Thunder ☼	99	(34)	106	95	97	XX	M	M	53	VG
Taurus ☼	98-	(27)	108	95	XX	XX	L	M	53	VG

REMARKS: Prairie Sapphire (FP2214) and FP2270-insufficient data to describe. Macbeth dropped. FP2242 and Prairie Blue were tested in 2009 only. ☼ -Plant Breeder's Rights. †-Flagged for removal. XX-insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for CDC Bethune are reported in the Overall and Low, Medium, High, and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to CDC Bethune. Varieties that are statistically higher (+) or lower (-) yielding than CDC Bethune are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturities ratings: VE=Very Early; E=Early; M=Medium; L=Late and VL=Very Late. Long term average maturity for CDC Bethune in Alberta is 111 days and rated as Late maturing (L). 4 Resistance to Ldg.: VG=Very Good; G=Good; F=Fair; P=Poor and VP=Very Poor.

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CDC SORREL				
BI: CDC, Dist: SeCan Members				
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Degenhardt, Keith L., Terry L. & K. / Hughenden / (780) 856-2383		F		R
Fabian, Patrick V. / Tilley / (403) 377-2000				C
Huvenaars, John & Lisa / Hays / (403) 725-2126				C
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				C
King, Harold F. / Three Hills / (403) 443-7330				R
Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
PRAIRIE SAPPHIRE				
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Stamp, Richard, M., Greg & Nathan / Enchant / (403) 739-2233				R
HANLEY				
BI: AAFC (Morden), Dist: SeCan Members				
Klassen, Ken / Rosemary / (403) 378-4408				C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500				C
PRAIRIE GRANDE				
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Kopjar, Gerald M. / Rowley / (403) 368-2409				R
TAURUS				
BI: Limagrain, Dist: FP Genetics				
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2011 Regional Silage Variety Trials

THE grain and livestock industries have been well served through the advent of the Regional Variety Testing program in Alberta and the subsequent publishing of results in seed.ab.ca. However, one key element was missing. As cattle producers grow ever increasing amounts of annual crops for feed (silage, green feed and swath grazing), measuring those that produce the highest forage yield becomes increasingly important. Silage is an integral forage source in feedlots across the province and has become more prevalent in cow herds as well. With many producers trying to lower production costs, swath grazing of cow herds has increased dramatically in the last few years. It could also be argued that there is more grain forage than cereal grain fed to take a market animal from conception to plate. With these facts in mind, the Regional Silage Variety Trial concept was born.

Participating Organizations

Under the umbrella of the Agricultural Research and Extension Council of Alberta, six applied research groups initiated the project.

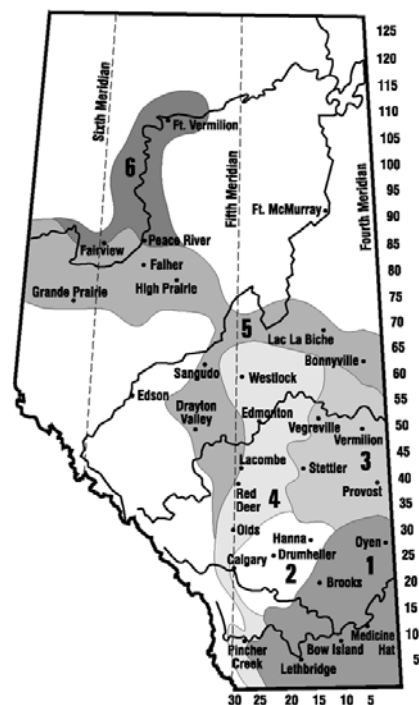
- Agricultural Research and Extension Council of Alberta, Sherwood Park, ALTA., (780) 416-6046
- Battle River Research Group, Forestburg, Alta., (780) 582-7308
- Chinook Applied Research Association, Oyen, Alta., (403) 664-3777
- Gateway Research Organization, Westlock, Alta., (780) 349-4546
- Lakeland Agricultural Research Association, Bonnyville, Alta., (780) 826-7260
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- Alberta Beef Producers
- Agricultural Opportunity Fund
- A and L Canada LAlta.oratories
- Association of Alberta Co-op Seed Cleaning Plants
- Alberta Seed Growers' Association

Trial Information

This is the only third year of the trials and concrete conclusions shouldn't be drawn, however, many of the groups involved have been growing silage trials for several years, the involved



groups would willingly share this information with anyone who is interested. This is the final year of the current funding for this trial.

The barley, oat and triticale silage trials are self explanatory, however we thought the late seeded and pulse mixture trials required a little more explanation. The late seeded trial was born of the increasing number of companies promoting, and producers growing, C4 crops for forage. Millet and sorghum fall into this category. Several of the groups have grown sorghum in past years and yields had been very disappointing, therefore it was left out of this trial. Millet has shown more promise and there seems to be more producer interest in growing it. Both these crops need to be sown into warm soil (approximately mid-June) and thus the trial name. Cereals were seeded at the same time to measure them against the millet.

The pulse mixture trial looked at decreasing nitrogen costs, and/or increasing nutritional value of silage. The pulse mix plots were seeded with 50 pounds of 11-52-0-0 while the straight cereal comparison plots were fertilized with 50 per cent of the recommended cereal rates. Peas were seeded at 75 per cent of their recommended seeding rate and cereals at 50 per cent when in mixtures. Monocrop cereals were seeded at 100 per cent the recommended seeding rate.


Site Information

There were 10 sites across the province. Sites were located near Redel, Madge, Castor, Stettler, Fort Kent, Lac La Biche, St. Paul, Stettler, Stony Plain, Dapp and High Prairie. The Evansburg site was not seeded this year due to extreme wet conditions this spring. Maturity, plant height and lodging were not measured in the trials as it was felt that most have already gone through the Cereal RVT program, and have been extensively reported on.

Nutritional Analysis


Nutrition was assessed using wet chemistry analysis, and the samples are also being tested by the Field Crop Development Centre in Lacombe (by Mary Lou Swift) using near infra-red technology to strengthen the NIR database for forages.

Full nutritional analysis was done on each sample, however, we have only reported on six nutritional categories; crude protein (CP), total digestible nutrients (TDN) which is an estimation of energy, calcium (Ca), phosphorus (P), potassium (K) and magnesium (Mg).



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OATS

Variety	Yield by Area (see map)				Nutritional Data					
	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Murphy				% of Murphy					
Baler	88	93	111	86	99	103	93	96	95	95
CDC SOI	95	93	110	86	105	108	102	109	89	106
Everleaf	85	85	98	72	113	100	104	98	110	104
Foothills	102	91	94	87	100	101	108	90	93	100
Jordan	91	86	104	86	102	104	101	101	96	106
Morgan	77	88	101	87	101	106	102	114	97	95
Murphy	100	100	100	100	100	100	100	100	100	100
Mustang	82	96	103	93	101	103	97	100	90	101
Waldern	90	100	121	97	98	103	109	96	92	99

PULSE MIXTURES

Variety	Yield by Area (see map)				Nutritional Data					
	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Vivar				% of Vivar					
Vivar	-	100	100	100	100	100	100	100	100	100
Murphy	-	109	113	92	86	91	72	178	127	88
Pronghorn	-	114	97	99	97	95	54	110	112	72
40-10/Vivar	-	96	69	70	128	96	172	109	108	118
40-10/Murphy	-	80	80	64	140	92	157	114	128	117
40-10/Pronghorn	-	84	103	75	127	96	148	112	117	102
Tucker/Vivar	-	79	116	81	130	95	175	106	129	112
Tucker/Murphy	-	93	105	74	110	91	119	108	136	101
Tucker/Pronghorn	-	90	96	84	122	95	136	118	125	97

LATE SEEDED

Variety	Yield by Area (see map)				Nutritional Data					
	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Vivar				% of Vivar					
Vivar barley	100	100	100	100	100	100	100	100	101	100
Murphy oats	92	177	187	104	101	94	90	99	124	165
Pronghorn triticale	74	130	149	109	112	96	70	125	113	104
Crown Millet	73	59	88	66	125	101	82	115	132	104
Golden German	41	40	49	57	130	97	111	105	202	135
Millet King RP	69	57	76	67	126	98	85	112	130	187
Siberian Millet	67	68	69	53	123	97	87	101	166	190

TRITICALE

Variety	Yield by Area (see map)				Nutritional Data					
	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Pronghorn				% of Pronghorn					
AC Ultima	101	105	106	92	99	102	91	105	87	105
Bunker	87	90	102	87	99	99	107	97	89	108
Companion	101	99		103	95	101	89	105	84	102
Pronghorn	100	100	100	100	100	100	100	100	100	100
Taza	75	82	85	72	108	98	99	108	100	96
Tyndal	91	86	100	87	100	99	96	104	92	98

BARLEY

Variety	Row Type	Awn Type	Yield by Area (see map)				Nutritional Data					
			1	3	4	5	CP	TDN	Ca	P	K	Mg
			% of Vivar				% of Vivar					
AC Lacombe	6	S	90	96	93	92	97	99	125	99	103	94
AC Ranger	6	S	88	93	93	89	102	99	116	103	115	100
Busby	2	R	102	101	93	103	104	102	84	101	83	75
CDC Austenson	2	R	96	120	87	105	106	98	88	95	103	82
Chigwell	6	S	110	100	85	96	101	99	117	96	102	98
Cowboy	2	R	105	113	98	105	94	98	196	105	103	91
Ponoka	2	R	99	113	101	100	108	98	116	96	99	89
Seebe	2	R	97	107	100	101	105	97	97	102	101	82
Sundre	6	S	98	93	98	94	98	96	117	99	111	100
Trochu	6	S	96	100	88	94	100	99	114	89	104	100
Vivar	6	R	100	100	100	100	100	100	100	100	100	100
Xena	2	R	99	92	91	95	108	100	87	106	86	86

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Forage Helpline Alberta Ag-Info Centre: 310-FARM (3276) in Alberta and 403-742-7901 outside Alberta.

Forage references:

How to Purchase High Quality Forage Seed – FS120 / 45-1

Establishing Perennial Hay and Pasture Crops – FS120 / 22-2

These publications can be obtained from the Alberta Agriculture Publications Office. Call the toll-free line at 1-800-292-5697.

Other forage species and new varieties not listed in this publication are sometimes seeded by producers in Alberta.

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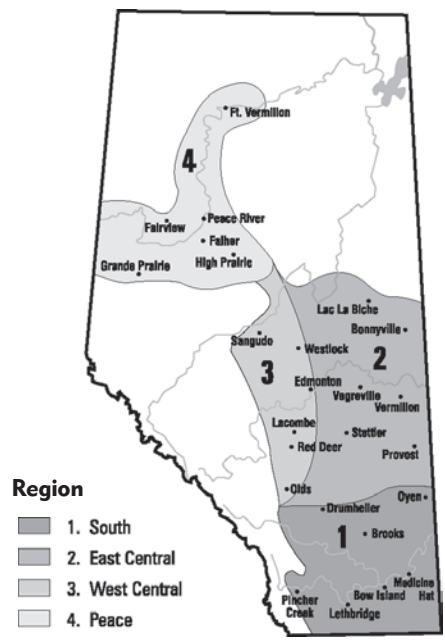
Special Crops

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A sincere thank you to Alberta Pulse Grower Commission for contributing to the Pulse Science Cluster Project that is run under AAFC, Growing Forward program; to breeders and seed companies for paying testing fees to the Alberta Branch of Canadian Seed Growers' Association and the Ministry of Agriculture and Rural Development. Finally, about two thirds of our trials were Alberta producers' fields and we appreciate their cooperation and dedication as well.

Methodology

The Regional Variety Trials examine seed yield as well as other data such as plant height, standability at physiological maturity, disease reaction and thousand seed weight. Varieties within each table are arranged in alphabetical order. The check variety for each crop type is displayed in bold at the top of the table. Cultivar yield data is shown as per cent of the check and the station years of testing column is located beside the yield. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested.



The CV stands for coefficients of variation in the trial and is expressed as a percentage. Large CVs mean a large amount of variation could not be attributed to differences between varieties. The lower the CV the better is the quality of data.

2011 Data

There were 18 green and yellow pea sites established across Alberta and two sites in northeastern British Columbia. Sites in Alberta consisted of four green plus a check (Cooper) and seven yellow plus a check (Cutlass) cultivars replicated four times in a randomized complete block design. Three green and five yellow variety trials failed because of unacceptable coefficients of variation (higher than 15%).

2011 was an excellent year for growing chickpea trials. Five desi and five kabuli varieties plus checks (Myles and CDC Frontier) were grown at Bow Island, Brooks, Lethbridge and Medicine Hat. All the chickpea variety trials were successfully harvested with an average CV less than 9.8%.

Lentil trials were grown at Bow Island, Brooks, Lethbridge, Medicine Hat and Killam (late only) as separate early and late trials. The early trial had 16 varieties plus a check (CDC Redberry) and the late trial included six varieties plus a check (CDC Plato). Unfortunately, one early – Medicine Hat and one late – Killam sites failed because of unacceptable CVs even though the cultivars performed very well at those locations.

Wide row dry bean trials were successfully grown at Bow Island, Lethbridge and Vauxhall. Narrow row dry bean trials were grown at two sites Lethbridge and Vauxhall. There were 12 varieties including checks in both trials and all grown under irrigation. Data from the Vauxhall narrow row site could not be used because of higher than 15% CV.

There were no fababean regional trials grown in 2011 due to no new varieties being registered.

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Flax: CDC Sorrel

Peas: Thunderbird, CDC Patrick

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CHARTER

DRY BEANS - NARROW ROW

Variety	Type	Site Years 1997 - 2011 ¹	Yield (% of check)	Days to Bloom ²	Days to Maturity	TSW ³ (g)	Plant Ht. (cm)	Lodging ⁴ (1 - 5)	Growth Habit ⁵
AC BLACK DIAMOND (kg/ha)	Black Shiny		2730						
AC BLACK DIAMOND	Black Shiny	15	100%	56	102	254	38	2.4	II
AC Black Violet	Black Matte	8	87	59	6	165	42	2.3	II
AC ISLAND (kg/ha)	Pinto		2560						
AC ISLAND	Pinto	5	100%	60	104	344	44	2.9	II
CDC WM-1	Pinto	1	75	59	-11	347	35	2.8	I
CDC WM-2	Pinto	2	62	60	0	348	47	2.5	II
Medicine Hat (A)	Pinto	1	111	63	7	355	53	2	II
Winchester	Pinto	2	83	58	1	335	49	2.6	II
AC POLARIS (kg/ha)	Great Northern		2811						
AC POLARIS	Great Northern	16	100%	56	103	304	39	3.5	II
AC Alert	Great Northern	12	96	56	1	333	48	2.8	II
AC Resolute	Great Northern	12	92	54	-4	333	40	2.4	II
L 06E613 (A)	Great Northern	1	92	50	12	355	42	2.2	II
AC REDBOND (kg/ha)	Small Red		2522						
AC REDBOND	Small Red	16	100%	51	100	302	39	2.3	II
ARIKARA YELLOW(kg/ha)	Yellow		2300						
ARIKARA YELLOW	Yellow	13	100%	50	98	389	36	1.9	I
CDC Sol	Yellow	1	57	51	1	401	36	1.5	I
VIVA (kg/ha)	Pink		2219						
VIVA	Pink	14	100%	52	99	248	32	3.5	III

REMARKS: A = First year entries (2011); 1 Trials failed in 2010; 2 Days to bloom from seeding; 3 Thousand Seed Weight; 4 1 = erect, 5 = flat; 5 I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.



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DRY BEANS - WIDE ROW

Variety	Type	Site Years 1997 - 2011 ¹	Yield (% of check)	Days to Bloom ²	Days to Maturity	TSW ³ (g)	Plant Ht. (cm)	Lodging ⁴ (1 - 5)	Growth Habit ⁵
AC BLACK DIAMOND (kg/ha)	Black Shiny		2946						
AC BLACK DIAMOND	Black Shiny	36	100%	57	104	263	39	2.1	II
AC Black Violet	Black Matte	28	83	61	4	175	41	2.0	II
AC ISLAND (kg/ha)	Pinto		3564						
AC ISLAND	Pinto	10	100%	57	103	362	41	2.8	II
CDC WM-1	Pinto	3	64	60	-5	332	36	1.9	I
CDC WM-2	Pinto	5	70	59	-3	362	45	1.5	II
Medicine Hat (A)	Pinto	3	82	68	1	334	41	1.3	II
Othello	Pinto	8	90	58	0	353	36	3.5	III
Pecos	Pinto	3	87	54	3	314	48	2.5	III
Winchester	Pinto	10	87	55	-2	339	40	2.3	II
AC POLARIS (kg/ha)	Great Northern		3167						
AC POLARIS	Great Northern	36	100%	56	105	313	41	3.5	II
AC Resolute	Great Northern	19	94	53	-4	340	42	2.3	II
L 06E613 (A)	Great Northern	2	100	65	8	358	46	2.9	II
AC REDBOND (kg/ha)	Small Red		3208						
AC REDBOND	Small Red	36	100%	53	101	318	41	2.4	II
MYASI (kg/ha)	Yellow		1735						
MYASI	Yellow	2	100%	67	115	377	23	1.0	I
CDC Sol	Yellow	2	119	66	-7	441	35	1.0	I
VIVA (kg/ha)	Pink		3033						
VIVA	Pink	37	100	55	104	255	36	3.6	III

REMARKS: A = First year entries (2011); 1 Trials failed in 2010; 2 Days to bloom from seeding; 3 Thousand Seed Weight; 4 1 = erect, 5 = flat; 5 I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.



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CHICKPEAS - DESI

Variety	Region (see map)						Agronomic Characteristics					Resistance to: Ascochyta ⁴
	1		2		4		Total Site Years	Average Yield (%)	TSW ² (g)	Mat. Rating ³	Plant Ht. (cm)	
	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)						
RELATIVE YIELD AS % OF MYLES: 2003 - 2011¹												
MYLES (kg/ha)	2782		1613		1598		2453					
MYLES	13	100	4	100	2	100	19	100	208	M	39	F
1064 - 21 (A)	2	109	XX	XX	XX	XX	2	109	237	M	38	F
CDC Anna	11	110	3	105	2	75	16	105	200	M	42	F
CDC Cabri	14	111	3	95	2	88	19	106	330	E	42	F
CDC Corinne	4	124	XX	XX	XX	XX	4	124	240	M	34	F
CDC Cory (A)	2	113	XX	XX	XX	XX	2	113	250	M	39	F
CDC Desiray	11	105	3	94	2	109	15	103	200	M	38	F
CDC Nika	11	114+	3	106	2	72	15	107	320	E	43	F
CDC Vanguard	6	112	1	108	XX	XX	7	112	230	ML	39	F

REMARKS: A = First year entries (2011); 1 Trials failed in 2010 due to wet and late season; 2 Thousand Seed Weight; g; 3 Maturity Rating: E = Early, M = Medium, ML = Medium Late, L = late; 4 Resistance to Ascochyta: VP = Very Poor, P = Poor, F = Fair; XX - No data.

CHICKPEAS - KABULI

Variety	Region (see map)						Agronomic Characteristics					Resistance to: Ascochyta ⁴
	1		2		4		Total Site Years	Average Yield (%)	TSW ² (g)	Mat. Rating ³	Plant Ht. (cm)	
	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)						
RELATIVE YIELD AS % OF CDC FRONTIER: 2003 - 2011¹												
CDC FRONTIER (kg/ha)	3649		1971		1506		3078					
CDC FRONTIER	14	100	3	100	2	100	19	100	350	L	43	F
1041 - 3 (A)	4	87-	XX	XX	XX	XX	4	87-	441	ML	41	F
Amit (R)	14	89-	3	89	2	91-	19	90-	260	L	44	F
CDC Alma (A)	4	83-	XX	XX	XX	XX	4	83-	350	ML	39	VP
CDC Chichi	6	77	2	75	XX	XX	8	77	360	M	47	P
CDC Chico	6	84	2	94	XX	XX	8	87	250	E	46	VP
CDC Diva	10	70	3	65	2	84	15	71-	460	L	41	F
CDC Luna	4	91-	XX	XX	XX	XX	4	91-	370	ML	41	P
CDC Orion (A)	4	86-	XX	XX	XX	XX	4	86-	430	ML	39	P
CDC Xena	10	74	3	63	2	68	15	72-	450	L	41	VP
CDC Yuma	10	75-	3	70	2	69	15	73-	430	L	45	P
Sanford	10	71	3	65	2	56	15	69-	400	L	47	VP

REMARKS: A = First year entries (2011); 1 Trials failed in 2010 due to wet and late season; 2 Thousand Seed Weight; g; 3 Maturity Rating: E = Early, M = Medium, ML = Medium Late, L = late; 4 Resistance to Ascochyta: VP = Very Poor, P = Poor, F = Fair; XX - No data. New check - CDC Frontier (previously Sanford).



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CHICKPEAS

	S	F	R	C
CDC ALMA BI: CDC, Dist: N/A Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F		
CDC FRONTIER BI: CDC, Dist: Sask. Pulse Growers Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
CDC LEADER BI: CDC, Dist: N/A Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			
CDC ORION BI: CDC, Dist: N/A Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			

FABABEANS

Variety	Site Years 2000 - 2008 ¹	Relative Yield (% of Earlybird) 2000 - 2008	Relative Maturity ²	Plant Height (cm)	Thousand Seed Weight (g)	Flower Colour ³
Earlybird (kg/ha)		5462				
Earlybird ☼	27	100	E	86	540	C
CDC Blitz (R)	37	98	ML	96	460	C
CDC Fatima (R)	31	94	M	92	530	C
Snowbird ☼	24	105	E	93	530	W
FULLY TESTED VARIETIES						
Aladin (R)	Fully Tested	82	L	100	430	C
Ben	Fully Tested	110	E	101	580	C
Cresta	Fully Tested	98	M	86	590	W
Hertz Freya	Fully Tested	80	L	111	400	C
Orion (R)	Fully Tested	84	M	77	350	C
Outlook	Fully Tested	92	L	100	370	C
Pegasus	Fully Tested	88	L	99	390	C
Scirocco	Fully Tested	104	ML	89	580	C

REMARKS: Varieties with more than 10 site years are Fully Tested. Fully Tested varieties not tested in 2008. ☼ = Indicates varieties with Plant Breeders Rights; R = Registered with CFIA; 1 No trials in 2011. Trials failed in 2010. 2 Maturity: E = early, M = medium, ML = medium late, L = late; 3 Flower Colour: W = white flower, zero tannin, C = colored flower, tannin. All colored flower types have seed coats that contain tannins and may be suitable for export food markets if seed size and quality match customer demand.

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LENTIL - EARLY

Variety	Region (see map)								Agronomic Characteristics								Disease Resistance ⁶	
	1		2		3		4		Total Site Years	Average Yield (%)	TSW ¹ (g)	Plant Ht. (cm)	Mat. Rating ²	Coty-ledon Col. ³	Seed Coat Col. ⁴	Mkt. Class ⁵	Asco-chyta	Anthracnose
	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)										
RELATIVE YIELD AS % OF REDBERRY: 2004 - 2011																		
CDC REDBERRY (kg/ha)	2500		1211		3968		2109		2292									
CDC REDBERRY	10	100	3	100	1	100	1	100	15	100	43	36	E	R	GR	SR	G	G
CDC Blaze (R)	5	98	3	97	1	66	1	64	10	85-	38	30	E-M	R	GR	SR	G	P
CDC Cherie (A)	3	108	XX	XX	XX	XX	XX	XX	3	108	41	35	E-M	R	G	SR	G	F
CDC Dazil (A)	3	102	XX	XX	XX	XX	XX	XX	3	102	36	37	E-M	R	GR	SR	G	F
CDC Imax (CL)	4	105	XX	XX	XX	XX	XX	XX	4	105	45	40	E-M	R	GR	SR	G	F
CDC Impact (R; CL)	7	86-	1	72	XX	XX	XX	XX	8	84-	36	37	E	R	GR	SR	G	P
CDC Impala (CL)	5	103	XX	XX	XX	XX	XX	XX	5	103	30	37	E	R	GR	ESR	G	G
CDC Imperial (R; CL)	7	85-	1	110	XX	XX	XX	XX	8	88-	29	38	E	R	GR/BR	ESR	G	G
CDC Invincible (CL)	4	108	XX	XX	XX	XX	XX	XX	4	108	33	37	E	Y	G	SG	G	G
CDC Maxim (R; CL)	5	110	XX	XX	XX	XX	XX	XX	5	110	42	34	E-M	R	GR	SR	G	G
CDC Milestone®	15	107	3	92	1	58	1	90	18	100	39	32	E	Y	G	SG	G	VP
CDC Peridot (CL)	1	116	XX	XX	XX	XX	XX	XX	1	116	37	XX	E	Y	MRB	FG	F	P
CDC Redbow	5	108	XX	XX	XX	XX	XX	XX	5	108	32	39	E	R	GR	ESR	G	G
CDC Redcliff (A)	3	119	XX	XX	XX	XX	XX	XX	3	119	39	38	E-M	R	GR	SR	G	F
CDC Redcoat	5	107	XX	XX	XX	XX	XX	XX	5	107	42	35	E	R	GR	SR	G	G
CDC Robin®	10	91-	3	83	1	65	1	71	15	87-	28	34	E	R	BR	ESR	G	G
CDC Rosebud	5	107	XX	XX	XX	XX	XX	XX	5	107	30	37	E	R	T	ESR	G	G
CDC Rosetown	7	113	1	95	XX	XX	XX	XX	8	111	31	40	E	R	GR	ESR	G	G
CDC Rouleau®	3	103	1	105	XX	XX	1	117	5	106	37	37	M	R	GR	SR	G	G
CDC Ruby (A)	3	95	XX	XX	XX	XX	XX	XX	3	95	28	33	E	R	GR	ESR	G	G
CDC Viceroy (R)	10	108	3	106	1	94	1	100	13	108	35	33	E	Y	G	SG	G	G
Crimson (R)	6	100	2	56	1	42	1	92	10	82	39	27	E	R	BR	SR	VP	VP
Eston®	3	93	1	95	XX	XX	1	70	5	89	34	35	E	Y	G	SG	VP	VP
Pardina	1	106	XX	XX	XX	XX	XX	XX	1	106	40	XX	X	Y	GR/DT	SB	VP	VP

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FIELD PEAS - GREEN

Region (see map)

Variety	1		2		3		4		Agronomic Characteristics						
	Irrigation	Dry Land	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Total Site Years	Overall Yield (%)	Mat. Rating ¹	Vine Length (cm)	TSW ² (g)

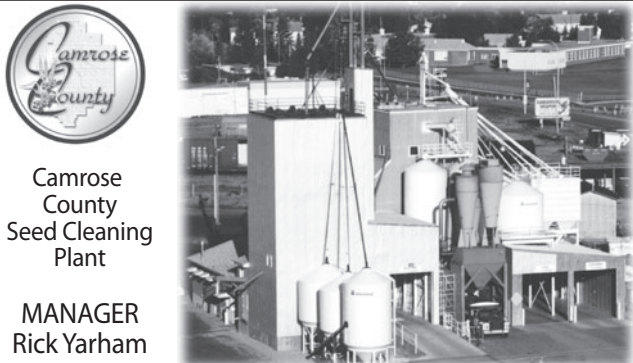
RELATIVE YIELD AS % OF COOPER: 2004 - 2011

COOPER (kg/ha)	XX	4230	3759	5884	4741	4586										
COOPER ☼	XX	XX	18	100	33	100	21	100	40	100	111	100	L	75	273	4
CDC Patrick	XX	XX	10	104	17	99	10	98	22	98	58	99	M	84	189	4.5
CDC Pluto (A)	XX	XX	5	92	4	95	2	82	7	89	17	89	M	94	173	5.5
CDC Raezer (A)	XX	XX	5	91	4	120	2	97	7	97	17	97	M	103	225	3.5
CDC Tetrus (A)	XX	XX	5	90	4	114	2	90	7	91	17	94	L	105	216	4

FULLY TESTED VARIETIES: RELATIVE YIELD AS % OF NITOUCHE: 2000 - 2009

NITOUCHE (kg/ha)	4586	2568	2955	5047	3914	3601										
NITOUCHE	6	100	18	100	45	100	27	100	53	100	149	100	M	69	270	3.4
Cooper ☼	XX	XX	12	105	23	102	17	111	29	108	81	107	L	70	280	2.9
CDC Sage	XX	XX	5	80	8	86	8	97	13	91	34	90	M	71	220	3.1
CDC Striker	1	71	8	90	19	95	8	95	21	95	59	94	M	66	240	2.9
Mendel ☼	XX	XX	1	96	6	99	2	94	12	99	21	99	M	75	214	3.8

REMARKS: ☼ = Indicates variety with Plant Breeder's Rights; A = First year entries (2011); XX = No data available. New names: CDC Raezer (CDC 2235-4). CDC Tetrus is an Espace type with blocky seed shape. Camry, CDC 1932-201, Stratus, SW Parade and Tamora dropped. 1 Maturity: E = Early, M = Medium, L = Late; 2 Thousand Seed Weight; 3 Standability: 1 = Erect, 9 = Flat; 4 Resistance to: P = Poor, F = Fair, G = Good, VG = Very Good; 5 Seed Coat Dimpling: VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).



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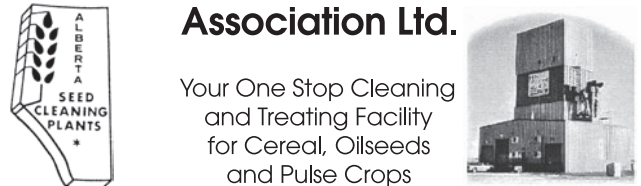


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Other Characteristics

Resistance to: ⁴

Variety	Powdery Mildew	Myco. Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimp. ⁵
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RELATIVE YIELD AS % OF COOPER: 2004 - 2011

COOPER (kg/ha)

COOPER ☼	VG	F	F	G	F	G
CDC Patrick	VG	F	G	G	G	G
CDC Pluto (A)	VG	F	F	G	G	G
CDC Raezer (A)	VG	F	G	G	G	G
CDC Tetris (A)	VG	F	G	G	G	G


FULLY TESTED VARIETIES: RELATIVE YIELD AS % OF NITOUCHE: 2000 - 2009

NITOUCHE	P	P	P	G	F	F
Cooper ☼	VG	F	F	G	F	G
CDC Sage	VG	F	G	G	VG	G
CDC Striker	P	F	G	G	G	F
Mendel ☼	VG	F	F	G	F	G



2011 Regional Variety Trials for peas were conducted at the locations indicated above.

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FIELD PEAS - YELLOW

Region (see map)

Variety	1		2		3		4		Agronomic Characteristics						
	Irrigation	Dry Land							Total Site Years	Overall Yield (%)	Mat. Rating ¹	Vine Length (cm)	TSW ² (g)	Stand. ³ (1-9)	
Site Years	Yield (%)	Site Years	Yield (%)	Site	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)						
RELATIVE YIELD AS % OF CUTLASS: 2003 - 2011															
CUTLASS (kg/ha)	3934	3188	3436	5568	4600	4200									
CUTLASS ☼	XX 100	26 100	38 100	25 100	54 100	144 100	M	71	229	3.9					
Argus ☼	XX XX	7 100	9 112	3 103	10 102	29 105	M	90	227	4.1					
Canstar ☼	XX XX	15 98	24 106	15 103	26 102	80 102	M	80	237	3.3					
CDC Hornet	XX XX	10 101	12 114	6 110	15 103	43 107	M	89	215	3.5					
CDC Meadow	XX XX	13 104	19 116	11 106	26 108	69 109	E	82	214	3.1					
CDC Saffron (A)	XX XX	5 108	4 114	1 111	5 96	15 106	M	94	235	3.8					
Hugo ☼	XX XX	7 111	9 107	3 106	12 104	31 107	M	76	219	4.4					
Stella ☼ NR F	XX XX	7 76	9 95	3 94	10 82	29 86	M	98	213	4.0					
FULLY TESTED VARIETIES															
CUTLASS ☼	100	100	100	100	100	100	M	3.9							
Agassiz ☼	XX XX	6 100	11 102	9 102	16 104	42 103	M	77	238	2.9					
CDC Centennial	XX XX	5 101	12 99	9 104	14 100	40 101	E	61	259	4.8					
CDC Prosper NR	XX XX	6 93	12 97	8 97	15 99	41 97	E	73	151	4.0					
CDC Treasure NR	XX XX	6 96	12 105	8 98	15 100	41 101	E	80	219	3.5					
DS-Admiral ☼	1 91	13 97	18 108	13 98	24 104	69 102	M	68	246	3.2					
Eclipse ☼	1 113	20 106	41 104	25 97	45 101	136 102	M	69	252	3.0					
Polstead ☼	XX XX	5 97	12 99	9 99	16 104	42 101	E	62	262	3.7					
Reward ☼	XX XX	5 86	12 106	9 102	13 101	39 101	M	76	248	2.5					
SW Midas ☼	XX XX	10 103	17 106	11 91	21 99	59 100	E	65	213	3.1					
Thunderbird	XX XX	6 89	11 96	9 99	13 99	39 97	M	76	228	2.1					
FULLY TESTED VARIETIES (RELATIVE YIELD AS % OF CARRERA): 2000 - 2005															
CARRERA (kg/ha)	4459	2593	2926	5098	3986	3677									
CARRERA ☼	6 100	14 100	28 100	15 100	33 100	96 100	E	52	260	4.6					
CDC Bronco	1 93	11 91	14 102	8 94	15 117	49 102	M	63	220	4.1					
CDC Golden	1 109	11 101	14 105	8 102	15 109	49 105	M	68	220	3.4					
CDC Handel	2 116	8 95	17 94	7 87	14 102	48 96	L	67	200	6.2					
CDC Minuet	5 115	12 97	26 100	11 92	22 111	76 102	M	64	190	4.9					
CDC Mozart	2 110	8 108	17 100	7 97	14 105	48 103	M	61	240	5.9					

REMARKS: ☼ = Indicates variety with Plant Breeder's Rights; A = First year entries (2011); NR = Variety not registered with CFIA; F = Forage type. XX = No data available. New names: CDC Saffron (CDC 2093-22). Stella is a silage type pea. CDC 1897-14_DS-Stalwarth, Eiffel, Miser and Noble dropped. 1 Maturity: E = early, M = medium, L = Late; 2 Thousand Seed Weight: g; 3 Standability: 1 = erect, 9 = flat; 4 Resistance to: P = poor, F = fair, G = good, VG = very good; 5 Seed Coat Dimpling: VG = very good (0 - 5%), G = good (6 - 20%), F = fair (21 - 50%); 6 Green Seed Coat: G = good (0 - 10%), F = fair (11 - 25%).

PEAS

AGASSIZ

BI: AAFC (Lacombe), Dist: Canterra Seeds

Kapitski, Lawrence / Andrew / (780) 365-2134

Wuthrich, David / Cecil Lake / (250) 781-3527

ARGUS

BI: AAFC (Lacombe), Dist: SeCan Members

Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240

Oatway, Ward / Lacombe / (403) 784-3418

CANSTAR

BI: AAFC (Morden), Dist: Canseed (Canada) Ltd.

Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595

Richards, Cliff & Dan / Sexsmith / (780) 766-2266

Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253

Zwack, Bryan / Daysland / (780) 374-3577

CDC CENTENNIAL

BI: CDC, Dist: Sask. Pulse Growers

Jonk, Nicholas / Westlock / (780) 349-5458

Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500

Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736

Van Roessel, William & Jean / Bow Island / (403) 545-6018

CDC GOLDEN

BI: CDC, Dist: Sask. Pulse Growers

Degenhardt, Keith L., Terry L. & K. / Hughenden / (780) 856-2383

CDC HORIZON

BI: CDC, Dist: N/A

Airth, Jock & Linda / Brooks / (403) 362-4372

Hadland, Edward / Baldonnel / (250) 789-3646

Mastin, Robert B. / Sundre / (403) 556-2609

Warkentin, Harold K. & Errol / Tofield / (780) 662-2617

CDC LEROY

BI: CDC, Dist: N/A

Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358

CDC MEADOW

BI: CDC, Dist: Sask. Pulse Growers

Archer, Charles Darrel / Wetaskiwin / (780) 352-3179

Benci, Dennis / Carmangay / (403) 643-2294

Crop Production Services Canada / Didsbury / (403) 335-9171

Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303

Cyre, Clifford & Greg / Barrhead / (780) 349-4775

Dallas, Bradley C. / Bowden / (403) 224-2162

Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456

Foster, Norman R. / Beaverlodge / (780) 354-2107

Hadland, Edward / Baldonnel / (250) 789-3646

Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268

Hoff, Peter Edward / Gleichen / (403) 734-2140

Jacula, Dean S. & Shawn D. / Vermilion / (780) 853-7333

Kapitski, Lawrence / Andrew / (780) 365-2134

Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338

King, Harold F. / Three Hills / (403) 443-7330

Kittle, James W. & Andrew / Viking / (780) 336-2583

Kopjar, Gerald M. / Rowley / (403) 368-2409

Limoges, Marcel / Mc Lennan / (780) 324-3024

Markert Seeds Ltd. / Vulcan / (403) 485-6708

Massey, Derwin / Stettler / (403) 883-2503

Mastin, Robert B. / Sundre / (403) 556-2609

S F

S F

S F

Variety	Resistance to: ⁴					
	Powdery Mildew	Myc. Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimp. ⁵	Green Seed Coat ⁶
RELATIVE YIELD AS % OF CUTLASS: 2003 - 2011						
CUTLASS (kg/ha)						
CUTLASS ☼	VG	F	F	F	F	G
Argus ☼	VG	F	F	F	F	G
Canstar ☼	VG	P	G	G	G	G
CDC Hornet	VG	F	F	F	F	G
CDC Meadow	VG	F	F	G	G	G
CDC Saffron (A)	VG	F	F	G	VG	G
Hugo ☼	VG	F	F	G	F	F
Stella ☼ NR F	VG	F	F	G	G	F
FULLY TESTED VARIETIES						
CUTLASS ☼	VG	F	F	F	F	G
Agassiz ☼	VG	F	F	G	VG	G
CDC Centennial	VG	F	G	G	G	F
CDC Prosper NR	VG	F	G	G	F	G
CDC Treasure NR	VG	F	F	G	F	F
DS-Admiral ☼	VG	P	F	F	G	F
Eclipse ☼	VG	F	F	G	F	G
Polstead ☼	VG	P	P	F	VG	F
Reward ☼	VG	F	F	G	VG	F
SW Midas ☼	VG	P	F	G	G	G
Thunderbird	VG	F	F	G	VG	XX
FULLY TESTED VARIETIES (RELATIVE YIELD AS % OF CARRERA): 2000 - 2005						
CARRERA (kg/ha)						
CARRERA ☼	P	P	F	F	G	XX
CDC Bronco	VG	F	F	G	G	G
CDC Golden	VG	F	F	G	G	G
CDC Handel	VG	F	P	G	G	F
CDC Minuet	VG	F	F	F	G	F
CDC Mozart	VG	F	F	G	G	F
Meinczinger, Matthew Jr. / Busby / (780) 349-2456						C
Mueller, Donald A. / Three Hills / (403) 823-3177						C
Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595					R	C
Nemetz, Charlie, J., L. & Brandon / Stettler / (403) 742-0436						C
Page, Dan / Didsbury / (403) 335-4563						C
Pare, Raymond A. / Wainwright / (780) 842-2073		S	F	R		C
Penner, Larry / Three Hills / (403) 443-7212						C
Peters, Edward W. / Didsbury / (403) 335-4506						C
Radke, Bryan Victor / Barrhead / (780) 674-5715				F	R	C
Sand, Ron W. & D. R. / McLaughlin / (780) 745-2255						C
Sich, Louis John & Ivan / Trochu / (403) 442-2112						C
Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358						C
Tomlinson, Chelsea / Redwater / (780) 777-5885						C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617					R	C
Weigum, Garry / Three Hills / (403) 443-2476					R	C
Welsh, Donald Alan / Milk River / (403) 647-2228						C
Welsh, Stuart Jason / Milk River / (403) 647-2228						C
CDC PATRICK						
BI: CDC, Dist: N/A						
Blotski, John & Elizabeth / Edmonton / (780) 454-7277						C
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303						C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036						C
Hegland, David Olaf / Wembley / (780) 766-2450						C
Hill, Gordon P. / Taylor / (250) 789-3469						C
Howard, Fred / Wanham / (780) 694-2427						C
Longson, Wayne / Beaverlodge / (780) 354-2898					R	C
McDonald, Gerald / Grande Prairie / (780) 538-3868						C
Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595		F				C
Sich, Louis John & Ivan / Trochu / (403) 442-2112						C
Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535						C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617		F				C
Zwack, Thomas / Daysland / (780) 374-2450						C
CDC PLUTO						
BI: CDC, Dist: N/A						
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		S				C

CDC SAFFRON						
BI: CDC, Dist: N/A						
Benci, Dennis / Carmangay / (403) 643-2294						S
Hoff, Peter Edward / Gleichen / (403) 734-2140						S
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338						S
Kopjar, Gerald M. / Rowley / (403) 368-2409						S
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500						S
Markert Seeds Ltd. / Vulcan / (403) 485-6708						S
Mercer, Lloyd A., C. & Ryan / Lethbridge / (403) 327-9736						S
Webber, John D.J. / Berwyn / (780) 338-3657						S
Welsh, Donald Alan / Milk River / (403) 647-2228						S
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434						S
CDC SAGE						
BI: CDC, Dist: Sask. Pulse Growers						
Airth, Jock & Linda / Brooks / (403) 362-4372						C
CDC TETRIS						
BI: CDC, Dist: N/A						
Cox, Donald C. / Fairview / (780) 835-2418						S
Mastin, Robert B. / Sundre / (403) 556-2609						S
Mueller, Richard J., R.R. & Rosemary / Barrhead / (780) 674-2595						S
Rewerts, Ken / Fairview / (780) 835-3474						F
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434						F
COOPER						
BI: Cebeco Zaden, Dist: Canterra Seeds						
Cyre, Clifford & Greg / Barrhead / (780) 349-4775						R
Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240						C
Plante, Jacques / St. Paul / (780) 645-4604						C
CUTLASS						
BI: Cebeco Zaden, Dist: Canterra Seeds						
Webber, John D.J. / Berwyn / (780) 338-3657						C
GARDE						
BI: Innoseeds B.V., Dist: Bob Park						
Crop Production Services Canada / Didsbury / (403) 335-9171						C
Hegland, David Olaf / Wembley / (780) 766-2450						C
Rewerts, Ken / Fairview / (780) 835-3474						C
SORENTO						
BI: Limagrain, Dist: FP Genetics						
Dalton, Dennis / Wainwright / (780) 842-2361						C
SW MIDAS						
BI: AAFC (Lacombe), Dist: FP Genetics						
Andersen, Ed. A. & Kathy & B.W. / Kitscoty / (780) 847-2022						C
THUNDERBIRD						
BI: AAFC (Lacombe), Dist: Canterra Seeds						
Airth, Jock & Linda / Brooks / (403) 362-4372						C
Andrukow, Allan / Viking / (780) 385-6402						C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036						C
Kaun, Mark L. / Penhold / (403) 886-4562						R
King, Harold F. / Three Hills / (403) 443-7330						C
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Lindholm, Craig, Stevan & Dane / New Norway / (780) 352-3240						C
Senziaik, Don P. & Stephen / Edmonton / (780) 434-1322						R
Solick, Leonard, Kelsey & Corwin / Halkirk / (403) 884-2358						R
soybeans						
		S	F	R	C	
27005RR						
BI: N/A, Dist: N/A						
Fabian, Patrick V. / Tilley / (403) 377-2000						C
29002RR						
BI: N/A, Dist: N/A						
Fabian, Patrick V. / Tilley / (403) 377-2000						C
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268						C



Midge-Tolerant Wheat Proves its Value in the Field

This is the second year that midge tolerant wheat has been widely available to growers and the results are in: **Prairie farmers are pleased.**

NEAR Wainwright, Alta., Raymond Pare grew AC Unity VB and a newer, midge-tolerant variety, AC Vesper VB. Pare was pleased with the outcome. "The varieties are good on their own," he says. "The midge-tolerant technology is just a bonus." Wheat midge isn't a huge challenge in Pare's area, but he's not sure that will always be the case. "Down the road, we see midge being more and more of an issue in Alberta."

With midge-tolerant technology working for him, Wylie didn't even consider spraying. "You're paying for the technology. You might as well use it." While he did notice a few midges in the area, Wylie wasn't worried. "I didn't have to go out with a pie plate checking for midge every night. You trust the technology."

AC Goodeve VB was another popular midge-tolerant wheat variety grown in 2011, joining AC Unity VB in the top ten list of Canada Western Red Spring varieties seeded across the prairies. New varieties available for 2012 planting include AC Shaw VB, CDC Utmost VB and AC Conquer VB. Visit www.midgetolerantwheat.ca for a full list of seed varieties available.

Lyle Cowell is the manager of Viterra's agronomic services in Tisdale and Melfort, Sask. Cowell says that farmers growing midge-tolerant wheat in his area had exceptionally good yields. "They're good varieties," he says. "Not just because they're midge tolerant." Cowell believes midge-tolerant technology relieves a lot of stress for farmers, taking away both the need to check for midge, and the need to spray. "Farmers, by and large, don't like to spray insecticide."

Stephen Fox, an Agriculture and Agri-Food Canada wheat breeder, believes the 2011 growing season was a good test for new midge-tolerant wheat varieties. "This year will be educational for a lot of people, because there was a fair bit of midge out there." As well as lowering insecticide costs, midge-tolerant wheat can add to farm profits by preventing yield and grade losses that can be caused by midge damage. Fox says, "Midge is an important

grading factor in certain areas."

Midge tolerant wheat varieties are sold as "varietal blends." Varieties containing the Sm1 gene are blended with 10 per cent midge susceptible varieties. This creates a refuge for midge that is not virulent (resistant to the Sm1 gene). As Fox says, "The primary reason for the refuge is to make sure that the non-virulent midge aren't totally devastated." If that happens, virulent midge would soon build a population able to thrive in a field seeded with midge-tolerant wheat

Nurturing non-virulent midge in the refuge could extend the life of the Sm1 gene as long as 90 years. Without the proper use of the refuge, the Sm1 gene may have a life span of only 10 years. "The concern," Fox says, "is we only have one gene. And if the midge adapt to that gene, we're sunk."

Agronomist Lyle Cowell understands the measures that must be taken to protect the gene, including the need for farmers to limit the use of farm-saved seed to one generation past certified seed. "The rules have been very fair," he says. "Farmers are quite satisfied."

Pare agrees. "We're going to continue with the new technology," he says. "Hopefully it will be widely accepted here in Alberta."

Editor's Note: This article has been brought to you by the Midge-Tolerant Wheat Stewardship Team, a broad industry coalition representing plant breeders, government, seed growers, seed distributors and producer groups.

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**ASSOCIATION OF
ALBERTA CO-OP
SEED CLEANING PLANTS**

Navigating New Territory

An autonomous field robot has been developed by Amazonen-Werke in partnership with the Osnabrück University of Applied Sciences and Robert Bosch GmbH. The robot (called BoniRob) is equipped with individual-wheel drive and a GPS system that uses agro-sensor technology for navigation. BoniRob is capable of moving independently in plant breeders' fields, and can pinpoint individual plants and re-locate them on demand. According to

Bosch, the main benefit of BoniRob is its ability to accelerate the work of plant breeders by collecting data for multiple plants simultaneously, and thus expand researchers' statistical resources. Two BoniRob robot vehicles

are currently being built which will work on maize and wheat experimental

plots. According to Bosch, "it will not be long now until field robots will be able to selectively apply fertilizer or eliminate weeds."



Fabricating Barley

A Russian scientist has recently proposed a plan for creating "synthetic barley," a standardized feed source made chiefly from biofuel by-products that could fill Russia's feed production deficit. Ingredients for the feed, in descending order, would include distillery grains, beet pulp, spirulina meal, soybean meal, soy concentrate, dehulled lupines and rapeseed meal. The total share of biofuel by-products, according to one report, would be about 73.3 per cent, while the remaining percentage of ingredients would include synthetic amino acids and other additives. A significant portion of the synthetic barley, according to the researchers, would be comprised of digestible carbohydrates, fibre and protein.

Surveilling Soybeans

Researchers from the Arkansas Agricultural Research and Extension Centre are testing a remote, unmanned aerial

reconnaissance vehicle called the Oktokopter for its ability to study soybean research plots from the air. The Oktokopter, which flies at a limit of 400 feet, can operate on a pre-programmed flight path or can be controlled remotely, and carries an infrared camera which measures temperature as an indicator of water availability to



plants on test plots. The project aims to assist researchers in collecting data for the development of drought-resistant soybean varieties. "Some soybean genotypes may not wilt as quickly because they conserve water in the soil, providing a reserve during a drought," said the Altheimer chair for soybean research, Larry Purcell, in a press release. "Other plants use deeper rooting to draw water from deeper strata in the soil. Both traits allow a plant to continue active growth, which results in water evaporating from the leaves."

Eliminating Weed Seed

A western Australian grower and inventor, with assistance from Australian Herbicide Resistance Initiative, the University of South Australia and the Grains Research and Development Corporation, has developed the Harrington Seed Destructor, an innovative new weed seed eliminator. The HSD, which contains a cage mill crushing unit and its own power supply, is towed behind a harvester. During harvest, the harvester delivers chaff to the HSD, which thoroughly processes the chaff inside the cage mill with iron bars, crushing any weed seed contained in it and rendering it unable to germinate. A product of over 10 years of development and testing on inventor Ray Harrington's own operation, the HSD has just completed wider trials in South-Eastern Australia.





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