Alberta Seed Guide

ADVANCING SEED IN ALBERTA

SPRING 2015

seed.ab.ca

Equipment Sanitation and **Clubroot Prevention**

THE **BENEFITS** OF **SEED TREATMENTS**

New Crops Present Niche Opportunities

Changes to Crop Inspection: ***How They're Working***

The End of FHB in Barley?

ADVANCING the INDUSTRY

ALBERTA'S SEED SECTOR IS MOVING FORWARD IN ALL KINDS OF WAYS

Publications Mail Agreement #40030841

PROVIDED IN PARTNERSHIP BY THE ALBERTA SEED GROWERS' ASSOCIATION AND THE ASSOCIATION OF ALBERTA CO-OP SEED CLEANING PLANTS LTD.

GET UP TO 4% BACK THIS FALL

Count on Parrish and Heimbecker for all your crop protection products and get rewarded for it. Simply contract wheat or durum with P&H and earn up to 4% back on your graminicide, fungicide and seed treatment purchases.

ASK YOUR P&H REPRESENTATIVE FOR DETAILS

Bassano, AB	403-641-2767	Mossleigh, AB	403-534-3961
Bow Island, AB	403-545-2748	Vulcan, AB	403-485-2727
Medicine Hat, AB	403-526-2831	Lethbridge, AB	403-381-8710
Milk River, AB	403-647-3633		

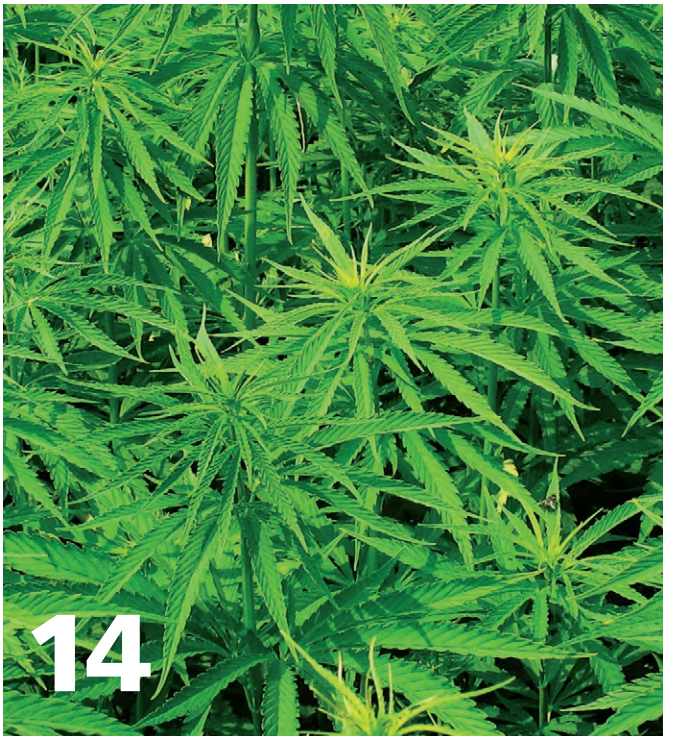
Purchase qualifying inputs by July 31, 2015. | Learn more at www.WHEATREWARDS.com

milling wheat REWARDS PROGRAM

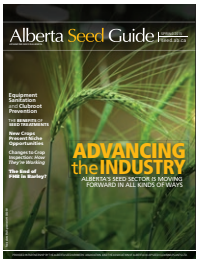
Wheat Rewards is only available at participating locations.

MOVING TRADITION forward
PARRISH & HEIMBECKER LIMITED est. 1909

FEATURES



DEPARTMENTS



ON THE COVER: The Field Crop Development Centre in Lacombe, Alta. focuses on variety development, and this plant is one of thousands of genetic lines in its breeding program. This specific plant is early generation, meaning it's from a recent cross and is early in the breeding process. It will be tested and analyzed for several years to come, and if it displays the yield, agronomic traits, disease resistance, and quality that researchers are looking for, it may be released as a variety.

Alberta Seed Guide

Spring 2015

ALBERTA SEED GROWERS' ASSOCIATION

lorena.pahl, executive director
5030-50 St.
Lacombe, AB T4L 1W8
Ph: (403) 782-8022
Fax: (403) 782-5514
Email: lorena.pahl@seed.ab.ca

ASSOCIATION OF ALBERTA CO-OP SEED CLEANING PLANTS

monica.klaas, general manager,
5030-50th St.
Lacombe, AB T4L 1W8
Office: (403) 489-9999
Fax: (403) 625-1711
monica.klaas@cleanseed.net

PUBLISHED BY

ISSUESINK MEDIA • CONTENT LAB • MARKETING

403-313 Pacific Avenue
Winnipeg, MB R3A 0M2
PRINTED IN CANADA
(204) 453-1965
Email: issues@issuesink.com

PUBLISHER
shawn.brook

EDITORIAL
julie.deering, **mark.**halsall, **lindsay.**hoffman, **shannon.**schindle, **marc.**zienkiewicz

CONTRIBUTORS
julie.mcnabb, **julienne.**isaacs

DESIGN
kyle.dratowany, **theresa.**kurjewicz, **lesley.**nakonechny

MARKETING
craig.armstrong, **maegan.**marriott, **sam.**mostafa. **lynne.**roy, **hiten.**shah

CIRCULATION
dean.french

The ***Alberta Seed Guide*** makes no expressed or implied warranties of merchantability or fitness for a particular purpose or otherwise, concerning the use of any product and assumes no liability for any injury or damage, direct or consequential, incurred from the use of such products or services therein. Federal, Provincial, and Municipal laws and regulations supersede the information contained herein.

Return undeliverable Canadian addresses to the Winnipeg office:
Issues Ink
403-313 Pacific Avenue
Winnipeg, MB R3A 0M2
PRINTED IN CANADA

INTERESTED IN ADVERTISING?
Please direct all sales or distribution inquiries to **maegan.**marriott at (204) 453-1965 or via email at mmarriott@issuesink.com

Reproduction in whole, or in part, is prohibited without written permission from the publisher.

Publications Mail Agreement No. 40030841

MINISTER OLSON

AS Minister of Agriculture and Rural Development, it is my pleasure to extend greetings to the readers of the Alberta Seed Guide and to thank the Alberta Seed Growers' Association and Association of Alberta Co-op Seed Cleaning Plants for their continued work on behalf of the agriculture industry.

The theme of this edition, Advancing the Alberta Seed Industry, is an important reminder that innovation is at the heart of agriculture's long-term success in today's competitive global marketplace. Through valuable tools like the Alberta Seed Guide, producers can stay connected and up-to-date about the latest developments in crop science and agricultural practices that result in enhanced quality and efficiency of production.

Working closely with important partners like the seed industry, our government will continue to position Alberta as a preferred and reliable world supplier of top-quality agriculture products. Together, we will enhance access to new markets, encourage innovation, and ensure consumers have the confidence that Alberta is an environmental steward and leader in areas such as plant health and safe food products.

Best wishes for a successful and productive 2015.

Verlyn Olson, QC
Minister

JOHN MCBAIN

ADVANCEMENTS in agriculture are alive and well in Western Canada. Taking a look from east to west, investment in research and development in all crop sectors from a variety of funding sources is fueling sustainability for this business of feeding the world. I know I will err in not being able to acknowledge all the awesome work that is being conducted by regional research organizations, industry groups, educational institutions, federal, and provincial governments, multinationals, and even by individual farmers.

The sheer amount of resources focused on the goal to understand biological systems in which we operate, and to ensure sustainability and efficiency, is a real eye opener. I believe the agriculture industry should be proud of all this effort and resourcefulness, and the collaboration within the industry at large.

Crop sector research in seed and variety development continues to create value for growers, whether it is in the form of a new canola seed variety being released from a multinational, or a new cereal variety developed at an Agriculture and Agri-Food Canada facility. Steps forward in variety development have brought the industry region-specific varieties that capitalize on regional environmental conditions, disease tolerance, and yield enhancements. The future of plant breeding hints at more advancements to come, possibly in water & nutrient use efficiency, end-use specific attributes, new crop entries for low heat unit climates, etc.

The amount and quality of agronomic research conducted with the goal of enhancing sustainability, and efficiency of cropping systems, is one of Western Canada's pinnacles of ongoing success. Everyone who operates within the research community will agree the "work" is not even close to being done. At times, the more we know about cropping systems, the more questions are generated as a result.

Recently at the Farming Smarter conference held in Medicine Hat, Sheri Syrydhorst of AARD reviewed her work over the past year which included 64 different treatments dealing with agronomic practices on barley, and 48 different management practices on wheat. Further, these trials were in five different locations within the province as well. This is just the tip of the iceberg as far as research and development goes in Alberta, as Syrydhorst is only one person of many who is dedicated to crop production research.

One of the crop sector's "crown jewels" is the Canadian International Grains Institute. It has a goal of ensuring cereal crops grown in Canada meet or exceed international market requirements. With milling, baking, pasta and even brewing capabilities, CIGI has the capabilities to measure and ensure Canadian-grown crops remain world market leaders. This research completes the circle from seed to field to market, which in turn assures the sustainability of western Canadian agriculture.

Research funding comes from many streams. Some research funding is included in seed and crop protection pricing, commodity checkoffs, and federal/provincial tax allocations. All funding models are not perfect, but there is effort on the part of the governing body to ensure that all research dollars allocated are relevant, and add value to the industry.

Next time you deliver grain to market, buy seed or a crop input, or even pay taxes, remember that you are part of the research circle that is tirelessly working to answer these many questions regarding crop production, crop efficiency, and marketability.

John McBain
President
Association of Alberta Co-op Seed Cleaning Plants
Email: john@odysseyfarms.com

ASSOCIATION OF
ALBERTA CO-OP
SEED CLEANING PLANTS

DONALD SENDZIAK

AS with every spring edition of the ***Alberta Seed Guide,*** we have frantically searched for the published data from Alberta's regional variety trials. Whether it's to compare how "newer" varieties are performing against your current ones or you are looking for potential replacements to address specific areas of concern, remember — it's not all just about the yield. Agronomic or quality characteristics may be just as important or even more so when trying to fix a particular problem encountered in last year's growing season.

Regional variety trial data is just one of many tools to help with your decision making — check out all available information on varieties through your local seed growers, seed companies and agronomists, ensuring your next new variety will add to your bottom line. It all starts with the seed. Certified seed ensures you are getting the true genetic potential of that particular variety. Using certified seed is one of many risk management tools, along with protecting that seed with seed treatment to ensure the seedling can overcome any challenges at that all-important early growth stage.

As seed growers, we are at the forefront of experimenting with crops that are not what you typically think are "made for Alberta." Considerable risk is at stake, which we are willing to accept as we continue to improve productivity on our farms. New, niche crops may do this by diversifying our crop rotations, breaking up existing disease and/or insect issues, and expanding marketing options. Check out the articles as we dig deeper into the exploding acreages of hemp and faba bean and why Ethiopian mustard may have a fit as an alternative to canola for the hotter and drier regions of the province.

With recent advancements in Canada's variety registration system and as amendments to Canada's Plant Breeders' Rights move through Parliament, we are seeing renewed optimism in cereal plant breeding investment and research. A thorough review of how varieties receive registration in Canada resulted in streamlining the process to ensure efficiency, transparency, and flexibility which will ensure access to new and improved varieties.

Ethiopian mustard is a niche crop with potential in Alberta. See p.16.

But at the same time, it's crucial to understand the importance of quality parameters of certain crop kinds that Canada has built its reputation around. Updating Plant Breeders' Rights legislation to UPOV 1991 compliance will increase investment, resulting in new varieties from both within Canada and outside. Prior to now, many international breeding companies would not send varieties to Canada because we were not UPOV 1991 compliant, some even refusing to evaluate varieties in Canada.

Whether it's commenting on any of the articles, topics that you would like more information on or finding certified seed of a particular variety, we would love to hear from you!

Don Sendziak
President
Alberta Seed Growers' Association
Email: sendseed@telusplanet.net

Great Yield runs in the fa

Get the Genuity Roundup Ready® Canola Advantage

genuity ROUNDUP READY® CANOLA

✓ *Get the advantage:*

- **Yield**
- **Superior weed control**
- **Ease and convenience**

Great yield, on the d

genuity VT DOUBLE PRO® CORN RIB COMPLETE®

✓ *For greater convenience, insect protection, and yield potential.*

ALWAYS FOLLOW IRM, GRAIN MARKETING AND ALL OTHER STEWARDSHIP AND PESTICIDE LABEL DIRECTIONS. Details of these requirements can be found in the Trait Stewardship Responsibilities Notice to Farmers printed in this publication. ©2013 Monsanto Company Inc.

amily.

louble.

- **5% Refuge** right in the bag. Just pour and plant.
- **Two modes of action** against corn earworm and European corn borer, above ground. Be sure to scout for them.
- **Higher yield potential** thanks to effective insect control and reduced refuge.

Genuity®. Because every kernel matters.

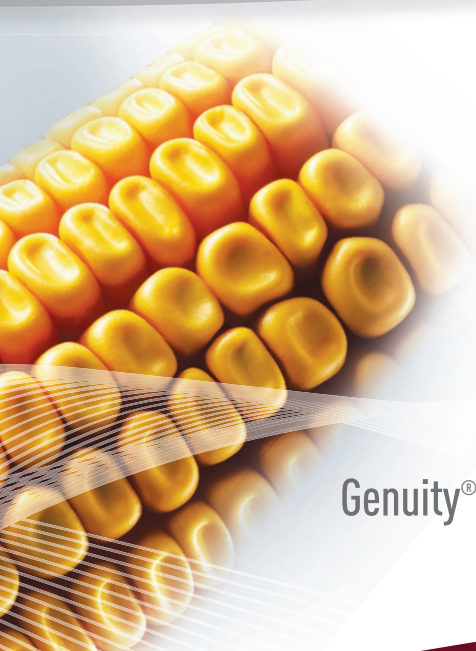
More beans per pod, more bushels per acre.

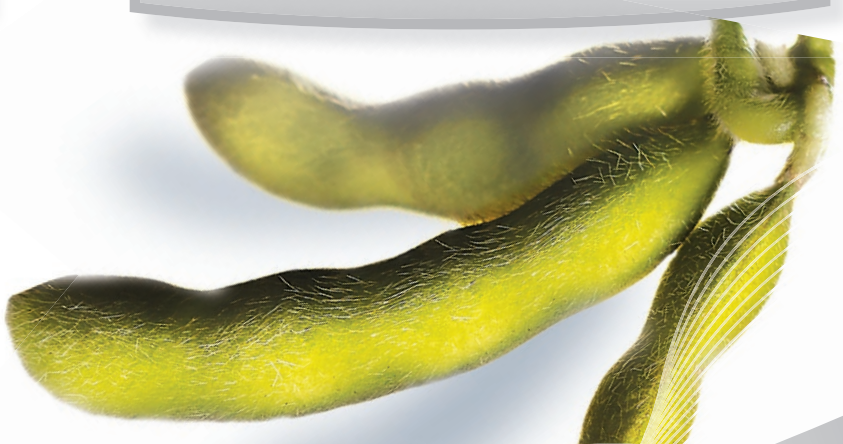
genuity
ROUNDUP READY 2 YIELD® SOYBEANS

✓ *More profit for you, thanks to game-changing soybean technology:*

- **Next-generation** Roundup Ready® trait technology for improved yield potential.
- **Increased yield potential** over original Roundup Ready soybeans.
- **Safe, simple, dependable** weed control

Genuity®. Because every bean matters.





Genuity®. Everything you want, and more.

genuity®

GENUITYTRAITS.CA

A New Path Forward

There are many moving pieces in the Canadian seed industry today — changes to Plant Breeders' Rights legislation, changes to variety registration, changes to seed crop inspection delivery. All of these changes might leave growers scratching their heads. We take a look at how today's evolving landscape will impact you and the seed you buy.

IN the last few years, seed has benefited from rapidly evolving technology and innovation. "Farmers today are using a paraphrase from Jim Helm—'driving race cars, not horse and buggy'," says Patricia Juskiw, a barley breeder at the Field Crop Development Centre in Lacombe. "While Helm was referring to the feed industry and the genetics of the cattle being fed, this also applies to our modern farming systems with pedigreed seed being the fuel for that car. We have GPS, ICM and precision farming that requires the 'best' seed technology available.

"So for the plant breeder it is imperative that we understand that farmers are better able to access information from their farm and the industry to make informed decisions and may therefore be able to select genetics uniquely suited for their cropping system from delivery of the seed into the ground to the product harvested," says Juskiw.

This makes investment in seed innovation more critical today than ever before. "Canada needs to remain competitive in both domestic and foreign markets. As foreign markets and competitors innovate and advance, Canada must also. Canada cannot compete with many countries as a low cost producer, so our option is to compete on quality and innovation. Innovation takes investment," says Dale Adolphe, executive director of the Canadian Seed Growers' Association.

Thanks to Bill C-18, which will bring Canada's Plant Breeders' Rights legislation in line with UPOV '91, Canada is poised to see an increased investment in seed across the country and across various crops.

"The large part of the legislation that is very important to the seed industry are the proposed amendments to Plant Breeders' Rights," says Dave Baute, president of the Canadian Seed Trade Association. "These amendments would put Canadian plant breeders on an equal footing with plant breeders around the world, giving them the confidence to invest in plant breeding and variety development in Canada. It would also give international plant breeders the confidence to send their superior varieties to Canada."

In the last few years, seed has benefited from rapidly evolving technology and innovation.

Variety Registration

A responsive and efficient seed regulatory system also contributes to the success of a country's crop production sector. As the seed industry evolves, it's becoming clear that Canada needs a flexible variety registration system that meets the needs of the various value chains of the many different crops grown.

The Canadian government has taken a leadership role in updating its variety registration system. In 2013, it began reviewing Canada's crop variety registration system with the goal of streamlining it. In June of 2014 amendments to the Seeds Regulations resulted in oilseed soybeans and forage crop kinds moving from Part I of Schedule III in the Regulations to Part III of Schedule III.

"This means that varieties of these crop kinds are no longer subject to merit assessment and recommendation by an approved recommending committee in order to obtain variety registration. Applications for registration of these varieties can be made

directly to the CFIA's Variety Registration Office," explains Tammy Jarbeau, media relations coordinator for the Canadian Food Inspection Agency.

The theory is that new varieties of soybeans and forages will be available to farmers at the same time as they are available to competing growers in, for example, the United States, says Adolphe. "The previous argument was that the Canadian testing system for the introduction of new varieties and may have been an impediment to introduction of new varieties," he adds.

Consultations on the variety registration system were ongoing in 2014. "The CFIA distributed a draft Model Operating Procedures document to the recommending committees for their review and comments in October. Each recommending committee has been asked to provide their comments on the MOP to the Variety Registration Office within 30 days following their annual meeting," says Jarbeau.

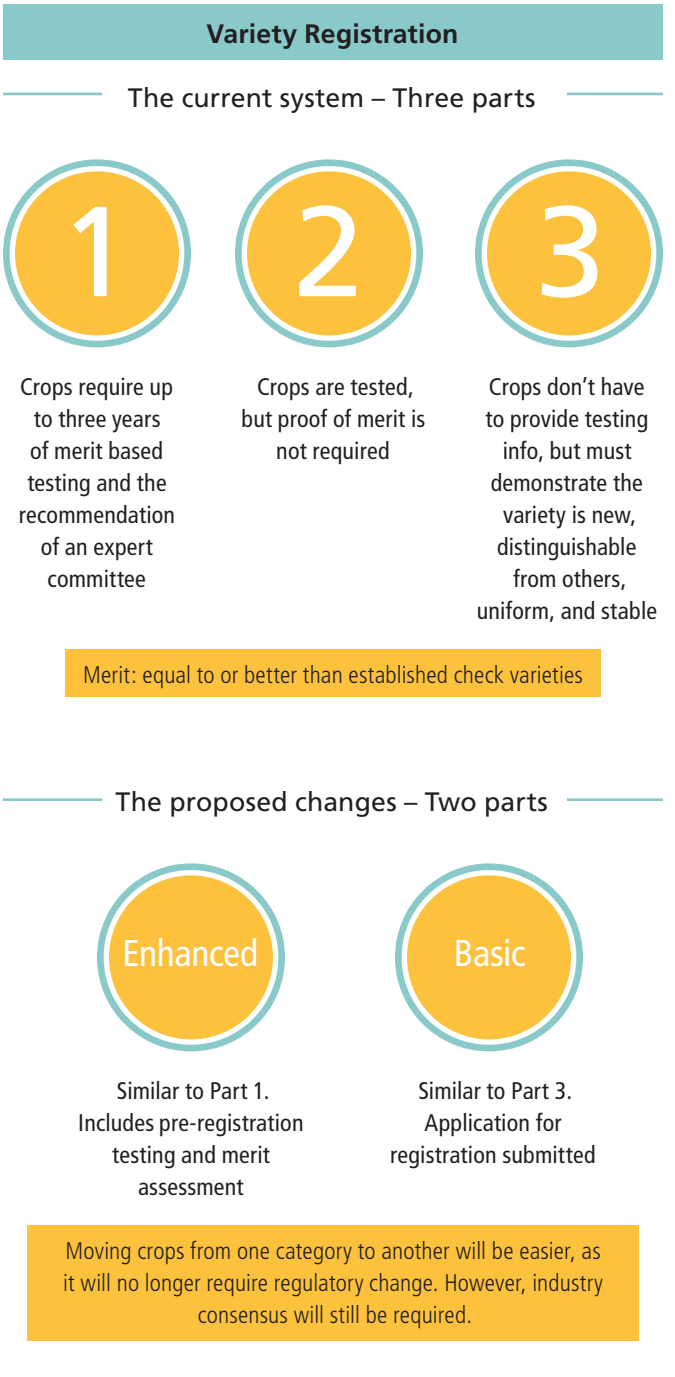
"These amendments would put Canadian plant breeders on an equal footing with plant breeders around the world"

—Dave Baute

In the coming years, Adolphe doesn't see too much more change coming for variety registration. "With the CFIA proposal for two categories, enhanced and basic, likely not too many changes will occur in terms of crop placement," he says. "I expect pressure will stay on the recommending committees to continue to streamline their variety review procedures. This should result in more transparency, more predictability and a friendlier environment for investment into variety development."

Juskiw agrees. "The simplified process should allow the same quality of products to enter the system, but with reduced need for field testing and its concurrent costs."

She says that while some look on these changes as opportunities, others look on them as potentially threatening to marketing systems. "In a time of change there is always the uncertainty about what may be lost, especially with regards to germplasm. As well, quality and disease evaluations may no longer be conducted with the potential for corruption of quality classes and



Infographic source: Canterra Seeds

Reports from seed growers indicate the quality of their inspections in 2014 were very good, so commercial farmers can expect the high quality of certified seed to continue.

epidemics. However, the Canadian system is very mature and should be able to adjust to these changes and challenges."

Seed Crop Inspection

It has been one year since Alternative Service Delivery for seed crop inspection was implemented. To see how year one under the new framework went, the CFIA conducted a series of surveys of various stakeholders in ASD in October 2014.

"Based on the information collected to date, things went well in the first year of seed crop inspection," says Jarbeau. "Almost 90 per cent of seed crop inspections were conducted by licensed seed crop inspectors in 2014 and the remaining 10 per cent of the inspections were conducted by Canadian Food Inspection Agency inspectors. This is above the targeted goal.

"The number of fields needing inspection did not decrease from previous years and the lag time for receiving and processing inspection reports has improved with the electronic reporting system. Each region had more than one service provider and the CFIA is not aware of any complaints from growers not being able to find a service provider," she adds.

From the grower's perspective, Adolphe agrees. "Those surveys generally rated year one of ASD fairly positively," says Adolphe. "Yes, there were glitches, but those were either overcome in 2014 or are being addressed for 2015."

For seed growers, this evolution has resulted in higher inspection fees than in the past. "However, generally speaking, when this is converted to a per-bushel increase in cost, it results in cents per bushel. The commercial farmer will see these costs passed along to them but because it is cents per bushel, they might not distinguish this cost increase from typical market price shifts," says Adolphe.

"(T)he Canadian system is very mature and should be able to adjust to these changes and challenges."

—Patricia Juskiw

Reports from seed growers indicate the quality of their inspections in 2014 were very good, so commercial farmers can expect the high quality of certified seed to continue. "The independent third party inspection continues to provide assurance in the marketplace," says Stettler-based seed grower Norm Lyster.

The CFIA anticipates there may be minor modifications to "fine tune" the program in 2015 and beyond.

Julie McNabb

ROCKY MOUNTAIN EQUIPMENT

YOUR PRECISION AG NEEDS ARE COVERED.

The **Rocky Mountain Equipment AG Optimization Specialist (AOS) Team** understands equipment performance, technology and precision AG because they are specialists. More than any other retailer, RME treats precision agriculture, equipment performance and technology as a specialized discipline.

This is sophisticated equipment; delivering the best possible advice, training and support demands support and service specialists who receive superior and ongoing training. Visit one of our Alberta locations today and talk to the AOS team about your precision AG solution needs.

ROCKY MOUNTAIN EQUIPMENT
DEPENDABLE IS WHAT WE DO.

ROCKYMTN.COM

ADVANCES IN BARLEY BREEDING

New transgenic technologies may signal a brave new world of barley breeding.

IN Alberta, fusarium head blight, a fungal disease of small grain cereals, presents a major problem that crops up annually for seed growers in the southern and central parts of the province. While it has troubled wheat growers for years, FHB caused by the pathogen *Fusarium graminearum* was also detected in barley several years ago.

FHB results in reductions in yield, grade, and end-use quality. It can also cause the production of mycotoxins in grain, especially deoxynivalenol or DON, which can negatively impact feed quality as well as baking and malting quality — and poses a slight risk to humans and animals.

But there may be a new potential solution on the horizon. Using transgenic technologies, Phil Bregitzer, a research geneticist with the United States Department of Agriculture (USDA) Agricultural Research Service (ARS) is using novel technologies in the quest to develop a barley line with resistance to FHB.

"The products of my research potentially can assist any producer, in Alberta or elsewhere, to produce barley that is free of FHB and/or mycotoxin without using fungicides, thus contributing to producer profitability, consumer health, and environmental sustainability," says Bregitzer.

The need for FHB-resistant varieties is growing yearly in Alberta.

According to James Helm, outgoing head of research at the Field Crop Development Centre in Lacombe, Alta., while seedborne *F. graminearum* levels in barley still clock in at lower levels than in wheat in the province, they rose from five per cent in 2013 to eight per cent in 2014, according to data from 20/20 Seed Labs and Biovision Seed Labs. The companies' tests also showed that *F. graminearum* levels in Alberta reached record highs in 2014, with 15 per cent of samples overall testing positive for cereal crops.

Helm is the spokesperson for a team of scientists at the Field Crop Development Centre including lead pathologist Kequan Xi, pathologist Kurshan Kumar, and plant breeder Flavio Cappettini.

The team says that merely the threat of FHB comes at a cost to barley producers. The zero tolerance regulation for mycotoxins in malting barley may restrict the growth and production of malting barley. Add to this the increased input costs from the use of fungicides and seed testing.

"The steady increase in the levels of *F. graminearum* along Hwy. 16 has proven that Alberta's environment is not a barrier to the spread of *F. graminearum*," says Helm. "With the wide spread of inoculum and a large acreage of susceptible cereal crops, there is a risk of an epidemic if conducive conditions such as abundant rainfall with relative high temperature coincide with the flowering stage of cereal crops."

With the risk of FHB compounding annually, resistant varieties are still the grower's top tool for battling the disease.

Transgenic Technologies

Bregitzer's project involves introducing a gene into barley that creates double-stranded (ds) RNA, the gene's "messenger" that carries information from DNA for controlling the synthesis of proteins.

"We are attempting to use a phenomenon called RNA interference (RNAi) to target important fusarium genes, thus disrupting its ability to infect barley and/or produce mycotoxins."

RNAi involves introducing a transgene that encodes an inverted repeat of sequences that match the critical fusarium gene, Bregitzer explains. This produces an RNA that will fold back on itself, creating double-stranded RNA (dsRNA).

"dsRNA is recognized by a system for gene control — which can function in some cases like this one as sort of an immune system — that results in the RNA from the targeted fusarium gene being destroyed or inactivated," Bregitzer says. "If we can inactivate the main gene that drives mycotoxin production, for instance, we hope to produce a plant that even if infected with fusarium will not produce contaminated grain."

Bregitzer and his team will deliver the transgenes into the new varieties using a system based on DNA transposons (or mobile genetic sequences, which can include genes) isolated from maize.

"No one has used transposition for plant breeding in this way to my knowledge, although its capacity to do this has been known for several decades," Bregitzer says.

"Because of the end result — an intact transgene — without extraneous sequences except for some very short termini derived from another, safe food crop, the resulting barley plants are expected to more reliably express the transgene."

Bregitzer's research is funded by competitive grant funds from the U.S. Wheat and Barley Scab Initiative (USWBSI), as well as a special grant from the USDA-ARS. The project is a long-term initiative, but Bregitzer is in it for the long haul. "The process of producing any truly useful barley line is a decade-long process," he says.

Until the varieties that Bregitzer and his team are working on become available, he cautions that producers should use the best resistant varieties available and employ recommended best practices to combat FHB.

Management Strategies

Garson Law, research manager for Alberta Barley, says the new transgenic breeding project will have no immediate impact in Alberta, as transgenic barley is not approved for use in Canada.

"If any transgenic-derived variety is ever approved for use in Canada, the impact would be huge," Law says. "FHB is an existing and growing problem for Alberta's barley growers, and the economic impact for Alberta agriculture is estimated to be as high as $49 million."

According to Law, the economic impact of the disease on Alberta's barley growers was similar in 2014 as in 2013, with FHB noticeably concentrated primarily in southern Alberta, and higher than normal incidence in central Alberta.

"It's difficult to predict for 2015, but we've seen in the last 10 years that FHB has spread throughout the province, and if the conditions are optimal — for example, high moisture during flowering — then we expect this trend to continue," Law says. "It's a problem that's not going away."

He says education is key to managing FHB in barley, as well as crop rotation, the use of resistant varieties, fungicides, seed treatments, and best agronomic practices. "Individually, they won't manage the problem. However, taken together, these methods are much more effective," says Law.

Helm adds that seed or feed should not be imported from eastern provinces or FHB-infested areas.

Julienne Isaacs

Alberta's Field Crop Development Centre focuses on variety development, and this barley plant is one of thousands of genetic lines in its breeding program.

LMC
LEWIS M. CARTER

LMC specializes in seed and grain processing equipment, pre-cleaning equipment, VistaSort color sorters (with infrared and shape recognition options) and plant design. We also have manual and fully automatic weighing systems including bagging and robotic palletizing.

Processing Equipment
- Gravity Separators
- Vibratory Conveyors
- Gentle Handling Bucket Elevators
- Precision Sizing Shakers
- Destoners
- Bean/Pea Polishers
- Aspiration Machinery

Precision Air-Screen Seed Cleaners
VistaSort Color Sorters
- Infrared Camera
- RGB Camera
- LED Lighting

Dust Control Equipment
Indent Separators
Spiral Separators
Bucket Elevators & Accessories
Pellet Mills and Hammer Mills
Manual & Fully Automated Packaging Systems

Lewis M. Carter Manufacturing (Canada) Ltd.
835 58th Street East
Saskatoon, SK S7K 6X5
Phone: 306-242-9292
Fax: 306-934-4840

www.lewismcarter.com

BIG THINGS AHEAD for Small Crops

Hemp, faba beans and Ethiopian mustard are making their mark on Alberta.

NICHE
noun \'nich ***also*** 'n'sh ***or*** 'nish\
A distinct segment of a market

Although Jan Slaski will admit that hemp acres are still small in Alberta, don't tell him it's a niche crop. The researcher with Alberta Innovates Technology Futures doesn't care for that term.

"In 2013 in Canada, we had 67,000 acres of hemp grown. In 2014, we had 108,000 acres. This 20 to 30 per cent annual increase has been observed every year over the last five or six years. Projections in Alberta and Canada are that it will grow 20 to 30 per cent every year in years to come. This increase is market driven," he says. "To me, that doesn't say 'niche crop.'"

In fact, Alberta alone accounts for 30 per cent of the national hemp acreage, Slaski notes.

Indeed, hemp has gone from a specialty item to a mainstream product found commonly in the marketplace. "Eight or 10 years ago you found these products in health food stores on the bottom shelf — now you find them at Superstore and Sobeys," Slaski adds. "This crop has been de-stigmatized. When I started working with it, people would laugh when I told them I work with hemp, because they couldn't distinguish between marijuana and industrial hemp."

Hemp products, of course, come from the cannabis plant — the same plant marijuana is derived from. Hemp, though, differs in that it contains virtually no Tetrahydrocannabinol (THC) — the active component in marijuana that causes psychoactive effects. Hemp became legal to grow in Canada in 1998, although it is still regulated by Health Canada and anyone wanting to grow it must apply for a license.

Grain from industrial hemp is used in food products, cosmetics, plastics and fuel. The market for hemp grain is large, with $50 million in hemp products being exported from Canada in 2014, according to Slaski. Although the market for hemp fiber isn't as large at the moment, it's growing fast — two hemp fibre processing facilities are currently being developed in Alberta. In mid-January, Cylab International announced its plan to move operations from China to an undisclosed location in Southern Alberta. The new facility will process hemp fibre into construction materials, animal bedding and other products.

Stemia Group Ltd., a company Alberta Innovates Tech Futures has collaborated with for five years, is building a flax and hemp straw decortication facility in Lethbridge. The company plans to make products for the construction, automotive and paper industries.

Photo courtesy AITF

Jan Slaski and John Wolodko of Alberta Innovates Technology Futures conduct research on hemp fibre products at an Edmonton lab.

Will Van Roessel of Alberta's Specialty Seeds Ltd. has grown hemp for five years. He produces seed varieties used to produce hemp grain, and says being in the seed business, he's always looking for new ventures and opportunities. That's why he began growing it.

"We had to learn a few things. The plant is very different from anything else we grow. The major concern is harvest," he says. The height of hemp plants, and the fact that seeds can mature at different rates on the same plant, can make harvest a challenge. "Everyone has heard horror stories about how difficult hemp can be to harvest. The last couple years harvest has been pretty minimal as far as issues go."

Optimal growing conditions make harvest easier. According to the Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA), hemp responds to a well drained, loam soil with a pH (acidity) above 6.0. Neutral to slightly alkaline (pH 7.0 - 7.5) is preferred. The higher the clay contents of the soil, the lower the yield of fibre or grain produced. For optimum germination, industrial hemp seed requires good seed-to-soil contact. The seedbed

RODONO XTEND

RETRACTING SWING AUGER

- Designed for facilitating B-train or trailer unloading during harvest as a one man job
- Extends under hopper once back trailer is in place; power swings between hoppers
- Retracts - truck moves to next trailer
- Adapts to common augers in 13", 14" HP, 16" size and some baggers
- Award winner -`neighbour recommended'
- View at www.xtend-auger.com XTEND

Contact info:
Rodono Industries Ltd. Clive, AB
403-784-3864 www.rodono.ca

Rodono

should be firm, level and relatively fine; similar to that prepared for direct-seeded forages. The soil can be worked and planted as soon as the ground is dry enough to avoid compaction.

Numerous hemp varieties are available to be grown in Canada, but the most common that are being contracted and grown presently are Alyssa, Anka, CRS–1, CFX–1, CFX–2, Delores and Finola.

"Everyone wants to grow it because everyone makes money — from growers to processors," Slaski adds. Although Alberta is No. 3 in Canada for number of hemp acres grown — Saskatchewan ranks first with Manitoba second — he says the market will only continue to grow as time goes on. "People in the past didn't treat the crop seriously, but that has changed."

Faba beans are taking off in Alberta.

Growing the Faba Bean

The faba bean was once an up-and-coming crop in Manitoba, before the soybean exploded onto the scene and took over. Leave it to Alberta to usher in a faba bean revival on the Prairies.

According to statistics from Alberta Agriculture and Rural Development (AARD), faba bean acreage in Alberta nearly tripled in 2014 compared to the year before, jumping from 30,000 to 80,000 acres.

"Faba bean acreage is exploding," says Mark Olson, head of the pulse crops unit at AARD. "Alberta has been the leader in this rebirth of the faba bean."

The reason for the explosion in faba bean acreage? "A lot of companies have really stepped forward to market it," Olson says. That includes Saskcan Pulse Trading and Parkland Alberta Commodities, which are marketing the beans for Alberta growers.

Much of the faba bean grown in Alberta is sold into the Middle East, where faba bean flour is widely used in sauces as well as falafel, a traditional Middle Eastern food served in a pita. The beans themselves are a popular food staple there. There are two types of faba beans — tannin varieties and low-tannin varieties. Low-tannin faba bean is often used in hog rations, while the tannin-containing varieties are used largely in food products.

Tannin also acts a natural seed protectant, Olson notes. Also, it's a crop that doesn't have to be heavily fertilized, he adds, because faba beans fix nitrogen and it is the highest nitrogen-fixing — approximately 90 per cent — annual grain legume globally. "As nitrogen prices increase, farmers are looking for a way to cut costs," Olson adds.

Clifford Cyre of Westlock's Cyre Seed Farms can attest to the benefits of faba beans. He's been growing them for 15 years. He holds the rights to the Snowbird faba bean variety in Western Canada, a low tannin type suitable for both food and feed uses.

"The standability is excellent for thrashing," Cyre says. "As far as combining goes, it's very easy. The seeds are bigger, so you have to have the right equipment."

Another benefit Cyre has noted is the fact that there's little pest and disease pressure with faba beans. "There is one fungicide you can use for diseases on faba bean which is for sclerotinia, but we haven't had an issue with that," he notes.

Growers should watch herbicide residues where they plan to seed faba beans. He also advises not planting them on high nitrogen grounds, and avoiding fields with a history of having a lot of manure spread on them.

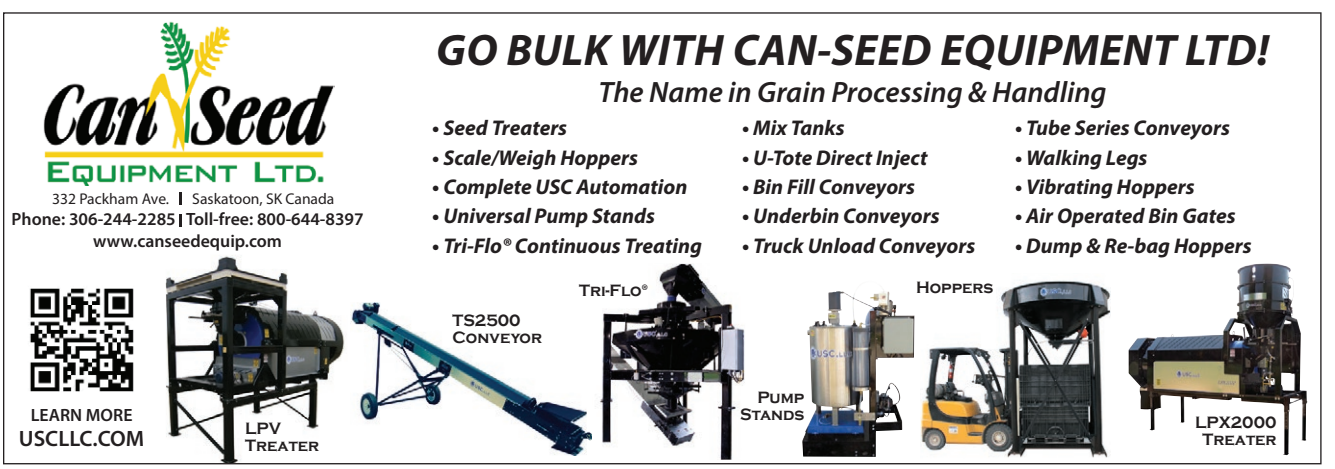
There are currently 13 faba bean varieties registered in Canada, but only two are commonly grown in Alberta. These are Malik (9-4) and Snowbird. Two new varieties, Snowdrop and Tabasco, are currently in the seed multiplication process and should be available to commercial growers in the next couple years.

Ethiopian Mustard Taking Off

It's hard to imagine an airplane being fueled by mustard, but in 2012, the first flight of a jet aircraft powered with biofuel made entirely from Ethiopian mustard took place in Ottawa.

Ethiopian mustard — or *Brassica carinata* — holds tremendous promise as a biofuel and is prized as a food source in countries such as Africa. And it's beginning to get noticed in Alberta, where it's being tested as a startup crop in the hopes of it filling a niche market demand.

"It is quite a different animal to grow — it broadens the scope of crops that producers can look at," says Kevin Falk, a researcher



with Agriculture and Agri-Food Canada based in Saskatoon, Sask. He's testing the crop in locations in southern Alberta, a province he says shows promise for growing it.

"It needs a hot, dry climate, so for it to be grown in Canada, you have to stay south," he says. "I've tried growing it as far north as Beaverlodge, Alta., but it didn't do well."

In 2012 and 2013, carinata acres were contracted in Saskatchewan and Alberta. No Ethiopian mustard acres were contracted in 2014, however, because its exclusive Canadian distributor — Agrisoma Biosciences — put its contracting program on hold while it sought regulatory approval for its use in livestock protein. The approval was granted, and Agrisoma estimates at least 25,000 acres of Ethiopian mustard will be grown in Canada in 2015.

When processed, Ethiopian mustard oil can be used as an industrial oil suited for biofuel production. According to Falk, there's been a focus on reducing the glucose content of the plant so it can be used as a feed ration. In Ethiopia, it's used as a food product, as it provides flavour to food similar to that of a Dijon mustard, although less hot.

It's a late-maturing crop, Falk notes, and takes around 10 days longer than Argentine canola to mature. White rust and blackleg are not an issue, and Falk has seen yields as good if not better than those seen with canola. It's also heat and drought tolerant, he adds, and yields as good — if not better — than canola in the hotter, drier areas.

"It's an up-and-coming crop that we're going to see more of," Falk says.

Marc Zienkiewicz

Photo courtesy of Kevin Falk

Ethiopian mustard is an emerging niche crop in Alberta.

Take your place in the conversation

There's been a lot of talk about food and farming lately – online, in the media and at the dinner table.

That's a really good thing. It means people are concerned about their health and well-being, and that they're in a position to make positive choices about what they eat. It also spells opportunity for Canada's agriculture industry. What we do has never been so important to so many people here at home and around the world.

Unfortunately, too many of these conversations are generating false perceptions about what we produce and how we produce it. That's often because for all the people talking about food, too few are actually part of the agriculture industry. And if we're not telling our story, someone else will. The good news is, it's not too late – and we've got lots of positive news to share.

Canadian agriculture is remarkably diverse and dynamic. Yet for all the change the industry has seen over the years, one important constant remains: the family farm. In fact, 98 per cent of Canadian farms are family farms. That's a key part of the conversation, because from the ground up, what we eat every day is produced by people who want the same things all families want: safe, nutritious food. Those same values also extend to how our food is produced. Canadian farms produce more than ever in ways that are more sustainable than ever. What a great legacy for future generations!

You're an important part of the conversation. So speak up – tell the real story.

Agriculture
more than ever

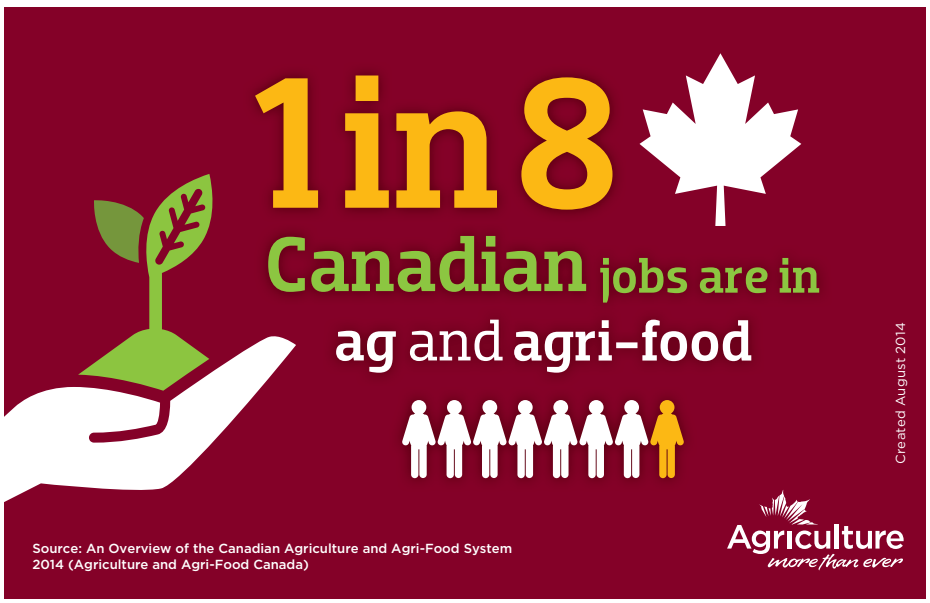

Seeds
TERNATIONAL
ROW WITH CONFIDENCE
PROseeds
SEMTA INTERNATIONAL
I.P. SSYS
IDENTITY PRESERVED

Every fact

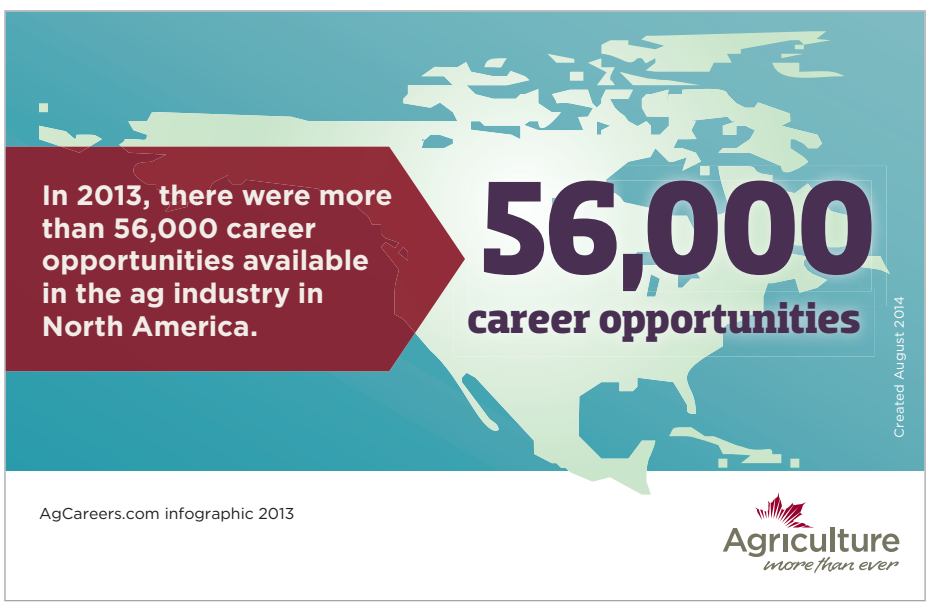
Canadian agriculture has a lot going for it, and sharing the facts is a great way to join the conversation. Our resource section is filled with timely, interesting content – including dozens of easy-to-share fact photos. And each one tells an important story. Here are just a few:

The world is growing, and everyone deserves to have access to safe, high quality food. It's a huge responsibility and an incredible opportunity for Canadian agriculture. Canadian farmers are responding by producing more food than ever, all while using fewer resources. That's good news here at home and around the world.

tells a story



Thanks to Canada's ag and food industry, more than 2.2 million Canadians are bringing home the bacon (pardon the pun) every day. That's like the entire population of Vancouver. The impact on Canada's economy, and on our communities and families, is truly remarkable.



Never has Canadian agriculture offered more – and more diverse – career options than right now. There are opportunities in research, manufacturing, financial services, marketing and trade, education and training, and more. And all of these positions need to be filled by talented, energetic people.

Visit the website and consider what the facts mean to you. Then join the conversation!

AgMoreThanEver.ca.

Be an AGvocate

Agvocates unite!

Looking to channel your passion for ag? Adding your name to our agvocate list is a great way to get started. You'll join a community of like-minded people and receive an email from us every month, with agvocate tips to help you speak up for the industry.

Visit **AgMoreThanEver.ca/agvocates** to join.

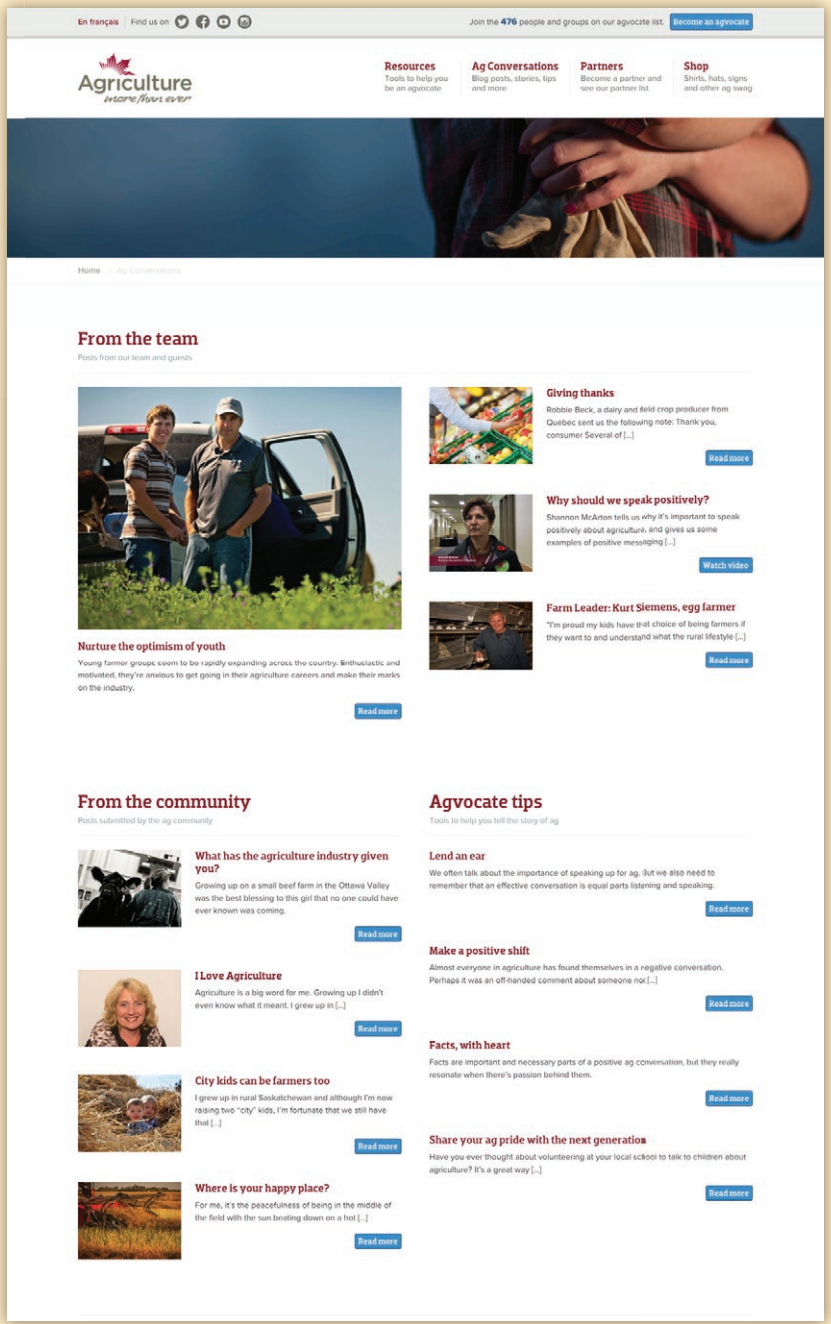
Resources to get you started

Joining the ag and food conversation isn't always easy. What you say is important. So is how you say it. If you're feeling a little unsure about what to do next, you're definitely not alone. Fortunately, we've got practical expert advice to help you become an effective agvocate.

Our online webinar series brings recognized experts in communication, social media and media relations right to your screen. Topics include:

- **The art and science of the ag and food conversation**
- **Social media 101 for agvocates**
- **Getting in on the tough conversations**
- **Working with the media as an agvocate**

Visit **AgMoreThanEver.ca** and click on Ag Conversations.



We all share the same table. Pull up a chair.

"We take pride in knowing we would feel safe consuming any of the crops we sell. If we would not use it ourselves it does not go to market."

- Katelyn Duncan, Saskatchewan

"The natural environment is critical to farmers – we depend on soil and water for the production of food. But we also live on our farms, so it's essential that we act as responsible stewards."

- Doug Chorney, Manitoba

"The welfare of my animals is one of my highest priorities. If I don't give my cows a high quality of life they won't grow up to be great cows."

- Andrew Campbell, Ontario

Safe food; animal welfare; sustainability; people care deeply about these things when they make food choices. And all of us in the agriculture industry care deeply about them too. But sometimes the general public doesn't see it that way. Why? Because, for the most part, we're not telling them our story and, too often, someone outside the industry is.

The journey from farm to table is a conversation we need to make sure we're a part of. So let's talk about it, together.

Visit **AgMoreThanEver.ca** to discover how you can help improve and create realistic perceptions of Canadian ag.

Agriculture *more than ever*

Getting Seed Off to the Best Start

With the technology available today, farmers are increasing their production. Seed treatments are among the newest technologies available — by helping seed get the best possible start, they are helping farmers grow more from less.

THERE are several best practices producers can follow to get good yields — proper crop rotations, good disease and insect management, seeding in ideal conditions and consistent seeding depth. However, it's easy to fall short on one or more of these each growing season, and that is where seed treatments come in.

"Seed treatments should be considered an insurance policy. If you have ideal conditions at seeding, then the seed treatments may not pay. However, most springs do not provide those ideal conditions," says Harry Brook, a crop specialist with Alberta Agriculture and Rural Development.

A seed treatment is a chemical or biological substance or physical process applied to seeds or seedlings to protect against insects, seed and soil-borne diseases and certain weather conditions such as frost, drought or flooding. By protecting the seed from early-season stressors, seed treatments help seeds reach their full genetic potential.

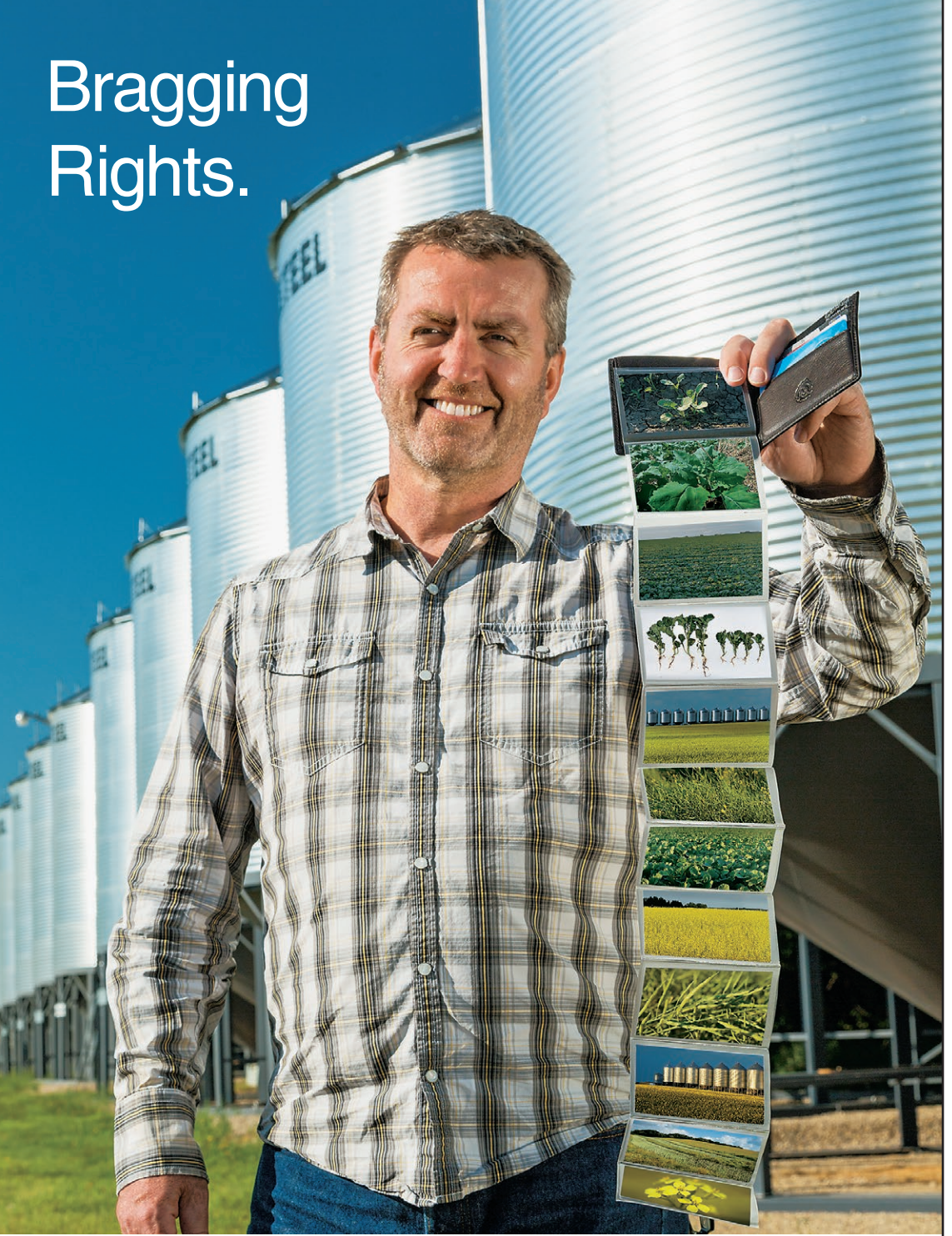
The primary role of any cereal seed treatment is to improve germination and emergence, and get young seedlings established through to the two- to four-leaf stage. At that point, the plants should have developed root and stem structures strong enough to outgrow further seedling disease attack.

Brook says seed treatments protect the seed from pathogens in the soil for about two weeks and then their efficacy declines. "Cool, wet, slow springs should give you a benefit using seed treatments," he says.

Product Pipeline

A wide variety of seed treatments are currently available, and these products have come a long way in recent years. Some of the newest products boast significantly lower application rates than older products, operate via multiple modes of action to control more diseases and/or insects, and

Bragging Rights.



JumpStart®

For a canola crop you can be proud of, order your seed pre-treated with JumpStart inoculant to discover increased root growth and leaf area, and higher yield potential*.

JumpStart. Quicker start, stronger finish.
Over 20 million acres** can't be wrong.

Smart farmers read the fineprint:
*155 independent large-plot trials in Canada between 1994 and 2012 showed an average yield increase of 6%. 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.

**Calculation based on net sales of JumpStart from 1997–2014.

JumpStart® is a trademark of Novozymes Biologicals Limited. Used under license. Monsanto BioAg and Design™ is a trademark of Monsanto Technology LLC, Monsanto Canada Inc, licensee. All other trademarks are the property of their respective owners. © 2014 Monsanto Canada Inc. 236-1 08.14

MONSANTO BioAg™

JumpStart®

is available on canola varieties from

InVigor®

DUPONT PIONEER®

VICTORY® HYBRID CANOLA

DEKALB®

Nexera™ CANOLA

ProVen® SEED

CANTERRA SEEDS

BrettYoung™

syngenta®

For a complete list of varieties visit **useJumpStart.ca**

are available in ready-to-apply formulations.

"Since we released our first seed treatment in 1991, the needs of growers have changed a lot with continuous cropping and new crop rotations," says Ted Labun, seed treatment specialist for Syngenta Crop Protection Canada. "We kept adding to our first solution, but now we've taken all those solutions and put them into one solution that's easy to apply."

Labun is referring to Syngenta's new Vibrance Quattro seed treatment, which contains four fungicides in one product and comes in a ready-to-apply formulation. The company also offers Cruiser Vibrance Quattro which has the Cruiser insecticide for wireworm protection.

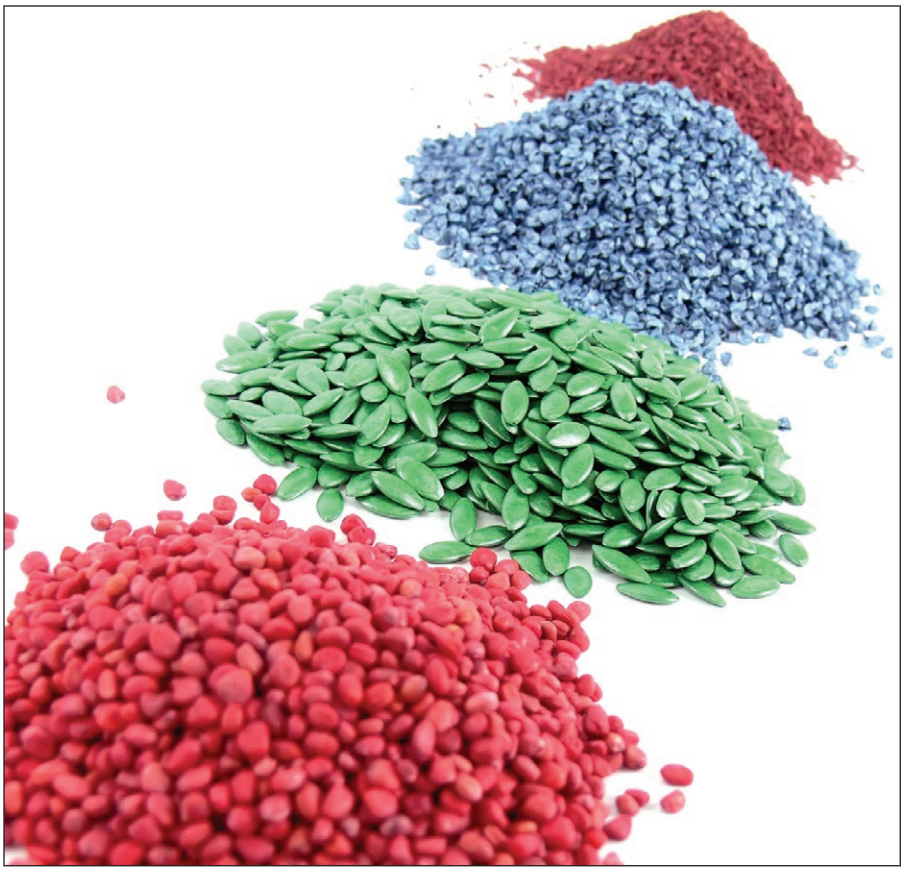
Both products can be applied by commercial seed treaters, but are also available in a convenient, pre-mix formulation that can be applied on-farm without the requirement of a closed system.

Bayer CropScience also launched two new seed treatments this year. Raxil PRO is a new cereal seed treatment that combines the power of three fungicides in an easy-to-apply micro-dispersion formulation. Raxil Pro Shield incorporates the systematic and contact disease protection from Raxil with the plant health benefits and wireworm protection of Stress Shield.

Bayer has also recently launched the SeedGrowth brand, which represents the company's four segments of seed treatment expertise: products, equipment, services and coatings. "Through Bayer SeedGrowth, farmers get support beyond just seed treatments to the quality and life of their seed and crops," says Derrick Rozdeba, manager, integrated communications for Bayer. In 2014, Bayer partnered with Ag Growth International (AGI) to co-design the STORM Seed Treater for computerized, self-adjusting/metered, in-yard seed treatment for cereals.

Meanwhile, in the fall of 2014 Nufarm Agriculture was named the exclusive distributor of Valent Canada's NipsIt seed treatments for on-farm use in Canadian markets.

NipsIt INSIDE is an insecticide seed treatment containing the active ingredient clothianidin, offering Canadian wheat growers protection of key insects, including wireworms, through contact and



The primary role of any seed treatment is to improve germination and emergence, and get young seedlings established through to the two- to four-leaf stage.

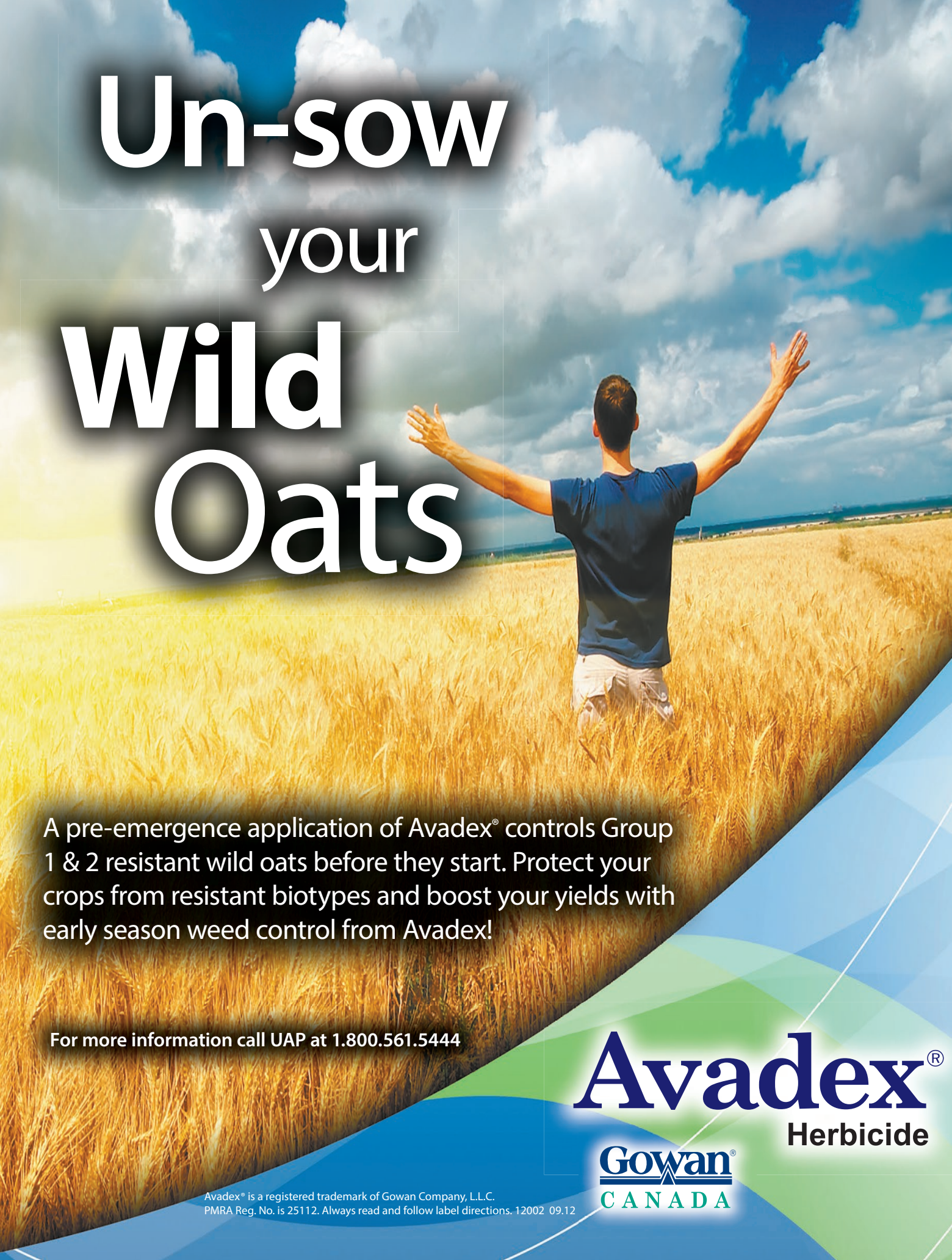
"Seed treatments should be considered an insurance policy. If you have ideal conditions at seeding, then the seed treatments may not pay. However, most springs do not provide those ideal conditions."

—Harry Brook

super-systemic activity. According to the company, NipsIt INSIDE stays in the seed/root zone longer than other insecticide seed treatments due to its lower water solubility.

A second product, NipsIt SUITE, is an all-in-one seed treatment containing the fungicidal active ingredients metconazole and metalaxyl, and insecticidal active ingredient clothianidin. Metconazole is a new fungicide seed treatment which provides superior protection against key seed and seedling diseases incited by seed-borne and soil-borne fungal pathogens such as the bunt and smut fungi, seed rot and seedling diseases caused by fusarium and rhizoctonia, says the company.

Since releasing its Insure Cereal seed treatment in early 2013, BASF Canada has been reminding growers about the benefits of using seed treatments."By using a seed treatment with plant health benefits, crops can get off to a good start in spring," says Russell Trischuk, technical marketing specialist, functional crop care for BASF Canada. Through 2011


Un-sow
your
Wild
Oats
A pre-emergence application of Avadex® controls Group 1 & 2 resistant wild oats before they start. Protect your crops from resistant biotypes and boost your yields with early season weed control from Avadex!
For more information call UAP at 1.800.561.5444
Avadex®
Herbicide
Gowan®
CANADA
Avadex® is a registered trademark of Gowan Company, L.L.C.
PMRA Reg. No. is 25112. Always read and follow label directions. 12002 09.12

and 2012, BASF conducted an extensive trial program using Insure. In 30 trials for wheat, Insure-treated seed had a two-bushel increase over competitors. In barley, the increase was three bushels and in oat it was more than a four-bushel advantage for the Insure-treated seed. Insure is a ready-to-use seed treatment with three modes of action: pyraclostrobin, triticonazole and metalaxyl.

Application Options

No matter how good the product, it can only be effective if applied evenly and at the proper volume to all sides of each and every seed. While getting seed treated commercially might be more expensive than treating on-farm, the payoff from a job done right can be worth the extra cost.

Brook says producers should avoid drip and gravity-fed applications as they result in inconsistent and unreliable coverage. For best results, he recommends buying pre-treated, certified seed, or using a good on-farm seed treater.

"On farm application is convenient, but to maximize the effectiveness of the fungicide, it needs to be on every seed. Most on-farm applicators can't do as good a job getting an even coating on the seed as a seed treater in the local seed plant," he says. "Many producers use their local seed cleaning plant to apply the seed treatment because of this."

"What is really important is that the quality of application is the best it can be. That is critical for field performance."

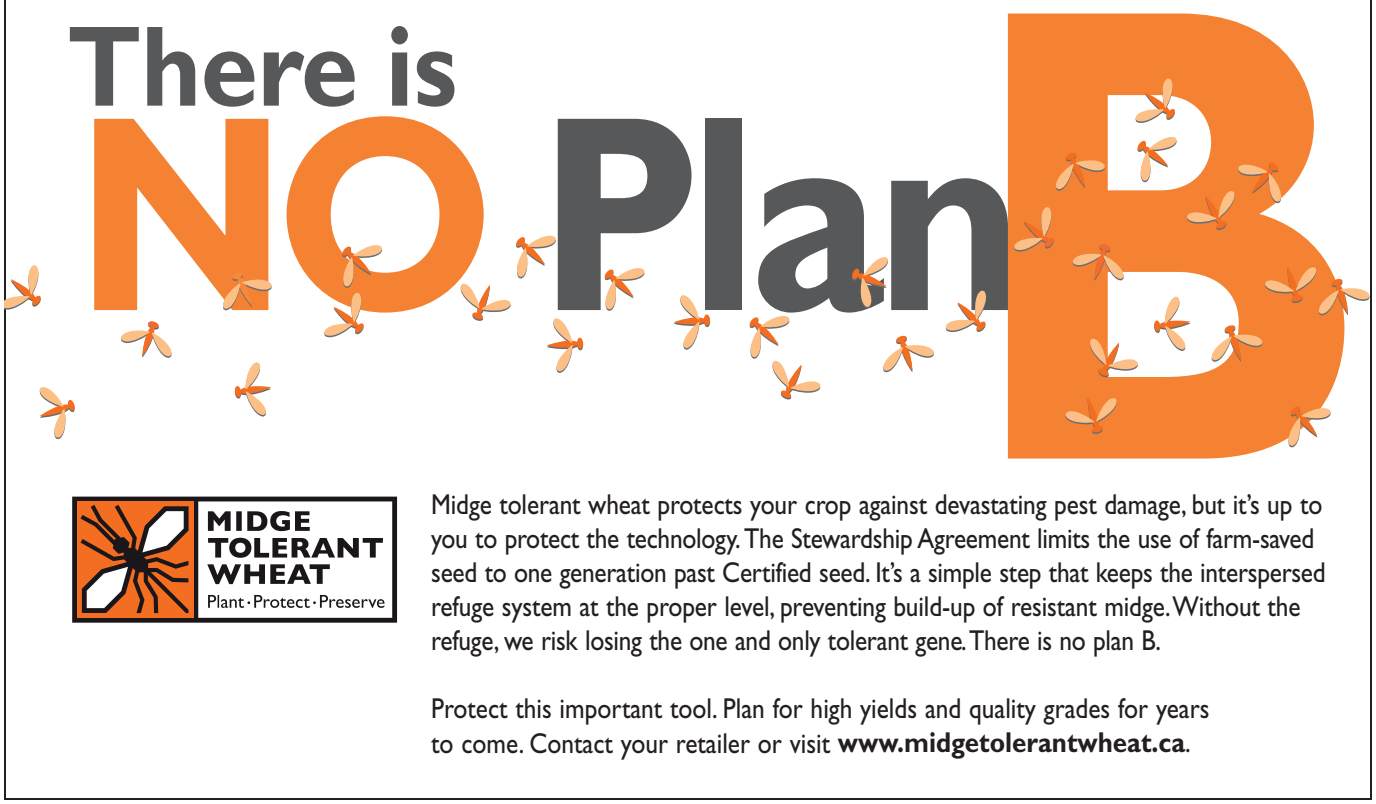
—Ted Labun

According to Labun, Syngenta supports both commercially treated seed and on-farm application. "What is really important is that the quality of application is the best it can be. That is critical for field performance."

Labun says the application method really depends on the crop. "For pulses and cereals we recommend both on-farm applications and commercial application, but canola is much more challenging to treat so we recommend growers only go through commercial treating for canola," says Labun.

If a producer chooses to go the on-farm route, Labun says they have lots of support available to them. "We have five seed treatment specialists in the field that help with application best practices. Last year we held a clinic in Regina to train producers. We brought in five pieces of equipment, treated seed and talked about safety and proper equipment. We also hold grower meetings where we bring equipment in and do some training," he says. "The quality of application is critical to see field performance; poor treatment isn't going to get the return on investment that producers need."

Julie McNabb



VICTORY®
InVigor® Health

Grow the canola that delivers higher returns.

Make more money with the Cargill Specialty Canola Program.

With our high-yielding VICTORY® V-Class™ and InVigor® Health hybrids and profitable program, you can generate the superior yields you demand and the higher returns you deserve — so both your crops and your business will thrive. Learn more at cargillspecialtycanola.com.

®The Cargill logo and ®VICTORY are registered trademarks of Cargill Incorporated, used under license.
InVigor® is a registered trademark of the Bayer Group. Bayer CropScience is a member of CropLife Canada.
©2014 Cargill, Incorporated. All rights reserved.

www.cargillspecialtycanola.com
www.cargill.ca

Cargill®

Long-Awaited Legislation

Bill C-18 is moving quickly through Parliament, bringing with it the promise of increased investment, more trade opportunities and less red tape for Canada's agricultural sector.

BILL C-18, the Agricultural Growth Act, passed second reading in the Senate in early December and has now been referred to the Standing Committee on Agriculture and Forestry for detailed examination early in 2015.

The bill was first introduced by Federal Agriculture Minister Gerry Ritz in early December 2013. The Act proposes changes to nine pieces of federal legislation — seven under the oversight of the Canadian Food Inspection Agency, and two under Agriculture and Agri-Food Canada.

"The consensus of the vast majority of farmers, seed industry participants and value chain organizations from coast-to-coast is strong support for the changes to Plant Breeders' Rights legislation that are proposed in Bill C-18," says Dave Baute, president of the Canadian Seed Trade Association.

Photo courtesy Canterra

Agriculture Minister Gerry Ritz (seen here with Canterra Seeds President David Hansen) has introduced Bill C-18, the Agricultural Growth Act, which proposes changes to nine pieces of federal legislation — seven under the oversight of the Canadian Food Inspection Agency, and two under Agriculture and Agri-Food Canada.

Breaking Breeding Barriers

The biggest discussions around the bill have involved the proposed changes to the Plant Breeders' Rights Act that will bring Canada under UPOV '91. Most UPOV members are already meeting UPOV '91 requirements, including many of Canada's key trading partners, such as Australia, the European Union, Japan, South Korea and the United States.

"The large part of the legislation that is very important to the seed industry are the proposed amendments to Plant Breeders' Rights," says Baute. "These amendments would put Canadian plant breeders on an equal footing with plant breeders around the world, giving them the confidence to invest in plant breeding and variety development in Canada. It would also give international plant breeders the confidence to send their superior varieties to Canada. This is very important to the seed industry and to the farmers we serve. We have been working for this for over 20 years and are very anxious to see the amendments implemented."

According to Anthony Parker, Commissioner of Plant Breeders' Rights at the Canadian Food Inspection Agency, specific revisions to the PBRA include:

- Extending the duration of protection from 18 to 20 years (25 years for trees and vines);
- Allowing plant breeders to sell a variety in Canada for up to one year before applying for Plant Breeders' Rights protection in order to test the market, advertise, or to increase stock;
- Providing automatic provisional protection for a new plant variety from the date of filing, which would allow applicants to exercise their rights while "grant of rights" applications are pending; and
- Extending plant breeders rights to include reproduction, import, export, conditioning (clean, treat), and stocking for the commercial purposes of propagating, in addition to the current system that already allows for the sale of propagating material and the production of propagating material intended for sale.

"These changes will encourage increased investment in plant breeding in Canada and encourage foreign breeders to protect and sell their varieties here. As a result, Canada's farmers will benefit from improved access to innovative new varieties that have been bred to enhance crop yields, improve disease and drought resistance and meet specific market demands," says Parker.

While there has already been a lot of excitement within Canada on what the bill means for the future of plant breeding, there has also been interest internationally.

"The topic of Bill C-18 and, in particular, the impending changes to Canada's Plant Breeders' Rights Act comes up regularly, especially with breeders and colleagues from overseas. International breeders are reluctant, at best, to send material to Canada for evaluation or to develop material specifically for Canada due to the limited ability to protect their intellectual property and

525 Precision Double Disc Air Planter

COVER MORE ACRES

Salford Precision Double Disc Air Planters cover more acres while delivering the same product more accurately than other seeding technology.

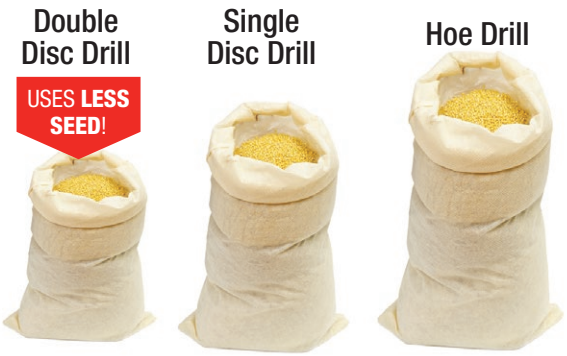
SEED FASTER

Salford precision double disc openers have parallel linkages on each row and the offset disc blades slice cleanly through high volume residue and hard soil for precise depth control without hair pinning.

Salford's peg meter roll maintains metering accuracy regardless of seed size at speeds up to 7 mph. The meter can apply product between 5 lbs and 250 lbs per acre, and the individual meter compartments, balanced air manifold and dimpled towers combine to ensure even seed distribution from row to row.

SEED SAVINGS

The superior seedbed performance of the double disc drill, with it's uniform emergence and high germination rate, has made it the producer opener of choice for planting high value crops. High quality seedbeds typically translate into less seed required.



FUEL SAVINGS

Disc drills require 1/3 less fuel per acre.

www.salfordgroup.com / Ontario, Canada / 1-866-442-1293

SALFORD

be compensated for its use," says Erin Armstrong, director of industry and regulatory affairs for Canterra Seeds. "However, new material started flowing as soon as the introduction of the bill was announced in December 2013, with the expectation that by the time some of these lines are eligible to become registered varieties, they will be able to get PBR with UPOV '91 terms."

On the domestic level, Armstrong says there remains some degree of misunderstanding about the terms of UPOV '91 and, "what it will mean once our PBRA complies with its terms. This leads to hesitation among some, but overall there is good support," she says. "There is recognition it is required to grow investment in plant breeding, especially in cereals. This investment will ultimately benefit growers who will have access to more and better genetics. More investment means more private involvement in plant breeding in addition to the public programs, leading to increased competition as well as increased opportunities for collaboration; new breeding tools and technologies; more diverse germplasm; improved agronomics such as yield, disease packages and end-use quality."

Photo courtesy CSTA

Dave Baute, President of the Canadian Seed Trade Association, says the consensus of the vast majority of farmers, seed industry participants and value chain organizations from coast-to-coast is strong support for the changes to Plant Breeders' Rights legislation that are proposed in Bill C-18.

Improving Seed Trade

At the end of the day, stronger PBR legislation will improve Canada's seed trade globally.

"Strengthened intellectual property framework will encourage foreign breeders to release new varieties into the Canadian market for evaluation and sale, providing growers and farmers with increased choice when sourcing seed varieties to meet their specific needs," says Parker.

In addition, increased investment in domestic plant breeding programs will develop innovative and higher yielding varieties. "Two key elements of the UPOV framework applied internationally are harmonization and reciprocity," explains Parker. "What this means is a breeder can apply for protection in any UPOV member country and receive consistent and harmonized intellectual property protection. As such, Canadian plant breeders will benefit from protection for their varieties not just here in Canada, but when they export propagating material of these successful varieties for use in other UPOV member countries."

THIS GUY JUST PICKED UP 44MT OF PERFECTLY TREATED WHEAT IN 38 MINUTES!

Search "G40 Seed Treater" on YouTube and see for yourself.
www.seedtreating.com

Brian Ellis
Phone: 403-556-2846
Fax: 403-556-6604
gseed@telusplanet.net

GRAHAM
Seed Treating Systems

Further Benefits

There are other positive implications of the bill, including changes to variety registration. "Among those of us who deal with the regulations surrounding variety registration, the sections of Bill C-18 which will move crop types from one part to another through Incorporation by Reference, rather than the current cumbersome process are very welcome also," says Armstrong.

Baute says it will also amend the Seeds Act to allow for foreign data to be used in approval systems in Canada, "speeding up the availability of new varieties and attributes for farmers, without compromising our science based regulatory system."

"It also proposes an amendment that would allow for certain things which may not be changed without going through the complicated and time-sensitive regulatory process, to be moved out of regulation and incorporated by reference. For example, the list of weeds in the Weed Seeds Order could be moved out of regulation, and then after the appropriate consultation and economic impact analysis, the list could be changed with the approval of the minister," he adds.

According to CFIA's Parker, several groups within the ag sector are excited for what the bill means for the future. "Plant breeders, both public and private and at the domestic and international level, continue to be very encouraged by progress of the bill through Parliament. Producer organizations such as the Canadian Federation of Agriculture and Partners in Innovation continue to voice their strong support for the PBRA UPOV '91 amendments."

While some commentators have expressed concern that the bill covers too many changes, making it hard to fully understand the implications of the change, Baute thinks it is simple. "The provisions in Bill C-18 will ensure that farmers have more timely access to new and improved varieties, developed both inside and outside of Canadian borders. The seed trade will be able to deliver those varieties," he says.

In addition, the legislation provides an exception to Plant Breeders' Rights to allow farmers to save, store and condition grain produced from protected varieties on their farms to use as seed on their own farms. Within the legislation, this is called the Farmers' Privilege, something currently not addressed in existing legislation.

Julie McNabb

A Closer Look

The Acts to be amended under the Agricultural Growth Act include: Plant Breeders' Rights Act, Feeds Act, Fertilizers Act, Seeds Act, Health of Animals Act, Plant Protection Act, Agriculture and Agri-Food Administrative Monetary Penalties Act, all under the CFIA, and the Agricultural Marketing Programs Act, and Farm Debt Mediation Act under Agriculture and Agri-Food Canada.

For every stage of crop development you can count on *Perc N Phos*.

From early development right through the stressful times

Perc N Phos is very beneficial in-furrow, side dress and foliar for any crop. It gives plants necessary enzymes, vitamins, and amino acids, making them strong to protect against disease and stresses. ***Perc N Phos*** provides the crop a surge of energy to quickly grow from its young, vulnerable stage. Adding ***Perc N Phos*** gives plants energy to withstand diverse conditions throughout the growing season.

- ***Improve roots***
- ***Increase vigour***
- ***Reduce stress***
- ***Make higher yields with healthier plants***

Contact us today for a free information kit.

CANGROW
Custom Solutions. Proven Results.

Toll free: 800-353-3086
Email: solutions@cangrow.com
cangrow.com

GROWERS ON HIGH ALERT FOR STRIPE RUST

Stripe rust has been developing earlier than ever before on winter wheat in central Alberta — which may mean it is overwintering in the region.

EARLY IN the 2014 crop season, two Alberta Agriculture and Rural Development (AARD) pathologists, Krishan Kumar and Kequan Xi, observed heavy infections of stripe rust on winter wheat in the Olds, Alta. cereal breeding nursery.

Samples of stripe rust-infected winter wheat were also observed in breeding plots and commercial fields near Lacombe and Bentley. Kumar and Xi suggested that as they'd never before observed such severe early infection, the stripe rust pathogen might have overwintered in central Alberta.

According to Michael Harding, a research scientist with AARD, it is unusual for the stripe rust pathogen (*Puccinia striiformis*) to overwinter in Alberta. Most years, he says, it enters the province from a westerly direction — the Pacific Northwest states, where it normally overwinters.

"Due to the predominant westerly wind trajectories, the disease is almost always observed first in southwestern Alberta because it is the first region in Alberta along the natural dissemination pathway to receive stripe rust spore showers from the overwintering sources in the USA," Harding notes. "After appearing in southwestern Alberta, the disease will move north and east depending on prevailing winds and environmental conditions."

Harding believes there are several convincing observations that back the suggestion that stripe rust overwintered in central Alberta. The first is its early appearance in central Alberta without concurrent infection found in southern Alberta, where stripe rust spores would normally have entered the province. "The arrival of stripe rust first in central Alberta, and so early in the growing season, is unusual and very suggestive of an overwintering event there," Harding says.

Xi and Kumar confirmed the overwintering potential, Harding explains, by collecting leaf samples from beneath snow drifts and bringing them indoors for testing. Their findings were illuminative: they discovered that viable stripe rust infections were surviving through the winter under the insulated snow cover.

Denis Gaudet, a cereal pathologist with Agriculture and Agri-Food Canada (AAFC), believes there is plenty of merit to Xi and Kumar's claims. "I would concur with their assessment," he says. "The onset of moderate to severe symptoms early in the growth season that was observed in Olds is not typical of the usual spring infection pattern, which is a trace to light infection, or less than one per cent severity."

Secondly, Gaudet says, the region frequently has an uninterrupted snow cover during the winter that helps protect the fungus and plant tissues from cold injury and death, which can lead to widespread survival of stripe rust from a fall infection throughout the winter.

There are other possible reasons for early infection, however. "It is possible that heavy spore showers originating from the Pacific Northwest USA occurred in early spring and this could have accounted for the early, severe stripe rust observed," he says. "Cool, moist growing conditions during the early spring would have promoted the development of the fungus in the wheat plant."

Regardless of the causes for the early development of stripe rust in central Alberta, seed growers and farmers should be on high alert early in 2015 and use proactive management techniques to ensure minimal damage in winter wheat.

Photo courtesy AARD

Early in the 2014 crop season, two Alberta Agriculture and Rural Development pathologists observed heavy infections of stripe rust on winter wheat in the Olds, Alta. cereal breeding nursery.

Management Techniques

Harding says the use of cereal cultivars with resistance to stripe rust is the most important strategy seed growers and farmers can employ to combat the disease.

"In cases where stripe rust resistance is not available, management of the disease can be achieved by vigilant scouting and timely fungicide applications," Harding notes. "Stripe rust disease can develop and spread very, very rapidly, so frequent scouting for the characteristic stripes that have orange spore pustules is critical."

He says fungicides may be applied preventatively — in other words, for susceptible varieties, fungicides should either be applied in advance or as soon as stripes appear if stripe rust has been reported in the region. Applying upper canopy leaves with fungicide (flag leaves and penultimate leaves) will help avoid yield loss, because these two leaves are the greatest contributors to

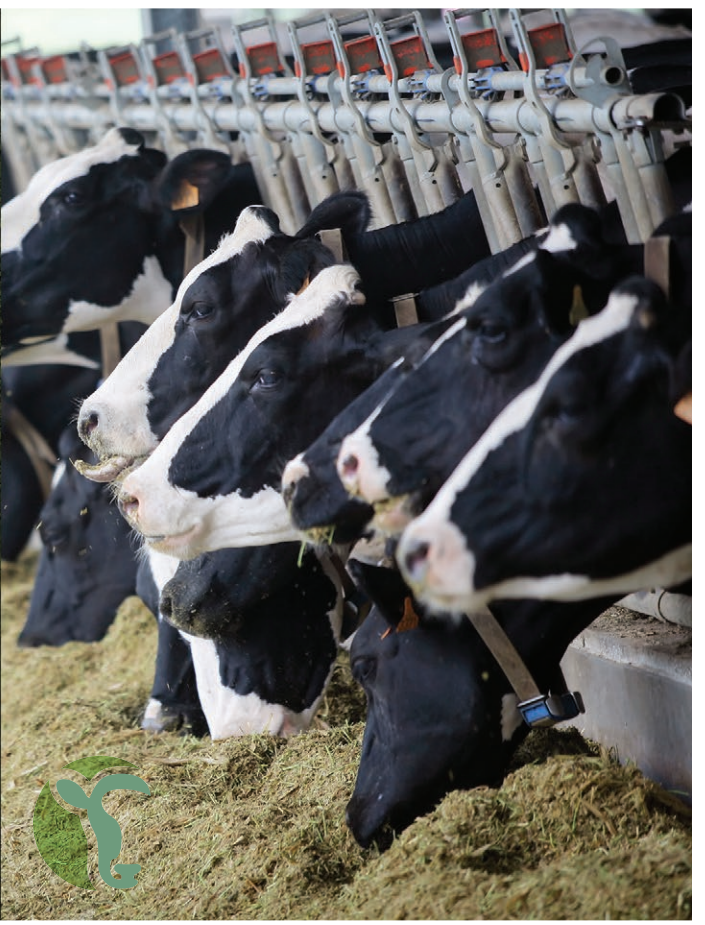
Maximize milk production and profitability with *DairyMax* for alfalfa and corn.

- *Scientifically proven formula*
- *Increase milk production up to 20% per tonne of forage*
- *Increase fibre digestibility up to 17%*
- *Lower milk production cost per litre*
- *Increase silage tonnes per acre*

Contact us today for a free information kit.

CANGROW
Custom Solutions. Proven Results.

Toll free: 800-353-3086
Email: dairymax@cangrow.com
cangrow.com



yield in cereals. If the disease is not present on the upper leaves, or comes in late in the season when grain fill will no longer be affected, the use of fungicides is not cost-effective.

"The optimum time for applying fungicides is around flowering, during which these two leaves are fully expanded," Gaudet explains. "If fungicides are applied too early in the growing season before full development and extension of these two leaves, an additional spray may be necessary. Monitor fields for stripe rust, and if incidence or severity levels exceed five per cent, particularly in June and July, fungicides can be applied."

Gaudet's team at the Lethbridge Research Centre performs weekly stripe rust surveillance in southern Alberta during the summer months and offers fungicide recommendations — a service that should continue into 2015.

Harding and Gaudet both caution that issues with stripe rust infecting and overwintering in the fall-sown winter wheat can also be avoided if growers resist seeding winter wheat too early — in August or early September — because this can create a "green bridge" between the spring wheat crop and the winter wheat crop.

"New sources of resistance are being incorporated and stacked so that the resistance will be long lasting."

— Robert Graf

Resistant Varieties

Robert Graf, a research scientist in winter wheat breeding with Agriculture and Agri-Food Canada, says that the variety Radiant, which carries Yr10, was effective in resisting stripe rust until a few years ago, when new strains of stripe rust began to overcome its resistance.

"The good news is that there are some new winter wheat varieties that have effective resistance," he says.

Varieties classified by the Alberta Seed Guide as boasting varying levels of resistance to stripe rust include the following:

Within the CWRW wheat class, these varieties have "moderate resistance":

- AC Tempest
- Moats
- Emerson
- AAC Gateway (available in fall 2015)
- CDC Chase (potentially available in 2016)

Among the General Purpose winter wheat varieties, these have "moderate resistance":

- Peregrine
- Pintail
- Sunrise
- Swainson

Graf has positive news about the development of new varieties with stripe rust resistance. "Within the breeding program, I have lines with very good stripe rust resistance at all stages of development," he says. "In collaboration with my colleagues, new sources of resistance are being incorporated and stacked so that the resistance will be long lasting."

For over 35 years, Andrukow Group has been providing leading edge agricultural solutions to farmers across Alberta. From the first seed sewn in spring, to the last swath of bountiful harvest and every day in between, our goal is to see you succeed.

Offering a full compliment of canola and cereal seed options, liquid and dry fertilizer, chemical, nutrition, and farm business planning solutions, we truly are your How To, Go To People…committed to getting you what you need, when you need it.

Our mission remains simple: Making agriculture, our clients, and our people better, stronger, and proud of their profession. Call your local AGSI & Partner location today, or visit www.agsiag.com for more information.

Andrukow Group Solutions Inc.

"Stripe rust disease can develop and spread very, very rapidly, so frequent scouting for the characteristic stripes that have orange spore pustules is critical."

— Michael Harding

Gaudet's team has already observed stripe rust pustules in winter wheat seeded this fall during a recent survey of Southern Alberta. "We will be monitoring the survival of stripe rust throughout the winter so we will have an answer by next spring."

Stripe rust can only survive on a living host, but it can move into a fall-seeded crop from a spring-seeded crop if the former is planted too early, or if volunteer cereals are growing nearby. "In rare instances where stripe rust overwinters on a winter wheat crop, or on grassy or cereal volunteers, there a bridge from one green crop to another, and from one season to the next," Harding says.

Julienne Isaacs

Photo courtesy AARD

According to Michael Harding, a research scientist with AARD, it is unusual for the stripe rust pathogen (*Puccinia striiformis*) to overwinter in Alberta.

Got Ergot or Fusarium?

How about Barley in your Wheat?

Can-Seed Equipment Ltd has the solutions!

Make the most of a bad situation and make money at the same time

Forsberg & Oliver Gravity Tables

USC Seed Treaters

Sortex Optical Colour Sorters
With Shape Sorting

Can Seed Equipment Ltd.

Toll Free: 1-800-644-8397

www.canseedequip.com

332 Packham Ave, Saskatoon, SK, S7N 2T1

AgCelence®
Expect more

Our hats off to those who embrace the cold.

Get a free bomber hat and a chance to win a cool getaway.

Insure® Cereal
Fungicide Seed Treatment

You can't change the weather. You just have to face it. That's the idea behind the Embrace the Cold Giveaway. It's your chance to win your choice of a ski getaway or a powder snowmobile trip for two. Just view the informative video on the benefits of Insure® Cereal seed treatment and use the PIN **COLD519** to enter the draw. The best part is everyone wins, because you'll receive a high quality thermal bomber hat just for watching. Visit **agsolutions.ca/insure/embracethecold** to enter.

BASF
We create chemistry

No purchase necessary. Starts Jan 2/15 (12:00 AM ET) and ends Feb 28/15 (11:59 PM ET). Open to Canadian growers who reside in: (i) Alberta; (ii) Peace Region of British Columbia; (iii) Manitoba; or (iv) Saskatchewan; and who: (a) are the owner, operator or designated representative of a farm; and (b) have reached the legal age of majority in their province of residence. Online entry and full rules (including full prize descriptions and complete entry requirements) at www.agsolutions.ca/insure/embracethecold. Each eligible participant who enters the Contest will be eligible to receive one (1) bomber hat with the INSURE CEREAL logo, while supplies last (ARV $25 CAD each). One (1) Grand Prize available consisting of one (1) trip for two (2) legal age of majority adults on either: (a) a Ski Getaway; OR (b) a Powder Snowmobile trip. Skill-testing question required. Odds depend on number of eligible entries.

Always read and follow label directions.

AgSolutions is a registered trade-mark of BASF Corporation; **AgCelence**, and INSURE are registered trade-marks of BASF SE; all used with permission by BASF Canada Inc. INSURE CEREAL should be used in a preventative disease control program. © 2015 BASF Canada Inc.

New Clubroot Pathotype on the Horizon

Alberta researchers have identified a new clubroot pathotype. Proactive management will be key in 2015.

A NEW clubroot pathotype that can overcome clubroot resistance has been confirmed in Alberta fields.

A 2014 clubroot survey written by a team of researchers headed by Stephen Strelkov, division director of Plant BioSystems and professor at the University of Alberta, claims that 648 commercial canola crops in 36 counties and municipalities in Alberta were surveyed, to reveal 104 new cases of clubroot. "Additional surveys by county and municipal personnel identified another 279 new records of the disease, for a total of 383 clubroot-infested fields in 2014," the survey states.

Of the fields surveyed, several planted to resistant canola were found to have mild to medium levels of clubroot infection — signs of a pathotype that can overcome clubroot resistance.

In 2013's clubroot survey, Strelkov identified higher-than-normal levels of clubroot pathogens in fields of apparently resistant canola. Subsequently, Strelkov and his team inoculated certified canola seed with the collected pathogen under greenhouse conditions.

The new strain caused almost 100 per cent damage in the greenhouse trial, even though the canola variety used was resistant to existing clubroot pathogens.

This year, Strelkov's team tested seed from all major companies. "We wanted to find out whether the other varieties were holding up against this strain," says Strelkov. "We inoculated products from all the different companies and we discovered this new strain could overcome all of the current resistant varieties in use."

Strelkov and his team have been working with Alberta Agriculture and Rural Development (AARD) and the Canola Council to collect samples and conduct further testing.

The pathotype was identified this year in many fields where clubroot had not previously been confirmed. Even though the damage in those fields was low to moderate, Strelkov says there might be a yield impact down the road, especially in areas where the problem continues to intensify.

Michael Harding, a research scientist with AARD, says the findings have serious implications for canola growers in Alberta. "The appearance of a new pathotype that can overcome the clubroot resistance is of great concern, especially since all of our currently available clubroot-resistant cultivars are ineffective against this pathotype," he says.

Harding believes the findings, while worrying, are not surprising in the larger context of clubroot resistance gene deployment in other areas of the world. "The clubroot pathogen is a very difficult organism to stay ahead of in terms of deployment of major gene resistance because it has the capacity to generate great diversity (pathotypes) and produce extremely high numbers of long-lived resting spores," he says.

Photo courtesy AARD

A new clubroot pathotype that can overcome clubroot resistance has been confirmed in Alberta fields.

Added together, high diversity, "extreme reproductive potential," and the pathotypes' ability to survive long periods of time in the soil means that new pathotypes can develop after only two or three resistant crop cycles, Harding argues.

AARD continues to assess the situation with surveillance and research activities to analyze the new pathotype. Harding says damage in 2015 will be dependent on a variety of factors. "First, the environment will determine the clubroot disease potential to some extent. A dry spring will be less conducive for disease development," he says.

Crop history and rotation will also have impact on specific regions' susceptibility to the new pathotype. Growers who

emphasize biosecurity and sanitization to prevent movement of infested soil on their operations will have a better chance of preventing new infestations.

Sanitization Key to Management

In Strelkov's view, the most valuable tool for managing clubroot resistance is the continued use of resistant varieties. In cases where resistance has been overcome, longer rotations are warranted and can help maintain the integrity of the resistance by reducing selection pressure on the pathogen.

The University of Alberta's canola breeding and research team has developed a great deal of germplasm which is currently being screened against the new pathogen, according to Habibur Rahman, a research scientist with the department of Agricultural, Food and Nutritional Science. Rahman says the team has completed one round of tests and is currently completing its second round.

"Resistance is a most useful and important tool to manage the disease, and in areas where clubroot is very severe, longer rotations are warranted."

— Stephen Strelkov

"By the end of this year we'll know if we have resistance to this pathotype," he says. It's too soon to say whether the results of those tests might lead to new varieties resistant to the new clubroot pathotypes, but in the meantime, growers cannot afford to bypass best management practices.

"Sanitization of equipment is important," says Strelkov. "I realize it's difficult to clean off all equipment, but mechanical cleaning should be practiced at least." Working clubroot-infested fields last is also a recommended strategy as total sanitization of equipment can be difficult.

Harding seconds the claim that sanitization is key. "Proper sanitization of any equipment carrying soil will reduce the spread of disease," he says. "Sanitization involves cleaning all soil and organic material from equipment and then applying a disinfectant to kill any remaining spores."

But Harding claims that scouting should be the first step in managing clubroot, beginning at flowering and ending at swathing. "Early detection of clubroot could mean the difference between a problem that is 10 m2 as opposed to one that goes unnoticed and becomes a problem across an area of 25 ha or larger," he says.

A good way to begin scouting is at the entrance to fields — growers should pull 50 to 100 plants and inspect the roots for signs of clubroot. Patches of dead or prematurely ripened plants should also be inspected.

Minimizing tillage is another recommended strategy for minimizing the spread of the pathogen.

According to Clint Jurke, agronomy director at the Canola Council of Canada, an integrated system of good stewardship practices will help mitigate the problem. A combined strategy including the use of resistant varieties, lengthy rotations in infested fields, vigilant weed control, reduced or zero tillage and equipment sanitization is the best bet for growers in high-risk clubroot zones.

"Stewardship of our management tools is essential," he says.

Julienne Isaacs

Blackleg Management

According to Clint Jurke, agronomy director at the Canola Council of Canada, blackleg heavily infected some fields in Alberta in 2014.

"We recommend that growers scout for blackleg more thoroughly at harvest each year to determine if it is becoming a problem in their farming situation," says Jurke. "If it is increasing, [growers] need to lengthen their rotation, or start changing varieties that they plant in order to reduce the potential for the disease."

Michael Harding, a research scientist with AARD, says blackleg was not worse in 2014 in Alberta compared to previous years, but was still present in most canola fields.

Strategies for stewardship include practices such as scouting, growing blackleg-resistant cultivars, and the use of three- to four-year rotations. "Blackleg management may also benefit from use of registered seed treatments and foliar-applied fungicides," Harding says.

The Lowdown on Clubroot

What is Clubroot?

Clubroot is a serious soil-borne disease of crucifer crops in many parts of the world. The crucifer family includes vegetable crops like cabbage, broccoli, and cauliflower as well as field crops such as canola and mustard. In British Columbia, Quebec and Ontario, clubroot is a major concern for commercial vegetable producers. Clubroot is especially problematic because the pathogen persists in soil for many years, and cannot be controlled with crop protection products currently registered in Canada. Clubroot has the potential to be a significant threat to canola production in parts of Alberta.

How much yield loss will clubroot cause?

Research with canola indicates infestations approaching 100 per cent led to 50 per cent yield losses, while 10 to 20 per cent infestations led to 5-10 per cent yield losses. As a rough estimate, the per cent yield loss from clubroot is about half the per cent of infected plants.

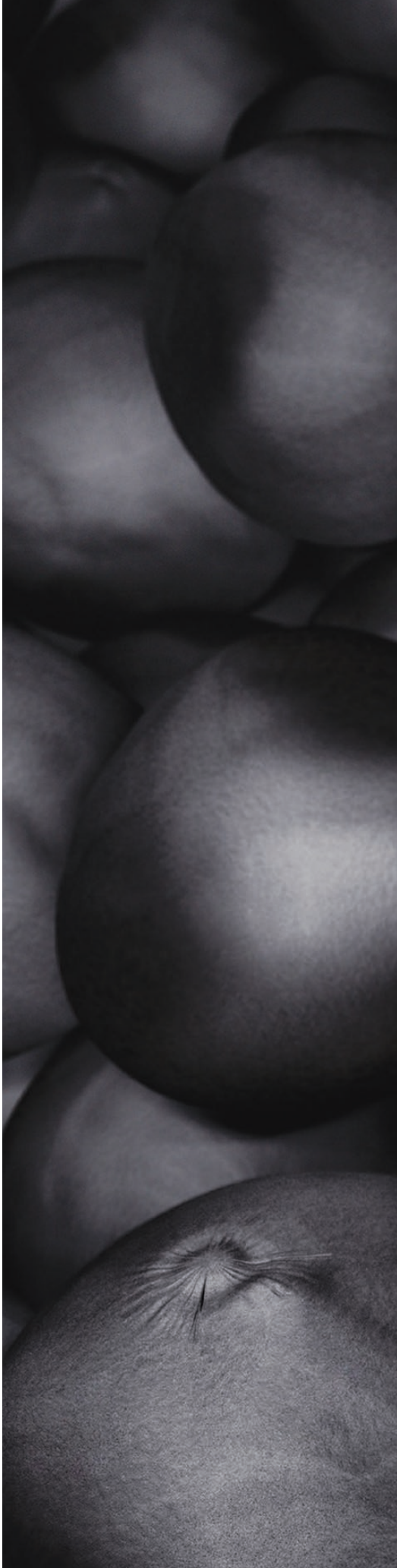
Does Alberta currently have a clubroot problem?

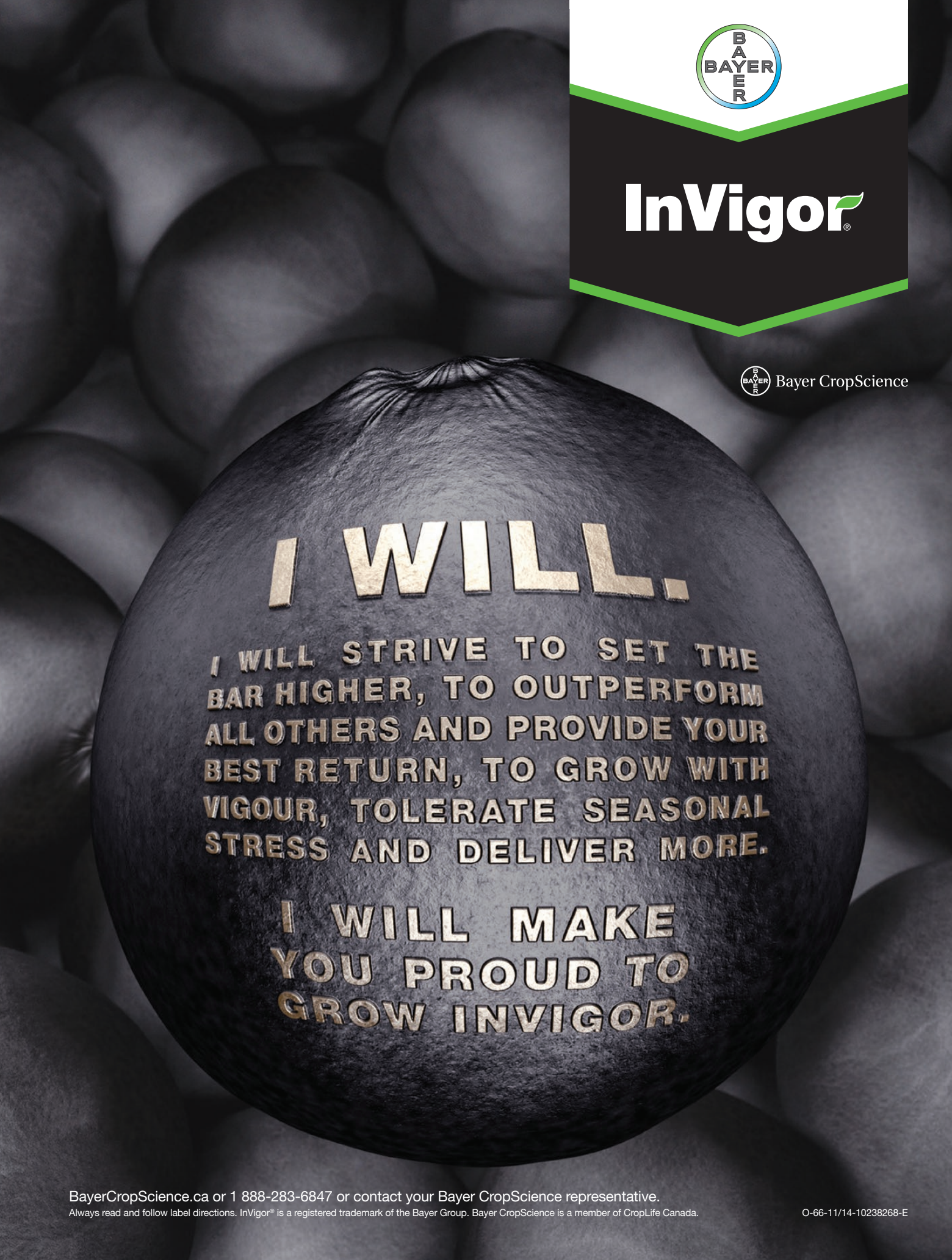
In 2003, the first case of clubroot in western Canadian canola was found in a field near St Albert. Surveys of neighboring fields suggested that the problem was not isolated to one field or one producer. Surveys conducted since 2003 have confirmed clubroot throughout much of central Alberta and two counties in southern Alberta. Survey results indicate that clubroot poses a serious threat to canola production in Alberta.

Where is clubroot likely to be a problem?

Computer simulations based on disease and environmental factors suggested that the Edmonton region was the only part of Alberta likely to have significant clubroot problems. Field surveys since then, however, have found clubroot in many of the counties in the Edmonton region, but also one county in southern Alberta.

—Source: AARD





BayerCropScience.ca or 1 888-283-6847 or contact your Bayer CropScience representative.

Always read and follow label directions. InVigor® is a registered trademark of the Bayer Group. Bayer CropScience is a member of CropLife Canada.

O-66-11/14-10238268-E

CHANGE — ALL IN A DAY'S WORK FOR BASHAW

The Bashaw Seed Cleaning Co-op is doing more business than it ever has in its 56 years of operation.

CHANGE. It's a word Bill Sinclair is very familiar with. The manager of the Bashaw Seed Cleaning Co-op knows that for a seed plant to stay in business, change is something it has to embrace.

"It's been quite a dynamic change period for the seed industry — the last 10 years especially," he says. "Our business today is double what it was 10 years ago."

Sinclair took over as manager of the Bashaw seed plant two decades ago. Built in 1959, the original portion of the plant still exists, but three major expansions have taken place since then, and it's now triple its original size. It has to be big — business has increased a lot. It now serves around 200 active farmers, but has a total shareholder base of 300.

"For the size of the plant we are, we process a high volume of pedigreed seed. We're about 15th in the province for total bushels processed, but in pedigreed seed we're sixth", Sinclair says.

Bashaw is a community of only 873 located in central Alberta at the junction of Hwy. 21 and Hwy. 53. The town might be small, but is located on a major rail line. "Our farmers are at a definite advantage," Sinclair says.

The seed plant — which is now operated by four employees — is also located near a malt plant, which is another advantage. Sinclair says despite those logistical advantages, it's the plant's stellar reputation that makes it the seed plant of choice for its customers.

"Our client base is quite wide. We have clients hauling grain an hour to get here, and we have seed plants located 40 minutes in every direction from us. There are a lot of seed plant cooperatives very close. Sometimes we share customers with other plants, sometimes they bypass other plants. That's the business. The quality of service is very indicative of how busy you're going to be in today's world."

Keeping Up with Technology

Technology upgrades have allowed the plant being able to keep up with demand. "I have a very progressive-thinking board of directors always thinking beyond today," Sinclair says. "Even looking at the technology of colour sorting, that's been huge for us."

The plant's colour sorter allows it to process more seed than ever. Thirty on-site customer owned seed bins offer a selection of pedigreed seed suitable for all seeding requirements.

"I have my sights set on some more technical upgrades — I have a list. Going from colour sorting to true shape recognition, to near infrared where you're doing protein separation — technology-wise, there's no end to what you can do."

The plant does face challenges, as all seed plants do. More red tape than ever is a big one.

"The regulatory requirements now are huge. The daily paperwork requirements are a heck of a lot more significant than they used to be. The whole traceability and accountability thing is beginning to look like a download from the top to the bottom, and we're at the bottom. You used to be able to function more on your abilities to operate and do things as a manager. It's turned into more of a 'Keep the paperwork in order and keep all your licensing and auditing protocols in place,'" Sinclair says.

But those challenges are all in a day's work for the plant, which will continue to see more change as time goes on, Sinclair notes. "We're an authorized establishment and have been cleaning pedigreed seed here for many years, probably for the last 40. That entails a little more protocol than just seed cleaning to begin with." **Marc Zienkiewicz**

The seed plant — which is now operated by four employees — is also located near a malt plant, which is another advantage.

Efficiency is Key

The High Prairie Seed Cleaning Co-op runs an efficient operation thanks to new technology.

COMPUTERS have made all the difference for the High Prairie Seed Cleaning Co-op. Since building its new plant at a new location across town three years ago, the facility is now totally automated, which means precision work and unprecedented efficiency for the plant and its staff.

"Everything is run remotely from the office computer. All the equipment starts and shuts off from there," plant manager Bryant Kushner says. "At the old plant you had to walk around and flip switches."

"Everything is run remotely from the office computer. All the equipment starts and shuts off from there."

— Bryant Kushner

Such changes are par for the course at the High Prairie plant. When it moved into its newly-built facility three years ago (the old plant, opened in 1967, had outlived its usefulness), it was with a whole new lineup of machines, including a colour sorter, that allow it to process three times what the old plant did.

"We processed 300,000 bushels a year at our old plant. We did 800,000 last year at the new plant," Kushner says.

High Prairie has authorized establishment status for cleaning pedigreed seed. It cleans cereal grains, oilseeds and pulse crops, and also offers cleaning and bagging of some clovers, alfalfa and timothy. It also provides separation services, scalping and dockage removal, cereal grain treating, Champion Feed sales and custom grain rolling.

It is also involved in the contracting, processing and bulk railcar loading of export peas.

"If need be, we could put two million bushels a year through the plant," Kushner says. "It's large enough to handle a lot of expansion yet."

Less Disease Pressure

High Prairie is a community of around 2,600 in northern Alberta. Because of its geographical location, Kushner says it has the benefit of less disease pressure seen in other parts of the province, which is a benefit to the plant.

"Peace Country is a little segregated from the other regions in terms of disease. There's lots of bush between us and other areas," he says.

Ergot wasn't an issue for years, until, coincidentally, the year the plant installed its colour sorter, which separates ergot-affected kernels from healthy ones.

Having such technology allows the plant to offer its customers quick service that is getting more important in these times of growing more with less.

"Time is money to farmers, especially nowadays. If they can drop their grain off and haul it back home the same day or next day, that's a win for them," Kushner says. "Turnaround time is quick with the newer, bigger equipment."

"If need be, we could put two million bushels a year through the plant."

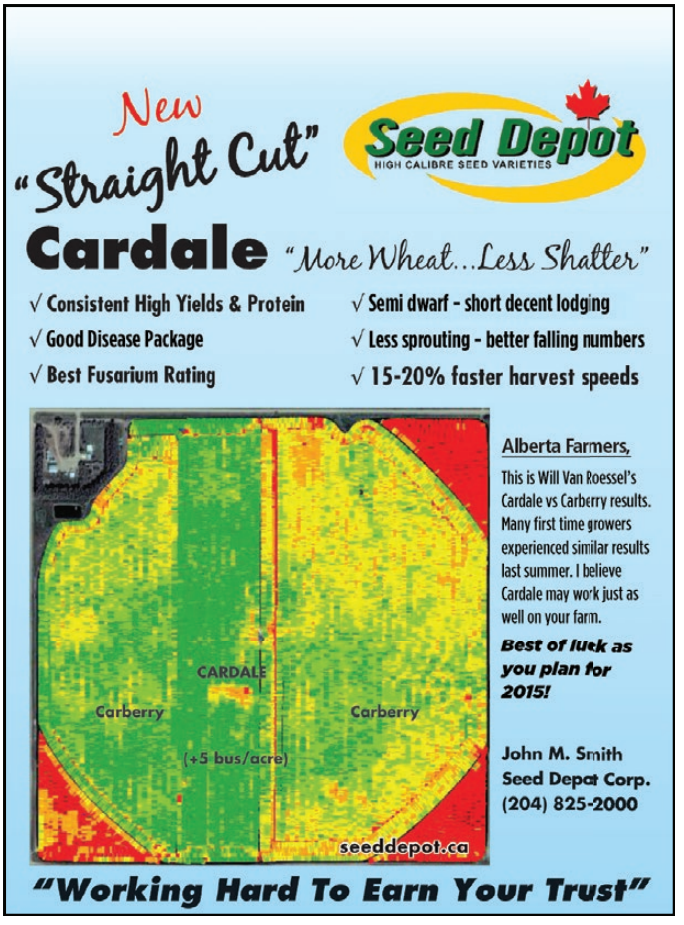
—Bryant Kushner

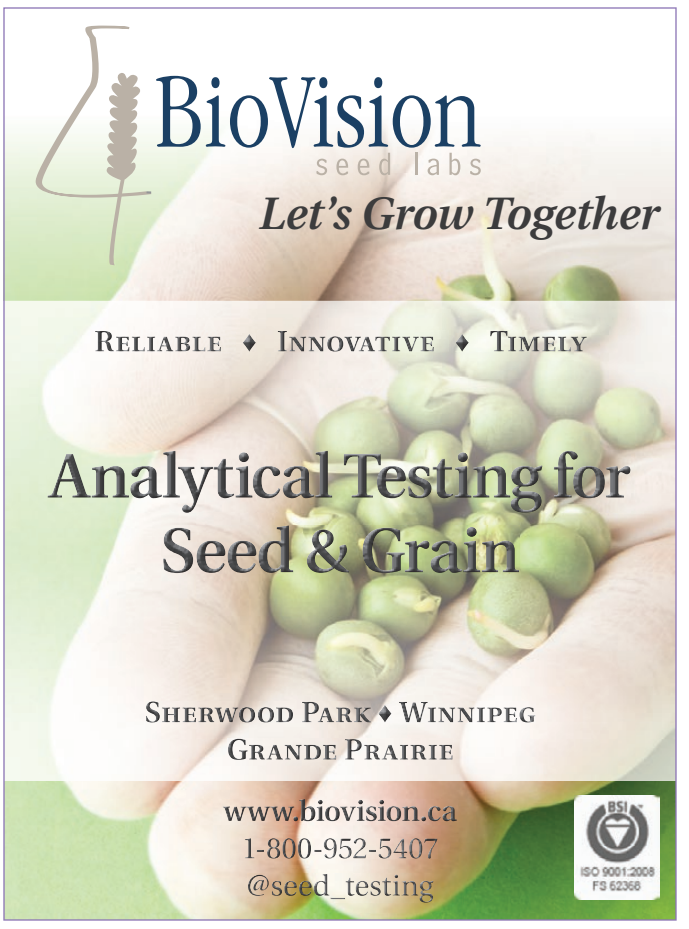
New regulations and processes are a challenge for the plant, as they are for many seed cleaning operations.

"There's annuals, upgrades, staff requirements, manuals for feed businesses, manuals for seed businesses, safety manuals, treating manuals — everything has changed so much over the years," Kushner says.

He's been at the plant for 33 years, 15 of them as manager, and says the changes are bound to keep coming — but the plant will be ready to face them.

"We started out on a small scale, and it just grows and grows," he says. **Marc Zienkiewicz**





FarmTech™
Global Perspectives
...Local Knowledge.

Save the Date!
January 26-28, 2016

Sulo Luoma Continuing Education Scholarship

The Sulo Luoma Scholarship was created in 2008 in memory of Sulo Luoma. Mr. Luoma was a seed grower from Three Hills, Alberta who had a life long love of agriculture and learning. Mr. Luoma served on the FarmTech™ planning comittee and received the FarmTech™ Recognition Award shortly before his passing.

For details visit:
FarmTechConference.com

The FarmTech™ Foundation of Alberta is a registered not-for-profit society committed to agricultural extension, specifically crop production and farm management. The members of the Foundation are the same as the host groups of the FarmTech™ Conference: Alberta Canola Producers Commission, Alberta Pulse Growers, Alberta Barley Commission, Alberta Wheat Commission, and the Alberta Seed Growers' Association.

FarmTech 2016 Proudly Hosted By:

ALBERTA PULSE GROWERS
Alberta Barley
ASGA ALBERTA SEED GROWERS' ASSOCIATION
ALBERTA Canola PRODUCERS COMMISSION
Alberta Wheat COMMISSION

2014 Regional Variety Trials

THE 2014 data from the Regional Variety Trials will help you make one of your most important farm management decisions — choosing the best seed for your farm. Once you have found a variety that fits your farm, you can source seed available with grower directory charts that appear with the RVT data. New for 2015: Grower information that is followed by an * indicates that this is carryover seed from a previous crop year.

Legend for Cereals & Oilseeds

Symbols

†	Denotes variety is flagged for removal.
NS	Denotes variety generally not suited for area.
XX	Denotes insufficient test data to describe.
PBR	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 centimetres.
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.
Wint. Surv.	Winter Survival
Mat. Rating	Maturity Rating
TSW	Thousand seed weight

STRONG. VIGOROUS. DEPENDABLE.

Our passion and expertise is cereal crops. It's all we do.

By partnering with some of Canada's premium seed growers and time-honoured, grassroots agricultural organizations, Alliance Seed is committed to bringing value to your cereal acres through easy access to top quality genetics, and linking your farm to all points along the value chain.

ALLIANCE SEED

2400–333 MAIN ST. WINNIPEG, MB
1–877–270–2890 FAX: 204–272–2893
WWW.ALLIANCESEED.COM

NOW AVAILABLE

CANADA WESTERN RED SPRING WHEAT
AAC ELIE

CANADA WESTERN AMBER DURUM WHEAT
AAC CURRENT

©2014 Alliance Seed

Varieties of Cereal and Oilseed Crops for Alberta

THIS ANNUAL publication provides information on cereal and oilseed variety performance within Alberta and northeastern British Columbia. Important agronomic characteristics and disease resistance information is provided for varieties of wheat, barley, oat, 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 (AARD). Funding for the program is provided by AARD, the Alberta Seed Growers' Association, the Association of Alberta Co-op Seed Cleaning Plants, the Alberta Wheat Commission, and entry fees for the varieties being tested.

Data for this publication are contributed by numerous applied research associations, the Prairie Grain Development Committee, the Canola Council of Canada, CPS Canada, Agriculture and Agri-Food Canada, and AARD. Test results and updated tables are prepared, reviewed and approved by members of the ABCGAC. Sincere thanks are extended to all individuals and organizations who contribute to this publication.

Yield Results and Reporting

Variety choice should never be based solely on yield performance, as it is only one factor that affects net return. The genetic yield potential of a variety is often masked by numerous factors, some of which can be controlled through variety choice and others through astute agronomic management. Producers are encouraged to consider other characteristics such as maturity, plant height, lodging and disease/pest resistance when deciding which varieties to grow. Long-term satisfaction with a variety is often related to non-yield characteristics.

Exercise caution when making yield comparisons among varieties. Variety yield should only be directly compared to the standard reference check. Actual head-to-head yield comparisons between other varieties may not have occurred. Small plot agronomic trials are expensive to grow and new varieties are registered every year. It is simply impractical to grow all varieties at the same time. Following several years of data collection, the yield performance for a particular variety stabilizes relative to the check and further testing is no longer required. It is for these reasons that the check varieties are grown every year (e.g. AC Barrie for CWRS wheat, AC Metcalfe for barley) and that changes to these checks are infrequent. The "Overall Station Years of Testing" column provides an indication of the unbalanced nature of the dataset.

At least six station-years of yield data collected over two years are required prior to reporting the figures in this publication. For new varieties, Overall Yield is often the first indication of yield potential relative to the check. As additional data become available, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium, High and Very High). Yield rankings among varieties can change substantially due to growing conditions. To reflect these differences, results from a test site that produced high yield in a particular year are placed into the database for 'high' yielding environments. The same site may contribute to the 'low' yield category in a drought year, when yields are low. Consistent performance over all Yield Test Categories indicates that a variety has environmental responses similar to the check and may have good yield stability over a wide range of environments. Scientific studies conducted on variety performance in Western Canada have shown that Yield Test Category analysis provides a more reliable indication of yield performance than results organized by geographic region.

The yield comparison tables have several features:

- Overall actual yield of the check (bushels per acre) based on all data available to the testing program is provided along with the number of station years of testing.
- The range in yield for each Yield Test Category is defined.
- Actual yield of the check in each Yield Test Category is reported.

For varieties with sufficient data, the Overall Yield and performance in each Yield Test Category is expressed relative to the check.

Significant statistical differences relative to the check are indicated.

Yields that are statistically higher (+) or lower (-) than the check are indicated to aid in the selection process. No symbol after the yield figure indicates that there is no statistical difference from the check. Pay particular attention to data on new varieties that have not been fully tested. If a large difference from the check

is reported but is not significant, it could mean that yields have varied widely, and/or there are not enough data to prove a statistical difference. With additional years of testing, the reported yield differences will become more accurate.

To make effective use of the yield comparison tables, producers should set a realistic yield target for the season and determine where it fits within the Low, Medium, High and Very High Yield Test Categories. This approach facilitates matching of variety choice to expected productivity levels and is similar to that used when making decisions on other levels of inputs. Please note that the actual yield levels indicated are from small plot trials, which may be 15 to 20 per cent higher than yields expected under commercial production.

Maturity Ratings

As is the case for yield, growing conditions have a tremendous influence on the date of maturity. For example, a variety of CWRS wheat may mature in 98 days in Lethbridge, but take 103 days in Edmonton. Likewise, a two day difference in maturity between varieties in southern Alberta may amount to a five day difference in a more northerly location. To take this into account, maturity is 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 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 Breeders' Rights (PBR) logo indicates a variety is protected by law and that seed of the variety cannot be sold without permission and royalty payment. The use of the ▲ logo indicates that an application for PBR has been submitted.

Canola

The Alberta/British Columbia Cereal and Oilseed Advisory Committee (ABCGAC) does not take any responsibility for accuracy or validity of the canola performance data.

Diseases, Seed Treatment and Seed Testing

- Disease ratings are compiled from various data sources in Alberta and other Prairie provinces.
- Disease resistance/tolerance ratings are reported as follows: R = Resistant (previously VG); MR = Moderately Resistant (previously G); I = Intermediate (previously F); MS = Moderately Susceptible (previously P); S = Susceptible (previously VP).

- Treat rye and flax seed to control seedling blight, cereal seed for smuts and fusarium, canola seed to control flea beetle, seedling blight and the seed borne phase of virulent blackleg.
- Refer to labels for maximum storage periods of treated seed.
- Treated seed must not be fed to livestock, poultry or wildlife, and cannot be sold for feed.
- Leaf spot ratings in the wheat tables are a combination of resistance to tan spot and septoria leaf disease complex.
- Fusarium head blight (FHB), caused by *Fusarium graminearum*, is an increasing problem in Alberta. The relative ranking of crops from most susceptible to least susceptible is durum wheat, common 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.
- Seed used in the Alberta Regional Variety Testing program comes with a "fusarium-free" certificate and trials are inspected for FHB during the growing season.

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.: (403) 342-0404
- Precision Seed Testing, Beaverlodge, Alta.: (780) 354-2259
- Seed Check Technologies Inc., Leduc, Alta.: (780) 980-8324

Other Variety Information

For additional information, including varieties not listed in this publication, please call the Alberta Ag-Info Centre toll-free at 1-310-FARM (3276) or check the Alberta Agriculture and Rural Development website, Ropin' the Web at: www.agriculture.alberta.ca/rvt.

WESTERN WHEAT & BARLEY CHECK-OFF

BENEFITS TO YOUR FARM

western wheat & barley check-off

DELIVERING NEW VARIETIES & MARKET OPPORTUNITIES TO YOUR FARM

wheatbarleycheckoff.com

Your contribution to the Western Wheat & Barley Check-off funds research, technical support and market development activities that deliver significant benefits to your farm.

Maximizing your return on investment

On average, every check-off dollar invested in varietal research returns $20.40 in value to you for wheat, and $7.56 for barley.

Study by University of Saskatchewan

Ensuring end-users get the most from your crop

Training and technical support for end-users of your crop contributes to satisfied, long-term customers. Nearly 42,000 people from 115 countries have been trained in the optimal use of Canadian wheat and barley.

These funds are provided to three organizations that work to support your farm's future. Visit their websites to learn more:

Western Grains Research Foundation — westerngrains.com

Cigi — cigi.ca

CMBTC — cmbtc.com

WESTLOCK
SEED CLEANING CO-OP LTD.



PEDIGREED SEED FOR SALE

BARLEY
- CDC Cowboy
- Vivar
- AC Metcalfe
- Seebe
- CDC Copeland
- CDC Coalition
- CDC Meredith
- Busby
- Chigwell
- CDC Austenson
- Breton

OATS
- AC Morgan
- AC Mustang
- CDC Haymaker
- Bradley
- CDC SeaBiscuit

TRITICALE
- Sunray

WHEAT
- HRS
  - Stettler
  - Harvest
  - Carberry
  - AAC Redwater
  - Muchmore
  - CDC Plentiful
- SWS
  - Sadash
- CPS Red
  - AC Foremost
  - AAC Ryley

PEAS (INQUIRE)
- Cooper
- CDC Meadow
- CDC Tetris
- CDC Raezor
- Thunderbird

FABA BEANS (INQUIRE)
- Snowbird

"OVER 350,000 BUSHELS OF PEDIGREED SEED STORAGE"

PROCESSORS & RETAILERS FOR THE FOLLOWING GROWERS:

Anderson Seed Growers Ltd.
780-674-5670 | 780-674-1941

Bar 3 Farms
780-348-5791 | 780-349-1434

McNelly Seed Farms Ltd.
780-348-5749 | 780-349-0685

Cross Seed Farms
780-349-2587 | 780-349-1453

Cyre Seed Farms
780-349-4775 | 780-307-4246
780-307-4332

Forward Seed Farms 780-307-4343

Trueblood Farms Ltd.
780-954-3745 | 780-349-0444

True Seeds Ltd.
780-777-5885

Nick Jonk
780-349-5458 | 780-349-0483

Beamish Seed Farms Ltd.
780-954-2166 | 780-307-4742

Meinczinger Seed Farms Ltd.
780-349-2456 | 780-349-9515

Rick's Pedigreed Seed
780-674-2595 | 780-305-9517

Brian Miller 780-674-1240

Dewindt Farms Ltd. 780-398-2377

MKM Joint Ventures
780-398-2336 | 780-699-4073

BBC Farms
780-674-3575/780-674-0005

Galloway Seeds Ltd. 780-998-3036

SEED TREATING AVAILABLE

P (780) 349-3944 | F (780) 349-3623 | E wscp@telus.net
WWW.WESTLOCKSEED.CA
10016 93 Ave. Westlock, AB | Manager: Wayne Walker
T7P 2P2

BASF syngenta Bayer CropScience

FEED AND FOOD BARLEY

Variety	2 or 6 row	Awn Type[1]	Overall Station Years of Testing	Overall Yield	Yield Category[2] (% AC Metcalfe) Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)	Agronomic Characteristics: Maturity Rating[4]	Test Weight (lb/bu)	TSW[5] (g)	Height (cm)	Resistance to Lodging[6]
GENERAL PURPOSE - HULLED													
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Metcalfe)													
AC Metcalfe (bu/ac)				99	46	79	103	133					
AC Metcalfe[3]	**2**	**R**	**510**	**100**	**100**	**100**	**100**	**100**	**M**	**52**	**46**	**79**	**F**
Amisk ▲ ▲	6	SS	28	106+	XX	109	104	109+	M	49	45	71	VG
Brahma	2	R	87	111+	112+	109+	113+	111+	M	53	47	74	G
Breton ▲ ▲	6	S	42	107+	97	108	106+	110+	M	49	45	80	F
Canmore ▲ ▲	2	R	28	108+	XX	105	112+	108+	M	53	49	76	G
Champion	2	R	139	113+	125+	113+	113+	110+	M	53	49	77	G
Vivar ▲	6	R	216	109+	98	105+	111+	117+	M	49	44	73	VG
XENA ▲	2	R	271	112+	111+	109+	114+	112+	M	52	49	77	G
Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)													
AC Harper ▲	6	SS	166	103+	95	96-	102	111+	M	48	40	80	G
AC Ranger	6	S	48	107+	101	99	118+	107+	L	49	43	74	F
AC Rosser ▲	6	S	166	108+	101	102	109+	113+	M	48	41	82	G
Busby ▲	2	R	45	104+	107	103	106	103	M	53	49	78	G
CDC Austenson ▲	2	R	65	112+	108	113+	111+	112+	L	54	46	78	G
CDC Bold †	2	R	77	106+	111+	107+	106+	102	M	53	48	72	VG
CDC Coalition ▲	2	R	57	110+	107	112+	108+	109+	L	53	47	74	G
CDC Cowboy ▲	2	R	75	95-	107	94-	93-	96-	L	52	55	103	F
CDC Dolly †	2	R	184	101	97	100	103+	100	M	53	49	74	F
CDC Maverick ▲	2	S	43	95-	XX	90-	97	96	M	54	55	98	F
CDC Trey	2	R	106	103+	101	105+	101	105+	M	52	50	80	G
Chigwell ▲	6	S	43	104	XX	98	106	111+	M	49	41	76	G
CONLON ▲	2	S	63	94-	97	93-	93-	96-	VE	52	52	80	G
Gadsby ▲	2	R	45	112+	XX	114+	114+	108+	M	53	51	83	F
Muskwa ▲	6	S	44	105+	XX	103	105	110+	M	50	42	73	G
Ponoka ▲	2	R	120	108+	101	107+	110+	109+	L	51	46	80	G
Seebe	2	R	229	101	97	100	102	100	VL	52	50	86	G
Sundre ▲	6	S	72	110+	100	105	112+	117+	L	51	43	86	G
Trochu ▲	6	S	136	107+	101	102	109+	112+	M	49	41	78	G
HULLESS													
Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)													
CDC Clear ▲	2	R	43	95-	XX	92-	100	XX	L	62	47	85	G
CDC Carter ▲	2	R	45	97-	97	99	94-	XX	M	62	39	77	VG
CDC McGwire ▲	2	R	107	93-	88-	93-	99	XX	M	61	39	80	VG
Tyto	6	S	72	81-	79-	84-	96	96	M	55	40	73	VG

REMARKS: In hulless varieties the hull is left in the field, thus grain yields comparable to hulled varieties are 9-12% lower. Handling of hulless varieties should be minimized to avoid seed damage. CDC Carter, CDC McGwire and Tyto are normal starch hulless varieties. CDC Clear is a hulless malting variety. New registrations: Amisk (BT593) and Canmore (TR10694). ▲- Protected by Plant Breeders' Rights. ▲- Plant Breeder's Rights applied for. XX - Insufficient data to describe. † - Flagged for removal. [1]Awn types: R = rough; S = smooth; 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, 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 is 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 no statistical difference from AC Metcalfe. [4]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late and VL = Very Late. The long term average maturity for AC Metcalfe is 95 days and rated as Medium (M). [5]TSW: Thousand Seed Weight. [6]Resistance to lodging: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [7]Disease tolerance ratings: R = Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [8]Varieties with ratings of Intermediate (I) to Susceptible (S) for smuts should be seed-treated with a systemic fungicide to reduce the potential for infection.

FEED AND FOOD BARLEY— *CONTINUED*

	Disease Tolerance:[7]						
					Net Blotch:		
Variety	Loose Smut[8]	Other Smuts[8]	Root Rot	Scald	Spot Form	Net Form	Fusarium Head Blight
GENERAL PURPOSE - HULLED							
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Metcalfe)							
AC Metcalfe (bu/ac)							
AC Metcalfe[3]	**R**	**I**	**I**	**S**	**I**	**S**	**I**
Amisk ▲ ▲	S	MS	MS	I	MR	I	S
Brahma	MS	R	MR	S	I	I	I
Breton ▲ ▲	MS	MR	I	I	MR	I	S
Canmore ▲ ▲	R	R	I	MR	MR	MS	I
Champion	S	R	MR	S	I	S	I
Vivar ▲	I	R	MR	I	MR	R	S
XENA ▲	MS	MS	MR	S	I	S	MR
Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)							
AC Harper ▲	MS	I	I	I	I	I	MS
AC Ranger	MS	I	MR	MS	MR	I	S
AC Rosser ▲	MS	R	MR	S	MR	I	S
Busby ▲	S	MR	S	I	MR	MS	I
CDC Austenson ▲	S	R	I	S	R	MS	I
CDC Bold †	MS	MR	MR	S	I	S	S
CDC Coalition ▲	R	R	I	S	MR	S	I
CDC Cowboy ▲	MS	MR	I	MS	MR	I	MR
CDC Dolly †	S	I	I	I	MS	S	MR
CDC Maverick ▲	S	R	I	MS	MR	I	I
CDC Trey	MS	R	MR	MS	R	I	I
Chigwell ▲	MS	MR	MS	MR	MR	I	S
CONLON ▲	I	I	MR	S	MR	I	MR
Gadsby ▲	R	R	I	R	MR	MS	I
Muskwa ▲	MS	R	MS	MR	MR	MS	S
Ponoka ▲	R	R	I	MR	MR	MS	I
Seebe	S	R	I	MR	MS	S	MR
Sundre ▲	MS	R	MS	R	I	MS	S
Trochu ▲	MS	MR	MR	I	MR	S	I
HULLESS							
Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)							
CDC Clear ▲	R	R	I	S	R	MS	MR
CDC Carter ▲	R	R	S	MS	MR	I	I
CDC McGwire ▲	MS	MR	MR	I	MR	I	MR
Tyto	S	R	I	MS	I	S	MS

Alberta and British Columbia Pedigreed Seed Growers Directory of Varieties Produced in 2014

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)

MALTING BARLEY

Variety	2 or 6 row	Awn Type[1]	Overall Station Years of Testing	Overall Yield	Yield Category[2] (% AC Metcalfe) Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)	Agronomic Characteristics: Maturity Rating[4]	Test Weight (lb/bu)	TSW[5] (g)	Height (cm)	Resistance to Lodging[6]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Metcalfe)													
AC Metcalfe (bu/ac)				**99**	**46**	**79**	**103**	**133**					
AC Metcalfe[3]	**2**	**R**	**510**	**100**	**100**	**100**	**100**	**100**	**M**	**52**	**46**	**79**	**F**
AAC Synergy	2	R	42	114+	XX	115+	115+	113+	M	51	48	75	F
Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)													
Bentley	2	R	77	105+	109	102	105+	106+	M	52	47	81	G
CDC Anderson ▲	6	R	44	96	XX	96	92	100	M	50	39	80	G
CDC Copeland	2	R	137	103+	96	101	106+	104+	M	51	47	81	F
CDC Kindersley ▲	2	R	47	104+	XX	102	104	104+	E	53	43	78	G
CDC Mayfair	6	R	56	97	XX	93-	96	104	E	49	40	76	G
CDC Meredith	2	R	65	107+	102	108+	108+	107+	L	51	46	76	F
CDC PolarStar	2	R	43	101	XX	103	105+	97	M	52	44	79	G
Cerveza	2	R	49	109+	XX	109+	108+	109+	M	51	46	74	F
Harrington	2	R	284	93-	96-	94-	93-	91-	M	51	44	78	F
LEGACY	6	SS	122	99	93	95-	102	103	M	49	39	82	G
Major	2	R	72	107+	104	108+	107+	106+	M	51	45	73	G
Merit 57	2	R	87	109+	110+	108+	109+	111+	VL	51	44	79	F
Newdale	2	R	94	105+	106	104+	105+	106+	M	52	46	73	F
Tradition	6	SS	121	98	90-	95-	101	103	E	50	40	81	G

REMARKS: The Canadian Malting Barley Technical Centre (CMBTC) evaluates and recommends malting barley varieties for industry acceptance. Please refer to the 2015-2016 CMBTC Recommended Malt Barley Variety List for more information. Insufficient data to describe: TR07921. - Protected by Plant Breeders' Rights. ▲- Plant Breeder's Rights applied for. XX - Insufficient data to describe. [1]Awn types: R = rough; S = smooth; 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 is 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 no statistical difference from AC Matcalfe. [4]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late and VL = Very Late. The long term average maturity for AC Metcalfe is 95 days and rated as Medium (M). [5]TSW: Thousand Seed Weight. [6]Resistance to lodging: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [7]Disease tolerance ratings: R = Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [8]Varieties with ratings of Intermediate (I) to Susceptible (S) for smuts should be seed-treated with a systemic fungicide to reduce the potential for infection.

SeCan

Our genes only come in blue.

When you purchase SeCan certified seed you're getting the promise and performance of SeCan genetics. And with certified seed, you're investing in the future of plant breeding and new varieties that contribute to your bottom line.

Make the comfortable choice. Choose SeCan certified seed.

Certified Seed YOU'RE PLANTING SUCCESS

For genes that fit *your* farm®, visit www.secan.com

Genes that fit *your* farm® is a registered trademark of SeCan.

MALTING BARLEY— *CONTINUED*

Variety	Disease Tolerance:[7] Loose Smut[8]	Other Smuts[8]	Root Rot	Scald	Net Blotch: Spot Form	Net Blotch: Net Form	FHB
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Metcalfe)							
AC Metcalfe (bu/ac)							
AC Metcalfe[3]	**R**	**I**	**I**	**S**	**I**	**S**	**I**
AAC Synergy	S	I	I	S	R	MR	MS
Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)							
Bentley	MS	MR	MR	S	R	MS	MS
CDC Anderson ▲	MR	R	I	MS	MR	MS	I
CDC Copeland	MS	I	I	S	I	I	I
CDC Kindersley ▲	S	R	I	S	MR	MS	I
CDC Mayfair	S	MR	I	S	MR	MS	MS
CDC Meredith	R	MR	MR	S	R	S	I
CDC PolarStar	S	R	MS	S	MR	S	MR
Cerveza	R	R	I	S	MR	MS	I
Harrington	P	P	I	VP	P	VP	MR
LEGACY	I	MR	MR	S	MR	S	MS
Major	R	MR	I	MS	MR	I	I
Merit 57	MS	S	I	MS	MR	MS	MS
Newdale	S	MR	MR	MS	MR	I	I
Tradition	S	MR	MR	S	I	S	S

BARLEY

	S	F	R	C
AAC SYNERGY				
BI: AAFC (Brandon), Dist: AAFC				
Ellis, Brian / Olds / (403) 556-2890				C
Hilton, Spencer / Strathmore / (403) 934-8256				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
AC ALBRIGHT				
BI: AAFC (Lacombe), Dist: SeCan Members				
Wuthrich, David / Cecil Lake / (250) 781-3527				C
AC METCALFE				
BI: AAFC (Brandon), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Cornish, Bob / Airdrie / (403) 948-3070			R	C
Davidson, E.Daryl & Dean / Kitscoty / (780) 846-2456			R	
Dueck, Ralph E. & Brent / Olds / (403) 556-2602	S	F	R	
Eliason, Bruce W. / Wrentham / (403) 222-2258			R	C
Foster's Seed & Feed Limited / Beaverlodge / 780-354-2107				C
Jacula, Dean S. & Shawn D. / Vermilion / (780) 853-7333				C
Kapitski, Lawrence / Andrew / (780) 365-2134			R	
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330*				C
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500	S		R	C
Limoges, Richard / McLennan / (780) 324-2335				C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696			R	
Markert Seeds Ltd. / Vulcan / (403) 485-6708				C
McNelly, Bevin / Clyde / (780) 348-5749				C
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595	S	F	R	
Murray, Bruce & Wesley / Lethbridge / (403) 327-9389				C
Nemetz, Charlie & Jerritt & Lewis & Brandon / Stettler / (403) 742-0436				C
Penwest Seeds / Three Hills / (403) 443-7212			R	C
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
Stamp Seeds / Enchant / (403) 739-2233				C
Strain, Arthur George / Foremost / (403) 867-2227				C
Svanes, Ronald J. / Picture Butte / (403) 317-0981				C
Svean, Alan Carl & Scott / Rivercourse / (780) 745-2578				C
Webber, Curtis / Stony Plain / (780) 963-6897			R	
Welsh, Donald Alan / Milk River / (403) 647-2228				C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928				C

Watch our Videos Online
www.meridianmfg.com/videos

© 2015 Meridian Manufacturing Inc. Registered Trademarks Used Under License.

We've Got You Covered.

Complete Storage and Handling Solutions Under One Roof. When it comes to seed, you need reliability, safety and efficiency. Meridian offers a variety of industry-leading storage and handling products, manufactured with commitment to the highest quality that is unmatched. For seed handling and storage, Meridian is the best choice.

For more information, visit **www.meridianmfg.com**

MERIDIAN®

www.meridianmfg.com

AC RANGER
BI: AAFC (Brandon), Dist: FP Genetics
Airth, Jock & Linda / Brooks / (403) 362-4372 — C

AC ROSSER
BI: AAFC (Brandon), Dist:SeCan Members
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617 — F

AMISK
BI: FCDC (Lacombe), Dist: SeCan Members
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321 — S, R
Jones, Greg Thomas / Ponoka / (403) 783-6495 — S, R
Mans, John / Nobleford / (403) 824-3585 — S, F, C
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535 — F, R
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617 — S
Webber, Curtis / Stony Plain / (780) 963-6897 — R
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395 — R

BENTLEY
BI: FCDC (Lacombe), Dist: Canterra Seeds
Cameron, Linda, Craig & Ryan / Millet / (780) 387-5313 — R
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330 — R, C
Parkland Fertilizers / Wetaskiwin / (780) 352-3359 — C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322 — R
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358 — F, C

BRAHMA & CHAMPION
BI: N/A, Dist: CPS (Canada) Inc.
Proven Seed / CPS (Canada) Inc. / High River / (403) 336-4826 — R

BRETON
BI: FCDC (Lacombe), Dist: Canterra Seeds
Cross, Douglas / Westlock / (780) 349-2587 — R

BUSBY
BI: FCDC (Lacombe), Dist: Mastin Seeds
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670 — C
Mastin, Robert B. / Sundre / (403) 556-2609 — C

CANMORE
BI: AARD, Dist: Canterra Seeds
Benci, Dennis / Carmangay / (403) 643-2294 — R
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322 — F
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358 — S, F

CDC ANDERSON
BI: CDC, Dist: SeCan Members
Wagner, Terry & Loree / Lacombe / (403) 782-2107 — C

CDC AUSTENSON
BI: CDC, Dist: SeCan Members
Airth, Jock & Linda / Brooks / (403) 362-4372 — C
Card, Gordon B. / Magrath / (403) 758-3444 — C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900 — R
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333 — C
Dallas, Bradley C. / Bowden / (403) 224-2162 — C
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321 — F
Fabian, Patrick V. / Tilley / (403) 377-2000 — C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036 — C
Gibson, Donald / Sangudo / (780) 785-2214 — C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072 — C
Haney Farms / Picture Butte / (403) 738-4517 — C
Hoff, Peter Edward / Gleichen / (403) 734-2140 — S, F, C
Huvenaars, John & Lisa / Hays / (403) 725-2126 — C
Huvenaars, Richard / Hays / (403) 725-2213 — C
Jones, Greg Thomas / Ponoka / (403) 783-6495 — F, C
Kemp, Richard L. / Innisfail / (403) 227-4836 — C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330 — R, C
Limoges, Richard / McLennan / (780) 324-2335 — C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240* — C
Markert Seeds Ltd. / Vulcan / (403) 485-6708 — C
Massey, Derwin / Stettler / (403) 883-2503 — C
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868 — C
McNelly, Bevin / Clyde / (780) 348-5749 — R
Metzger, Don / Three Hills / (403) 572-3284 — C
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595 — S, F, R
Nemetz, Charlie & Jerritt & Lewis & Brandon / Stettler / (403) 742-0436 — C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645 — C
Oatway, Lori / Clive / (403) 784-3001 — R
Penwest Seeds / Three Hills / (403) 443-7212 — R, C
Selte, Donald / Vermilion / (780) 853-2484 — R
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322 — C
Shultz, Shawn / Didsbury / (403) 335-3694 — C
Sim, Darwin & Derek / Ponoka / (780) 372-2111 — R
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358 — C

Trait Stewardship Responsibilities Notice to Farmers

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. Commercialized products have 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 registered trademark 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. Acceleron® seed treatment technology for canola contains the active ingredients difenoconazole, metalaxyl (M and S isomers), fludioxonil, and thiamethoxam. Acceleron® seed treatment technology for soybeans (fungicides only) is a combination of three separate individually registered products, which together contain the active ingredients fluxapyroxad, pyraclostrobin and metalaxyl. Acceleron® seed treatment technology for soybeans (fungicides and insecticide) is a combination of four separate individually registered products, which together contain the active ingredients fluxapyroxad, pyraclostrobin, metalaxyl and imidacloprid. Acceleron® seed treatment technology for corn (fungicides only) is a combination of three separate individually-registered products, which together contain the active ingredients metalaxyl, trifloxystrobin and ipconazole. Acceleron® seed treatment technology for corn (fungicides and insecticide) is a combination of four separate individually-registered products, which together contain the active ingredients metalaxyl, trifloxystrobin, ipconazole, and clothianidin. Acceleron® seed treatment technology for corn with Poncho®/VoTivo™ (fungicides, insecticide and nematicide) is a combination of five separate individually-registered products, which together contain the active ingredients metalaxyl, trifloxystrobin, ipconazole, clothianidin and Bacillus firmus strain I-5821. Acceleron®, Acceleron and Design®, DEKALB and Design®, DEKALB®, Genuity and Design®, Genuity®, RIB Complete and Design®, RIB Complete®, Roundup Ready 2 Technology and Design®, Roundup Ready 2 Yield®, Roundup Ready®, Roundup Transorb®, Roundup WeatherMAX®, Roundup®, SmartStax and Design®, SmartStax®, Transorb®, VT Double PRO® and VT Triple PRO® are trademarks of Monsanto Technology LLC. Used under license. LibertyLink® and the Water Droplet Design are trademarks of Bayer. Used under license. Herculex® is a registered trademark of Dow AgroSciences LLC. Used under license. Poncho® and Votivo™ are trademarks of Bayer. Used under license. All other trademarks are the property of their respective owners.

Roundup Ready 2 TECHNOLOGY®

LIBERTY LINK® CORN

Stamp Seeds / Enchant / (403) 739-2233				C
Templeton, Doran & Brant / Lethbridge / (403) 345-4144				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			R	
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F	R	C
Webber, Curtis / Stony Plain / (780) 963-6897			R	C
Weigum, Garry / Three Hills / (403) 443-2476				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928			R	C
CDC BATTLEFORD				
BI: CDC, Dist: SeCan Members				
Wagner, Terry & Loree / Lacombe / (403) 782-2107		F	R	
CDC CLYDE				
BI: CDC, Dist: N/A				
Krywko, Ronald / Sturgeon County / (780) 459-8224		F		
CDC COALITION				
BI: CDC, Dist: Canterra Seeds				
Cameron, Linda, Craig & Ryan / Millet / (780) 387-5313			R	
Cross, Douglas / Westlock / (780) 349-2587			R	C
Cyre, Clifford & Greg / Westlock / (780) 349-4775				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Haney Farms / Picture Butte / (403) 738-4517		F	R	C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Plante, Jacques / St. Paul / (780) 645-4604				C
Wuthrich, David / Cecil Lake / (250) 781-3527				C
CDC COPELAND				
BI: CDC, Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Clark, Todd / Edmonton / (780) 472-6308				C
Dallas, Bradley C. / Bowden / (403) 224-2162				C
Dueck, Ralph E. & Brent / Olds / (403) 556-2602	S	F	R	
Eliason, Bruce W. / Wrentham / (403) 222-2258			R	C
Ellis, Brian / Olds / (403) 556-2890				C
Goldstrom, David / Red Deer County / (403) 227-2133			R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929				C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072				C
Hartzler, Leonard / Carstairs / (403) 337-2416				C
Kemp, Richard L. / Innisfail / (403) 227-4836			R	
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330*				C
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Markert Seeds Ltd. / Vulcan / (403) 485-6708				C
Massey, Derwin / Stettler / (403) 883-2503			R	C
McNelly, Bevin / Clyde / (780) 348-5749				C
Murray, Bruce & Wesley / Lethbridge / (403) 327-9389				C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F	R	
Penwest Seeds / Three Hills / (403) 443-7212				C
Richards, Cliff & Dan / Sexsmith / (780) 766-2266				C
Selte, Donald / Vermilion / (780) 853-2484				C
Sich, Louis John & Ivan & Martin / Trochu / (403) 442-2112				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			R	C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
Weigum, Garry / Three Hills / (403) 443-2476				C
Zwack, Thomas / Daysland / (780) 374-2450			R	C
CDC COWBOY				
BI: CDC, Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900*				C
McNelly, Bevin / Clyde / (780) 348-5749				C
Pare, Raymond A. / Wainwright / (780) 842-2073				C
Selte, Donald / Vermilion / (780) 853-2484		F		C
Webber, Curtis / Stony Plain / (780) 963-6897				C
CDC KINDERSLEY				
BI: CDC, Dist: SeCan Members				
Dueck, Ralph E. & Brent / Olds / (403) 556-2602	S			
Goldstrom, David / Red Deer County / (403) 227-2133			R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	C
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Knight, William, Craig & Brian / Tees / (403) 784-3633				C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240	S			
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Oatway, Grant / Lacombe / (403) 784-3418				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107			R	
Weigum, Garry / Three Hills / (403) 443-2476				C
CDC MAVERICK				
BI: CDC, Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383		F		C
Goldstrom, David / Red Deer County / (403) 227-2133				C
Hadland, Edward / Baldonnel / (250) 789-3646		F		C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072				C
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868				C
Mueller, Darcy / Three Hills / (403) 823-9788				C
St. Paul Municipal Seed Cleaning Assoc. Ltd / St. Paul / (780) 645-3939				C
Selte, Donald / Vermilion / (780) 853-2484			R	
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358		F		C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F	R	
CDC MAYFAIR				
BI: N/A, Dist: Canterra Seeds				
Sendziak, Don P & Stephen / Edmonton / (780) 434-1322*			R	C
CDC MEREDITH				
BI: CDC, Dist: SeCan Members				
Baier, Bill & Dean / Clyde / (780) 348-5791		F	R	
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900*				C
Cornish, Bob / Airdrie / (403) 948-3070				C
Davidson, E.Daryl & Dean / Kitscoty / (780) 846-2456			R	
Eliason, Bruce W. / Wrentham / (403) 222-2258				C
Foster, Norman R. / Beaverlodge / (780) 354-2107			R	C
Gibson, Donald / Sangudo / (780) 785-2214				C
Goldstrom, David / Red Deer County / (403) 227-2133				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929		F		
Harris, William & Peter & Linda & Thomas & A. / Beaverlodge / (780) 354-2823	S	F		C
Hartzler, Leonard / Carstairs / (403) 337-2416				C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330*				C
Kopjar, Gerald M. / Rowley / (403) 368-2409				C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240*				C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696				C
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868				C
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297*	S			C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F		
Penwest Seeds / Three Hills / (403) 443-7212			R	
Selte, Donald / Vermilion / (780) 853-2484			R	
Svanes, Ronald J. / Picture Butte / (403) 317-0981				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
CDC THOMPSON				
BI: CDC, Dist: FP Genetics				
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F	R	
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535			R	C

SENDZIAK SEED FARMS
Calmar, AB

Pedigreed Varieties:

Wheat: AC Stettler • AC Conquer • AC NRG010 • CDC NRG003 • AAC Redwater • AAC Brandon

Barley: CDC Yorkton • CDC Mayfair • Bentley • Merit-57 • CDC Austenson • Canmore

Oats: Triactor • CDC Seabiscuit

Peas: AC Thunderbird • CDC Raezer • CDC Tetris

Flax: CDC Sorrel | **Soybean:** TH 33003R2Y

1024-112A St. NW
Edmonton, AB T6J 6S1
Phone: 780-434-1322
Cell: 780-940-7566
Fax: 780-432-9363
Email: sendseed@telusplanet.net

Don/Krystyna & Stephen Sendziak

ASGA Alberta Seed Growers' Association | CANTERRA SEEDS | SeCan Canada's Seed Partner

PHOENIX FARMS LTD.
Pedigreed Seed Growers

Box 327 Nobleford, AB
Ph: (403) 824-3585
Fax: (403) 824-3900

Barley: Amisk, Vivar, AC Harper, Chigwell, CDC Austensen
Forage Peas
Triticale: Pronghorn
Flax: CDC Sorrel

Custom Forage Blends
Dual Mix/Triple Mix

Progressive Seeds Ltd. | VITERRA | Canadian Seed Growers' Association | SeCan Canada's Seed Partner

CDC TREY				
BI: CDC, Dist: FP Genetics				
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928	S	F	R	C
CDC YORKTON				
BI: CDC, Dist: Canterra Seeds				
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322*			R	C
CHIGWELL				
BI: FCDC (Lacombe), Dist: SeCan Members				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670			R	
Feenstra, Lloyd / Barons / (403) 757-3737				C
Haney Farms / Picture Butte / (403) 738-4517				C
McDonald, Grant / Didsbury / (403) 335-8188				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617*		F		C
Webber, Curtis / Stony Plain / (780) 963-6897				C
CONLON				
BI: NSDU, Dist: Seed Depot				
Welsh, Donald Alan / Milk River / (403) 647-2228				C
GADSBY				
BI: FCDC (Lacombe), Dist: SeCan Members				
Harris, William & Peter & Linda & Thomas & A. / Beaverlodge / (780) 354-2823			R	
Ohrn, Norman / Thorsby / (780) 985-2263				C
Stewart, E.Wilbur & Eldon / Big Valley / (403) 876-2784				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F	R	
Webber, Curtis / Stony Plain / (780) 963-6897				C
LEGACY				
BI: Busch Ag. Res., Dist: CPS (Canada) Inc./FP Genetics				
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928				C
MERIT 57				
BI: Busch Ag. Res., Dist: Canterra Seeds				
Haney Farms / Picture Butte / (403) 738-4517				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322*		F	R	C
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358	S		C	
MUSKWA				
BI: FCDC (Lacombe), Dist: N/A				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Stamp Seeds / Enchant / (403) 739-2233*				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C

NEWDALE				
BI: AAFC (Brandon), Dist: FP Genetics				
Dalton, Dennis / Wainwright / (780) 842-2361				C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330*				C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928				C
PONOKA				
BI: FCDC (Lacombe), Dist: SeCan Members				
Webber, Curtis / Stony Plain / (780) 963-6897			R	C
SEEBE				
BI: FCDC (Lacombe), Dist: SeCan Members				
Beamish, Dale / Jarvie / (780) 954-2166				C
Webber, Curtis / Stony Plain / (780) 963-6897			R	
SUNDRE				
BI: FCDC (Lacombe), Dist: Mastin Seeds				
Feenstra, Lloyd / Barons / (403) 757-3737				C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072				C
Jones, Danny / Beaverlodge / (780) 354-8089	S	F	R	
Lyster, Norman / Stettler / (403) 742-4456				C
Mastin, Robert B. / Sundre / (403) 556-2609			R	C
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595			R	
Richard, Gerald / Spirit River / (780) 864-3716				C
TROCHU				
BI: FCDC (Lacombe), Dist: SeCan Members				
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Smith, Gary W. / Eckville / (403) 746-5878			R	
Webber, Curtis / Stony Plain / (780) 963-6897				C
VIVAR				
BI: FCDC (Lacombe), Dist: SeCan Members				
Beamish, Dale / Jarvie / (780) 954-2166				C
Mans, John / Nobleford / (403) 824-3585				C
McDonald, Grant / Didsbury / (403) 335-8188	S	F	R	
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C

CMBTC Recommended Malting Barley Varieties 2015-16

CANADIAN MALTING BARLEY TECHNICAL CENTRE

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

TWO ROW VARIETIES	
VARIETY	MARKET COMMENTS
CDC COPELAND$_1$	ESTABLISHED DEMAND
AC METCALFE$_1$	ESTABLISHED DEMAND
CDC MEREDITH$_1$	LIMITED, INCREASING DEMAND
BENTLEY$_2$	LIMITED, STABLE DEMAND
CDC KINDERSLEY$_1$	UNDERGOING COMMERCIAL MARKET DEVELOPMENT
CERVEZA$_6$	UNDERGOING COMMERCIAL MARKET DEVELOPMENT
AAC SYNERGY$_5$	UNDERGOING COMMERCIAL MARKET DEVELOPMENT

Additional Two-Row Varieties:*

VARIETY	MARKET COMMENTS
NEWDALE$_4$	LIMITED, STABLE DEMAND
CDC POLARSTAR$_2$	LIMITED, STABLE DEMAND
MERIT 57$_2$	UNDERGOING COMMERCIAL MARKET DEVELOPMENT

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

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

SIX-ROW VARIETIES**	
VARIETY	MARKET COMMENTS
LEGACY$_{3,4}$	LIMITED DEMAND
TRADITION$_4$	LIMITED DEMAND
CELEBRATION$_2$	LIMITED DEMAND

**Demand for six-row malting barley has been declining. Please talk to your local malting company selector in regard to demand for six-row varieties in your area. Note: CDC Anderson is not yet grown for commercial use. Production is limited to quantities required for pre-market development testing.

The following companies have pedigreed seed distribution rights for those varieties that are footnoted: 1-SeCan; 2 - CANTERRA SEEDS; 3 - Crop Production Services; 4 - FP Genetics; 5 - Syngenta; 6 - Mastin Seeds. CMBTC and its' members strongly recommend use of certified seed to ensure varietal purity and increase opportunity for selection.

CMBTC Members: Parrish & Heimbecker, Prairie Malt-Cargill, Public Barley Breeders, Richardson International, Viterra, Canadian Grain Commission, ADM-Benson Quinn, SABMiller, CWB, Manitoba Liquor & Lotteries, Molson Coors, SeCan, Syngenta, Tsingtao Brewery, Alberta Barley Commission, CANTERRA SEEDS, Hailar MDL Beer Material, Alberta Agriculture, Manitoba Agriculture, Saskatchewan Agriculture, New Glarus Brewing. Other organizations providing input to this list: The BMBRI and BARI-Canada.

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

TRUE SEEDS Ltd.

CANTERRA SEEDS

SeCan

FP GENETICS

Performance Pedigreed Seed Farm

Box 1363 Redwater, Alberta T0A 2W0
Chelsea Tomlinson Cell: (780) 777-5885

Wheat
Harvest
CDC Utmost
AC Muchmore

Barley

Oats
AC Morgan

Yellow Peas
CDC Meadow

For your convenience we now have scale on site for quick loading.
We are ready to meet your needs. Give us a call to discuss what we can do to help you this spring.

OATS

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% CDC Dancer) Low < 70 (bu/ac)	Medium 70-100 (bu/ac)	High 100-130 (bu/ac)	V. High > 130 (bu/ac)	Agronomic Characteristics Maturity Rating[3]	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to Lodging[5]	Tolerance to Smuts[6]
MILLING												
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to CDC Dancer)												
CDC Dancer (bu/ac)		**93**	**50**	**84**	**113**	**146**						
CDC Dancer[2]	**126**	**100**	**100**	**100**	**100**	**100**	**E**	**41**	**37**	**94**	**G**	**R**
AAC Justice ▲	18	103	XX	98	110+	XX	M	42	37	97	G	R
CDC Ruffian ▲	28	110+	110	105	116+	XX	M	40	39	94	G	R
Souris	28	110+	120+	103	111	XX	M	41	34	91	VG	R
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)												
AC Juniper	80	104+	102	104	106+	105+	E	41	38	94	VG	I
AC Morgan	95	111+	110+	110+	111+	115+	M	40	40	92	VG	I
Bradley	31	104+	XX	103	108	106	M	39	39	92	VG	R
CDC Boyer	89	102	103	102	100	105	M	39	42	101	G	MS
CDC Minstrel	61	104+	103	103	105	105+	M	39	38	88	VG	R
CDC Orrin	52	109+	113+	107+	107+	XX	M	41	40	84	G	R
CDC Seabiscuit	30	111+	124	106	108	108	M	39	41	101	G	MR
CDC Weaver	44	104	108+	103	100	100	M	40	43	91	F	R
Derby	79	101	103	102	96-	105	L	41	39	103	G	MS
Jordan	36	112+	112+	109+	117+	XX	VL	38	44	87	G	R
Stride	30	104+	101	102	107	106	M	42	35	104	G	R
Triactor	47	110+	109	108+	114+	110+	M	38	38	89	G	R
FEED												
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)												
AC Mustang *	108	114+	118+	112+	110+	116+	L	42	37	103	G	I
CDC Nasser	31	116+	132	107	115+	110	L	38	36	98	G	MR
Lu *	58	100	99	98	99	108	VE	41	39	85	G	R
FORAGE												
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to CDC Dancer)												
CDC Haymaker	18	104	XX	104	105	XX	L	39	41	109	F	MR
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)												
CDC Baler *	42	99	96	106	96	XX	L	40	43	99	XX	S
Murphy *	51	95-	93	96	97	94	M	39	36	108	XX	S

Remarks: Use higher seeding rates for large seeded varieties. New registrations: AAC Justice (OT2084), Bia, CS Camden(OT4001), Nice and CDC Haymaker. Insufficient data to describe: Bia, CS Camden, Nice. - Protected by Plant Breeders' Rights. ▲- Plant Breeder's Rights applied for. * Yield figures based on direct and indirect comparisons with CDC Dancer. [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, 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 from CDC Dancer. [3]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for CDC Dancer is 98 days and rated as Early (E). [4]TSW: Thousand Seed Weight. [5]Rating Categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [6]Disease tolerance ratings: R = Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. It is advisable that varieties with Intermediate (I) to Susceptible (S) ratings for the smuts be treated with a systemic fungicide.

Stamp Seeds

Office: 403-739-2233
9 Centre Street
Box 3030
Enchant, AB, T0K 0V0

Greg: 403-634-1586
greg@stampseeds.com
Rick: 403-634-1588
richard@stampseeds.com

www.stampseeds.com

SeedNet

WARBURG
SEED CLEANING CO-OP LTD.
Box 60, Warburg, Alberta T0C 2T0

"FOR CLEANER SEED"
Seed Grain – Separation – Dockage – Grass Seed
Seed Treating – Grass Seeder Rentals
Tarps – Pony Oats – and much more

MANAGER: **Tom Luethi**
warscp@gmail.com
PHONE: **780-848-2365**
HOME: **780-696-2151**
CELL: **780-945-6424**
FAX: **780-848-2366**

OATS

	S	F	R	C
AC MORGAN				
BI: AAFC (Lacombe), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383				C
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268				C
Hill, Gordon P. & Blair / Taylor / (250) 789-3469				C
Jonk, Nicholas / Westlock / (780) 349-5458				C
Kemp, Richard L. / Innisfail / (403) 227-4836				C
Macyk, Don & Timothy / Waskatenau / (780) 358-2411				C
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868				C
Meinczinger, Matthew Jr. / Busby / (780) 349-2456				C
Miller, Brian / Barrhead / (780) 674-5001				C
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595				C
Ohrn, Norman / Thorsby / (780) 985-2263				C
Richard, Gerald / Spirit River / (780) 864-3716				C
Selte, Donald / Vermilion / (780) 853-2484		F		C
Tomlinson, Chelsea / Redwater / (780) 777-5885				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F	R	C
AC MURPHY				
BI: AAFC (Lacombe), Dist: SeCan Members				
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617*		F	R	C
AC MUSTANG				
BI: AAFC (Lacombe), Dist: Mastin Seeds				
Hadland, Edward / Baldonnel / (250) 789-3646				C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072			R	
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330*				C
Mastin, Robert B. / Sundre / (403) 556-2609				C
CDC BALER				
BI: CDC, Dist: FP Genetics				
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251		F		C
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928	S	F		C
CDC HAYMAKER				
BI: CDC, Dist: SeCan Members				
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383		F		
Hoffmann, Curtis / Oyen / (403) 664-9617			R	
Mueller, Darcy / Three Hills / (403) 823-9788				C
St. Paul Municipal Seed Cleaning Assoc. Ltd / St. Paul / (780) 645-3939				C
Selte, Donald / Vermilion / (780) 853-2484			R	C
Shultz, Shawn / Didsbury / (403) 335-3694				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S	F	R	
CDC NASSER				
BI: CDC, Dist: N/A				
Davidson, E.Daryl & Dean / Kitscoty / (780) 846-2456				C
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268				C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
CDC RUFFIAN				
BI: CDC, Dist: FP Genetics				
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
CDC SEABISCUIT				
BI: CDC, Dist: Canterra Seeds				
Jonk, Nicholas / Westlock / (780) 349-5458			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322			R	
CDC SO-I				
BI: CDC, Dist: N/A				
Gibson, Donald / Sangudo / (780) 785-2214				C
CDC WEAVER				
BI: CDC, Dist: N/A				
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358			R	
STRIDE				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Jones, Greg Thomas / Ponoka / (403) 783-6495	S			
TRIACTOR				
BI: SW Seed Ltd., Dist: Canterra Seeds				
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322*		F	R	C

ANY WAY YOU CALCULATE IT

A POST-HARVEST CASH ADVANCE WORKS FOR YOU

25 eligible crops

$400,000 maximum

$100,000 interest-free

UP TO **18-MONTH** repayment period

Whether you're just getting started or have been farming for years, the flexibility of a cash advance can benefit your farm's financial plans.

Apply for a cash advance today. More than 25 eligible crops including cereals, oilseeds, pulses and speciality crops.

LEARN MORE AT **WWW.CCGA.CA** OR CALL **1-866-745-2256**

CANADIAN CANOLA GROWERS ASSOCIATION

CCGA CASH ADVANCE APP NOW AVAILABLE!

Download on the App Store | ANDROID APP ON Google play

The cash advance program administered by CCGA is made available to Canadian farmers through Agriculture and Agri-Food Canada's Advance Payments Program.

Apple, the Apple logo and iPhone are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc.

SPRING TRITICALE

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% AC Ultima) Low < 60 (bu/ac)	Medium 60-80 (bu/ac)	High 80-110 (bu/ac)	V. High > 110 (bu/ac)	Agronomic Characteristics: Maturity Rating[3]	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to:[5] Ldg.	Shat.	Sprt.	Disease Tolerance:[6] Ergot	Stripe Rust	Bunt	FHB[7]
Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Ultima)																	
AC Ultima (bu/ac)		**86**	**47**	**73**	**99**	**143**											
AC Ultima[2]	**188**	**100**	**100**	**100**	**100**	**100**	**E**	**56**	**45**	**97**	**G**	**G**	**F**	**MS**	**MR**	**R**	**I**
Brevis	35	109+	103	107+	112+	110+	M	60	45	91	G	G	F	MR	MR	R	I
Sunray	48	98-	100	98	97	95	E	56	45	92	VG	G	F	MR	MR	R	MS
Taza ▲	48	98	101	97	100	95-	M	57	47	99	G	G	F	I	MR	R	S
Previously tested varieties (Yield and agronomic data only directly comparable to AC Ultima)																	
Bumper ▲	41	104	117+	99	101	96	E	45	45	89	VG	G	F	XX	MR	R	MS
Bunker ▲	49	91-	87-	93-	89-	93	VL	48	48	107	F	G	F	XX	MR	R	I
Pronghorn	179	101	99	100	101	100	M	43	43	99	G	G	F	I	MR	R	MR
Tyndal ▲	55	101	106	101	97	96	L	44	44	97	G	G	P	XX	MR	R	MS

REMARKS: Triticale is late maturing compared to CWRS wheat (approximately five days later). AC Ultima yields about 30% more than AC Barrie (CWRS wheat) in areas of adaptation. Bunker, Taza, and Tyndal have heads with reduced-awns which may be beneficial when harvested as forage or silage. - Protected by Plant Breeders' Rights. [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 Ultima are reported in the Overall, Low, Medium, High, and Very High Yield Test Categories. [2]Yields are reported relative to AC Ultima. Varieties that are statistically higher (+) or lower (-) yielding than AC Ultima are indicated. No symbol after the yield figure indicates that there is no statistical difference from AC Ultima. [3]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Ultima is 112 days and rated as Early (E). [4]TSW: Thousand Seed Weight. [5]Rating categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [6]Disease tolerance ratings: R = Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [7]Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage.

TRITICALE - SPRING

	S	F	R	C
AC ULTIMA				
BI: N/A, Dist: FP Genetics				
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358	S	F		
BREVIS				
BI: AAFC, Dist: N/A				
Sim, Darwin & Derek / Ponoka / (780) 372-2111	S			
BUNKER				
BI: FCDC (Lacombe), Dist: FP Genetics				
Airth, Jock & Linda / Brooks / (403) 362-4372				C
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358		F	R	C
PRONGHORN				
BI: FCDC (Lacombe), Dist: No Rep				
Mans, John / Nobleford / (403) 824-3585			R	C
SUNRAY				
BI: AAFC, Dist: N/A				
Fabian, Patrick V. / Tilley / (403) 377-2000				C
Jonk, Nicholas / Westlock / (780) 349-5458			R	
Markert Seeds Ltd. / Vulcan / (403) 485-6708	S	F	R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
TAZA				
BI: FCDC (Lacombe), Dist: Solick Seeds				
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				C
TYNDAL				
BI: FCDC (Lacombe), Dist: SeCan Members				
Card, Gordon B. / Magrath / (403) 758-3444				C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464			R	C
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321	S			
Feenstra, Lloyd / Barons / (403) 757-3737				C
Lyons, Keith / Fairview / (780) 835-5435				C

RADKE PEDIGREED Seed Farms

RADKE PEDIGREED SEED LTD.

QUALITY PEDIGREED SEED AVAILABLE FOR 2014

AC FOREMOST CPS WHEAT
Certified, Registered, Foundation

AAC PENHOLD CPS WHEAT
Registered, Foundation

CDC MEADOW YELLOW PEAS
Certified, Registered, Foundation

BRYAN RADKE
R.R. 1, SITE 1, BOX 2
BARRHEAD, ALBERTA
T7N 1N2
PHONE (780) 674-5715
CELL (780) 674-0866
EMAIL moosecreek@xplornet.com

SeCan
Canada's Seed Partner

Knight's Seed

Bill & Gloria Knight & Family

R.R. #1 Tees, AB
T0C 2N0
(403) 784-3633

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

CANADA WESTERN AMBER DURUM

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% Strongfield) Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Agronomic Characteristics: Maturity Rating[3]	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to:[5] Ldg.	Sprt.	Disease Tolerance:[6] Loose Smut[7]	Bunt[7]	Stripe Rust	Leaf Spot	FHB[8]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to Strongfield)																
Strongfield (bu/ac)		**64**	**35**	**61**	**96**											
Strongfield[2]	**128**	**100**	**100**	**100**	**100**	**M**	**63**	**45**	**85**	**F**	**F**	**S**	**I**	**MR**	**MS**	**S**
AAC Current	21	98	107	95	XX	M	62	44	88	F	F	MS	MR	MR	I	MS
AAC Marchwell VB ▲	23	101	XX	97	99	M	63	46	83	F	F	MR	R	R	MS	MS
AAC Raymore	34	97	99	98	94	M	62	47	82	F	F	MS	MR	MR	I	S
CDC Desire ▲	34	102	106	101	101	E	62	44	83	F	G	MS	R	MR	I	S
CDC Fortitude ▲	23	103	XX	101	103	M	63	45	83	G	F	MS	R	R	MS	MS
CDC Vivid ▲	34	100	104	99	98	M	62	45	83	G	F	I	R	MR	I	S
Previously tested varieties (Yield and agronomic data only directly comparable to Strongfield)																
AC Avonlea †	60	94-	100	89-	95-	M	63	44	90	F	F	S	R	I	MS	MS
AC Navigator	65	95-	102	93-	93-	M	63	45	77	G	G	S	R	R	S	S
Brigade	69	103	105	103	102	L	63	48	88	G	F	MS	R	MR	I	MS
CDC Verona	46	102	103	103	99	M	62	46	82	G	F	MS	R	R	MS	MS
Enterprise	48	101	104	100	102	M	63	44	83	G	F	MS	MR	R	I	MS
Eurostar	47	102	100	105+	99	L	64	47	88	G	F	MS	R	R	I	MS
Transcend	35	102	103	101	100	M	62	47	89	F	F	S	R	R	I	MS

REMARKS: Generally, durum wheat is best adapted to southern Alberta. Outside of this area, durum is late maturing and often subject to quality loss. Strongfield yields about 10% higher than AC Barrie in areas of best adaptation. VB - designates a varietal blend to preserve the Sm1 midge tolerance gene. AAC Raymore and CDC Fortitude have a solid stem that confers resistance to the wheat stem sawfly. AAC Marchwell VB has tolerance to the orange wheat blossom midge. All durum varieties are susceptible to two new races of loose smut and are generally more susceptible to Fusarium Head Blight than CWRS wheat varieties. New registrations: AAC Current (DT813), AAC Durafield (DT832), AAC Cabri (DT840), AAC Marchwell VB (DT833), AAC Spitfire (DT844), CDC Carbide (DT574) and CDC Fortitude (DT570). Insufficient data to describe: AAC Cabri, AAC Durafield, AAC Spitfire, CDC Carbide VB. - Protected by Plant Breeders' Rights. ▲- Plant Breeders' Rights applied for. 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 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 no statistical difference. [3]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for Strongfield is 105 days and is rated as Medium (M). [4]Thousand Seed Weight. [5]Rating Categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [6]Disease tolerance ratings: R= Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [7]Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. [8]Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage.

WHEAT - DURUM

	S	F	R	C
AAC CURRENT				
BI: AAFC (Swift Current), Dist: N/A				
Stamp Seeds / Enchant / (403) 739-2233		F		
AAC RAYMORE				
BI: AAFC (Swift Current), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347	S	F		C
Huvenaars, Carl / Hays / (403) 725-2213				C
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338	S	F		C
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297		F		C
Stamp Seeds / Enchant / (403) 739-2233		F	R	C
Welsh, Donald Alan / Milk River / (403) 647-2228		F		
Welsh, Stuart Jason / Milk River / (403) 647-2228				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
Willms, Kevin J. / Grassy Lake / (403) 655-2450	S	F		C
AC NAVIGATOR				
BI: AAFC (Swift Current), Dist: CPS (Canada) Inc.				
Crop Production Services Canada / Didsbury / (403) 335-3055	S			
CDC Brigade, CDC Fortitude & CDC VIVID				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc. / High River / (403) 336-4826				C
ENTERPRISE				
BI: AAFC (Swift Current), Dist: Canterra Seeds				
Haney Farms / Picture Butte / (403) 738-4517			R	
Mercer, L. A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297				C
Welsh, Donald Alan / Milk River / (403) 647-2228				C
STRONGFIELD				
BI: AAFC (Swift Current), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900*				C
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333				C
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347	S		R	C
Willms, Kevin J. / Grassy Lake / (403) 655-2450			R	
TRANSCEND				
BI: AAFC, Dist: FP Genetics				
Benci, Dennis / Carmangay / (403) 643-2294			R	
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696				C
Welsh, Donald Alan / Milk River / (403) 647-2228				C

All In FARM SERVICES

Financing Available
Scale, Seed Treating,
and Ag Chemicals on Site

Brent Andersen
Box 222 Kitscoty, AB T0B 2P0
Phone: 780-847-2022
Fax: 780-847-2011

For all your seed needs
•Pulses
•Canola
•Cereals
•Forages
•Corn

PIONEER. A DUPONT COMPANY
SeCan Canada's Seed Partner
FP GENETICS

CANADA WESTERN RED SPRING

Variety	Overall Station Years of Testing	Yield Category[1] (% AC Barrie) Overall Yield	Low < 45 (bu/ac)	Medium 45-70 (bu/ac)	High > 70 (bu/ac)	Agronomic Characteristics: Mat. Rating[3]	Protein %	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to:[5] Ldg.	Sprt.	Disease Tolerance:[6] Loose Smut[7]	Bunt[7]	Stripe Rust	Leaf Spot	FHB[8]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Barrie)																	
AC Barrie (bu/ac)		**59**	**35**	**55**	**79**												
AC Barrie[2]	**426**	**100**	**100**	**100**	**100**	**M**	**14.1**	**63**	**37**	**89**	**G**	**G**	**MR**	**I**	**S**	**MS**	**I**
5605HR CL ▲	29	110+	XX	116+	107+	M	-0.1	65	39	95	G	XX	R	MR	I	MS	MR
AAC Bailey ▲	58	103	102	104	103	M	-0.6	63	37	92	G	G	MS	I	I	I	I
AAC Brandon ▲ ▲	41	114+	106	117+	113+	M	-0.2	65	38	81	G	P	MR	S	MR	I	MR
AAC Elie ▲ ▲	41	115+	107	120+	112+	M	-0.1	64	38	81	G	F	I	I	MR	I	I
AAC Redwater ▲	41	103	96	106	104	E	0.0	64	35	87	G	VG	MS	I	MR	MS	I
Cardale ▲	41	105+	100	106+	105	M	-0.3	63	37	84	G	G	I	S	MR	MS	MR
Coleman	29	102	XX	108	98	M	0.0	65	38	97	F	P	S	S	MR	I	MR
CDC VR Morris ▲	27	107+	XX	111+	106	M	0.0	65	37	88	G	P	I	I	XX	I	MR
CDC Plentiful ▲	41	106+	100	108+	106+	M	-0.2	64	35	87	VG	P	R	I	MR	I	MR
CDC Titanium VB ▲ ▲	29	108+	XX	115	103	E	0.5	65	41	91	G	P	MS	I	R	MS	MR
Katepwa	342	98-	97-	98-	98-	E	-0.2	62	35	93	F	F	MR	MR	MS	MS	I
Thorsby ▲ ▲	29	106	XX	113	103	E	-0.4	64	39	93	G	F	I	S	R	MS	I
Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)																	
5602HR	80	105+	101	104	109+	M	0.7	63	37	91	G	F	R	MR	I	MS	MR
5603HR ▲	63	105+	104	107+	104+	L	-0.5	63	33	87	G	VG	MS	I	MS	MR	I
5604HR CL ▲	76	99	102	98	99	E	-0.7	63	33	87	G	G	MS	I	XX	MS	I
AC Eatonia ▲	78	94-	87-	97	92-	M	0.4	62	35	92	P	G	I	MR	I	MS	XX
AC Elsa ▲	110	103+	99	105	104	M	0.2	62	35	89	G	F	MR	I	I	I	MS
AC Intrepid ▲	107	102	98	103	105+	E	0.0	62	39	90	G	P	I	MR	MR	MS	MS
AC Splendor	153	95-	93-	96-	98	VE	0.9	61	37	89	F	F	I	I	I	I	MS
Alvena ▲	68	101	100	101	103	E	0.1	63	37	90	G	P	MR	MR	I	XX	MS
Carberry ▲	51	108+	117+	104	105	L	-0.6	64	38	79	VG	F	MR	R	MR	MS	MR
CDC Abound ▲	88	110+	108+	110+	112+	M	-0.1	63	40	82	G	F	I	I	MS	MS	S
CDC Go	92	110+	103	111+	116+	M	-0.1	61	42	83	G	VP	MS	I	MR	S	MS
CDC Imagine ▲	76	104+	102	104	109+	M	0.1	61	37	83	G	F	MR	MR	I	MS	S
CDC Kernen ▲	61	107+	110	102	110+	M	-0.3	63	37	92	G	F	R	I	I	MS	I
CDC Osler	74	106+	103	106+	108+	E	0.0	61	35	85	G	F	MR	MR	I	I	S
CDC Stanley ▲	76	113+	114+	114+	113+	M	-0.8	63	34	87	G	G	MR	S	I	I	MS
CDC Thrive ▲	66	108+	107	107+	110+	M	-0.4	63	36	88	G	P	MR	I	I	I	MS
CDC Utmost VB ▲	53	112+	115+	112+	111+	M	-0.2	64	36	85	G	G	MS	S	I	I	MS
Fieldstar VB	50	102	102	102	102	M	-0.4	63	33	88	F	VG	I	I	MS	I	I
Glenn ▲	61	104	110+	100	104	L	-0.2	65	36	85	VG	F	I	I	MR	I	I
Goodeve VB	96	105+	107+	103	104	M	-0.1	62	36	88	VG	G	MR	MS	I	MS	S
Harvest ▲	118	102	98	103	104	M	-0.1	62	36	84	VG	VG	MR	S	MR	MS	S
Infinity ▲	74	104+	104	104+	106+	M	-0.4	62	33	89	G	G	MR	MR	MS	MS	S
Kane ▲	51	99	95-	98	102	M	0.4	64	36	85	G	VG	MS	I	I	I	I
Lillian ▲	87	104+	111+	100	104	M	0.2	61	37	86	F	G	I	MR	R	MR	S
McKenzie †	104	103+	101	104	105+	M	-0.4	62	34	90	F	VG	MS	R	MS	I	I
Muchmore ▲	53	111+	119+	107	110	L	-0.9	63	37	75	VG	G	MR	R	MR	MS	MS
Park	45	97	91-	98	102	VE	-0.2	62	35	92	F	G	MR	XX	MS	MS	S
Peace	53	100	100	97	103	M	0.1	63	37	92	G	P	R	R	MR	XX	S
Shaw VB	53	112+	116+	109+	113+	M	-0.9	63	37	92	G	G	S	MR	I	MS	MS
Stettler ▲	69	112+	119+	109+	111+	M	-0.3	63	37	84	G	G	R	I	I	S	MS
Superb ▲	184	112+	110+	112+	115+	L	-0.4	62	42	85	G	F	I	MR	S	S	MS
SY433 ▲	44	104	101	104	104	M	-1.0	64	39	95	G	G	I	S	XX	I	MR
Unity VB	71	110+	111+	110+	111+	M	-0.7	64	36	89	G	G	MS	R	MS	MS	MS
Vesper VB ▲	45	106+	106	108+	104	M	-1.5	63	37	90	F	F	I	S	S	I	I
WR859 CL ▲	79	106+	110+	103	107+	M	-0.4	64	34	81	G	G	R	R	I	MS	MR
Waskada ▲	67	100	101	98	102	M	0.1	64	37	92	G	VG	MR	R	MS	MS	MR

REMARKS: CWRS wheat grown under irrigation tends to have lower grades than when grown under rainfed conditions. AC Eatonia and Lillian have a solid stem that confers resistance to the wheat stem sawfly. 5604HR CL, 5605HR CL, CDC Abound, CDC Imagine, CDC Thrive and WR589 CL are tolerant to the CLEARFIELD® herbicides Adrenalin SC and Altitude FX. VB - designates a varietal blend to preserve the Sm1midge tolerance gene. New CWRS registrations: 5605HR CL (BW918), AAC Prevail VB (BW462), AAC W1876 (BW957), Coleman (PT765), CDC Titanium VB (PT584) and Thorsby (BW947). ▲ - Protected by Plant Breeders' Rights. ▲- Plant Breeders' Rights applied for. 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 AC Barrie are reported in the Overall, 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 no statistical difference from AC Barrie. [3]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Barrie is 106 days and rated as Medium (M). [4]Thousand Seed Weight. [5]Rating Categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [6]Disease tolerance ratings: R= Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [7]Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. [8]Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity.

CANADA WESTERN HARD WHITE SPRING

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% AC Barrie) Low < 45 (bu/ac)	Medium 45-70 (bu/ac)	High > 70 (bu/ac)	Agronomic Characteristics: Mat. Rating[3]	Protein %	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to:[5] Ldg.	Sprt.	Disease Tolerance:[6] Loose Smut[7]	Bunt[7]	Stripe Rust	Leaf Spot	FHB[8]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Barrie)																	
AAC Iceberg ▲	39	104	96	106	107	M	-0.7	64	39	86	G	P	MS	I	MR	MS	I
CDC Whitewood ▲	29	106	XX	113	103	M	-0.9	64	39	87	G	G	S	S	I	MS	I
Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)																	
Snowbird	94	101	99	101	101	M	-0.2	62	36	89	G	G	MR	MS	MS	S	I
Snowstar	58	102	99	103	102	M	-0.8	64	30	82	G	G	MS	S	MS	I	MS
Whitehawk	42	107	112+	108+	106	E	-0.9	63	33	90	G	G	I	MS	MS	MS	I

REMARKS: New CWHWS registrations: AAC Whitefox (HW027) and CDC Whitewood (HW612). Insufficient data to describe: AAC Prevail VB, AAC W1876, AAC Whitefox, CDC Whitewood. - Protected by Plant Breeders' Rights. ▲- Plant Breeders' Rights applied for. XX - Insufficient data to describe. † - Flagged for removal.

CANADA PRAIRIE SPRING RED

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% AC Barrie) Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Agronomic Characteristics: Maturity Rating[3]	Protein %	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to:[5] Ldg.	Sprt.	Disease Tolerance:[6] Loose Smut[7]	Bunt[7]	Stripe Rust	Leaf Spot	FHB[8]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Barrie)																	
AC Barrie (bu/ac)		**59**	**35**	**55**	**79**												
AAC Ryley	37	118+	XX	120+	114+	M	-0.6	60	48	82	G	G	I	R	S	MS	MS
Enchant VB *	37	115+	XX	119+	112	M	-0.7	62	48	85	F	G	MS	R	XX	MS	S
AAC Penhold ▲	28	115+	XX	121+	111+	M	-0.4	62	46	73	VG	G	I	R	MR	I	MR
AAC Foray VB ▲	28	127+	XX	131+	118+	M	-0.7	62	52	88	G	G	MS	I	MR	MS	I
SY985 *	51	112+	XX	115+	109+	M	0.1	61	44	78	G	P	R	MR	XX	I	I
SY995 ▲	28	117+	XX	119+	111+	M	-1.3	61	45	82	G	P	S	MR	MR	MS	MS
Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)																	
5700PR *	117	117+	XX	121+	113+	L	-1.9	62	42	75	VG	F	MS	R	MS	MS	MS
5701PR †*	113	115+	XX	119+	112+	M	-1.6	61	42	78	G	P	I	I	MR	MS	S
5702PR *	52	117+	XX	119+	114+	M	-1.8	61	40	79	G	P	MS	I	MS	I	MS
AC Crystal *	278	115+	XX	119+	113+	L	XX	62	42	79	G	P	I	R	S	I	S
AC Foremost *	124	116+	XX	119+	112+	M	XX	62	43	73	VG	F	I	R	S	MS	S
Conquer VB *	51	121+	XX	123+	120+	M	-0.8	62	45	84	G	P	MS	R	MR	I	MS

CANADA WESTERN GENERAL PURPOSE

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% AC Barrie) Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Agronomic Characteristics: Maturity Rating[3]	Protein %	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to:[5] Ldg.	Sprt.	Disease Tolerance:[6] Loose Smut[7]	Bunt[7]	Stripe Rust	Leaf Spot	FHB[8]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Barrie)																	
AAC NRG097 ▲	28	123+	XX	123+	119+	L	-2.4	61	47	83	G	F	I	R	S	I	I
AAC Proclaim ▲	28	115+	XX	118+	115+	M	-2.2	62	40	92	F	G	MR	S	MS	I	MR
Pasteur *	37	137+	XX	142+	132+	VL	-2.3	62	42	82	VG	G	MS	S	MR	I	I
SY087 ▲ ▲	28	122+	XX	124+	111+	M	-0.8	62	41	85	G	F	MS	MR	MR	I	MR
Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)																	
CDC NRG003 *	51	121+	XX	125+	118+	M	-1.9	61	43	80	G	F	MS	R	XX	MS	S
NRG010 *	51	126+	XX	130+	122+	L	-2.6	62	41	83	G	P	MS	R	R	I	MS
Minnedosa *	44	120+	XX	124+	117+	M	-1.9	62	43	82	G	G	I	MR	MR	MS	MS

REMARKS: Recent CPSR varieties have improved quality compared to AC Foremost. VB - designates a varietal blend to preserve the Sm1 midge tolerance gene. CPS varieties are more susceptible to take-all root rot than other wheat classes. Varieties in the General Purpose market class are intended for ethanol and livestock feed purposes. New CPSR registrations: AAC Crusader (HY1603), AAC Foray VB (HY1610), AAC Penhold (HY1319), AAC Tenacious VB (HY1615) and SY995 (HY995). New CWGP registrations: AAC Innova (GP47), AAC NRG097 (GP097), AAC Proclaim (GP80), SY087 (GP087). Insufficient data to describe: AAC Crusader, AAC Tenacious VB, AAC Innova. ▲Protected by Plant Breeders' Rights. ▲- Plant Breeders' Rights applied for. XX - Insufficient data to describe. † - Flagged for removal. * Yield figures based on direct and indirect comparisons with AC Barrie. [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, 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 no statistical difference from AC Barrie. [3]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Barrie is 106 days and rated as Medium (M). [4]Thousand Seed Weight. [5]Rating Categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [6]Disease tolerance ratings: R= Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [7]Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. [8]Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity.

CANADA WESTERN SOFT WHITE SPRING

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% AC Andrew) Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Agronomic Characteristics: Mat. Rating[3]	Protein %	Test Weight (lb/bu)	TSW[4] (g)	Height (cm)	Resistance to:[5] Ldg.	Shat.	Sprt.	Disease Tolerance:[6] Loose Smut[7]	Bunt[7]	Stripe Rust	Leaf Spot	FHB[8]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to AC Andrew)																		
AC Andrew (bu/ac)		**82**	**43**	**77**	**115**													
AC Andrew[2]	**154**	**100**	**100**	**100**	**100**	**L**	**10.9**	**62**	**39**	**79**	**VG**	**VG**	**P**	**S**	**S**	**I**	**MS**	**I**
AAC Chiffon ▲	26	105+	XX	105+	102	L	-0.5	62	46	92	G	VG	P	S	S	MR	I	S
Previously tested varieties (Yield and agronomic data only directly comparable to AC Andrew)																		
AC Meena	51	97-	101	97-	95	L	0.0	61	37	80	G	G	F	MS	S	MR	I	S
Sadash ♻	51	110+	113+	109+	109+	L	0.2	63	39	82	VG	VG	P	I	S	R	I	S

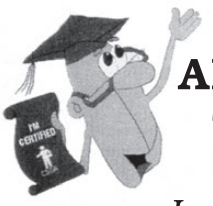
REMARKS: AC Andrew yields about 35% more than AC Barrie. SWS wheat varieties may have demand as a feedstock for ethanol production. New registrations: AAC Chiffon (SWS408). ♻ ▲Protected by Plant Breeders' Rights. ▲- Plant Breeders' Rights applied for. XX - Insufficient data to describe. [1]Yield Test 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 are reported in the Overall, 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 no statistical difference from AC Andrew. [3]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Andrew is 110 days and rated as Late (L). [4]Thousand Seed Weight. [5]Rating Categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [6]Disease tolerance ratings: R= Resistant; MR = Moderately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [7]Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. [8]Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage.

WHEAT - MIDGE TOLERANT

	S	F	R	C
AAC TENACIOUS - HY1603				
BI: N/A, Dist: N/A				
Stamp Seeds / Enchant / (403) 739-2233		F		
CDC UTMOST - HARVEST				
BI: N/A, Dist: FP Genetics				
Dalton, Dennis / Wainwright / (780) 842-2361			R	C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F	R	C
Hoff, Peter Edward / Gleichen / (403) 734-2140			R	
Laliberté, Adam & Vos, Henry / Fairview / (780) 835-5286				C
Markert Seeds Ltd. / Vulcan / (403) 485-6708				C
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				C
CONQUER - 5701PR				
BI: AAFC (Winnipeg), Dist: Canterra Seeds				
Berge, James Garnet / Dawson Creek / (250) 759-4773				C
Haney Farms / Picture Butte / (403) 738-4517			R	C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500	S	F		C
Markert Seeds Ltd. / Vulcan / (403) 485-6708		F		C
Parkland Fertilizers / Wetaskiwin / (780) 352-3359				C
Rasmussen, Brian Dale & Joel Trevor / Standard / (403) 644-3800		F		C
Richards, Cliff & Dan / Sexsmith / (780) 766-2266				C
Sendziak, Don P & Stephen / Edmonton / (780) 434-1322		F		C
Unrau, George / La Crete / (780) 928-0096				C
ENCHANT - AC CRYSTAL				
BI: N/A, Dist: FP Genetics				
Dalton, Dennis / Wainwright / (780) 842-2361			R	
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251		F	R	C
GOODEVE - AC INTREPID				
BI: AAFC (Winnipeg), Dist: Alliance Seed				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500				C
HY1610 - AAC PENHOLD				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321	S			
Hoff, Peter Edward / Gleichen / (403) 734-2140	S			
Klassen, Ken / Rosemary / (403) 378-4408			R	
SHAW - AC DOMAIN				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F	R	

WHEAT - SPRING

	S	F	R	C
5604HR, 5605HR, 5700PR & 5702PR				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc. / High River / (403) 336-4826				C
AAC BRANDON				
BI: AAFC (Swift Current), Dist: SeCan Members				
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333			R	
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321	S			C
Huvenaars, John & Lisa / Hays / (403) 725-2126		F	R	C
Kittle, James William & Andrew / Viking / (780) 336-2583	S			
Mueller, Darcy / Three Hills / (403) 823-9788	S			
Pare, Raymond A. / Wainwright / (780) 842-2073	S			
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322		F		



AIRTH FARMS LTD.
PEDIGREED SEED · SINCE 1971

Jock & Linda Airth

Phone (403) 362-4372
Fax (403) 362-8110
Box 807 • Brooks, Alberta • T1R 1B7

WETASKIWIN SEED & GRAIN CO-OP LTD.

Seed cleaning – Colour sorting – Treating
Seed Sales – Certified & common varieties available
Distributor of seed for Crop Production Services and Parkland Fertilizers.

4710-40 Avenue, Wetaskiwin, AB T9A 0A2
Phone: (780) 352-6212 Fax: (780) 352-6219
E-mail: seedclean@incentre.net Toll free: 1-877-352-6212

AgCelence®
Expect more

Creating a more advanced fungicide with more advanced results was no accident.

Priaxor®
Fungicide

After years of extensive research in the lab and—more importantly—in the field, we've developed our most advanced fungicide ever: new Priaxor® fungicide. It helps canola and pulse growers maximize their crops' yield potential thanks to the combination of the new active ingredient Xemium® and the proven benefits of **AgCelence®**.* The result is more consistent and continuous disease control. And greater returns for you. Visit **agsolutions.ca/priaxor** or contact **AgSolutions®** Customer Care at 1-877-371-BASF (2273) for more information.

BASF
We create chemistry

*__AgCelence__ benefits refer to products that contain the active ingredient pyraclostrobin.

Always read and follow label directions.

AgSolutions is a registered trade-mark of BASF Corporation; **AgCelence**, PRIAXOR, and XEMIUM are registered trade-marks of BASF SE; all used with permission of BASF Canada Inc. PRIAXOR should be used in a preventative disease control program. © 2015 BASF Canada Inc.

Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358	S	F		
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	
AAC CHIFFON				
BI: AAFC, Dist: N/A				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900		F		
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338	S	F		
Markert Seeds Ltd. / Vulcan / (403) 485-6708		F		
Stamp Seeds / Enchant / (403) 739-2233	S	F		
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			
AAC ELIE				
BI: AAFC, Dist: Alliance Seed				
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696			R	
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297		F	R	
Sich, Louis John & Ivan & Martin / Trochu / (403) 442-2112			R	
Stamp Seeds / Enchant / (403) 739-2233	S	F	R	C
Van Roessel, William & Jean / Bow Island / (403) 545-6018			R	
AAC ICEBERG				
BI: AAFC, Dist: Alliance Seed				
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696			R	
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297*	S	F		C
AAC PENHOLD				
BI: AAFC (Swift Current), Dist: SeCan Members				
Baier, Bill & Dean / Clyde / (780) 348-5791	S		R	
Cyre, Clifford & Greg / Westlock / (780) 349-4775			R	
Ellis, Brian / Olds / (403) 556-2890			R	
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036	S			
Goldstrom, David / Red Deer County / (403) 227-2133			R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072			R	
Hoff, Peter Edward / Gleichen / (403) 734-2140			R	
Holmstrom, Darrell & Barbara / Killam / (780) 385-3574	S			
Jackson, Thomas / Killam / (780) 385-2332		F	R	
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240	S	F		
Lopushinsky, Julian / Bruderheim / (780) 796-2048			R	
Macyk, Don & Timothy / Waskatenau / (780) 358-2411			R	
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595	S			
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788	S		R	
Oatway, Ward / Lacombe / (403) 784-3001	S		R	
Radke, Bryan Victor / Barrhead / (780) 674-5715	S		R	
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535			R	
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			R	
AAC REDWATER				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F	R	C
Hadland, Edward / Baldonnel / (250) 789-3646		F		
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929	S	F	R	
Mueller, Darcy / Three Hills / (403) 823-9788	S			
Oatway, Ward / Lacombe / (403) 784-3001			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322		F		
Trueblood, Brian G. / Dapp / (780) 954-3745			R	
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S	F	R	
Weigum, Garry / Three Hills / (403) 443-2476			R	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			R	
AAC RYLEY				
BI: AAFC (Swift Current), Dist: SeCan Members				
Baier, Bill & Dean / Clyde / (780) 348-5791		F		C
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321	S	F		
Foster, Norman R. / Beaverlodge / (780) 354-2107			R	
Gibson, Donald / Sangudo / (780) 785-2214				C
Hadland, Edward / Baldonnel / (250) 789-3646		F		C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	
Harris, William & Peter & Linda & Thomas & A. / Beaverlodge / (780) 354-2823	S	F	R	
Kopjar, Gerald M. / Rowley / (403) 368-2409		F		C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240			R	
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868			R	
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297*		F	R	
Metzger, Don / Three Hills / (403) 572-3284				C
Ohrn, Norman / Thorsby / (780) 985-2263			R	
Penwest Seeds / Three Hills / (403) 443-7212			R	C
Shultz, Shawn / Didsbury / (403) 335-3694		F	R	
Smithers, Graydon / Three Hills / (403) 443-7737				C
Trueblood, Brian G. / Dapp / (780) 954-3745				C
Wuthrich, David / Cecil Lake / (250) 781-3527				C
AC ANDREW				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383		F		C
Kittle, James William & Andrew / Viking / (780) 336-2583			R	C

MOUNTAIN VIEW
SEED CLEANING PLANT

Duane Trottier
Manager

Box 359
Carstairs, AB
T0M 0N0

Email: mvscpl@hotmail.com
Phone: 403-337-3155
Fax: 403-337-3146

COLOUR SORTING NOW AVAILABLE
For all your cleaning and treating needs call us.

Harbin
SEED FARM LTD.
Rivercourse, AB

FP·GENETICS

CANTERRA SEEDS

Clifford & Lynda
Ph: (780) 745-2268
Fax: (780) 745-2218
Cell: (780) 808-3300
E-mail: harbin@telusplanet.net

Bruce & Joni
Ph: (780) 745-2462
Cell: (780) 872-8723

Cereals, Canola, Peas, Forage, Grass

ANDERSON SEED GROWERS

Oats: AC Morgan
Barley: Chigwell, CDC Austenson & Busby
Wheat: AC Foremost

SeCan
Canada's Seed Partner

Ken & Ev Anderson
Phone: (780) 674-5670 Fax: (780) 674-6612
R.R.1 Barrhead AB T7N 1N2
asgseed@xplornet.com

Pedigreed and Commercial
Seed Cleaning and Seed Sales.

Tom Measures **Manager**

Barrhead District Seed Cleaning Co-op Ltd.

Email **barrseed@telus.net**
Phone **(780) 674-2569**
Fax **(780) 674-3701**

Box 4408
Barrhead, Alberta T7N 1A3

Putting nutrients where they count

on the seed

AWAKEN® ST, powered by patented ACA technology, is a nutrition loaded, growth enhancing seed treatment for today's progressive cereal grower.

Benefits of **AWAKEN ST**:

- Promotes quicker seedling emergence
- Provides a larger, more extensive root system
- Improves overall plant health and vigour
- Increases plant population
- Increases potential yields and ROI

AWAKEN ST on HRS wheat*

AWAKEN® ST
powered by ACETATE

Loveland PRODUCTS
Get Growing

For more information, contact us at **(800) 328 4678**.

© 2013 Loveland Products Inc. Always read and follow label directions.
Awaken is a registered trademark of Loveland Products, Inc.
*Dr. Joel Ransom NDSU 2009

AC CRYSTAL				
BI: AAFC (Swift Current), Dist: SeCan Members				
Pare, Raymond A. / Wainwright / (780) 842-2073		F		C
AC FOREMOST				
BI: AAFC (Swift Current), Dist: SeCan Members				
Beamish, Dale / Jarvie / (780) 954-2166				C
Clark, Todd / Edmonton / (780) 472-6308				C
Cyre, Clifford & Greg / Westlock / (780) 349-4775				C
Dallas, Bradley C. / Bowden / (403) 224-2162			R	
Ellis, Brian / Olds / (403) 556-2890			R	C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Gibson, Donald / Sangudo / (780) 785-2214				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929				C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072				C
Jackson, Thomas / Killam / (780) 385-2332				C
Kemp, Richard L. / Innisfail / (403) 227-4836				C
Limoges, Richard / McLennan / (780) 324-2335				C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240*				C
Macyk, Don & Timothy / Waskatenau / (780) 358-2411				C
Meinczinger, Matthew Jr. / Busby / (780) 349-2456			R	
Miller, Brian / Barrhead / (780) 674-5001				C
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595			R	
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F	R	
Radke, Bryan Victor / Barrhead / (780) 674-5715		F	R	
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253	S	F	R	C
Webber, Curtis / Stony Plain / (780) 963-6897			R	
Wierenga, Brad, Bruce & Clayton / Neerlandia / (780) 674-3575				C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928				C
AC NRG 010				
BI: AAFC (Swift Current), Dist: Canterra Seeds				
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297*			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322*		F	R	C
AC WHITEHAWK				
BI: AAFC, Dist: SeCan Members				
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297*		F	R	
ALVENA				
BI: AAFC (Swift Current), Dist: SeCan Members				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500			R	
CARBERRY				
BI: AAFC (Swift Current), Dist: SeCan Members				
Brummelhuis, Tara / Vauxhall / (403) 654-2734				C
Cailliau, John / Enchant / (403) 739-3785				C
Card, Gordon B. / Magrath / (403) 758-3444				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900*				C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333				C
Dovichak, Michael / Brooks / (403) 501-5420*				C
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321				C
Haney Farms / Picture Butte / (403) 738-4517				C
Jonk, Nicholas / Westlock / (780) 349-5458			R	C
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	
Lopushinsky, Julian / Bruderheim / (780) 796-2048				C
Macyk, Don & Timothy / Waskatenau / (780) 358-2411				C
Stamp Seeds / Enchant / (403) 739-2233			R	C
Strain, Arthur George / Foremost / (403) 867-2227				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			R	C
Zwack, Adam / Daysland / (780) 781-6420				C
Zwack, Bryan / Daysland / (780) 374-3577				C

CARDALE				
BI: AAFC (Winnipeg), Dist: Seed Depot				
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333				C
Fabian, Patrick V. / Tilley / (403) 377-2000				C
Huvenaars, John & Lisa / Hays / (403) 725-2126				C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696				C
Mueller, Darcy / Three Hills / (403) 823-9788				C
Stamp Seeds / Enchant / (403) 739-2233			R	C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
CDC ABOUND				
BI: CDC, Dist: CPS (Canada) Inc.				
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027				C
CDC GO				
BI: CDC, Dist: N/A				
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333			R	C
Dovichak, Michael / Brooks / (403) 501-5420*				C
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321		F	R	
Hadway, Walter Thomas / Didsbury / (403) 335-4929				C
Haney Farms / Picture Butte / (403) 738-4517			R	
Huvenaars, Carl / Hays / (403) 725-2213				C
Huvenaars, Richard / Hays / (403) 725-2213				C
Kemp, Richard L. / Innisfail / (403) 227-4836				C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330*			R	C
Limoges, Richard / McLennan / (780) 324-2335			R	C
Lyster, Norman / Stettler / (403) 742-4456			R	C
MacFarquhar, Bill / Cremona / (403) 337-2910				C
Markert Seeds Ltd. / Vulcan / (403) 485-6708			R	
Mastin, Robert B. / Sundre / (403) 556-2609			R	
Metzger, Don / Three Hills / (403) 572-3284			R	
Murray, Bruce & Wesley / Lethbridge / (403) 327-9389			R	C
Penwest Seeds / Three Hills / (403) 443-7212			R	C
Schmermund, Donnie / Sturgeon County / (780) 967-2850	S			
Stamp Seeds / Enchant / (403) 739-2233	S	F	R	C
Templeton, Doran & Brant / Lethbridge / (403) 345-4144			R	C
Weigum, Garry / Three Hills / (403) 443-2476			R	C
CDC NRG 003				
BI: CDC, Dist: Canterra Seeds				
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322*			R	C
CDC OSLER				
BI: CDC, Dist: N/A				
Hill, Gordon P. & Blair / Taylor / (250) 789-3469	S		R	C
CDC PLENTIFUL				
BI: CDC, Dist: FP Genetics				
Andersen, B.W. / Kitscoty / (780) 847-2022			R	
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F	R	
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268			R	
Hoff, Peter Edward / Gleichen / (403) 734-2140	S		R	
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330	S		R	
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240			R	
Massey, Derwin / Stettler / (403) 883-2503			R	
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251		F	R	
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358			R	
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			R	
Welsh, Donald Alan / Milk River / (403) 647-2228	S		R	

Michael & Janet Dovichak
387099 Alberta Ltd.

AC Stettler	AC Carberry	CDC Go	CDC Glas (rec.)
Certified	Certified	Certified	Registered

Box 1828, Brooks, AB T1R 1C6
Phone: 403-501-5420 • Fax: 403-501-5421
jmdovich@eidnet.org

CYRE SEED FARMS LTD.
CSGA CERTIFIED SEED
Westlock, AB.
Wheat • Canola • Faba Beans • Peas • Barley
Cliff Cyre
Bus. (780) 349-4775
Cell (780) 307-4246
Fax (780) 349-4717
Greg Cyre
Cell (780) 307-4332
gcyre@xplornet.com

Selecting the right cereal variety has never been easier

With a broad range of high-performing wheat, durum and feed barley options, Proven® Seed ensures you have the right combination of inputs, technology and expertise best suited for your land. In fact, every Proven Seed cereal variety contains superior genetics and is designed for a unique set of local growing conditions to guarantee grower satisfaction. Talk to your CPS retailer to select the best Proven Seed cereal variety for your farm.

Learn more at provenseed.ca

Proven® SEED

The Power to Grow®

Crop Production Services

Let's talk farming

Proven® Seed is a registered trademark of Crop Production Services (Canada) Inc. Let's Talk Farming™ is a trademark of Crop Production Services (Canada) Inc.
CPS CROP PRODUCTION SERVICES and Design is a registered trademark of Crop Production Services, Inc.

01/15-41182-2 ABSG

COLEMAN				
BI: U of Alberta, Dist: N/A				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500		F		
Lyster, Norman / Stettler / (403) 742-4456	S			
Macyk, Don & Timothy / Waskatenau / (780) 358-2411			R	
GLENN				
BI: NSDU, Dist: Canterra Seeds				
Airth, Jock & Linda / Brooks / (403) 362-4372				C
HARVEST				
BI: AAFC (Winnipeg), Dist: FP Genetics				
Andersen, B.W. / Kitscoty / (780) 847-2022				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036			R	C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			R	C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928			R	
LILLIAN				
BI: AAFC (Swift Current), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333				C
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347			R	C
Welsh, Donald Alan / Milk River / (403) 647-2228				C
Willms, Kevin J. / Grassy Lake / (403) 655-2450				C
MUCHMORE				
BI: AAFC (Swift Current), Dist: FP Genetics				
Andersen, B.W. / Kitscoty / (780) 847-2022				C
Andrukow, Allan / Viking / (780) 385-6402				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036	S	F		C
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268				C
Kapitski, Lawrence / Andrew / (780) 365-2134				C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330				C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696	S			
Markert Seeds Ltd. / Vulcan / (403) 485-6708				C
Massey, Derwin / Stettler / (403) 883-2503				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				C
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535				C
Tomlinson, Chelsea / Redwater / (780) 777-5885				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253	S	F		C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928				C
PARK				
BI: FCDC (Lacombe), Dist: N/A				
Lyster, Norman / Stettler / (403) 742-4456	S			C
PASTEUR				
BI: Wiersum Plant Breeding, Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900*		F		C
Mueller, Darcy / Three Hills / (403) 823-9788		F	R	C
Stamp Seeds / Enchant / (403) 739-2233			R	C
Templeton, Doran & Brant / Lethbridge / (403) 345-4144				C
SADASH				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Andrukow, Allan / Viking / (780) 385-6402				C
Haney Farms / Picture Butte / (403) 738-4517				C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696				C
Pare, Raymond A. / Wainwright / (780) 842-2073				C
Stamp Seeds / Enchant / (403) 739-2233			R	C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928				C
Zwack, Thomas / Daysland / (780) 374-2450				C
SNOWBIRD				
BI: AAFC (Winnipeg), Dist: FP Genetics				
Massey, Derwin / Stettler / (403) 883-2503				C
STETTLER				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Archer, Charles Darrel / Wetaskiwin / (780) 352-3179				C
Baier, Bill & Dean / Clyde / (780) 348-5791			R	
Clark, Todd / Edmonton / (780) 472-6308				C
Cyre, Clifford & Greg / Westlock / (780) 349-4775				C
Davidson, E.Daryl & Dean / Kitscoty / (780) 846-2456				C
Dovichak, Michael / Brooks / (403) 501-5420*				C
Foster, Norman R. / Beaverlodge / (780) 354-2107			R	
Hadway, Walter Thomas / Didsbury / (403) 335-4929			R	
Haney Farms / Picture Butte / (403) 738-4517				C
Harris, William & Peter & Linda & Thomas & A. / Beaverlodge / (780) 354-2823	S	F		C
Hartzler, Leonard / Carstairs / (403) 337-2416				C
Hoff, Peter Edward / Gleichen / (403) 734-2140				C
Kapitski, Lawrence / Andrew / (780) 365-2134				C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330*				C
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Limoges, Richard / McLennan / (780) 324-2335			R	C
Massey, Derwin / Stettler / (403) 883-2503				C
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868				C
Miller, Brian / Barrhead / (780) 674-5001				C
Mracek, Stan John / Dawson Creek / (250) 843-7359				C
Mueller, Darcy / Three Hills / (403) 823-9788				C
Nemetz, Charlie & Jerritt & Lewis & Brandon / Stettler / (403) 742-0436				C
Oatway, Ward / Lacombe / (403) 784-3001				C
Pare, Raymond A. / Wainwright / (780) 842-2073		F	R	
Penwest Seeds / Three Hills / (403) 443-7212			R	C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322*		F	R	C
Trueblood, Brian G. / Dapp / (780) 954-3745				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617*				C
Weigum, Garry / Three Hills / (403) 443-2476				C
Zwack, Bryan / Daysland / (780) 374-3577			R	
SUPERB				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Airth, Jock & Linda / Brooks / (403) 362-4372				C
Jones, Danny / Beaverlodge / (780) 354-8089				C
SY985				
BI: Syngenta Canada Inc., Dist: Cargill Ltd., CPS (Canada) Inc, and Andrukow Seed				
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268				C

Sexsmith Co-operative Seed Cleaning Association Ltd.

Your complete cleaning and treating facility
Agents for pulse crops and producer car loading

Box 263
Sexsmith AB T0H 3C0
Toll Free 1-888-568-4940
Phone: (780) 568-3970
Fax: (780) 568-3964
email: sscp@telus.net
Manager: Sheldon Shura

Licensed with Canadian Seed Institute

CHIN RIDGE SEEDS
TABER, ALBERTA www.chinridge.com
Quality you can seed!

HRS & GP WHEAT: New! Pasteur, AC® Muchmore, AC® Carberry, CDC Go, and AC® Lillian
BARLEY: CDC Meredith, AC Metcalfe, CDC Copeland, New! Muskwa, CDC Austenson, CDC Cowboy, CDC Maverick
DURUM: New! AC® Transcend, AC® Strongfield
TRITICALE, OATS, LENTILS, PEAS available
On site seed treating and scale.
Mastercard, Visa and cheque payment options.

Call us at 1-800-563-7333 or 403-223-3900

WINTER WHEAT

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% Radiant) Low < 45 (bu/ac)	Medium 45-75 (bu/ac)	High 75-105 (bu/ac)	V. High > 105 (bu/ac)	Agronomic Characteristics: Wint. Surv.[3]	Mat. Rating[4]	Prtn. %	Test Weight (lb/bu)	TSW[5] (g)	Height (cm)	Kernel Type[6]	Resistance to:[3] Ldg.	Shat.	Disease Tolerance:[7] Bunt	Stripe Rust	Leaf Rust	Stem Rust	FHB[8]
CANADA WESTERN RED WINTER																				
Yield and agronomic data only directly comparable to Radiant																				
Radiant (bu/ac)		**77**	**37**	**62**	**89**	**114**														
Radiant[2]	**211**	**100**	**100**	**100**	**100**	**100**	**VG**	**L**	**12.0**	**63**	**36**	**89**	**HR**	**VG**	**G**	**S**	**MS**	**S**	**S**	**S**
AAC Gateway ▲	46	101	XX	101	100	XX	F	M	0.9	64	34	77	HR	VG	G	S	MR	I	MR	I
AC Bellatrix †	188	98	105	100	96-	100	F	L	0.3	64	36	91	HR	F	G	I	S	S	S	I
AC Tempest	117	97-	96	97	96-	99	P	VL	1.5	63	37	91	HR	VG	G	MS	MR	S	S	I
CDC Buteo	154	96-	93-	99	94-	102	VG	M	0.3	65	34	91	HR	F	G	S	S	I	I	MR
CDC Chase	14	109	XX	XX	XX	XX	F	M	0.6	65	33	94	HR	F	G	S	MR	R	R	MS
CDC OSPREY †	190	99	98	101	98	102	VG	M	0.1	63	31	93	HR	G	G	S	S	MS	MS	MS
Emerson ▲	59	99	XX	97	100	XX	G	M	0.5	64	30	86	HR	VG	G	S	MR	I	R	R
Flourish ▲	84	99	XX	100	98	104	F	E	0.5	63	35	80	HR	VG	G	MR	I	I	I	S
Moats ▲	55	103	XX	100	105	XX	G	M	0.7	65	33	92	HR	F	G	MS	MR	R	R	S
CANADA WESTERN GENERAL PURPOSE																				
Yield and agronomic data only directly comparable to Radiant																				
Accipiter ▲	61	104+	XX	107+	104	101	G	M	-0.6	64	30	83	HR	VG	G	S	S	R	MR	S
Broadview ▲	87	100	XX	103	99	101	G	E	-0.5	64	32	81	HR	G	G	S	S	R	R	S
CDC Falcon[9]	181	100	89 -	102	99	101	F	E	-0.5	63	31	75	HR	VG	G	S	S	MR	MR	S
CDC Ptarmigan	95	106+	101	108+	105+	104	G	M	-1.7	61	34	93	SW	F	G	S	S	S	S	I
Peregrine ▲	53	108+	XX	107	109+	XX	VG	M	-0.7	64	34	97	HR	F	G	S	MR	MR	I	I
Pintail ▲	59	108+	XX	107+	109+	XX	VG	L	-1.4	61	29	88	HR	G	G	S	MR	MS	MS	S
Sunrise	53	107+	XX	105	107+	XX	G	M	-0.9	61	32	89	SR	G	G	S	MR	MR	MR	XX
Swainson	29	114+	XX	108	115+	XX	F	M	-0.2	64	39	95	HR	F	G	S	MR	R	R	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. Radiant has resistance to the wheat curl mite, the vector for Wheat Streak Mosaic Virus. Varieties rated Moderately Susceptible (MS) or Susceptible (S) to bunt should be treated with a systemic seed treatment to reduce the potential for infection. CDC Ptarmigan and Pintail have an awnless head which may improve palatability when harvested as forage or silage. Fusarium head blight infection may be reduced if varieties with Intermediate (I) or better resistance are used and when seeding occurs 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. AAC Gateway will be available in fall 2015. CDC Chase will not be available in fall 2015. - Protected by Plant Breeders' Rights. ▲▲Plant Breeders' Rights applied for. 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 Radiant are reported in the Overall, 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 Radiant. Varieties that are statistically higher (+) or lower (-) yielding than Radiant are indicated. No symbol after the yield figure indicates no statistical difference from Radiant. [3]Rating Categories: 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. The long term average maturity for Radiant is 222 days after January 1 (August 10) and is rated as Late (L). [5]Thousand Seed Weight. [6]Kernel Type: HR = Hard Red; SW = Soft White; SR = Soft Red. [7]Disease Tolerance Ratings: R = Resistant; MR = Moederately Resistant; I = Intermediate; MS = Moderately Susceptible; S = Susceptible. [8]Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of the FHB, all varieties will sustain damage. A Resistant (R) rating for FHB does not equate to immunity. [9]CDC Falcon was moved to the Canada Western General Purpose class on August 1, 2014. For more information, please refer to the Variety Designation Lists at the CGC website (www.grainscanada.gc.ca).

WHEAT - WINTER

	S	F	R	C
AAC GATEWAY				
BI: AAFC, Dist: Seed Depot				
Stamp Seeds / Enchant / (403) 739-2233	S		R	C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F		
AC TEMPEST				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Murray, Bruce & Wesley / Lethbridge / (403) 327-9389		F		
CDC CHASE				
BI: CDC, Dist: Canterra Seeds				
Benci, Dennis / Carmangay / (403) 643-2294	S			
CDC PTARMIGAN				
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297*		F		C
EMERSON				
BI: AAFC, Dist: Canterra Seeds				
Airth, Jock & Linda / Brooks / (403) 362-4372	S			
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464	S	F		
FLOURISH				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				
Brummelhuis, Tara / Vauxhall / (403) 654-2734			R	
Haney Farms / Picture Butte / (403) 738-4517				C
Stamp Seeds / Enchant / (403) 739-2233			R	C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F	R	C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			R	

	S	F	R	C
MOATS				
BI: CDC, Dist: SeCan Members				
Airth, Jock & Linda / Brooks / (403) 362-4372		F	R	C
Benci, Dennis / Carmangay / (403) 643-2294			R	C
Gibson, Donald / Sangudo / (780) 785-2214			R	
Macyk, Don & Timothy / Waskatenau / (780) 358-2411			R	
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297	S	F	R	C
Metzger, Don / Three Hills / (403) 572-3284				C
Sekulic, John Jr. / Rycroft / (780) 765-2280			R	C
Sekulic, Warren, F / Rycroft / (780) 765-2234				C
Stamp Seeds / Enchant / (403) 739-2233				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F	R	C
PINTAIL				
BI: FCDC (Lacombe), Dist: Mastin Seeds				
Mastin, Robert B. / Sundre / (403) 556-2609			R	C
RADIANT				
BI: AAFC (Lethbridge), Dist: Canterra Seeds				
Airth, Jock & Linda / Brooks / (403) 362-4372				C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333				C
Haney Farms / Picture Butte / (403) 738-4517			R	C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C

FALL RYE

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% Prima) Low < 48 (bu/ac)	Medium 48-80 (bu/ac)	High 80-112 (bu/ac)	V. High > 112 (bu/ac)	Agronomic Characteristics: Winter Survival[3]	Maturity Rating[4]	Test Weight (lb/bu)	TSW[5] (g)	Falling Number (sec)	Height (cm)	Resistance to:[3] Lodging	Sprouting
Yield and agronomic data only directly comparable to Prima														
Prima (bu/ac)		**82**	**36**	**62**	**89**	**125**								
Prima[2]	**98**	**100**	**100**	**100**	**100**	**100**	**EX**	**E**	**58**	**33**	**181**	**121**	**F**	**F**
Brasetto	15	154+	XX	XX	XX	141+	EX	M	59	37	249	105	G	XX
Hazlet	41	123+	XX	125+	134	114	EX	M	59	39	137	108	G	XX
AC Remington †	39	99	120	100	94	87	EX	M	57	32	181	99	G	VG
AC Rifle †	98	100	114	105	100	86	EX	E	57	30	174	88	VG	VG

REMARKS: AC Rifle and AC Remington are semi-dwarf varieties. Brasetto is a hybrid variety. Hazlet has reduced viscosity which improves feed performance in monogastric livestock. Hazlet has lower falling number than other varieties. No fall rye variety performance data were collected in 2010 and 2011. 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 Prima are reported in the Overall, 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 Prima. Varieties that are statistically higher (+) or lower (-) yielding than Prima are indicated. No symbol after the yield figure indicates no statistical difference from Prima. [3] Resistance/Tolerance rating categories: EX = Excellent; VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [4] Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for Prima is 215 days after January 1 (August 3) and is rated as Early (E). [5] Thousand Seed Weight.

TRITICALE - WINTER

	S	F	R	C
BOBCAT				
BI: AAFC (Swift Current), Dist: Corns Brothers Farms				
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464		F	R	C
LUOMA				
BI: FCDC (Lacombe), Dist: Corns Brothers Farms				
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464		F	R	C
METZGER				
BI: FCDC (Lacombe), Dist: Haney Farms Ltd.				
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464		F	R	C
Haney Farms / Picture Butte / (403) 738-4517				C
PIKA				
BI: FCDC (Lacombe), Dist: N/A				
Airth, Jock & Linda / Brooks / (403) 362-4372			R	C
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338			R	C

RYE

	S	F	R	C
AC HAZLET				
BI: AAFC (Swift Current), Dist: SeCan Members				
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383			R	C
BRASETTO				
BI: N/A, Dist: FP Genetics				
McNaughton, Brian / Lethbridge / (403) 308-9914				C
MUSKETEER				
BI: AAFC (Swift Current), Dist: SeCan Members				
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383			R	C
Weigum, Sarah / Three Hills / (403) 443-9599				C
PRIMA				
BI: AAFC (Swift Current), Dist: SeCan Members				
Mueller, Darcy / Three Hills / (403) 823-9788		F	R	C
Stamp Seeds / Enchant / (403) 739-2233				C
Weigum, Sarah / Three Hills / (403) 443-9599			R	C
Willms, Kevin J. / Grassy Lake / (403) 655-2450				C

WINTER TRITICALE

Variety	Overall Station Years of Testing	Overall Yield[1] (% Pika)	Agronomic Characteristics: Winter Survival[3]	Maturity Rating[4]	Test Weight (lb/bu)	TSW[5] (g)	Height (cm)	Lodging Resistance[3]
Yield and agronomic data only directly comparable to Pika								
Pika (bu/ac)		**73**						
Pika[2]	**42**	**100**	**VG**	**L**	**54**	**38**	**119**	**VP**
Bobcat	40	94	F	VL	54	36	99	G
Luoma	14	105	VG	VL	54	39	118	F
Metzger	14	102	VG	L	54	35	107	G
CDC OSPREY (W. Wheat)	28	111 +	VG	M	64	32	88	G

REMARKS: 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 winter triticale variety performance data were collected from 2009-2014.[1]The actual yields for Pika are provided in bu/ac. Note that small plot yields may be 10-15% higher than field scale results. [2]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 no statistical difference from Pika. [3]Rating categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. [4]Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for Pika is 224 days after January 1 (August 12) or about a week later than most winter wheat varieties. [5]Thousand Seed Weight.

Midge Tolerant Wheat Reaches Five-Year Milestone

Stewardship efforts ensure midge tolerance remains strong.

2015 MARKS THE FIFTH ANNIVERSARY of producers in Western Canada growing and protecting midge tolerant wheat.

Since the launch of the first commercial varieties in 2010, the industry has witnessed strong uptake of the technology that helps producers defend against orange blossom wheat midge, which can significantly reduce crop yield and grade. Not surprisingly, popularity of midge tolerant wheat continues to grow.

According to the Canadian Grain Commission, 18 per cent of total western wheat acres in 2014 were midge tolerant — that's up from 16 per cent the previous year. In Alberta, producers in the Peace River area were caught off-guard with a midge infestation in 2013. In 2014, midge tolerant varieties were shipped into the region and producers took advantage of the technology in anticipation of more midge pressure.

"Wheat producers really value this technology and are committed to maintaining its viability," says Mike Espeseth, communications manager for the Western Grains Research Foundation (WGRF) and co-chair of the Midge Tolerant Wheat Stewardship Team.

"The proof is in the numbers. Nearly four million acres of midge tolerant wheat were planted in 2013 and 2014 alone," he says. "The adoption is a testament to the quality of the varieties and the benefit and convenience that they provide producers."

Midge tolerant wheat varieties offer flexibility in crop rotations and seeding dates. Most importantly, they eliminate the need to use insecticide as a control method. Instead, midge damage is dramatically reduced with help of Sm1, a midge tolerant gene that is moved into wheat varieties using traditional plant breeding techniques.

"Growers told us they didn't have to worry about their wheat," says Ed Mazurkewich, business development consultant for AgCall, whose team interviewed producers in 2014. "They didn't have to scout and they didn't have to spray. Not spraying an insecticide was pretty critical to them," he says.

Midge tolerant wheat is sold as a varietal blend; 90 per cent is made up of a midge tolerant variety and the remaining 10 per cent is a midge susceptible variety. But that doesn't mean producers sacrifice any agronomic benefits. Those who grow midge tolerant wheat report significant yield and grade benefits — approximately $36 per acre (based on wheat priced at $6 bu/ac).

The varietal blends provide an "interspersed refuge system" that disrupts the midge's ability to produce resistant offspring, preventing a build-up of the resistant midge population. Without an interspersed refuge system, midge tolerance could break down within 10 years.

There are currently nine varieties of midge tolerant wheat available in Western Canada. Producers are anticipating the release of the first durum variety in 2016, which features the same Sm1 gene as the other varieties. Hence, the same stewardship principles will apply.

STEWARDSHIP EFFORTS PAY OFF

"At the same time that we celebrate this five-year milestone, we need to keep vigilant to ensure the technology is protected for future growing seasons. To date, there is no other known source of midge tolerance. In other words, there is no Plan B if we lose the Sm1 gene," says Brenda Trask, communications manager, SeCan and co-chair of the Midge Tolerant Wheat Stewardship Team. The industry coalition, which includes plant breeders, government, seed growers, seed distributors and producer groups, has been active educating Western Canadian wheat producers on the importance of proper stewardship of the technology since before the launch of the technology.

To preserve midge tolerance, producers who buy midge tolerant wheat sign a Stewardship Agreement that limits the use of farm-saved seed to one generation past certified seed, keeping the refuge at the desired level.

"Five years of diligent stewardship communications has led to a strong awareness of the practices that are critical to preserving the technology," says Trask. "In addition to producer education, monitoring and enforcement are a key part of our committee's mandate."

It appears the efforts are paying off. Results of an annual audit show 96 per cent of producers were in compliance with the stewardship practices in 2014.

"By far, the majority of growers said that the technology and the stewardship was really critical for them. They understand it and they are doing everything they can to protect the technology," says Mazurkewich, whose auditors contacted a randomized list of producers and set up on-farm visits to ask questions about the status of their stewardship requirements.

According to Mazurkewich, the midge tolerant wheat audit was a pleasant experience for everyone involved. "Our auditors enjoyed working on this. It was a kitchen table, eyeball-to-eyeball conversation about farming and the use of good technology. The growers were absolutely appreciative and supportive that someone was following up and driving toward better awareness."

With this outlook, it looks promising that the industry will celebrate more midge tolerance milestones in the future.

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.

Canola Variety Information

CANOLA Performance Trials (CPT) have been conducted since 2011 and represent the next generation in variety evaluation for western Canadian canola growers. The trials were designed to provide:

- Relevant, unbiased and timely performance data that reflects actual production practices;
- Comparative data on leading varieties and newly introduced varieties; and,
- 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.

The CPT trials are conducted under the guidance of a governance committee that approves participating varieties, protocol design, data collection, analyses, reports and finance management. The Canola Council of Canada delivers the program on the committee's behalf.

The CPT summaries provided in this factsheet are based on successful trials that did not show confounding factors during field inspections. There were 25 successful small plot trials and more than 100 field scale trials in 2014. The small trial sites were distributed based on seeded acres in Manitoba, Saskatchewan and Alberta.

Small plot trials included popular varieties and varieties that are newly introduced. The new small plot system ensured that:

- All varieties are treated with appropriate commercially associated herbicides and seed treatments;
- An independent third party representative inspected all trials; and,
- Harvest occurred 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. A check variety 73-75 RR was included in all field scale trials since 2012. The field scale comparisons are 2012-2014 averages that provide robust estimates of performance relative to the check.

To ensure quality data and statistical analysis, the CPT technical committee established protocols and developed research plot designs. Performance objectives were established to provide guidelines on timely field operations and data collection. All sites were inspected to verify that guidelines were followed for fair comparisons 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 performed the audits.

Small yield differences can easily be random variation and thus are less likely to be real effects of varieties. When comparing average zone yields for varieties in the small plot data, the least significant difference (LSD) ranged from nine to 13 per cent in 2014. This is based on a confidence level that significant differences would occur by chance less than five per cent of the time. A confidence level of 10 per cent is sometimes used in statistical analyses, and this would result in a slightly smaller LSD. In the small plot design used, varieties are grouped by herbicide system, which means that the LSD shown strictly applies only to comparisons between a few varieties of the same herbicide system. Comparisons between many varieties or between different herbicide systems are still valid but the LSD would be larger. More importantly, comparisons between varieties within the same herbicide system reveal only genetic differences, whereas variety comparisons from different herbicide systems involve the net effect of both genetic and herbicide effects (weed control + crop tolerance).

When comparing variety yields in the field scale summaries, an asterisk (*) indicate yields that are statistically different than 73-75 RR (5 per cent level).

As you combine results from more sites, the statistical power to determine if small differences are not due to chance often improves quickly up to 15 to 20 sites, and then marginally after that. This means that smaller differences are more relevant when all sites are averaged than just a few selected sites. Also, when there are a high number of individual sites for comparing two varieties, this increases the predictability that the average yield differences would likely occur in other fields in future years.

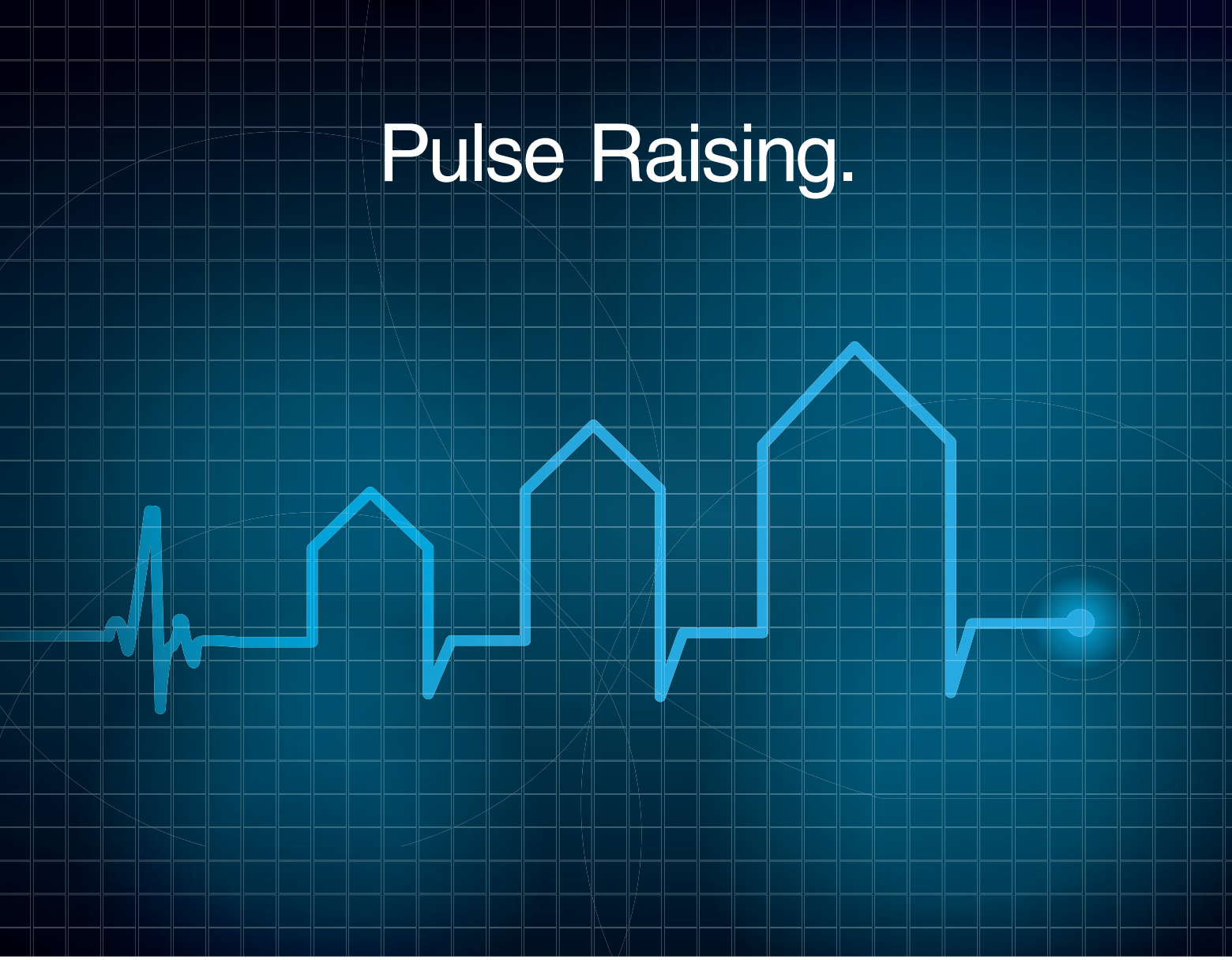
Where are CPT results available?

Results are available through an online interactive tool at www.canolaperformancetrials.ca. The interactive tool allows 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 individual site will be reported online. The online tool has an economic calculator that includes the costs associated with growing the selected variety to assist growers in determining potential profitability.

Data is also available in booklet form that will be distributed through various publications, and can be obtained from your local agri-retailer.

NOTE: *Brassica rapa* (Polish Canola) and Canola Quality *Brassica juncea* – no varieties were tested under PCT in 2012 through 2014.

Pulse Raising.



Raise your Pulse with **N and P.**

Give your pulse crops the boost they need with **TagTeam®**, the only inoculant that delivers increased access to both nitrogen and phosphate to improve yield potential by up to 8 percent*.

TagTeam® *MultiAction®* performance – **it's pulse raising.**

See your local retailer today, or visit **useTagTeam.ca**.

TagTeam®

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

TagTeam®, *MultiAction®* and Monsanto BioAg and Design™ are trademarks of Monsanto Technology LLC, Monsanto Canada Inc, licensee. © 2014 Monsanto Canada Inc. 237-1 08.14

MONSANTO BioAg™

2014 CANOLA VARIETY YIELDS (SMALL SCALE TRIALS)

Main Characteristics of Varieties

Variety	Distributor	2014 Yield (bu/ac) Long (5)*	Mid (14)*	Short (6)*	Average	Maturity (days) Long	Mid	Short	Height (cm) Long	Mid	Short	Clubroot Rating
Clearfield												
5525 CL	BrettYoung	76	54	62	58	94	95	101	122	107	110	S
VR 9560 CL***	Crop Production Services	79	58	64	61	97	96	102	124	118	110	S
LSD		**9**	**8**	**8**								
Liberty Link												
5440	Bayer CropScience	82	61	69	65	96	95	100	126	113	115	S
L130	Bayer CropScience	81	59	67	63	93	93	98	121	110	108	S
L252	Bayer CropScience	92	64	74	69	96	95	101	124	109	111	S
L261	Bayer CropScience	85	64	72	67	96	96	102	136	122	124	S
LSD		**8**	**5**	**6**								
Roundup Ready												
6044 RR	BrettYoung	78	57	61	60	95	95	101	119	104	104	S
6060 RR	BrettYoung	77	57	63	60	98	97	103	122	108	112	S
6064 RR	BrettYoung	79	59	64	62	97	97	103	118	106	107	S
1990	CANTERRA SEEDS	81	59	67	63	94	95	101	114	107	116	S
08H0004	Cargill - VICTORY Canola	80	59	63	62	100	98	104	130	115	112	S
09H7763	Cargill - VICTORY Canola	84	59	63	63	95	96	101	119	109	111	S
V12-1**	Cargill - VICTORY Canola	82	60	64	63	95	95	101	118	108	108	S
V12-2**	Cargill - VICTORY Canola	78	54	60	58	97	96	102	121	103	101	S
VR 9562 GC	Crop Production Services	82	61	68	64	94	94	100	123	112	114	R
73-15 RR	DEKALB	XX	XX	58	50			97			99	S
73-75 RR	DEKALB	81	58	65	62	93	94	99	112	102	105	S
74-44 RR	DEKALB	82	57	63	61	94	95	100	113	105	104	S
74-54 RR	DEKALB	82	59	66	63	94	93	99	113	105	106	R
11DL30318	DL Seeds	80	57	62	60	95	95	101	121	107	113	S
SY4157	Syngenta Canada	85	62	66	65	98	97	102	130	112	114	S
SY4114	Syngenta Canada	78	57	61	60	94	93	100	112	105	104	S
SY4135	Syngenta Canada	78	55	63	59	94	94	100	109	102	105	S
Varieties that have been supported for registration												
13DL30122	CANTERRA SEEDS	81	60	65	63	97	96	101	127	107	116	S
13DL30323	DL Seeds	87	64	71	68	97	94	102	123	108	110	S
VT-SN 11-2786	Crop Production Services	79	58	64	62	94	94	100	119	105	108	S
LSD		**8**	**5**	**7**								

* Long, mid and short growing seasons. The number of sites tested is included in brackets. All these tested varieties are rated resistant for blackleg.
** specialty oil profile and available for premium pricing. ***Higher oil content and may be eligible for pricing premiums. XX = less than 5 sites in zone and data not shown.
LSD = least significant yield difference (5% level) within herbicide system.

Alliance Seed Cleaning Association Ltd.
Commercial, Pedigreed & Separation Cleaning
Optical Colour Sorting
Terry Howe
Manager
Ph: 1-780-879-3927
Fax: 1-780-879-2414
Email: allianc@wildroseinternet.ca
Box 147Alliance, Alberta T0B 0A0
Complete Line of Processing, Treating & Bagging Facilities
Feed, Vet Supplies & Grass Seed Sales

LEFSRUD SEED and PROCESSORS LTD.
ED, KEVIN and KYLA LEFSRUD
Certified, Registered and Foundation Seed Cleaning and Treating
R.R. #1 Viking, Alberta
Tel & Fax (780) 336-2500
or (780) 336-2588
Cell: 336-5700 Kevin | 336-6700 Ed
E-mail: lefsrud@telusplanet.net
www.telusplanet.net/public/lefsrud

INTRODUCING NIPSIT SUITE

AN INNOVATIVE, ALL-IN-ONE SEED TREATMENT FOR WHEAT.

New NipsIt™ Suite delivers complete seed and seedling protection in wheat. It's *Engineered to Protect*™ plant growth and yield from the most damaging disease and insect pests. And the unique *Lock Tight*™ technology makes NipsIt Suite easy to apply and enhances seed flow consistency.

Put the best protection on your wheat crop with new NipsIt Suite. Contact your local retailer for more information.

Innovative solutions. Business made easy.

1.800.868.5444 | Nufarm.ca

VALENT®

Always read and follow label directions.
NipsIt™, Engineered to Protect™ and Lock Tight™ are trademarks of Valent U.S.A. Corporation.
NipsIt Suite is registered on wheat (spring, winter, durum), with registration pending on barley and oats.
40188-1014

Nufarm

Grow a better tomorrow.

2012-2014 CANOLA VARIETY YIELDS (LARGE SCALE STRIP TRIALS)

Variety	Long	Mid	Short	Average
Check				
73-75 RR (yield in bu/ac)	**48**	**48**	**49**	**48**
		% Yield of 73-75 RR		
		Liberty Link		
5440	101 (35)	106* (63)	106* (22)	104* (120)
L130	101 (54)	104* (98)	109* (35)	104* (187)
L154	99 (16)	101 (25)	99 (9)	100 (50)
L159	95 (14)	100 (22)	101 (8)	98 (44)
L252	108* (29)	106* (57)	107* (18)	107* (104)
L261	104* (30)	105* (48)	108* (15)	105* (93)
		Roundup Ready		
1990	97 (19)	101 (58)	102 (12)	101 (89)
6044 RR	XX	95 (8)	XX	94* (10)
6060 RR	95* (15)	97 (23)	96 (6)	96* (44)
73-15 RR	99 (5)	103* (53)	102 (30)	103* (88)
73-45 RR	99 (23)	102* (69)	103* (29)	101 (121)
74-44 BL	101 (59)	105* (124)	105* (46)	104* (229)
74-47 CR	99 (8)	99 (37)	99 (8)	99 (53)
74-54 RR	102* (40)	102* (89)	104* (29)	102* (158)
SY4135	XX	102 (11)	XX	102 (16)
V12-1	XX	103 (18)	XX	102 (19)
V12-2	XX	101 (15)	XX	100 (16)

Long, mid and short growing seasons. The number of comparison sites is included in brackets.

XX - less than 5 site-years data in zone. * Indicates that the yield average was significantly different than 73-75 RR (paired, two-tailed t-test).

HOLMSTROM SEED FARM
SINCE 1984

Darrell Holmstrom
Ph: 780-385-5330
Box 539 • Killam, AB T0B 2L0

Glas Flax • Pedigreed Seed

CANOLA - JUNCEA

	S	F	R	C
X121 CL				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed/CPS (Canada) Inc / High River / (306)480-8520				C

CANOLA - NAPUS

	S	F	R	C
1012 RR, 1016 RR, 2012 CL, 2016 CL & 2020 CL				
BI: N/A, Dist: Dow AgroSciences				
Dow AgroSciences / Calgary / (403) 735-8800				C
1990				
BI: N/A, Dist: DL Seeds Inc.				
Adams, Jayson / Winnipeg / (204) 331-3611				C
McNaughton, Brian / Lethbridge / (403) 308-9914				C
43E02				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
43E03				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
45H29				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
45H31				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
45H33				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
45H76				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
45S56				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
46H75				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
InVigor 5440				
BI: N/A, Dist: Bayer CropScience				
Bayer CropScience Inc. / Lethbridge / (403) 329-0706				C
5525CL				
BI: N/A, Dist: BrettYoung Seeds				
McNaughton, Brian / Lethbridge / (403) 308-9914				C
5535 CL				
BI: N/A, Dist: BrettYoung Seeds				
McNaughton, Brian / Lethbridge / (403) 308-9914				C
6056CR				
BI: N/A, Dist: BrettYoung Seeds				
McNaughton, Brian / Lethbridge / (403) 308-9914				C
6064 RR				
BI: N/A, Dist: BrettYoung Seeds				
McNaughton, Kevin / Lethbridge / (403) 317-4181				C
72P01 CL				
BI: U of A, Dist: N/A				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500		F		
73-15RR				
BI: N/A, Dist: Monsanto Canada Inc.				
Monsanto Canada Inc. / Lethbridge / (403) 360-8043				C
74-44BL				
BI: N/A, Dist: Monsanto Canada Inc.				
Monsanto Canada Inc. / Lethbridge / (403) 360-8043				C
74-54RR				
BI: N/A, Dist: Monsanto Canada Inc.				
Monsanto Canada Inc. / Lethbridge / (403) 360-8043				C
CAFE				
BI: SW Seed, Dist: N/A				
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383		F		
D3155C				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
HY HEAR1				
BI: N/A, Dist: N/A				
McNaughton, Kevin / Lethbridge / (403) 317-4181				C

InVigor L130				
BI: N/A, Dist: Bayer CropScience				
Bayer CropScience Inc. / Lethbridge / (403) 329-0706				C
InVigor L135C				
BI: N/A, Dist: Bayer CropScience				
Bayer CropScience Inc. / Lethbridge / (403) 329-0706				C
InVigor L140P				
BI: N/A, Dist: Bayer CropScience				
Bayer CropScience Inc. / Lethbridge / (403) 329-0706				C
InVigor L160S				
BI: N/A, Dist: Bayer CropScience				
Bayer CropScience Inc. / Lethbridge / (403) 329-0706				C
InVigor L252				
BI: N/A, Dist: Bayer CropScience				
Bayer CropScience Inc. / Lethbridge / (403) 329-0706				C
PV 530 G				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C
PV 531 G				
BI: N/A, Dist: CPS (Canada) Inc				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C
PV 532 G				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C
PV 533 G				
BI: N/A, Dist: CPS (Canada) Inc				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C
RUGBY				
BI: DL Seeds Ltd., Dist: SeCan Members				
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617*		F		C
SW WIZZARD				
BI: SW Seed, Dist: Bonis & Company Ltd.				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500		F		C
SY4114				
BI: N/A, Dist: Syngenta Canada Inc.				
McNaughton, Brian / Lethbridge / (403) 308-9914				C
SY4157				
BI: N/A, Dist: Syngenta Canada Inc.				
Syngenta Canada Inc. / Calgary / 1-877-964-3682				C
SY4135				
BI: N/A, Dist: Syngenta Canada Inc.				
McNaughton, Brian / Lethbridge / (403) 308-9914				C
VR 9560				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C
VR 9561 GS				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C
VR 9562 GC				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C
VT 500 G				
BI: N/A, Dist: CPS (Canada) Inc				
Proven Seed / CPS (Canada) Inc / High River / (306) 480-8520				C

CANOLA - RAPA

	S	F	R	C
ACSC29				
BI: AAFC, Dist: Mastin Seeds				
Mueller, Darcy / Three Hills / (403) 823-9788				C
EARLY ONE				
BI: AAFC, Dist: Mastin Seeds				
Mastin, Robert B. / Sundre / (403) 556-2609				C
Mueller, Darcy / Three Hills / (403) 823-9788				C
SYNERGY				
BI: AAFC, Dist: SeCan Members				
Markert Seeds Ltd. / Vulcan / (403) 485-6708				C

CANOLA SEED DISTRIBUTORS

For additional canola varieties available for purchase and detailed variety information please contact these canola seed distributors.

BASF / 1-800-371- 2273 / www.agsolutions.ca
Bayer CropScience / 1-888-283-6847 / www.bayercropscience.ca
BrettYoung / 1-800-665-5015 /www.brettyoung.ca
Canterra Seeds Ltd. / (204) 988-9750 / www.canterra.com
Cargill Specialty Seeds & Oils / 1-800-323-6232 / www.victorycanola.com
DEKALB Canada/Monsanto Canada Inc. / 1-800-667-4944 / www.DEKALB.ca
DL Seeds / (204) 331-2361 / www.dlseeds.ca
Dow AgroSciences / 1-800-667-3852 / www.dowagro.ca
DuPont Pioneer / (306) 385-3001 / www.pioneer.com/canada
Mastin Seeds / (403) 556-2609 / www.mastinseeds.com
Proven Seed/CPS (Canada) Inc. / (306) 480-8520 / provenseed.ca
SeCan / 800-665-7333/ www.secan.com
Syngenta Canada Inc./ 1-877-964-3682 / www.syngentafarm.ca

ADDITIONAL RESOURCES:
Canola Council of Canada / 1-866-834-4378 / www.canolacouncil.org
Alberta Agriculture and Rural Development / 310-FARM (3276) / www.agriculture.alberta.ca
Alberta Canola Producers Commission / 1-800-551-6652 / www.canola.ab.ca

Kittle Farms Ltd.
SELECT SEED GROWER & PROCESSOR

Andrew Kittle | Bill Kittle

Phone: **780-336-2583**
Cell: **780-385-4900**
Box 296, Viking, Alberta T0B 4N0

GLD AGVentures

Pedigree Seed Sales | Box 270 Andrew, AB T0B 0C0
Phone: (780) 365-3536 | Cell: (780) 945-6107 | Lawrence Kapitski (780) 365-2134

Roundup Ready® Liberty Link® and Clearfield® Canola Certified cereals and pulses, on farm scale.

PEAS:
CDC Meadows
Agassiz

WHEAT:
Stettler
Harvest
CDC NRG 003

OATS:
Triactor

BARLEY
AC Metcalfe

*Access to other varieties

FLAX

Variety	Overall Station Years of Testing	Overall Yield	Yield Category[1] (% CDC Bethune) Low < 20 (bu/ac)	Medium 20-35 (bu/ac)	High 35-50 (bu/ac)	V. High > 50 (bu/ac)	Agronomic Characteristics: Maturity Rating[3]	Seed Size	Height (cm)	Resistance to Lodging[4]
Varieties tested in the 2014 trials (Yield and agronomic data only directly comparable to CDC Bethune)										
CDC Bethune (bu/ac)		**36**	**15**	**29**	**45**	**59**				
CDC Bethune[2]	**123**	**100**	**100**	**100**	**100**	**100**	**L**	**M**	**58**	**VG**
CDC Glas	23	106+	XX	XX	106	XX	L	M	61	VG
Prairie Grande	67	98-	101	101	92-	99	M	M	54	VG
WestLin 71 ▲	16	95	XX	XX	90	XX	L	M	59	VG
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Bethune)										
AAC Bravo	23	104	XX	XX	103	104+	VL	L	64	VG
CDC Sanctuary	28	105+	XX	100	100	108+	VL	M	64	G
CDC Sorrel	32	104	112	104	100	99	L	L	61	G
Flanders †	49	99	93	101	101	99	VL	S	58	G
Hanley	37	97-	99	97	95	97	M	M	53	VG
Prairie Sapphire	23	96	XX	XX	97	101	L	M	64	G
Prairie Thunder	40	99	101	98	99	99	M	M	55	VG
Taurus	27	98-	103	97	XX	XX	L	M	53	VG

REMARKS: New registrations: Westlin 71 (FP2347), CDC Neela (FP2314) and VT50. Insufficient data to describe: CDC Neela, VT50. - Protected by Plant Breeders' Rights. ▲- Plant Breeders' Rights applied for. 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 CDC Bethune are reported in the Overall, Low, Medium, High and Very High Yield Test Categories. [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 from CDC Bethune. [3] Maturity rating: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for CDC Bethune in Alberta is 110 days and rated as Late (L). [4] Rating categories: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor.

FLAX

	S	F	R	C
AAC BRAVO				
BI: AAFC (Morden), Dist: FP Genetics				
Dalton, Dennis / Wainwright / (780) 842-2361			R	
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696	S	F		
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
HANLEY				
BI: AAFC (Morden), Dist: SeCan Members				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500			R	
Stamp Seeds / Enchant / (403) 739-2233			R	
NuLin 70				
BI:N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (403) 336-4826				C
PRAIRIE GRANDE				
BI: AAFC (Lacombe), Dist: SeCan Members				
Kopjar, Gerald M. / Rowley / (403) 368-2409				C
PRAIRIE SAPPHIRE				
BI: AAFC (Morden), Dist: Alliance Seed				
Stamp Seeds / Enchant / (403) 739-2233	S	F		C
WESTLIN 70				
BI: N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (403) 336-4826				C
WestLin 71				
BI:N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (403) 336-4826				C
WestLin 72				
BI:N/A, Dist: CPS (Canada) Inc.				
Proven Seed / CPS (Canada) Inc / High River / (403) 336-4826				C

FLAX - RECONSTITUED

	S	F	R	C
CDC GLAS				
BI: CDC, Dist: SeCan Members				
Airth, Jock & Linda / Brooks / (403) 362-4372			R	C
Bouw, Curtis / Bow Island / (403) 545-0007			R	
Dovichak, Michael / Brooks / (403) 501-5420			R	
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321			R	
Hoff, Peter Edward / Gleichen / (403) 734-2140	S			C
Hoffmann, Curtis / Oyen / (403) 664-9617				C
Holmstrom, Darrell & Barbara / Killam / (780) 385-3574			R	
Huvenaars, Carl / Hays / (403) 725-2213			R	
Huvenaars, John & Lisa / Hays / (403) 725-2126			R	
Huvenaars, Richard / Hays / (403) 725-2213			R	
Jackson, Thomas / Killam / (780) 385-2332		F	R	
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	
Sich, Louis John & Ivan & Martin / Trochu / (403) 442-2112			R	
Stamp Seeds / Enchant / (403) 739-2233			R	C
Weigum, Garry / Three Hills / (403) 443-2476			R	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
CDC SANCTUARY				
BI: CDC, Dist: SeCan Members				
Benci, Dennis / Carmangay / (403) 643-2294			R	
Feenstra, Lloyd / Barons / (403) 757-3737				C
Mercer, L. A. & C. & Ryan & Bolstad, L. / Lethbridge / (403) 308-2297*		F		
CDC SORREL				
BI: CDC, Dist: SeCan Members				
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383		F		C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330			R	C
Mans, John / Nobleford / (403) 824-3585				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				C
Zwack, Bryan / Daysland / (780) 374-3577				C

MERCER SEEDS LTD.

Spring Wheat: Elie (CWRS)
Winter Wheat: Gateway, Moats (CWRW)
Durum: Raymore, Enterprise (CWAD)
Barley: CDC Meredith
Flax: Sanctuary
Yellow Peas: CDC Saffron, CDC Centennial
Mustard: Andante Yellow, Centennial Brown, Vulcan Oriental
Hemp: CFX2

Ryan Mercer
RR8-10-11
Lethbridge, AB. T1J 4P4

P: 403-327-9736
C: 403-308-2297
E: rmercer@mercerseeds.ca

As a farmer, you have a lot of decisions to make. The DEKALB® brand team is here to empower you with expert advice, agronomic insight and local data. With every important decision you face on your farm, we're behind you. And we're ready to help you turn great seed potential into actual in-field performance. DEKALB canola... Empowering Your Performance.

Talk to your DEKALB dealer today, or visit DEKALB.ca

genuity®

ALWAYS FOLLOW GRAIN MARKETING AND ALL OTHER STEWARDSHIP AND PESTICIDE LABEL DIRECTIONS.
Details of these requirements can be found in the Trait Stewardship Responsibilities Notice to Farmers printed in this publication ©2014 Monsanto Canada, Inc.

2014 Regional Silage Variety Trials

CATTLE producers grow ever-increasing amounts of annual crops for feed (silage, green feed and swath grazing), and 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.

Participating Organizations

Under the umbrella of the Agricultural Research and Extension Council of Alberta, eight applied research groups performed the project at twelve locations throughout the province.

Agricultural Research and Extension Council of Alberta, Leduc, Alta., (780) 612-9712
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
Smoky Applied Research and Demonstration Association, Falher, Alta., (780) 837-2900
West-Central Forage Association, Evansburg, Alta., (780) 727-4447
North Peace Applied Research Association, Manning Alta., (780) 836-5230
Peace Country Beef and Forage, Fairview, Alta., (780) 835-6799

Major Sponsors

Government of Alberta (ARD) – Alex Fedko Coordinator
Agricultural Opportunity Fund – Fred Young Coordinator
A & L Canada Laboratories Inc.
Association of Alberta Co-op Seed Cleaning Plants
Alberta Seed Growers' Association

Trial Information

This is the sixth year the groups have conducted forage testing of various varieties. The tables show the summaries from the last two years as compared to the control variety (in bold). Test Yield categories are similar to the crop variety tables.

Varieties of barley, oats, triticale and peas commonly used for silage, greenfeed and swath grazing were included in the trial, as well as new varieties showing good potential for these uses. The cereal trials, (barley, oats and triticale), were seeded at recommended seeding density rates and at recommended fertility; its objective was to determine yield and nutritional values. The pulse mixture trial looked at increasing the nutritional value of silage, as well as decreasing nitrogen costs. Thus, the pulse mix plots were seeded with 50 pounds of 11-52-0-0 only, while the monoculture 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. The monoculture cereal comparison plots were seeded at 100 per cent the recommended seeding rate.

Test Yield Categories

The defined range for each Test Yield Category is provided in tons per acre. Variety yields are reported as average yields in Low, Medium and 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.

To make effective use of the yield comparison tables, producers first need to decide if their target yield for the season fits within the Low, Medium or 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 per cent 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.

Site Information

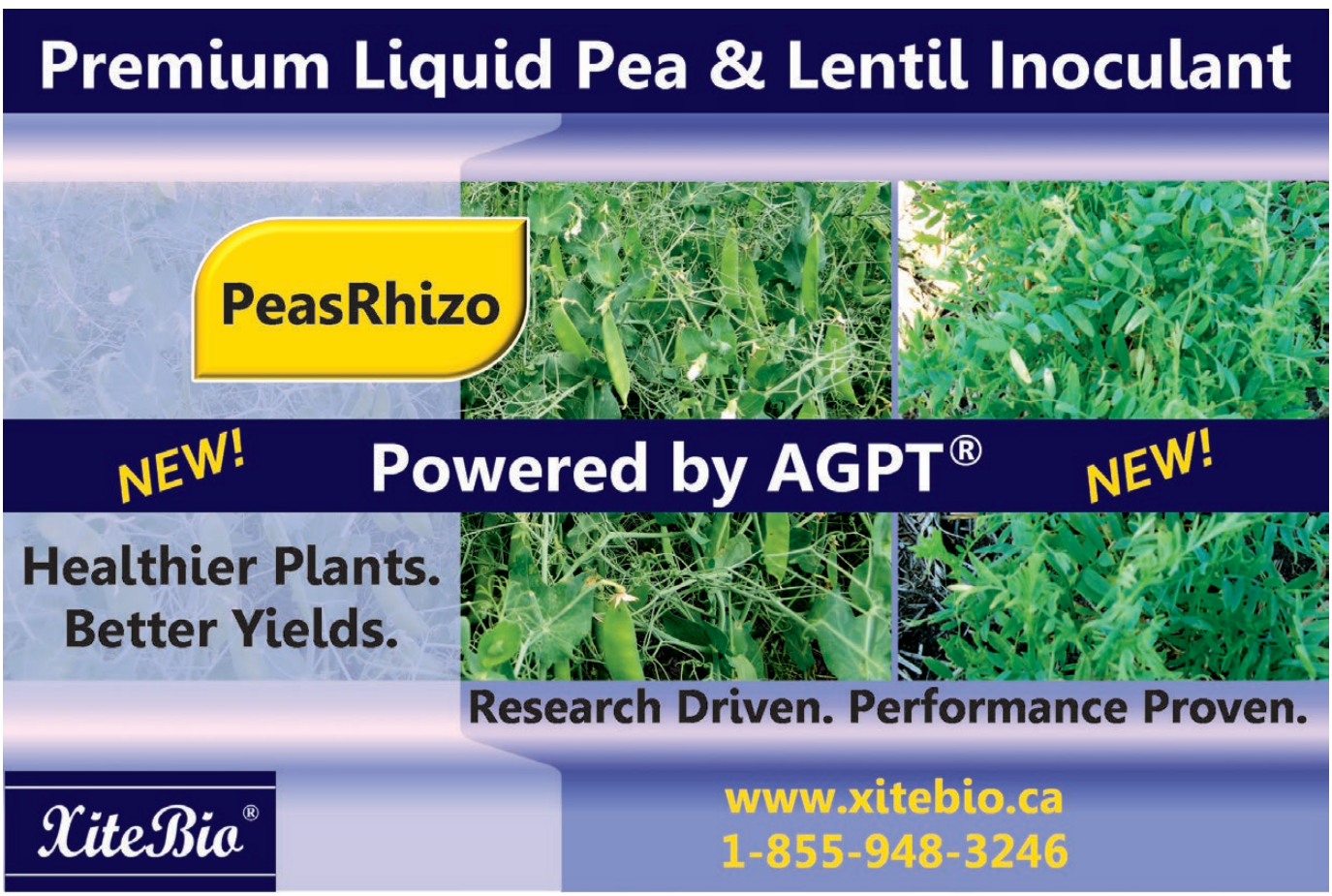
There were 12 sites across the province, representing various agroecological zones. Sites were located near Castor, Stettler, Fort Kent, Lac La Biche, New Fish Creek, Wildwood, Hanna, Manning, Fairview, St. Paul, Stony Plain and Westlock. The Fairview site seeded the barley and pulse mixed trials only. The Stony Plain and Westlock sites did not report their data, but is available locally. The New Fish Creek site abandoned the oats and pulse mixture. Maturity, plant height and lodging were not measured in the trials as it extensively reported on in the Cereal Regional Variety Trial program.

Nutritional Analysis

Nutrition was assessed using wet chemistry analysis. 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).

BARLEY

Variety	Overall Yield	Overall Station Years of Testing	Area (t/ac)					Yield Category (% Vivar)			Nutritional Data					
			2	3	4	5	6	Low < 2.0 (t/ac)	Medium 2.0-4.0 (t/ac)	High > 4.0 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2012-2014 trials (Yield and agronomic data only directly comparable to Vivar)																
Vivar (t/ac)	**4**		**4.7**	**4.8**	**3**	**4.5**	**2.5**	**1.7**	**3.3**	**5.2**	**10.5**	**66.2**	**0.4**	**0.2**	**1.3**	**0.2**
Vivar	**100**	**25**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**
Busby	100	25	99	101	94	105+	95	96	99	103	99	99	97	104	96	88
CDC Austenson	109+	25	103	105	127	106	109	121	104	110	101	100	82	106	102	88
CDC Coalition	98	25	103	96	104	91	106	102	95	100	100	100	80	107	102	84
CDC Cowboy	109+	25	99	110	120	109	108+	115	107	109	95	97	97	108	112	101
CDC Maverick	106	15	94	97	89	109	116	117	108	100	92	98	94	105	97	99
Chigwell	96-	25	90-	91	100	93-	105	110	92-	96	100	98	109	102	105	98
Conlon	91-	15	78-	92	98	85-	104	104	88	90-	92	99	88	112	94	84
Gadsby	109+	25	102	108	119	108+	111	123	105	109	98	99	100	106	99	93
Muskwa	96	15	108	90	102	90-	102	101	96	95	98	99	108	106	116	97
Ponoka	106	25	102	104	112	107+	104	115	101	108	96	99	114	105	102	97
Ranger	100	15	116	99	90	99	98	97	100	102	96	98	111	106	118	102
Seebe	105+	25	101	106	113	105	102	111	103	105	104	97	102	114	110	87
Sundre	95-	25	88	95	95	95	101	101	94	95	103	99	104	109	115	100
Trochu	97	24	96	92	101	99	94	103	94	96	99	101	102	109	103	99
Xena	103	25	97	108	106	101	107	106	103	103	101	100	82	111	97	86



PULSE MIXTURES

Variety	Overall Yield	Overall Station Years of Testing	Area (t/ac) 2	3	4	5	6	Yield Category (% Vivar) Low < 2.0 (t/ac)	Medium 2.0-4.0 (t/ac)	High > 4.0 (t/ac)	Nutritional Data CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2012-2014 trials (Yield and agronomic data only directly comparable to Vivar)																
Vivar (t/ac)	**3.5**		**3.7**	**4.3**	**2.3**	**3.4**	**3.1**	**2.5**	**3.5**	**4.7**	**9.3**	**63.2**	**0.4**	**0.2**	**1.4**	**0.2**
Vivar	**100**	**25**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**
Murphy	116	24	94	107	157	126+	98	124	117	107	90	95	76	101	126	89
Pronghorn	110	25	98	95	109	119+	112	107	112	108	102	101	62	110	101	77
40-10 /Murphy	96	18	55	76	132	102	95	105	97	75	130	98	153	122	119	133
40-10 /Pronghorn	95	18	62	78	113	103	97	99	94	92	125	97	148	117	103	126
40-10 /Vivar	94	18	70	77-	108	94	116	101	94	83	143	99	174	112	106	137
CDC Horizon/Murphy	108	25	67	97	144	120	97	112	107	106	111	95	125	99	126	111
CDC Horizon/Pronghorn	106	25	76	91	132+	113	112	108	110	97	124	98	139	106	107	105
CDC Horizon/Vivar	99	25	84	94	112	103	98	95	102	96	130	98	157	107	105	117
CDC Meadow/Murphy	110	7	84	105	XX	125+	103	84	109	121+	104	95	116	101	129	95
CDC Meadow/Pronghorn	103	7	81	91	XX	117	106	81	112	101	122	99	124	113	111	95
CDC Meadow/Vivar	104	7	92	94	XX	116	98	92	113	98	115	100	197	89	105	129

OATS

Variety	Overall Yield	Overall Station Years of Testing	Area (t/ac) 2	3	4	5	6	Yield Category (% Murphy) Low < 2.0 (t/ac)	Medium 2.0-4.0 (t/ac)	High > 4.0 (t/ac)	Nutritional Data CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2012-2014 trials (Yield and agronomic data only directly comparable to Murphy)																
Murphy (t/ac)	**3.9**		**3.8**	**4.7**	**3.2**	**4.4**	**1.9**	**1.6**	**3.4**	**4.8**	**8.7**	**58.8**	**0.3**	**0.2**	**1.9**	**0.2**
Murphy	**100**	**25**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**
AC Juniper	95	20	96	98	95	85-	119	112	90	95	121	107	100	116	99	108
AC Morgan	101	25	101	95	100	97	122	111	99	100	112	106	105	115	96	95
AC Mustang	98	25	106	97	86	98	105	112	94	100	124	105	98	110	98	100
CDC Baler	96	24	85-	100	103	96	93	98	95	97	123	107	106	113	101	102
CDC Haymaker	99	17	98	100	125	95	102	117	99	97	119	106	104	110	103	99
CDC So-i	94-	25	91	104	79-	95	95	98	90-	97	119	107	101	105	99	105
Everleaf	86	7	XX	98	108	73-	68	68	95	76	117	104	112	107	100	102
Foothills	99	25	95	97	107	98	102	110+	94	102	120	103	106	109	101	101
Jordan	98	25	107	96	84	97	108	107	95	99	119	105	100	106	97	112
Waldern	100	25	93	104	99	99	111	113	99	100	110	105	109	104	93	98

TRITICALE

Variety	Overall Yield	Overall Station Years of Testing	Area (t/ac) 2	3	4	5	6	Yield Category (% Pronghorn) Low < 3.0 (t/ac)	Medium 3.0-4.5 (t/ac)	High > 4.5 (t/ac)	Nutritional Data CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2012-2014 trials (Yield and agronomic data only directly comparable to Pronghorn)																
Pronghorn (t/ac)	**4.2**		**4.3**	**4.4**	**3.4**	**4.8**	**2.1**	**2.5**	**4**	**5.3**	**9.3**	**62.8**	**0.2**	**0.3**	**1.4**	**0.1**
Pronghorn	**100**	**26**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**	**100**
Bunker	97	26	87	96	98	101	93	93	97	99	101	98	118	95	94	109
Sunray	97	17	85	94	129	99	90	87	101	98	108	102	111	100	97	102
Taza	100	26	96	102	95	102	96	101	97	101	99	100	108	103	94	97
Tyndal	95-	26	91	101	92	96	92	92	97	96	96	100	102	99	91	98

A hopper full of best-in-class technology.

Through Western Grains Research Foundation, producers have helped fund research and development for more than 200 varieties of wheat and barley. You most likely recognize more than a few of them, and you've probably had some success growing several of them too. Western Grains Research Foundation is a producer-funded and producer-directed organization. Working together, we produce some of the world's finest and most technologically advanced grains.

Western Grains Research Foundation

@westerngrains
westerngrains.com

Hay and Pasture Crops

DISTRIBUTOR INFORMATION:

BrettYoung ..... 1-800-665-5015 / www.brettyoung.ca
CPS (Canada) Inc. ..... 1-855-569-9444 / www.cpsagu.ca
FP Genetics ..... 1-866-791-4522 / rweik@fpgenetics.ca
Foster's Seed & Feed Ltd. ..... 1-800-379-4804 / doug.thiessen@fosterseed.com / www.fosterseed.com
Hannas Seeds Ltd. ..... 403-782-6671 / patricia@hannasseeds.com / www.hannasseeds.com
Peace Country Seeds / Interlake Forage Seeds ..... 780-338-2934 / plundgard@telus.net / www.interlakeforageseeds.com
Johnson Seeds ..... 1-800-363-9442 / info@johnsonseeds.com / www.johnsonseeds.com
Sunshine Seeds Ltd. / Ken Long Forage Seed ..... 403-758-3444 / gmcard@theboss.net
Northstar Seed Ltd. ..... 1-800-805-0765 / info@northstarseed.com / www.northstarseed.com
Pickseed Canada Ltd. ..... 1-800-265-3925 / www.pickseed.com
Pioneer Hi-Bred Ltd. ..... 403-346-6031 / www.pioneer.com/canada
SeCan ..... 1-800-665-7333 / seed@secan.com / www.secan.com
Seed-Link Inc. ..... 705-324-0544 / sloffice@seed-link.ca / www.seed-link.ca

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.

Alberta Agriculture is Ropin' the Web
Visit us at www.agriculture.alberta.ca

Home Grown High Quality Canadian Seed

We multiply and deliver both traditional and the latest varieties of seed:

- **BARLEY:** AC Meredith, AC Metcalfe
  CDC Austenson
  CDC Copeland
- **PEAS:** CDC Patrick, CDC Meadow
- **HRS WHEAT:** CDC Go, Stettler
  CPS WHEAT: AAC Ryley
- **CANOLA:** Brett Young varieties
- Bio-Boost, Nodulator XL

On Site Services:

- 90' scale on site
- Storm Seed Treater
- Mini bulk bagging & shipping

SeCan Canada's Seed Partner BrettYoung™

Ph: 403-443-2577 Email: tanya@penwestcanada.ca Three Hills, AB

ALFALFA

	S	F	R	C
135				
BI: N/A, Dist: Pickseed Canada Inc.				
Klassen, Ken / Rosemary / (403) 378-4408				C
2010				
BI: N/A, Dist: BrettYoung Seeds Ltd.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
3010				
BI: N/A, Dist: BrettYoung Seeds Ltd.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
4010BR				
BI: N/A, Dist: BrettYoung Seeds Ltd.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
4020MF				
BI: N/A, Dist: BrettYoung Seeds Ltd.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
55Q27				
BI: N/A, Dist: DuPont Pioneer				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
ACTIS				
BI: N/A, Dist: La Co-op Federee				
Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653				C
ALGONQUIN				
BI: N/A, Dist: Pask Farms Ltd.				
Cailliau, John / Enchant / (403) 739-3785				C
BARRICADE SLT				
BI: N/A, Dist: BrettYoung Seeds Ltd.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
CONCEPT				
Bi: N/A, Dist: Quality Seeds Ltd.				
Meyer, Ben / Rolling Hills / (403) 964-2788				C
Petker, Viktor / Rosemary / (403) 378-3964				C
DALTON				
BI: AAFC, Dist: AAFC				
Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653				C
DYNASTY				
BI: N/A, Dist: Speare Seeds				
Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653		F		
EQUINOX				
BI: Forage Genetics, Dist: CPS (Canada) Inc.				
Gold Medal Seeds Limited / Brooks / (403) 362-3444		F		C
Nikkel, Ed / Lethbridge / (403) 792-2116				C
Stanko, Doug / Lomond / (403) 792-2353				C
Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653				C
FORTUNE				
BI: N/A, Dist: DLF Pickseed				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
GENEVA				
BI: Novaris, Dist: CPS (Canada) Inc.				
Slomp, Karl / Brooks / (403) 362-2156				C
HALO				
BI: N/A, Dist: CPS (Canada) Inc.				
Martin, Gerry / Duchess / (403) 378-4345				C
INSTINCT				
BI: N/A, Dist: DLF Pickseed				
Gold Medal Seeds Limited / Brooks / (403) 362-3444		F		C
LEGENDAIRY 5.0				
BI: N/A, Dist: Agronomy Company of Canada				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
LEGENDAIRY XHD				
BI: N/A, Dist: Gold Medal Seeds				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
Martin, Gerry / Duchess / (403) 378-4345				C
LELIA				
BI: N/A, Dist: Quality Seeds Ltd.				
Nikkel, Ed / Lethbridge / (403) 792-2116				C
MASKA				
BI: AAFC, Dist: AAFC				
Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653				C
PICKSEED 2065MF				
BI: N/A, Dist: DLF Pickseed				
Dyck, Craig / Rosemary / (403) 378-4444				C
PICKSEED 3006				
BI: N/A, Dist: DLF Pickseed				
Peltzer, David / Duchess / (403) 378-4577				C
POWER 4.2				
BI: N/A, Dist: N/A				
Nikkel, Ed / Lethbridge / (403) 792-2116				C
Perry, Randy / Scandia / (403) 362-7909				C
Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653				C

Will & Jean
Van Roessel

Box 490
Bow Island, AB
T0K 0G0

PHONE/FAX: (403) 545-6018
E-MAIL: will@specialtyseeds.ca
www.specialtyseeds.ca
Canterra SeCan BrettYoung

Dynamic Seeds Limited
dynamicseeds@xplornet.com

P.O. Box 813
Fairview, AB
T0H 1L0

Phone: 780-835-5435
Fax: 780-835-3064

Keith Lyons
Manager

Sales - Purchasing - Contracting - Cleaning
of
Creeping Red Fescue - Meadow Brome - Smooth Brome - Timothy - Alsike
Native Grasses - Reforestation and Rangeland Mixes

QWEST				
BI: Cal/West Seeds, Dist: Northstar Seed Ltd.				
Petker, Viktor / Rosemary / (403) 378-3964				C
SPREDOR 4				
BI: Forage Genetics, Dist: CPS (Canada) Inc.				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
Stanko, Doug / Lomond / (403) 792-2353				C
SUPER NOVA				
BI: N/A, Dist: DLF Pickseed				
Dyck, Craig / Rosemary / (403) 378-4444				C
VISION				
BI: N/A, Dist: DLF Pickseed				
Skanderup, Edward / Tilley / (403) 377-2481				C
VR TOTAL				
BI: N/A, Dist: CPS (Canada) Inc.				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
WL 319HQ				
BI: N/A, Dist: Gold Medal Seeds				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
WL 348AP				
BI: N/A, Dist: Gold Medal Seeds				
Gold Medal Seeds Limited / Brooks / (403) 362-3444		F		C
WL327				
BI: N/A, Dist: Gold Medal Seeds				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
WL353LH				
BI: N/A, Dist: Gold Medal Seeds				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
WL354HQ				
BI: N/A, Dist: Gold Medal Seeds				
Gold Medal Seeds Limited / Brooks / (403) 362-3444				C
YELLOWHEAD				
BI: AAFC, Dist: N/A				
Kerschbaumer, John A. / Fairview / (780) 835-4508				C

BROMEGRASS

	S	F	R	C
AC KNOWLES				
BI: AAFC (Saskatoon), Dist: CPS (Canada) Inc.				
Dechant, Clem / Hotchkiss / (780) 836-2715				C
Hanson, A. Serle / Valhalla Centre / (780) 358-2286				C
AC ROCKET				
BI: AAFC (Sainte-Foy), Dist: CPS (Canada) Inc.				
Noble, Robert / Manning / (780) 836-2337				C
Sallis, Gary / Manning / (780) 836-2381				C
ADMIRAL				
BI: N/A, Dist: AAFC				
Card, Gordon B. / Magrath / (403) 758-3444				C
CARLTON				
BI: AAFC (Saskatoon), Dist: Phillip's Seeds Ltd.				
Hadland, Edward / Baldonnel / (250) 789-3646		F		C
Kerschbaumer, John A. / Fairview / (780) 835-4508				C
Noble, Robert / Manning / (780) 836-2337				C
Sallis, Gary / Manning / (780) 836-2381				C
FLEET				
BI: AAFC (Saskatoon), Dist: SeCan Members				
Dynamic Seeds / Fairview / (780) 835-5464				C
Kerschbaumer, John A. / Fairview / (780) 835-4508				C
Van Garderen, Case / Picture Butte / (403) 738-4203				C
MANCHAR				
BI: N/A, Dist: No Rep				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
Obrigewitch, Trevor / Fairview / (780) 835-4763				C
PEAK				
Bi: N/A, Dist: Quality Seeds Ltd.				
Moskalyk, Kent / Fairview / (780) 835-8378				C
YORK				
BI: N/A, Dist: Quality Seeds Ltd.				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C

CICER MILKVETCH

	S	F	R	C
VELDT				
BI: AAFC (Lethbridge), Dist: CPS (Canada) Inc.				
Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653				C

CLOVER

	S	F	R	C
AURORA				
BI: AAFC (Beaverlodge), Dist: BrettYoung Seeds Ltd.				
Limoges, Daniel / Girouxville / (780) 833-1287				C
Moore Seed Processors Inc. / Debolt / (780) 957-3964				C

FESCUE

	S	F	R	C
BOREAL				
BI: AAFC (Beaverlodge), Dist: CPS (Canada) Ltd.				
Longson, Wayne / Beaverlodge / (780) 354-2909				C
Moore Seed Processors Inc. / Debolt / (780) 957-3964				C
Nelson, Barry Kenneth / Spirit River / (780) 351-2158				C
Richard, Gerald / Spirit River / (780) 864-3716				C
Richard, Michel / Spirit River / (780) 864-4220				C
ORACLE				
BI: AAFC (Beaverlodge), Dist: CPS (Canada) Ltd.				
Hegland, David Olaf / Wembley / (780) 766-2450				C
PRADEL				
BI: N/A, Dist: Spear Seeds				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
PREVAL				
BI: N/A, Dist: Northstar Seed Ltd.				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C

ORCHARDGRASS

	S	F	R	C
KAY				
BI: AAFC (Ottawa), Dist: SeCan Members/Ken Long Seeds				
Card, Gordon B. / Magrath / (403) 758-3444				C
KILLARNEY				
BI: N/A, Dist: AAFC				
Card, Gordon B. / Magrath / (403) 758-3444				C

RYEGRASS

	S	F	R	C
NORLEA				
BI: N/A, Dist: N/A				
Hadland, Edward / Baldonnel / (250) 789-3646				C

TIMOTHY

	S	F	R	C
ALMA				
BI: DLF Pickseed, Dist: ABT Canada				
Moore Seed Processors Inc. / Debolt / (780) 957-3964		F		C
CLIMAX				
BI: AAFC (Ottawa), Dist: DLF Pickseed				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
Heuston, Scott / Creston / (250) 428-7026				C
COMTAL				
BI: N/A, Dist: DLF Pickseed				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
Caron, Albert / Valleyview / (780) 524-2027				C
Moore Seed Processors Inc. / Debolt / (780) 957-3964				C
DERBY				
BI: Growmark Inc., Dist: Growmark Inc.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
DOLINA				
BI: N/A, Dist: Semican Atlantic Inc.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
PROMESSE				
BI: BrettYoung Seeds Ltd., Dist: BrettYoung Seeds Ltd.				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
RICHMOND				
BI: N/A, Dist: DLF Pickseed				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				
Turner, Lorne / Eckville / (403) 746-5831				C
TIFFANY				
BI: Parsons Seeds Ltd., Dist: Moore Seed Processors Inc.				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
TITAN (LISCHKA IN GERMANY)				
BI: N/A, Dist: Seed-Link				
BrettYoung Seeds Ltd. / Rycroft / (780) 765-3069				C
TUUKKA				
BI: N/A, Dist: Northstar Seed Ltd.				
Moore Seed Processors Inc. / Debolt / (780) 957-3964		F		C
TENHO				
BI: Boreal Plant Breeding (Finland),				
Dist: Moore Seed Porcessors Inc.				
Moore Seed Processors Inc. / Debolt / (780) 957-3964				C

Rodney Blenkin
Plant Manager

Carmangay Seed Plant

Box 6 Carmangay, Alberta T0L 0N0

Phone (403) 643-3656
carseed@wildroseinternet.ca

Rod – Cell
(403) 593-2687

Chris – Cell
(403) 593-2684

King's SEED FARM LTD.

Pedigreed, Muchmore & Utmost Wheat, & Newdale Barley

Harold & Jan King
RR2, Three Hills, AB
T0M 2A0

(403) 443-7330
Fax (403) 443-7992
Harold Cell (403) 443-0005
Jan Cell (403) 443-0006

DALTON SEED Farm

Phone/Fax (780) 842-2361
Cellular (780) 209-0816
daltonseed@mcsnet.ca

Select grower of
Cereal, Oilseeds & Pulses

Dennis Dalton

PIONEER A DUPONT COMPANY
FP·GENETICS

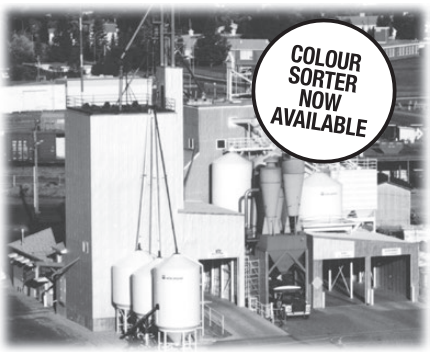
P.O. Box 3348
Wainwright, AB T9W 1T3

WHEATGRASS

	S	F	R	C
AC SALTLANDER				
BI: AAFC (Swift Current), Dist: N/A				
Miller, Kenneth F. / Milk River / (403) 647-2127				C
FAIRWAY				
BI: U of S, Dist: Newfield Seeds Ltd.				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
Hostettler, Fritz / Bluesky / (780) 835-4761				C
GREENLEAF				
BI: N/A, Dist: SeCan Members				
Card, Gordon B. / Magrath / (403) 758-3444				C
KIRK				
BI: AAFC (Saskatoon), Dist: SeCan Members				
Kerschbaumer, John A. / Fairview / (780) 835-4508				C
Limoges, Daniel / Girouxville / (780) 833-1287		F		
NORDAN				
BI: N/A, Dist: No Rep				
Schiebout, Everett H. / Barons / (403) 757-3757				C

Camrose County Seed Cleaning Plant

MANAGER
Rick Yarham



4728 - 41 Street Camrose, Alberta T4V 0Z6
Phone: (780) 672-2371 Fax: (780) 672-4997 Email: ryarham@county.camrose.ab.ca

"WHERE QUALITY SEED IS OUR FIRST PRIORITY"

ST. PAUL MUNICIPAL SEED CLEANING ASSOC. LTD.

P.O. Box 1101 St. Paul, Alberta T0A 3A0
Phone: 645-3939 Fax: 645-2122
Manager: Ron Wirsta
ron.wirsta@stpaulseedcleaning.com

We are processors of all Cereals, Pulses, Pedigreed & Commercial. Retail Pedigreed Cereals, Pulses, Canola, Forages, Grass seed. Authorized dealers of Pioneer Hi-Bred Ltd., Masterfeeds, Westway Feeds, Alfa-Tec Alfalfa Products, FeedRite, Viterra Feed Products.
We apply water based seed treatments.

Registered Seed Establishment

We are a proud member of Association of Alberta Co-op Seed Cleaning Plants

Corns Brothers Farm Ltd.
Box 729 Grassy Lake Alta. T0K 0Z0
Treating and Blending

Forages
Sorgum Sudan
Siberian Hay Millet
Annual Grasses
Hay Barley

Winter Silage Blends

Winter Cereals
Triticale
Bobcat
Luoma
Metzger
Winter Wheat
Emerson
Radiant
Rye
Remington

Spring Cereals
Spring Wheat
Lillian
Carberry
Triticale
Tyndal, Pronghorn
Ultima
Oats
Mustang, Morgan
Barley
Sundre
Auesterson

Ph. Bryan 403-655-2464
Ph. Gary 403-655-2339
Fax 403-655-2543
Email bryan@cornsbrothers.ca

HANEY FARMS
WWW.HANEYFARMS.COM

Box 280
Picture Butte, AB
Toll Free: 877-738-4517
Fax: 403-738-4420
Email: ssmith@haneyfarms.com
WWW.HANEYFARMS.COM

Pedigreed Seed Since 1937

@haneyfarms

PRIDE SEEDS
CANTERRA SEEDS
SeCan

Cereals – Canola – Corn
Triticale – Seed Treating

Special Crops

THIS PUBLICATION provides information on pulse variety performance within Alberta and northeastern British Columbia. Important agronomic characteristics and disease resistance information is provided for varieties of field peas, chickpeas, lentils, faba beans, dry beans and soybeans.

The Alberta Regional Variety Testing program for pulse crops is coordinated by Alberta Pulse Growers Commission (APGC) and Alberta Agriculture and Rural Development (AARD). Funding for the program is provided by Agriculture Agri-Food Canada (Growing Forward II), AARD, APG and entry fees (private companies) for the varieties being tested.

Data for this publication are contributed by numerous applied research associations, Prairie Grain Development Committee and AARD.

Variety choice is one of the important decisions any crop producer makes and it should never be based solely on genetic yield potential of a variety. Producers are encouraged to select varieties based on local growing conditions and planned end use. As well, growers should consider other factors such as plant height, standability (lodging) at physiological maturity and disease/pest resistance when selecting which variety to grow. Using long-term, multi-site data will lead to the selection of the best, yield-stable varieties. The yield comparison tables have several features:

- Overall actual yield of the standard check (kg/ha) based on all data available to the testing program is provided along with the number of station years of testing.
- Actual yield of the standard check in each growing area for field pea is reported.
- Overage yield of each variety is expressed relative to the standard check.
- Significant statistical differences relative to the standard check are indicated.

Yields that are statistically higher (+) or lower (-) than the check are indicated. No symbol after the yield figure indicates that there is no statistical difference from the check. Pay particular attention to data on new varieties that have not been fully tested. If a large difference from the check is reported but is not significant, it could mean that yields have varied widely, and/or there are not enough data to prove a statistical difference. With additional years of testing, the reported yield differences will become more accurate.

The following trials were grown in 2014:

- Sixteen green and yellow pea sites established across Alberta and two sites in north eastern British Colombia;
- Four chickpea trials at Bow Island, Brooks, Lethbridge and Medicine Hat;
- Five lentil trials at Bow Island, Brooks, Lethbridge, Medicine Hat and Oyen;
- Three wide row dry bean trials at Bow Island, Lethbridge and Vauxhall;
- Two narrow row dry bean Lethbridge and Vauxhall;
- Eleven fababean and ten soybean trials established across Alberta.

For additional information, including varieties not listed in this factsheet, please call Alberta Ag-Info Centre toll-free at 1-310-FARM (3276) or check the Alberta Agriculture and Rural Development website, Ropin' the Web at www.agriculture.alberta.ca/rvt.

In this world of big companies, it's nice to talk to someone who understands your farm. Our SeedNet members have first-hand experience with the varieties you want to know about.

www.seednet.ca

SeedNet

FARMERS HELPING FARMERS

MUSKWA BARLEY

6-row, smooth awn, semi-dwarf

ONE OF THE TOP YIELDERS IN 2012 AB VARIETY TRIALS

SUNRAY TRITICALE

Short, strong straw

HIGH YIELDING WITH IMPROVED ERGOT RESISTANCE

COMING SOON:

AAC CHIFFON SOFTWHEAT:

Outyields AC Andrew & Sadash, with a large kernel size, good straw strength & shattering resistance

AAC LACOMBE PEA:

Semi-leafless, high yielding yellow pea with mildew resistance

Seed Depot varieties available:

CARDALE HRSW: Semi-dwarf, good lodging, FHB Resistant with good yields.

Coming Soon- AAC GATEWAY WW: High yielding with FHB Resistance.

SEEDNET IS SEEKING GROWER/DEALERS FOR OUR VARIETIES IN Northern AB & SK.

Email: info@seednet.ca

DRY BEANS - NARROW ROW

Variety	Type	Site Years 1997-2014	Yield (% of check)	Days to Bloom[1]	Days to Maturity	TSW[2] (g)	Plant Height (cm)	Lodging[3] (1-5)	Growth Habit[4]
AC BLACK DIAMOND (kg/ha)			**2993**						
AC BLACK DIAMOND	**Black Shiny**	**20**	**100**	**57**	**102**	**250**	**38**	**2.2**	**II**
AAC Black Diamond 2 (A)	Black Shiny	2	114	64	6	265	34	1.8	II
CDC Blackcomb	Black Matte	4	83	64	2	193	37	1.3	II
ISLAND (kg/ha)			**3628**						
ISLAND	**Pinto**	**10**	**100**	**60**	**102**	**338**	**43**	**2.6**	**II**
AAC Burdett	Pinto	3	99	61	1	379	40	1.3	II
CDC Marmot	Pinto	3	88	57	-4	425	35	2.0	II
CDC WM 2	Pinto	7	77	58	2	347	41	2.4	II
Medicine Hat	Pinto	6	99	64	5	338	44	1.9	II
Winchester	Pinto	5	80	58	2	302	45	2.1	II
AAC TUNDRA (kg/ha)			**4452**						
AAC TUNDRA	**Great Northern**	**4**	**100**	**55**	**101**	**375**	**44**	**2.4**	**II**
AAC Whitehorse	Great Northern	3	111	55		400	41	2.2	II
AC Polaris	Great Northern	14	76	58	5	329	35	3.4	II
AC Resolute	Great Northern	16	65	54	0	372	39	2.4	II
AC REDBOND (kg/ha)			**2569**						
AC REDBOND	**Small Red**	**17**	**100**	**51**	**100**	**303**	**39**	**2.3**	**II**
CDC Sol (kg/ha)			**1887**						
CDC Sol	**Yellow**	**6**	**100**	**59**	**111**	**385**	**33**	**1.6**	**I**
VIVA (kg/ha)			**2307**						
VIVA	**Pink**	**15**	**100**	**52**	**99**	**249**	**32**	**3.5**	**III**

REMARKS: A = First year entries; [1]Days to bloom from seeding; [2]Thousand Seed Weight; [3]Lodging: 1 = erect, 5 = flat. [4]Growth Habit: I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.

Rick's Pedigreed Seed

Rick & Sharon Mueller
780-674-6713
Richard & Rose Mueller
780-674-2595

2421 Twp Rd. 593A
RR1
Barrhead, AB T7N 1N2
rmueller@mcsnet.ca

Your barley and pulse specialist

Fax: (780) 674-5959
Cell: (780) 674-0853

TONY CROOYMANS & SONS
Pedigreed Seed

Box 1124, Bow Island
Alberta, T0K 0G0

Durum: AC Strongfield, AAC Raymore
HRSW: AC Lillian (solid stem), CDC Go, AC Carberry, AAC Bailey, Cardale, Pasteur (GP)
HRWW: AC Radiant
SWSW: AC Sadash
Barley: CDC Austenson
Flax: Prairie Sapphire
* We can source other varieties *

Dealers for:
Dekalb: Canola, Corn
Pickseed: Alfalfa, Grass, Forages, Corn
Canterra Seeds: Cereals, Pulses, Canola, Inoculant

403-580-7264 403-545-6333(shop) 403-545-6509 403-545-6206

Lindholm Seed Farm

Wheat • Oats • Barley
Canola • Peas • Faba Beans

TF (800) 444-8961
P (780) 352-3240
F (780) 352-6943

RR#1, New Norway,
Alberta, T0B 3L0
lindholmseed@xplornet.com

BASHAW SEED CLEANING CO-OP
SERVING THE COMMUNITY SINCE 1959

Processors of Pedigreed Seed for:
Simco Seeds
Echo Ridge Seeds
Knight's Seed Farm
Jason Schultz

Bill Sinclair
Office/Plant Manager

Box 418, Bashaw, Alberta T0B 0H0
Phone: (780) 372-3868 Fax: (780) 372-3068

Custom Treating | On-Site Sales | Portable and In Plant Optical Sorting Available

DRY BEANS - WIDE ROW

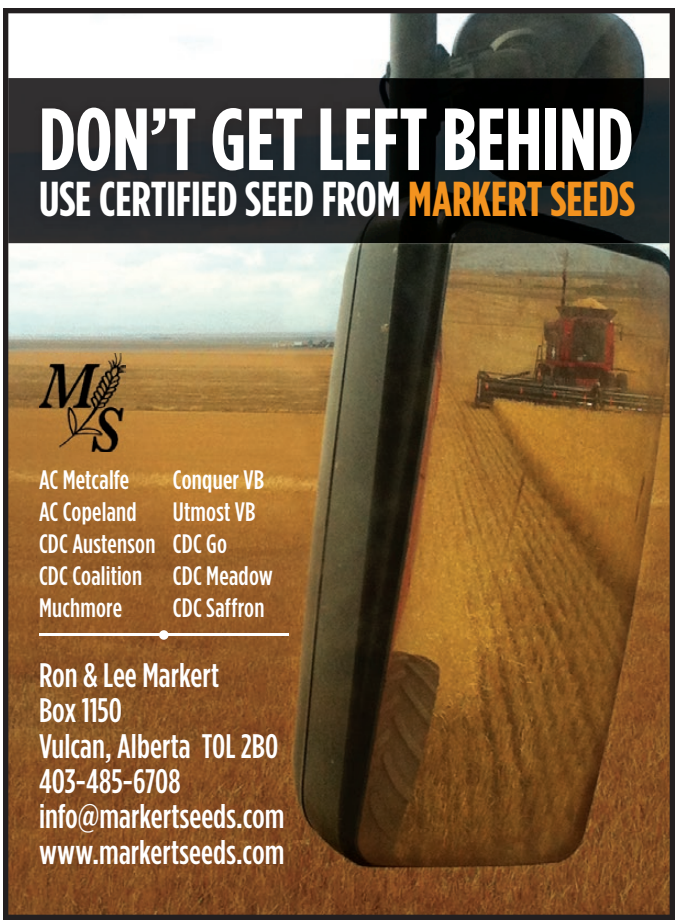
Variety	Type	Site Years 1997-2014	Yield (% of check)	Days to Bloom[1]	Days to Maturity	TSW[2] (g)	Plant Height (cm)	Lodging[3] (1 - 5)	Growth Habit[4]
AC BLACK DIAMOND (kg/ha)			**3021**						
AC BLACK DIAMOND	**Black Shiny**	**45**	**100**	**57**	**104**	**262**	**39**	**2.1**	**II**
AAC Black Diamond 2 (A)	Black Shiny	3	97	57	2	268	39	1.9	II
CDC Blackcomb	Black Matte	9	76	62		176	35	1.8	II
ISLAND (kg/ha)			**3694**						
ISLAND	**Pinto**	**19**	**100**	**55**	**100**	**371**	**41**	**2.8**	**II**
AAC Burdett (A)	Pinto	3	97	54		387	44	1.9	II
CDC WM-2	Pinto	14	76	56	1	369	40	2.5	II
Medicine Hat	Pinto	12	93	61	4	354	42	2.4	II
Othello	Pinto	8	90	58	0	353	36	3.5	III
Winchester	Pinto	16	86	55	0	335	40	2.5	II
AAC TUNDRA (kg/ha)			**3390**						
AAC TUNDRA	**Great Northern**	**9**	**100**	**51**	**96**	**357**	**41**	**2.6**	**II**
AAC Whitehorse	Great Northern	6	98	51	0	382	41	2.5	II
AC Polaris	Great Northern	25	96	62	6	301	37	4.1	II
AC Resolute	Great Northern	25	85	50	2	352	42	2.1	II
AC REDBOND (kg/ha)			**3203**						
AC REDBOND	**Small Red**	**39**	**100**	**53**	**101**	**316**	**41**	**2.4**	**II**
CDC Sol (kg/ha)			**2313**						
CDC Sol	**Yellow**	**12**	**100**	**55**	**103**	**406**	**33**	**1.5**	**I**
Myasi	Yellow	9	89	63	9	354	34	2.1	I
VIVA (kg/ha)			**3090**						
VIVA	**Pink**	**39**	**100**	**55**	**104**	**255**	**36**	**3.6**	**III**

REMARKS: A = First year entries; [1]Days to bloom from seeding; [2]Thousand Seed Weight; [3]Lodging: 1 = erect, 5 = flat. [4]Growth Habit: I = determinate bush, II = indeterminate bush, III = indeterminate vine.

CHICKPEAS

Variety	Type	Overall Yield[1]	Station Years of Testing	Agronomic Characteristics			Tolerance to Ascochyta[4]
				TSW[2] (g)	Maturity Rating[3]	Plant Height (cm)	
Varieties tested in the 2014 trials							
CDC FRONTIER (kg/ha)		**3825**					
CDC FRONTIER[1]	**Kabuli**	**100**	**29**	**364**	**L**	**44**	**F**
CDC Cabri	Desi	93*	25	324	E	46	F
CDC Corinne	Desi	113	10	248	M	48	F
CDC Cory	Desi	102	10	280	M	50	F
CDC Vanguard	Desi	93*	13	230	ML	46	F
Amit (R)	Kabuli	90*	29	269	L	45	F
CDC Alma	Kabuli	88*	14	386	ML	41	VP
CDC Leader	Kabuli	100	10	403	ML	44	F
CDC Luna	Kabuli	88*	14	377	ML	41	P
CDC Orion	Kabuli	94	14	455	ML	44	P
Previously tested varieties							
CDC Chichi	Kabuli	77	8	343	M	47	P
CDC Chico	Kabuli	87	8	251	E	46	VP
CDC Diva	Kabuli	71*	15	447	L	41	F
CDC Xena	Kabuli	72*	15	445	L	41	VP
CDC Yuma	Kabuli	73*	15	418	L	45	P
Sanford	Kabuli	69*	15	407	L	47	VP

REMARKS: Note - yield results for some varieties are not significantly different, due to limited years of testing. All four trials: Bow Island, Brooks, Lethbridge and Medicine Hat were grown in Area 1. [1] Yields are reported relative to CDC Frontier. *Seed yields are statistically significant from that of CDC Frontier at p=0.05 level. No symbol after the yield figure indicates that seed yields are statistically comparable. [2] TSW: Thousand Seed Weight (g). [3] Maturity Ratings: E = Early, M = Medium, ML = Medium Late, L = Late. [4] Tolerance to Ascochyta: VP = Very Poor, P = Poor, F = Fair.



CHICKPEAS

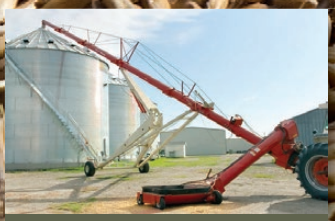
	S	F	R	C
CDC ORION				
BI: CDC, Dist: N/A				
Klempnauer, Joerg / Vauxhall / (403) 524-4705		F		
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S		R	C
CDC PALMER				
BI: CDC, Dist: N/A				
Klempnauer, Joerg / Vauxhall / (403) 524-4705	S			

www.farm-king.com

Crucial details connecting your combine to the market


Grain Vac - PTO Model


Grain Vac - Diesel Model


Backsaver Auger 10/13/16


Backsaver Auger - Feterl Original 12/14


Backsaver Auger - Feterl Original 12


Conventional Auger


Conventional Auger - Feterl Original


Drive-over Hopper


Utility Auger / Unloading Auger


Rollermill / Hammermill


Grain Cleaner


Grain Cart - 1060/1360

Higher input costs and tighter margins require a complete grain management system to make your operation as profitable as possible. The complete line of Farm King grain handling equipment ensures you get top dollar for your crop. With decades of grain handling experience, Farm King offers everything you need to get your grain to market after it leaves the combine.

Visit **www.farm-king.com** to find a dealer near you.

Farm King

©2015 Buhler Trading Inc. | info@buhler.com | www.farm-king.com

FABA BEANS

Variety	Overall Yield	Station Years of Testing	Type	Relative Maturity[1]	Plant Height (cm)	Thousand Seed Weight (g)	Flower Colour[2]
Varieties tested in the 2014 trials							
SNOWBIRD (KG/HA)	**7650**						
SNOWBIRD	**100**	**22**	**Zero Tannin**	**E**	**92**	**486**	**W**
Malik	97	17	Tannin	M	87	621	C
Snowdrop	86-	17	Zero Tannin	E	86	338	W
Tabasco	80-	9	Zero Tannin	M	92	374	W
FULLY TESTED VARIETIES: 2000-2007							
EARLIBIRD KG/HA[1]	**7300**						
EARLIBIRD	**100**	**16**	**Tannin**	**E**	**93**	**520**	**C**
Ben	112+	8	Tannin	E	101	580	C
CDC Blitz R †	102	14	Tannin	ML	96	460	C
CDC Fatima R †	97	14	Tannin	M	92	530	C
Cresta †	96	7	Zero Tannin	M	86	590	W
Scirocco †	106	8	Tannin	ML	89	580	C

REMARKS: All coloured flower types have seed coats that contain tannins and may be suitable for export food markets if seed size and quality match customer demand. Varieties tested for minumum three years are fully tersted. - Protected by Plant Breeders' Rights (PBR); R - Registered with CFIA. New entry - Tabasco; new name - Malik (FB9-4). Varieties removed from the table: FB18-20 and Imposa. † - Flagged for removal. [1] Maturity: E = early, M = medium, ML = medium late, L = late; [2] Flower Colour: W = white flower, zero tannin; C = coloured flower, tannin.

FABA BEANS

	S	F	R	C
CDC SNOWDROP				
BI: CDC, Dist: University of Saskatchewan				
Jonk, Nicholas / Westlock / (780) 349-5458			R	
Kittle, James William & Andrew / Viking / (780) 336-2583	S	F		
Klempnauer, Joerg / Vauxhall / (403) 524-4705	S			
Kopjar, Gerald M. / Rowley / (403) 368-2409	S			
Pare, Raymond A. / Wainwright / (780) 842-2073	S			
Sim, Darwin & Derek / Ponoka / (780) 372-2111	S		R	
Stamp Seeds / Enchant / (403) 739-2233		F	R	C
Stickland, Brian, Melvin G. & Irma / Red Deer / (403) 886-4875		F		
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617			R	
MALIK (FB 9-4)				
BI: N/A, Dist: N/A				
Stamp Seeds / Enchant / (403) 739-2233	S	F	R	C
SNOWBIRD				
BI: Innoseeds B. V., Dist: Bob Park				
Cyre, Clifford & Greg / Westlock / (780) 349-4775	S	F	R	C
Dewindt, Harry & Renee / Thorhild / (780) 398-2377				C
Ellis, Brian / Olds / (403) 556-2890				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268				C
Jackson, Thomas / Killam / (780) 385-2332				C
Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240	S		R	C
Markert Seeds Ltd. / Vulcan / (403) 485-6708	S		R	C
Shultz, Shawn / Didsbury / (403) 335-3694				C
Stamp Seeds / Enchant / (403) 739-2233				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617				C
Weigum, Garry / Three Hills / (403) 443-2476			R	C

HEMP

	S	F	R	C
CFX-2				
BI: N/A, Dist: N/A				
Hansen, Charles R. / Duchess / (403) 362-7505				C
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297				C
FINOLA				
BI: N/A, Dist: Hemp Oil Canada Inc.				
Hansen, Charles R. / Duchess / (403) 362-7505			R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
HEMPNUT				
BI: N/A, Dist: N/A				
Wiens, David Paul / Lomond / (403) 739-3762				C

Wheatcrest Est. 1906

Specializing in the production and processing of pedigreed seed.

Glenn & Marie, Douglas & Heather Logan
Box 249, Lomond, AB T0L 1G0
Phone (403) 792-3696 | Fax (403) 792-3397
www.wheatcrest.com | e-mail: seed@wheatcrest.com

SeCan Canada's Seed Partner · CSGA ACPS · FP-GENETICS · CANTERRA SEEDS

LENTILS

Market Class	Variety	Overall Yield	Station Years of Testing	Agronomic Characteristics: TSW[2] (g)	Plant Height (cm)	Maturity Rating[3]	Cotyledon Colour[4]	Seed Coat Colour[5]	Disease Tolerance[6]: Asco-chyta	Anthracnose
Varieties tested in the 2014 trials										
	CDC REDBERRY (kg/ha[1])	**2480**								
	CDC REDBERRY[1]	**100**	**27**	**43**	**36**	**E**	**R**	**GR**	**G**	**G**
Extra Small Red	CDC Impala (CL)	103	17	31	36	E	R	GR	G	G
	CDC Imperial (R, CL)	92*	20	30	36	E	R	GR/BR	G	G
	CDC Rosetown	104	20	31	38	E	R	GR	G	G
	CDC Rosie	110	8	31	37	EM	R	GR	G	G
	CDC Ruby	99	15	29	34	E	R	GR	G	G
Small Red	CDC Dazil (CL)	111	15	36	38	E-M	R	GR	G	F
	CDC Imax (CL)	110	16	45	39	E-M	R	GR	G	F
	CDC Maxim (R, CL)	114*	17	41	36	E-M	R	GR	G	G
	CDC Redcliff	118*	15	38	37	E-M	R	GR	G	F
	CDC Scarlet	125*	8	39	38	EM	R	GR	G	F
Large Red	CDC KR-1	115	12	52	41	M	R	GR	G	G
Small Green	CDC Imvincible (CL)	109	16	34	38	E	Y	G	G	G
Medium Green	CDC Imigreen (CL)	89	12	59	45	M	Y	G	G	VP
	CDC Impress (R, CL)	97	12	51	39	M	Y	G	G	P
Large Green	CDC Greenland (R)	98	12	64	39	M-L	Y	G	G	VP
	CDC Impower (CL)	98	12	68	43	ML	Y	G	G	VP
	CDC Improve (R, CL)	100	12	71	41	M	Y	G	F	VP
Previously tested varieties										
Extra Small Red	CDC Robin (R)	87*	15	28	34	E	R	BR	G	G
	CDC Redbow	104	12	32	35	E	R	GR	G	G
	CDC Rosebud	100	12	30	35	E	R	T	G	G
Small Red	CDC Blaze (R)	85*	10	38	30	E-M	R	GR	G	P
	CDC Cherie	108	3	41	35	E-M	R	G	G	F
	CDC Impact (R, CL)	84*	8	36	37	E	R	GR	G	P
	CDC Redcoat	100	12	42	35	E	R	GR	G	G
	CDC Rouleau (R)	106	5	37	37	M	R	GR	G	G
	Crimson (R)	75	10	39	27	E	Y	BR	VP	VP
Small Green	CDC Milestone (R)	101	18	39	32	E	Y	G	G	VP
	CDC Viceroy (R)	107	13	35	33	E	Y	G	G	G
	Eston (R)	89	5	34	35	E	Y	G	VP	VP
French Green	CDC Peridot (CL)	116	1	37	XX	E	Y	MRB	F	P
Spanish Brown	Pardina	106	1	40	XX	X	Y	GR/DT	VP	VP

REMARKS: Weight, diameter and thickness of lentil seeds were dependent upon environmental conditions and agronomic factors. Note: Yield results for the new varieties (2014) are significantly comparable, due to limited years of testing. All five trials: Bow Island, Brooks, Lethbridge, Medicine Hat and Oyen were grown in Area 1. R = Registered with CFIA; CL= Clearfield variety; XX = No data. [1] Yields are reported relative to CDC Redberry. CDC Redberry belongs to Small Red Market Class. *Seed yields are statistically significant from that of CDC Redberry at p=0.05 level. No symbol after the yield figure indicates that there is no statistical difference. [2] Thousand Seed Weight: g; [3] Maturity: E = Early, M = Medium, L = Late, VL = Very Late. [4] Cotyledon colour: R = Red, Y = Yellow, G = Green; [5] Seed Coat colour/Patterns: G = Green, GR = Grey, BR = Brown, FG = French Green, T = Tan, MRB = Marbled, DT = Dotted; [6] Disease tolerance: VP = Very Poor, P = Poor, F = Fair and G = Good.

LENTILS

	S	F	R	C
CDC DAZIL				
BI: CDC, Dist: BASF				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	
CDC GREENSTAR				
BI: CDC, Dist: University of Saskatchewan				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900		F		
CDC IMAX				
BI: CDC, Dist: University of Saskatchewan				
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338				C
CDC IMPULSE				
BI: CDC, Dist: Saskatchewan Pulse Growers				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			
CDC MARBLE				
BI: CDC, Dist: University of Saskatchewan				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900	S			

CAMELINA

	S	F	R	C
MIDAS				
BI: AAFC, Dist: Linnaeus Plant Sciences Inc.				
McNaughton, Brian / Lethbridge / (403) 308-9914		F		

MUSTARD

	S	F	R	C
AC Pennant				
BI:N/A, Dist: Saskatoon Research Centre				
Proven Seed / CPS (Canada) Inc / High River / (306) 531-7054				C
AC VULCAN				
BI: N/A, Dist: Saskatoon Research Centre				
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297*		F		C
ANDANTE				
BI: N/A, Dist: Saskatoon Research Centre				
Proven Seed / CPS (Canada) Inc / High River / (306) 531-7054				C
CENTENNIAL				
BI: N/A, Dist: Saskatoon Research Centre				
Proven Seed / CPS (Canada) Inc / High River / (306) 531-7054				C
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297		F		C
Cutlass				
BI:N/A, Dist: Saskatoon Research Centre				
Proven Seed / CPS (Canada) Inc / High River / (306) 531-7054				C

GALLOWAY SEEDS LTD.

Certified Seed YOU'RE PLANTING SUCCESS

Producers & Processors of Seed, Grain & Oilseeds

54174 Range Rd. 225
Fort Saskatchewan, Alberta T8L 3Z9
E-Mail: gallseed@gallowayseeds.com

Bus. (780) 998-3036
Fax (780) 998-1288

Many Varieties of Certified Cereal Grain, Oilseeds, Field Peas, and Faba Beans including:

- Roundup Ready® and Liberty Link®
- AC Foremost, CDC Utmost VB, Stettler, Harvest Wheat, AAC Redwater, CDC Plentiful and Muchmore Wheat
- Limerick Peas
- Snowbird Faba Beans
- AC Metcalfe, CDC Copeland, CDC Coalitian and CDC Austenson Barley, Thompson

A Canadian Seed Growers' Association Member since 1946
All Canola pre-treated
Treating of Cereal seeds and Faba Beans
Inoculation of Peas available

DEKALB CANTERRA SEEDS SeCan FPGenetics

IT'S ALL ABOUT THE SEED

You wouldn't consider using uncertain pedigree on multiplying your herd, so why would you use common seed as the basis for your crop?

Great producers recognize the value of good genetics when it comes to producing superior cattle; it's the same for a superior crop. What you put in is what you get out. Choose the best genetics to start your next crop.

CHOOSE CERTIFIED BLUE TAG SEED.

Certified Seed YOU'RE PLANTING SUCCESS

For All Your Seed Cleaning, Colour Sorting & Treating Needs

Three Hills & District Seed Cleaning Plant Ltd.

Manager: Greg Andrews

PO Box 1235,
Three Hills, AB, T0M 2A0

Toll Free: (866) 443-5464
Ph: (403) 443-5464
Fax: (403) 443-5450

thscp@telusplanet.net

VICTOOR Seed Farm Inc.

Certified Seed

26514A Twp Rd 534
Sturgeon County, Alberta
T8T 1K3

Rene (780) 459-3253
Jamie (780) 914-6027

FIELD PEAS - GREEN

Variety	South		East Central		West Central		Peace		Total Site Years	Overall Yield (%)	Agronomic Characteristics			
	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)			Maturity Rating[1]	Vine Length (cm)	TSW[2] (g)	Standability[3] (1-9)
Varieties tested in the 2014 trials (Relative Yield as % of CDC PATRICK)														
CDC PATRICK (kg/ha)		**4291**		**4511**		**6323**		**4305**		**4727**				
CDC PATRICK	**25**	**100**	**31**	**100**	**16**	**100**	**38**	**100**	**110**	**100**	**M**	**79**	**186**	**4.4**
CDC Limerick	9	106	14	105+	6	100	15	98	51	101	L	77	208	3.4
Greenwater (A)	5	101	4	106	3	109	5	97	17	102	L	72	219	2.2
MP1867 (A)	5	91	4	93	3	79-	11	86-	23	87-	M	78	208	3.8
Fully Tested Varieties (Relative Yield as % of CDC PATRICK)														
CDC Pluto	14	100	14	94	5	91	19	96	52	96-	M	82	170	6
CDC Raezer	14	95	14	116+	5	103	19	104	52	105	M	89	227	4.2
CDC Tetris	14	104	14	111+	5	98	19	106	52	106	L	91	215	4.4
Fully Tested Varieties (Relative Yield as % of COOPER: 2004-2012)														
COOPER (kg/ha)		**4111**		**3843**		**5979**		**4793**		**4609**				
COOPER ♦		**100**		**100**		**100**		**100**		**100**	**L**	**75**	**270**	**3.5**
CDC Sage	5	79-	8	83-	8	81-	15	85-	36	82	M	72	198	3.1
CDC Striker	5	96	12	108	5	104	22	95-	44	100	M	70	253	2.9
Mendel ♦	6	85-	11	95	4	92	17	90-	38	91	M	78	205	3.9

REMARKS: CDC Tetris is an Espace type with blocky seed shape; A = First year entries (2014). ♦ = Protected by Plant Breeder's Rights (PBR); XX = No data available; † = Flagged for removal. [1] Maturity: E = Early, M = Medium, L = Late; [2] Thousand Seed Weight: g; [3] Standability: 1 = Erect, 9 = Flat; [4] Tolerance 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%).

Haralie Seed Farms

Producers & Processors of Pedigreed Seed

Harold and Natalie Warkentin
Tofield
Phone & Fax: (780) 662-2617
Cell: (780) 405-8089

- Wheat - AAC Redwater, AC **Shaw** VB, Stetter
- Barley - CDC Austenson, Chigwell, Gadsby, Maverick, Amisk
- Oats - AC Morgan, CDC Haymaker, Murphy
- Canola - Fusion, Rugby - All BrettYoung Varieties
- Peas - CDC Horizon, CDC Meadow, CDC Patrick, **CDC Saffron**
- Fababeans - Snowbird, CDC Snowdrop, Tabasco
- Grass & Forages - All BrettYoung Varieties

SeCan Canada's Seed Partner
BrettYoung
ASGA Alberta Seed Growers' Association

Select Growers & Seed Processors

Westway Farms Ltd.

Telephone: 403-335-4929
Email: westway@airenet.com

- STETTLER
- CDC COPELAND
- CDC MEADOW PEAS
- AC FOREMOST
- AC METCALFE
- CDC KINDERSLEY
- AAC REDWATER
- CDC HAYMAKER
- AAC RYLEY

Tom & Carol Hadway & Family
P.O. Box 544, Didsbury, Alberta T0M 0W0

WITDOUCK FARMS
WITDOUCKFARMS.COM

PRODUCERS & RETAILERS OF PEDIGREED SEED
CUSTOM POLLINATORS FOR CANOLA & ALFALFA SEED

Dale Witdouck
Iron Springs, Alberta

Office: (403) 738-4395
Email: dale@witdouckfarms.com
www.witdouckfarms.com

ECHO RIDGE SEEDS

Derwin and Kirby Massey

SeCan Canada's Seed Partner
FP·GENETICS

Box 534
Stettler, AB T0C 2L0

Tel: (403) 883-2503
Fax: (403) 883-2800
Cell: (403) 741-6464
E-mail: djmassey@xplornet.com

FIELD PEAS - GREEN — *CONT.*

Variety	Tolerance to:[4] Powdery Mildew	Mycosphaerella Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling[5]
Varieties tested in the 2014 trials (Relative Yield as % of CDC PATRICK)						
CDC PATRICK (kg/ha)						
CDC PATRICK	**VG**	**F**	**G**	**G**	**G**	**G**
CDC Limerick	VG	F	F	G	VG	G
Greenwater (A)	VG	F	G	G	F	F
MP1867 (A)	VG	F	F	G	G	G
Fully Tested Varieties (Relative Yield as % of CDC PATRICK)						
CDC Pluto	VG	F	F	G	G	G
CDC Raezer	VG	F	G	G	G	G
CDC Tetris	VG	F	G	G	G	G
Fully Tested Varieties (Relative Yield as % of COOPER: 2004-2012)						
COOPER (kg/ha)						
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

FIELD PEAS - YELLOW

Variety	South		East Central		West Central		Peace		Total Site Years	Overall Yield (%)	Agronomic Characteristics			
	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)			Maturity Rating[1]	Vine Length (cm)	TSW[2] (g)	Standability[3] (1-9)
VARIETIES TESTED IN THE 2014 TRIALS (RELATIVE YIELD AS % OF CDC MEADOW)														
CDC MEADOW (kg/ha)		**3748**		**4555**		**6350**		**5198**		**4904**				
CDC MEADOW	**26**	**100**	**33**	**100**	**19**	**100**	**40**	**100**	**118**	**100**	**E**	**82**	**209**	**3.6**
AAC Lacombe ▲	9	116+	9	105	5	115	10	111+	33	112+	M	80	251	2.8
AAC Peace River	9	97	9	92	5	92	10	100	33	96	VE	74	211	4.7
Abarth ▲	13	106	14	103	8	101	14	99	49	102	M	77	249	3.6
CDC Amarillo	13	106	14	99	8	115+	14	105+	49	105+	M	83	221	2.9
CM3404 (A)	5	105	4	89	3	96	5	101	17	99	M	79	261	3
LN4228 (A)	5	101	4	96	3	93	5	92	17	96	M	70	242	1.8
FULLY TESTED VARIETIES (RELATIVE YIELD AS % OF CDC MEADOW)														
CDC Saffron	13	108	14	101	4	100	16	101	47	103	M	84	236	4.3
Hugo	11	102	14	83-	5	90	17	96	47	93-	M	73	210	5.2
Stella NR F	11	76-	14	80-	5	83-	15	81-	45	80-	M	95	213	3.9
FULLY TESTED VARIETIES (RELATIVE YIELD AS % OF CUTLASS: 2003-2011)														
CUTLASS (kg/ha)		**3243**		**3485**		**5665**		**4684**		**4292**				
CUTLASS	**26**	**100**	**38**	**100**	**25**	**100**	**61**	**100**	**151**	**100**	**M**	**71**	**228**	**4**
Agassiz	6	100	11	102	9	102	20	104	46	103	M	77	236	2.9
Argus	7	100	9	114+	3	103	14	101	33	105+	M	89	227	4.1
CDC Centennial	5	101	12	99	9	104	14	100	40	101	E	61	259	4.8
CDC Hornet	10	101	12	116+	6	110	15	103	43	107+	M	89	215	3.7
CDC Prosper NR	6	93	12	97	8	97	19	98	45	97-	E	73	149	4
CDC Treasure NR	6	96	12	105	8	98	19	100	45	101	E	81	217	3.5
DS-Admiral	13	97	18	108	13	98	24	104	69	102	M	68	246	3.1
Eclipse	17	103	27	103	20	99	33	103	98	102	M	64	255	3.2
Polstead	5	97	12	99	9	99	16	104	42	101	E	62	262	3.7
Reward	5	86	12	106	9	102	13	101	39	101	M	76	248	2.5
SW Midas	10	103	17	106	11	91-	21	99	59	100	E	65	213	3.1
Thunderbird	6	89	11	96	9	99	14	99	40	97	M	76	229	2.1
FULLY TESTED VARIETIES (RELATIVE YIELD AS % OF CARRERA: 2000-2005)														
CARRERA (kg/ha)		**2593**		**2926**		**5098**		**3986**		**3677**				
CARRERA	**14**	**100**	**28**	**100**	**15**	**100**	**33**	**100**	**96**	**100**	**E**	**53**	**257**	**4.6**
CDC Bronco	11	91	14	102	8	94	15	117	49	102	M	63	218	4.1
CDC Golden	11	101	14	105	8	102	15	109	49	105	M	68	224	3.4
CDC Minuet	12	97	26	100	11	92	22	111	76	102	M	64	192	4.9
CDC Mozart	8	108	17	100	7	97	14	105	48	103	M	62	241	5.9

REMARKS: Stella is a silage type pea. = Protected by Plant Breeder's Rights (PBR). ▲= Applied for PBR protection. A = First year entries (2014). NR = Variety not registered with CFIA. F = Forage type. XX = No data available. [1] Maturity: E = early, M = medium, L = Late; [2] Thousand Seed Weight: g; [3] Standability: 1 = erect, 9 = flat; [4] Tolerance 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

	S	F	R	C
AAC BARRHEAD				
BI: AAFC, Dist: N/A				
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595	S			
AAC LACOMBE				
BI: AAFC, Dist: AAFC				
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338	S			
Markert Seeds Ltd. / Vulcan / (403) 485-6708	S	F		
Stamp Seeds / Enchant / (403) 739-2233	S			
Van Roessel, William & Jean / Bow Island / (403) 545-6018	S			
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			
AAC PEACE RIVER				
BI: AAFC, Dist: FP Genetics				
Hadland, Edward / Baldonnel / (250) 789-3646				C
ABARTH				
BI: Limagrain, Dist: FP Genetics				
Dalton, Dennis / Wainwright / (780) 842-2361		F	R	
Massey, Derwin / Stettler / (403) 883-2503			R	
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251			R	
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
CDC AMARILLO				
BI: CDC, Dist: University of Saskatchewan				
Hoff, Peter Edward / Gleichen / (403) 734-2140	S			
Limoges, Richard / McLennan / (780) 324-2335			R	
Pare, Raymond A. / Wainwright / (780) 842-2073	S			
Penwest Seeds / Three Hills / (403) 443-7212		F		
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358	S			
Van Roessel, William & Jean / Bow Island / (403) 545-6018		F	R	
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S			
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			
CDC CENTENNIAL				
BI: CDC, Dist: University of Saskatchewan				
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297				C
CDC DAKOTA				
BI: CDC, Dist: University of Saskatchewan				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900		F		
Klempnauer, Joerg / Vauxhall / (403) 524-4705			R	
CDC GOLDEN				
BI: CDC, Dist: University of Saskatchewan				
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383				C
CDC GREENWATER				
BI: CDC, Dist: N/A				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900	S			
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929	S			
Hoff, Peter Edward / Gleichen / (403) 734-2140	S			
Jonk, Nicholas / Westlock / (780) 349-5458		F		
Knight, William, Craig & Brian / Tees / (403) 784-3633	S			
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358	S			

FIELD PEAS - YELLOW — *CONT.*

Variety	Tolerance to[4] Powdery Mildew	Mycosphaerella Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling[5]	Green Seed Coat[6]
VARIETIES TESTED IN THE 2014 TRIALS (RELATIVE YIELD AS % OF CDC MEADOW)						
CDC MEADOW (kg/ha)						
CDC MEADOW	**VG**	**F**	**F**	**G**	**G**	**G**
AAC Lacombe ▲	VG	F	P	G	F	G
AAC Peace River	VG	F	F	F	G	G
Abarth ▲	VG	F	F	F	G	G
CDC Amarillo	VG	F	G	F	F	G
CM3404 (A)	VG	F	F	F	XX	XX
LN4228 (A)	VG	F	F	F	F	G
FULLY TESTED VARIETIES (RELATIVE YIELD AS % OF CDC MEADOW)						
CDC Saffron	VG	F	F	G	F	G
Hugo	VG	F	F	G	F	F
Stella NR F	VG	F	F	G	G	F
FULLY TESTED VARIETIES (RELATIVE YIELD AS % OF CUTLASS: 2003-2011)						
CUTLASS (kg/ha)						
CUTLASS	**VG**	**F**	**F**	**F**	**F**	**G**
Agassiz	VG	F	F	G	VG	G
Argus	VG	F	F	F	F	G
CDC Centennial	VG	F	G	G	G	F
CDC Hornet	VG	F	F	F	F	G
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 Minuet	VG	F	F	F	G	F
CDC Mozart	VG	F	F	G	G	F

Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535	S			
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			
CDC HORIZON				
BI: CDC, Dist: University of Saskatchewan				
Foster, Norman R. / Beaverlodge / (780) 354-2107				C
Hadland, Edward / Baldonnel / (250) 789-3646			R	
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617*		F	R	
CDC HORNET				
BI: CDC, Dist: University of Saskatchewan				
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358		F		
CDC LEROY				
BI: CDC, Dist: University of Saskatchewan				
Klempnauer, Joerg / Vauxhall / (403) 524-4705			R	
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				C
CDC LIMERICK				
BI: CDC, Dist: University of Saskatchewan				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900	S			
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036			R	
Hoff, Peter Edward / Gleichen / (403) 734-2140	S			
Kopjar, Gerald M. / Rowley / (403) 368-2409	S			
Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240	S	F	R	
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868			R	
Shultz, Shawn / Didsbury / (403) 335-3694			R	
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535			R	
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F		
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	

CDC MEADOW				
BI: CDC, Dist: University of Saskatchewan				
Airth, Jock & Linda / Brooks / (403) 362-4372				C
Benci, Dennis / Carmangay / (403) 643-2294			R	
Bouw, Curtis / Bow Island / (403) 545-0007				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Davidson, E.Daryl & Dean / Kitscoty / (780) 846-2456			R	C
Hadland, Edward / Baldonnel / (250) 789-3646	S	F		
Haney Farms / Picture Butte / (403) 738-4517				C
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268				C
Hartzler, Leonard / Carstairs / (403) 337-2416				C
Hoff, Peter Edward / Gleichen / (403) 734-2140				C
Jackson, Thomas / Killam / (780) 385-2332				C
Jacula, Dean S. & Shawn D. / Vermilion / (780) 853-7333				C
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338			R	
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330			R	C
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500				C
Limoges, Richard / McLennan / (780) 324-2335				C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696				C
MacFarquhar, Bill / Cremona / (403) 337-2910				C
Markert Seeds Ltd. / Vulcan / (403) 485-6708				C
Massey, Derwin / Stettler / (403) 883-2503			R	
Mastin, Robert B. / Sundre / (403) 556-2609	S	F		

Mueller, Darcy / Three Hills / (403) 823-9788				C
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595				C
Nemetz, Charlie & Jerritt & Lewis & Brandon / Stettler / (403) 742-0436				C
Page, Dan / Didsbury / (403) 335-4563				C
Pare, Raymond A. / Wainwright / (780) 842-2073		F	R	
Penwest Seeds / Three Hills / (403) 443-7212			R	C
Radke, Bryan Victor / Barrhead / (780) 674-5715			R	
Richard, Gerald / Spirit River / (780) 864-3716				C
Richards, Cliff & Dan / Sexsmith / (780) 766-2266				C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
Shultz, Shawn / Didsbury / (403) 335-3694			R	
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				C
Svanes, Ronald J. / Picture Butte / (403) 317-0981				C
Tomlinson, Chelsea / Redwater / (780) 777-5885				C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617*		F	R	
Weigum, Garry / Three Hills / (403) 443-2476				C
Welsh, Donald Alan / Milk River / (403) 647-2228				C
CDC PATRICK				
BI: CDC, Dist: University of Saskatchewan				
Howard, Fred / Wanham / (780) 694-2427				C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330			R	
Penwest Seeds / Three Hills / (403) 443-7212			R	C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
Shultz, Shawn / Didsbury / (403) 335-3694				C
Sich, Louis John & Ivan & Martin / Trochu / (403) 442-2112			R	C
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S	F		
CDC PLUTO				
BI: CDC, Dist: University of Saskatchewan				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900		F		
Hunter, Tom				C
Stamp Seeds / Enchant / (403) 739-2233				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
CDC RAEZER				
BI: CDC, Dist: University of Saskatchewan				
Dewindt, Harry & Renee / Thorhild / (780) 398-2377				C
Kapitski, Lawrence / Andrew / (780) 365-2134			R	C
King, Harold & Webb, David Gordon / Three Hills / (403) 443-7330			R	
Knight, William, Craig & Brian / Tees / (403) 784-3633	S			
Krywko, Edward William & Ron / Morinville / (780) 939-2166	S			
Krywko, Ronald / Sturgeon County / (780) 459-8224			R	
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500	S	F		
Sayer, Roger / Carstairs / (403) 337-5847				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322		F		C
Sim, Darwin & Derek / Ponoka / (780) 372-2111	S	F		C
Stickland, Brian, Melvin G. & Irma / Red Deer / (403) 886-4875	S			
Zwack, Thomas / Daysland / (780) 374-2450				C

CDC SAFFRON				
BI: CDC, Dist: University of Saskatchewan				
Benci, Dennis / Carmangay / (403) 643-2294				C
Bouw, Joe P. / Bow Island / (403) 545-2871			R	
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900	S		R	
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338	S		R	
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500	S		R	
Markert Seeds Ltd. / Vulcan / (403) 485-6708	S	F		C
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 308-2297			R	C
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				C
Stamp Seeds / Enchant / (403) 739-2233			R	
Svanes, Ronald J. / Picture Butte / (403) 317-0981				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F	R	
Welsh, Donald Alan / Milk River / (403) 647-2228				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
CDC STRIKER				
BI: CDC, Dist: N/A				
Sim, Darwin & Derek / Ponoka / (780) 372-2111	S			
CDC TETRIS				
BI: CDC, Dist: University of Saskatchewan				
Hegland, David Olaf / Wembley / (780) 766-2450				C
McDonald, Gerald / Co. Of Grande Prairie #1 / (780) 538-3868				C
Mueller, Darcy / Three Hills / (403) 823-9788				C
Mueller, Richard J. & R.R. & Rosemary / Barrhead / (780) 674-2595	S	F	R	
Rewerts, Ken / Fairview / (780) 835-3474			R	C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322			R	
Zwack, Bryan / Daysland / (780) 374-3577			R	
COOPER				
BI: Cebeco Zaden, Dist: Canterra Seeds				
Cyre, Clifford & Greg / Westlock / (780) 349-4775	S	F		C
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Plante, Jacques / St. Paul / (780) 645-4604				C
LN4228				
BI: N/A, Dist: Lindholm Seed Farm				
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240	S			
REDBAT 8				
BI: N/A, Dist: N/A				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S	F		
THUNDERBIRD				
BI: AAFC (Lacombe), Dist: Canterra Seeds				
Jonk, Nicholas / Westlock / (780) 349-5458				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322*		F	R	C

Producers in areas where *f. graminearum* is present: employ Best Management Practices that include the use of diverse rotational crops, irrigation scheduling, seed and foliar fungicide applications, composted manure, disease-tolerant wheat and barley varieties, and testing seed for the presence of *f. graminearum*.

ASSOCIATION OF ALBERTA CO-OP SEED CLEANING PLANTS

SOYBEANS

Variety	Type	Overall Yield[1]	Station Years of Testing	Agronomic Characteristics: Days to Flowering	Pod Height[2]	Plant Height (cm)	Days to Maturity[3]	TSW[4] (g)	Seed Per Pound
Varieties tested in the 2013 - 2014 trials									
NSC Warren (kg/ha[1])		**2813**							
NSC Warren	**RR**	**100**	**11**	**56**	**12**	**61**	**122**	**115**	**3948**
900Y61	RR	86*	11	58	12	56	122	147	3088
Akras	RR2Y	115*	11	60	17	62	123	134	3388
CFS13.2.01 (A)	RR2Y	105	6	56	15	66	127	115	3948
Hero	RR2Y	104	11	56	13	64	123	137	3314
McLeod	RR2Y	108*	11	59	15	66	121	151	3007
NSC Moosomin	RR2Y	94	11	56	11	49	115	138	3290
NSC Reston	RR2Y	102	11	57	13	58	118	129	3519
NSC Tilston (A)	RR2Y	108	6	53	13	65	122	126	3603
P001T34	RR	74*	11	57	9	45	109	137	3314
P002T04 (A)	RR2Y	96	6	53	9	55	117	123	3691
Pekko	RR2Y	99	11	59	15	64	121	128	3547
PH14001 (A)	RR2Y	97	6	55	10	52	121	139	3266
PH14002 (A)	RR2Y	104	6	54	10	56	126	142	3197
PH14003 (A)	RR2Y	83*	6	55	9	55	123	121	3752
Sampsa	RR2Y	99	11	59	13	60	124	141	3220
TH32004	RR2Y	101	11	58	13	61	122	131	3466
TH33003	RR2Y	105	11	56	15	65	121	133	3414
TH33005	RR2Y	79	11	59	14	61	125	133	3414
TH35002 (A)	RR2Y	85*	6	57	11	61	126	128	3547
Vito	RR2Y	90*	11	56	12	71	121	132	3439

REMARKS: Straight combining is commonly used method of harvest. Swathing soybean can result in excessive field losses (up to 25%) due to shattering. Approximately four beans or one to two pods per square foot represent a yield loss of "one bushel" per acre. New names: Akras (CFS12.3.02) and Hero (SC2380). Varieties removed from the table: 900Y71, CFS13.2.02 and TH29002. A - first year entries (2014). [1] Yields are reported relative to NSC Warren. *Indicates that seed yields are statistically significant from that of NSC Warren. No symbol after the yield figure indicates that there is no statistical difference. [2] Distance from the ground level to lowest pod. [3] Maturity - average days for the Brooks, Bow Island and Medicine Hat trials. [4] TSW: Thousand Seed Weight, g.

SOYBEANS

	S	F	R	C
NSC MOOSOMIN RR2Y				
BI: Northstar Genetics, Dist: Northstar Genetics				
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
TH33003R2Y				
BI: N/A, Dist: Quarry Seed				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				C

Thompson Family Seed Farms
Select Seed Growers and Processors

36078 Range Road 24
Red Deer County, AB
T4G 0J9

Ellwood: 403-728-3131
Kelly: 403-728-3858

FAX: 403-728-3136 / 403-728-3303
OFFICE: 403-728-3535

SeCan
Canada's Seed Partner

FP·GENETICS

Central Peace Seed Cleaning Association Ltd.

Box 369, RYCROFT, AB T0H 3A0
Email: cpsca@abnorth.com

Curtis Boychuk
Manager
Res: 780-774-2119

Bus: 780-765-3821
Fax: 780-765-2032

New Investment Model Seeks to Increase Innovation

A new model is under discussion by Canada's cereals sector. The intention: to significantly increase investment for wheat and barley varietal development, allowing these crops to compete with others such as pulses, canola and other oilseeds.

The model calls for an increased investment by producers and increased partnerships between private companies and public entities. "'Partnerships' is a key word because this type of investment can't be funded by producers alone," says Stuart Garven of the Saskatoon-based Garven & Associates. A private management consultant that specializes in agriculture, Garven was commissioned by the consortium to develop a conceptual model says many producers want to play a strategic role in cereal innovation while creating an attractive business environment for the private sector.

"It's designed to allow breeders and the cereal value chain to transition from the current situation to a new model that makes the whole industry stronger," Garven says.

One of the core components of the model is the establishment of a not-for-profit entity that is producer owned and producer financed. Garven calls this the Grain Investment Corp or GIC, which is a hypothetical name but helps to make an abstract concept more concrete.

This entity, or GIC, would become an agent for AAFC, whereby GIC — alone or in partnership with others — would take on the role of finishing AAFC lines, registering varieties and licensing lines. The consortium, which was organized by the Alberta Seed Growers' Association, is comprised of 13 organizations, including the Alberta Barley Commission, Alberta Wheat Commission, Grain Growers of Canada, Keystone Agricultural Producers, Manitoba Seed Growers Association, Saskatchewan Seed Growers Association, Western Barley Growers Association, Western Canadian Wheat Growers and the Western Grains Research Foundation.

Buyer Beware

At the request of some of its members, the Canadian Seed Trade Association recently developed a "Buyer Beware" fact sheet for its members regarding the purchase and sale of forage and grass seed in Canada.

Titled ***Buying Grass Seed? Buyer Beware: It's the Law***, the fact sheet is designed to help seed buyers ensure that the seed they are requesting and buying is legal for use and sale in Canada. Additionally, it helps to remind individuals and companies that sell seed about Canada's law surrounding the selling of grass seed.

"Municipalities and cities often request specific varieties of grasses for parks and berms, and there's often not a lot of understanding of the Seeds Act," says Patty Townsend, CEO for CSTA. "Sometimes the municipality or city will release a tender requesting varieties that are not registered in Canada or they request varieties by name without knowing that the seed can't be sold by variety name unless it is certified. We just want them to be aware of the law when they issue tenders and make purchases."

All registered varieties are listed on CFIA's website at inspection.gc.ca/english/plaveg/variet/regvare.shtml. Interested individuals can also download CSTA's fact sheet at cdnseed.org.

Stewardship in Action

At many farms, empty seed bags often end up either in the trash or getting burned in the middle of a field. Now, there's a more environmentally responsible way to get rid of all those bags, thanks to a pilot project for the safe collection and disposal of pesticide and seed bags that's available in parts of Ontario, Quebec and the Maritimes.

The program is run by CleanFARMS, a not-for-profit organization committed to environmental stewardship through the proper management of agricultural waste. It's also supported by Canadian Seed Trade Association, which contributes financially to the pilot project and is a member of the CleanFARMS steering committee. Additional funders include CropLife Canada, the Ontario Ministry of Agriculture, Food and Rural Affairs and the Quebec Ministry of Agriculture.

Under the program, farmers bring used seed bags to collection centres set up in heavy seed bag usage areas. Farmers are asked to fill large plastic bags, available at all collection centres, with empty paper seed bags. For bulk seed, growers are urged to place a number of empty bags inside one bulk bag and return it to a collection location.

There are plans to add even more locations next year, with the goal of establishing a permanent program for pesticide and seed bag collection and disposal by 2016. "We will further expand the pilot program to approximately 200 retail locations in Ontario and Quebec, in addition to all of the major retail locations in the Maritimes in 2015," says Barry Friesen, general manager of CleanFARMS.

With everything you have invested in your business, we want to make sure only the best goes into it. Richardson Pioneer offers quality when it comes to seed selection, crop planning and agronomic support.

Contact your local Richardson Pioneer Ag Business Centre to book your seed today and continue building into the future of your farm.

Book your 2015 seed with

RICHARDSON PIONEER

RICHARDSON PIONEER

www.richardson.ca

PIONEER® FOR THE SALE AND DISTRIBUTION OF SEED IS A REGISTERED TRADE-MARK OF PIONEER HI-BRED INTERNATIONAL, INC. AND IS USED UNDER LICENSE BY THE UNAFFILIATED COMPANY RICHARDSON PIONEER LIMITED.

ALBERTA SEED GROWERS' ASSOCIATION

ALBERTA SEED GROWERS ADVERTISING IN THIS ISSUE OF *ALBERTA SEED GUIDE*.

Andrew
GLD AgVentures / 780.365.3536 / lkapitski@mcsnet.ca / 85

Barrhead
Anderson Seed Growers / 780.674.5670 / asgseed@xplornet.com / 72

Radke Pedigreed Seed Ltd. / 780.674.5715 / moosecreek@xplornet.com / 66

Rick's Pedigreed Seeds / 780.674.6713 / smueller@mcsnet.ca / 98

Bow Island
Specialty Seeds Ltd. / 403.545.6018 / will@specialtyseeds.ca / 93

Tony Crooymans & Sons / 403.545.2151 / johncrooymans@canopycanada.net / 98

Brooks
387099 Alberta Ltd. / 403.501.5420 / jmdovich@eidnet.org / 74

Airth Farms Ltd / 403.362.4372 / airthfarms@xplornet.com / 70

Didsbury
LS Land & Cattle / 403.335.3694 / stshultz@xplornet.com / 57

Westway Farms Ltd. / 403.335.4929 / westway@airenet.com / 106

Edmonton
Sendziak Seed / 780.434.1322 / sendseed@telusplanet.net / 61

Enchant
Stamp Seeds / 403.739.2233 / richard@stampseeds.com / 64

Fort Saskatchewan
Galloway Seeds Ltd. / 780.998.3036 / gallseed@gallowayseeds.com / 104

Grassy Lake
Corns Brothers Farm / 403.655.2464 / cornsbrothers@hotmail.com / 96

Halkirk
Solick Seeds / 403.884.2358 / lsolick@wildroseinternet.ca / 57

Innisfail
Thompson Family Farms Ltd. / 403.728.3535 / 111

Iron Springs
Witdouck Farms / 403.738.4395 / dale@witdouckfarms.com / 106

Killam
Holmstrom Seed Farm / 780.385.5330 / holmstromdarrell@gmail.com / 84

Lethbridge
Mercer Seeds Ltd. / 403.327.9736 / rmercer@mercerseeds.ca / 86

Lomond
Wheatcrest Farms / 403.792.3696 / wheatcrest.farms@agt.net / 102

Marwayne
All In Farm Services / 780.847.2022 / allinfarm@hmsinet.ca / 67

New Norway
Lindholm Seed Farm / 780.352.3240 / lindholmseed@xplornet.com / 98

Nobleford
Phoenix Farms / 403.824.3585 / john@phoenixfarms.ca / 61

Olds
Ellis Farms / 403.556.2890 / ellis@xplornet.com / 94

Picture Butte
Haney Farms / 403.738.4517 / shaney@realagriculture.com / 96

Redwater
True Seeds / 780.942.3423 / docmkan@hotmail.com / 63

Rivercourse
Harbin Seed Farm Ltd. / 780.745.2268 / harbin@telusplanet.net / 72

Stettler
Echo Ridge Farm Inc. / 403.741.6464 / djmassey@xplornet.com / 106

St. Albert
Victoor Seed Farm Inc. / 780.459.3253 / vsf@airsurfer.ca / 105

Taber
Chin Ridge Seeds / 403.223.3900 / kelly@chinridge.com / 76

Tees
Knight's Seed / 403.784.3633 / bgknight@platinum.ca / 66

Three Hills
King's Seed Farm Ltd. / 403.443.7330 / kingsseedfarm@gmail.com / 95

Penwest Seeds / 403.443.2577 / tanya@penwestcanada.ca / 92

Tofield
Haralie Seed Farms / 780.662.2617 / haralie@hotmail.com / 106

Viking
Kittle Farms Ltd. / 780.336.2583 / andrewkittle@hotmail.com / 85

Lefsrud Seed & Processors Ltd. / 780.336.2588 / lefsrud@telusplanet.net / 82

Vulcan
Markert Seeds Ltd. / 403.485.6708 / rmarkert@markertseeds.com / 100

Wainwright
Dalton Seed Farm / 780.842.2361 / daltonseed@mcsnet.ca / 95

Westlock
Cyre Seed Farms / 780.349.2516 / gcyre@xplornet.com / 74

Fairview
Dynamic Seeds / 780.835.5435 / dynamicseeds@xplornet.com / 93

SEED CLEANING PLANTS AND TREATING SERVICES IN YOUR COMMUNITY.

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

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

Location / ad page

Alliance Alliance Seed Cleaning Association Ltd. / 780.879.3927 / alliac@wildroseinternet.ca / www.seed.ab.ca/plants/Alliance / 82

Barrhead Barrhead District Seed Cleaning Co.op Ltd. / 780.674.2569 / barrseed@telus.net / 72

Bashaw Bashaw Seed Cleaning Co.op Association Ltd. / 780.372.3868 / bashawscp@xplornet.com / www.seed.ab.ca/plants/Bashaw / 98

Camrose Camrose County Seed Cleaning Plant / 780.672.2371 / ryarham@county.camrose.ab.ca / www.county.camrose.ab.ca / 96

Carmangay Carmangay Seed Cleaning Plant Association Ltd. / (403) 643.3656 / carseed@wildroseinternet.ca / 95

Carstairs Mountain View Seed Cleaning Plant Ltd. / 403.337.3155 / mvscpl@hotmail.com / www.seed.ab.ca/plants/MountainView / 72

Coronation Coronation Seed Cleaning Co.op Ltd. / 403.578.3810 / coroseed@xplornet.com / www.seed.ab.ca/plants/Coronation / 93

Morinville Morinville Municipal Seed Cleaning Co.op Ltd. / 780.939.4021 / mscp@telusplanet.net / www.seed.ab.ca/plants/Morinville / 93

Rycroft Central Peace Seed Cleaning Association / 780.765.3821 / cpsca@abnorth.com / www.seed.ab.ca/plants/Rycroft / 111

Sexsmith Sexsmith Co.op Seed Cleaning Association Ltd. / 780.568.3970 / sscp@telus.net / www.seed.ab.ca/plants/Sexsmith / 76

St. Paul St. Paul Municipal Seed Cleaning Association Ltd. / 780.645.3939 / ron.wirsta@stpaulseedcleaning.com / www.stpaulseedcleaning.com / 96

Three Hills Three Hills & District Seed Cleaning Plant / 403.443.5464 / thscp@telusplanet.net / www.seed.ab.ca/plants/ThreeHills / 105

Warburg Warburg Seed Cleaning Co.op Ltd. / 780.848.2365 / warscp@gmail.com / www.seed.ab.ca/plants/warburg / 64

Westlock Westlock Seed Cleaning Co.op Ltd. / 780.349.3944 / wscp@telus.net / www.seed.ab.ca/plants/Westlock / 53

Wetaskiwin Wetaskiwin Seed & Grain Co.operative Ltd. / 780.352.6212 / seedclean@incentre.net / www.seed.ab.ca/plants/Wetaskiwin / 70

New Dean Looking Ahead to Next 100 Years

Stan Blade is excited for the future of seed in Alberta and beyond.

STAN Blade is the founding CEO of Alberta Innovates Bio Solutions, and the new dean of and a full professor for the University of Alberta's Faculty of Agricultural, Life and Environmental Sciences (ALES). He recently sat down with the Alberta Seed Guide to talk about successes in the industry and what he sees for the future.

Alberta Seed Guide: **What excites you the most when you think about the Alberta seed industry over the last 100 years?**
Stan Blade: The advancements made by Alberta's seed industry over the past century are a testament to the people who work in and fuel the innovation that keeps the industry thriving. Just think about the changes of the last century. There are all kinds of other things that will come into play over the next 100 years that we can't even anticipate right now. It's unbelievable the productivity gains that have been achieved.

ASG: **You will spend a good portion of 2015 celebrating the achievements in seed that have come out of the Faculty of Agricultural, Life and Environmental Sciences, which is celebrating its 100th birthday this year. As dean, how does it feel to be leading such a prominent institution?**
SB: I'm very proud when I look across our entire faculty. When I think about the work we did at Bio Solutions, we invested very early on in Randy Weselake's work here at the U of A in phytola and oilseed genomics, which has received significant support from the major private genetics companies. [We were] making sure we were getting the pipeline full of those interesting new ideas to increase oil content, to look at other elements on digestibility of meal and those kinds of things. Now I'm here and I see the work Dean Spaner is doing with his wheat breeding program, releasing new varieties, putting together powerful rust packages. The canola program here has really been a western Canadian leader over decades. There's a reason why companies are signing on and making investments in that work.

ASG: **How does that interest on behalf of the industry translate into direct support for the faculty?**
SB: We have the highest amount of funding per faculty member of all the faculties across campus, because industry is voting with their dollars. They see we're doing important work that is going to make them more competitive and allow them to do new things they haven't been able to do in the past.

ASG: **What are some big questions you feel the industry is wrestling with at the moment as we move into 2015?**
SB: How do we handle big data? What are the new ways we can use variable rate technology? What can we do in precision farming that we didn't dream of a generation ago? Those are the interesting things I see our see industry being able to respond to because of new science being developed.

ASG: **What's a major hurdle the industry faces in the future that you think needs attention?**
SB: If you look across the world, we have seen a decrease in investments by public research agencies in the area of agronomy. If we're going to realize the extraordinary genetic potential we're developing, I think agronomy is going to be a key piece. As yields increase, if we're going to make those yields sustainable, I think we have to know how to connect genetics to agronomy and soil health. That's where we find the next level of productivity

Stan Blade is the new dean of the University of Alberta's Faculty of Agricultural, Life and Environmental Sciences (ALES).

ASG: **Can you list your major goals as dean of the faculty?**
SB: My vision for building on its success is focused on three key areas: strengthening engagement with the Government of Alberta, forging deeper partnerships with non-government agencies, and creating and executing a thoughtful and intentional communications strategy.

ASG: **I imagine the faculty's 100th birthday is a chance to do just that.**
SB: We're going to profile the success we had in our first 100 years and talk about the cool things we're looking at doing over the next 100. When we think about what's come out of this program, we have a great deal to be proud of — but we have to plan for the future as well.

BIO-FORGE WORKS
WE GUARANTEE IT!

While harsh weather crop stress is inevitable for Canadian farmers, losing yield and profit to it doesn't have to be. Bio-Forge protects your crop and helps fight through harsh growing conditions that steal yield and profit. **Guaranteed!**

Write Mother Nature her last cheque. **Learn more about Bio-Forge and the Bio-Forge Profit Guarantee by visiting www.stollerenterprises.ca/profitguarantee or call 1-855-787-4414.**

Stoller®

Bio-Forge®

ANY CROP. ANY STAGE. ANY WEATHER.

RBC Equipment PurchaseLine™

Apply once
Instant access
Lease and borrowing options built-in
Ready whenever you are

Purchase anytime with the RBC Equipment PurchaseLine™.

When you need equipment for your crop, livestock or dairy operation, time is always a factor. Now you can purchase on your terms, so you get what's right for your operation right when you need it.

Open your RBC Equipment PurchaseLine™ today.

Visit rbc.com/agriequipment or call 1-855-561-6723.

RBC®

®/™Trademark(s) of Royal Bank of Canada. RBC and Royal Bank are registered trademarks of Royal Bank of Canada.