

SASKATCHEWAN SEED GUIDE 2020



Saskatchewan Seed Growers' Association

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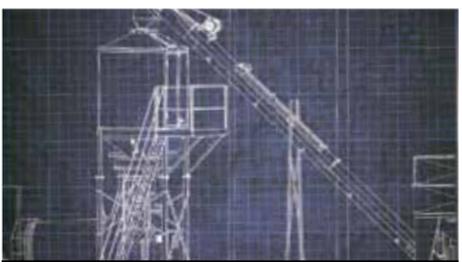
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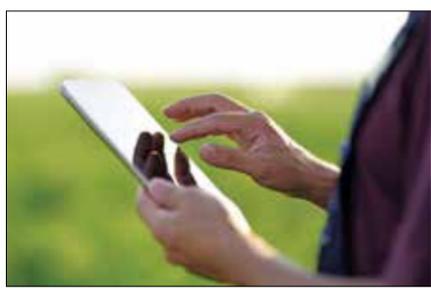
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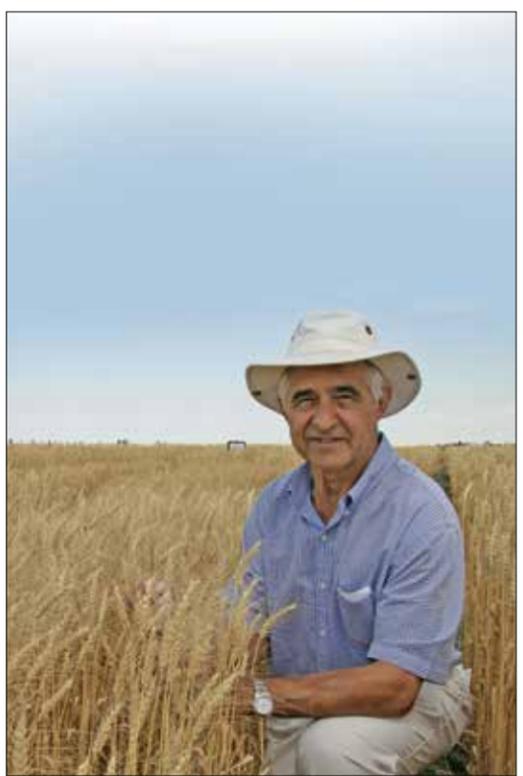
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PUBLISHER: Rod Delahay, PAg
MANAGING EDITOR: Michael Raine, PAg (Hon)
EDITOR: Brian Cross
CREATIVE DIRECTOR: Michelle Houlden
DIRECTOR OF SALES OPERATIONS: Shauna Brand
PRODUCTION DIRECTOR: Robert Magnell
VP MARKETING: Carla Vipond
COVER PHOTO: Michael Raine/Western Producer

EDITORIAL: 306-665-3544
 Editorial fax: 306-934-2401
newsroom@producer.com

ADVERTISING: 1-800-667-7776
 Advertising fax: 306-653-8750
advertising@producer.com
NATIONAL SALES: Lisa Graham / Denise Bott
 113 - 355 Elmira Road, N.
 Guelph, Ontario N1K 1S5
 Tel: 519-836-4072 Fax: 519-836-2499

SUBSCRIPTIONS: 1-800-667-6929
 Subscription fax: 306-244-9445
subscriptions@producer.com

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PRESIDENT'S MESSAGE



SHAWN FRASER
SSGA PRESIDENT

Too dry, too wet, too hot, too cold — 2019 was a year full of challenges. Having choice of varieties has never been so important.

The Saskatchewan Seed Growers' Association is pleased to present the 2020 *Saskatchewan Seed Guide*.

We hope you find the articles and variety trial data timely and informative.

Please note the yellow section which provides comparative data from the Saskatchewan Variety Trials, collected at numerous sites across Saskatchewan.

The Saskatchewan Seed Growers' Association is proud to contribute funding to this project as these trials are a very valuable source of information for producers and seed growers when trying to figure out what variety is best for their area and particular need.

Without the trial data, deciding on what variety to invest in next would be riskier and more like picking a straw out of a haystack than an educated decision.

Value creation has been a hot topic over the last year.

However, value creation is not a new topic.

Talks started over 10 years ago by producer groups, government officials, and associations throughout the value chain.

It was recognized then that the current funding model was not sustainable. Over this time, there have been numerous government cutbacks and inflation keeps rising.

Plant breeders require long-term funding to run successful programs.

A study at the University of Saskatchewan showed for every dollar we invest in plant breeding, producers receive a \$7 return.

We may not all agree on value creation or whether a trailing royalty, end point royalty, or increased levy model is the best way to invest more money in plant breeding. But I think we all can agree that public plant breeding programs have served us well and have made producers more competitive and therefore more profitable.

I believe if we do not increase our investment in plant breeding that our public plant breeders will not remain competitive, which means producers will not be as competitive as well.

I encourage all producers and seed growers to engage. Learn the facts. Determine what model is the best for you and express your opinion.

The government will make a decision. It is up to you to be informed and engage yourself in the discussion to help influence that decision.

The Saskatchewan Seed Growers' Association is developing a digital interactive Seed Guide for 2020 that will enable producers to search for certain varieties or search for a list of traits that are important to their particular farm. This will be available on www.saskseed.ca in the future.

Your local pedigreed seed growers have a wealth of knowledge when it comes to new varieties. Contact them to help determine what variety is best for your farm.

The Saskatchewan Seed Growers wish you a blessed 2020 growing season.

I think we all can agree that public plant breeding programs have served us well and have made producers more competitive and therefore more profitable.



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SEED GUIDE LAUNCHES INTERACTIVE PLATFORM

SPECIAL TO SASKSEED

The *Saskatchewan Seed Guide* — one of the province's most valued sources of information on pedigreed seed and varietal performance — is entering a new era.

Beginning in early 2020, the Seed Guide will be available in a new electronic format that offers improved functionality and better access to varietal information.

Laurie Hayes, executive director of the Saskatchewan Seed Growers Association (SSGA), says the new interactive Seed Guide is currently being developed and should be fully operational in early 2020.

"Currently, the only way that people can get information about seed varieties from the variety trials is through the Varieties of Grain Crops section of the Saskatchewan Seed Guide," Hayes said.

"But in this increasingly electronic world, growers are looking for faster and easier ways to access that information and they want to be able to do it off their cell phones."

"So, we will be developing... a (web-based) Seed Guide that is mobile friendly and uses all the information that is currently in the Seed Guide, and offers improved access...."

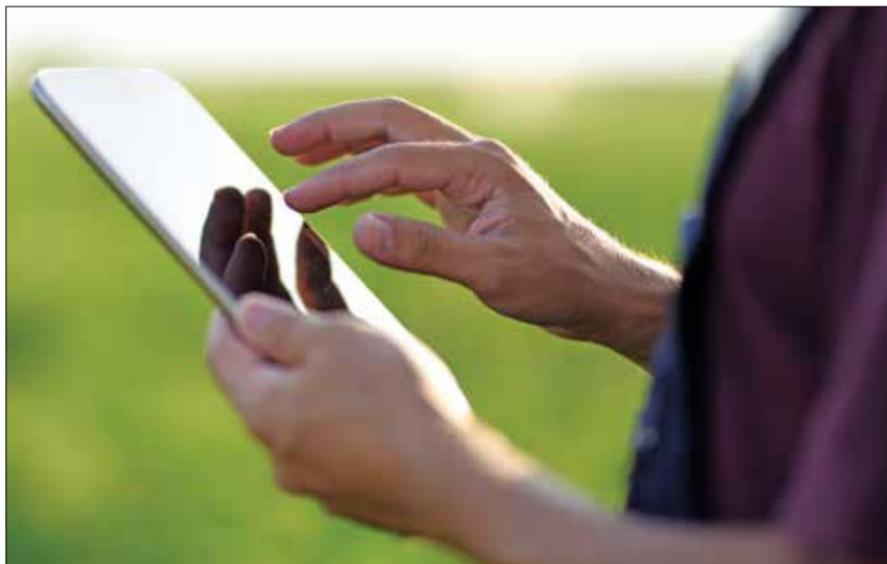
The development of an interactive Seed Guide is part of a larger initiative that will also include the development of a new SSGA website and the creation of a new SSGA logo.

The SSGA will continue to publish its annual Seed Guide — also known as SaskSeed — in the traditional printed format.

Hayes said the interactive component of the new electronic Seed Guide is an exciting development that will give commercial grain growers access to a wide range of variety performance data and help them to select a variety that is best suited for their farms.

Using a cell phone, tablet or desktop computer, growers will be able to compare the performance of different seed varieties by selecting criteria that are most relevant to them.

For example, growers will be able to indicate the crop type they are planning to grow — for example CWRS wheat — and the select agronomic characteristics that are most important to them — such as midge tolerance, resistance to certain



Using a cellphone, tablet or desktop computer, growers will be able to compare the performance of different seed varieties by selecting criteria that's most relevant to them. | GETTY IMAGE

diseases and sprout tolerance. They will also be able to select an area based on the location of their farm.

Once the grower has entered his or her preferences, the interactive Seed Guide will return a list of CWRS wheat varieties that match the selected criteria.

When the grower chooses a preferred variety or varieties from the list generated, he or she will also be able to source pedigreed seed for that variety using the program's interactive seed locator function.

Work on the new interactive Seed Guide and SSGA website will occur over the next few months.

A launch date for the new SSGA website and interactive Seed Guide has been tentatively set for the spring of 2020.

The electronic Seed Guide will have full access to all of the information currently contained in the Varieties of Grain Crops section of the Saskatchewan Seed Guide (the yellow section).

"We're looking to develop something that allows producers to get the information that they need on their phones, quickly and easily," Hayes said.

"It will be kind of like a filterable table.

You just plug in your criteria, hit enter and the information appears."

The need for the new website and electronic Seed Guide has been an issue of discussion among SSGA board members for the past year or so.

Board members felt the existing SSGA website offered limited functionality and needed a new, fresher look, Hayes said.

The association also hopes to increase its visibility on social media platforms, including Twitter.

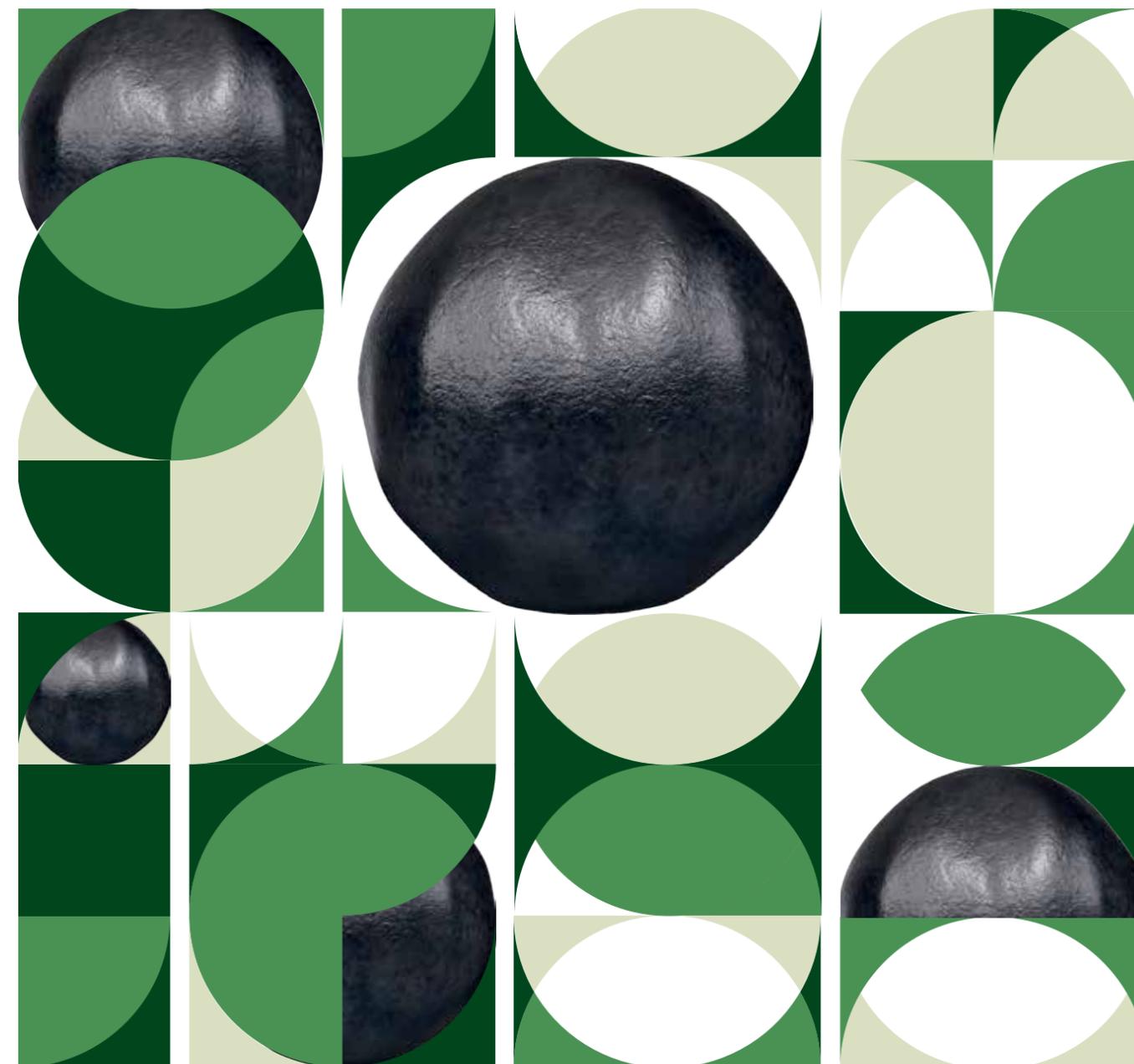
Hayes said the final costs of the projects have yet to be determined.

Glacier Farm Media, parent company of the *Western Producer*, has been contracted to develop the new website and the interactive Seed Guide, as well as the new SSGA logo.

Hayes said the SSGA's new, modernized web presence will benefit seed growers and seed buyers in the province.

"We wanted to give it a more up-to-date look" and improve its functionality, she said.

"We're really looking forward to seeing everything come together," Hayes said. "We're hoping for a launch in February or March...."



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SSGA'S EXECUTIVE DIRECTOR SEEKS STRONG, UNIFIED VOICE FOR ORGANIZATION

SPECIAL TO SASKSEED

Canada's commercial seed industry is approaching a pivotal point in its history.

Important transitional issues including the proposed amalgamation of several seed organizations and a more coordinated approach to service delivery across the entire industry could significantly change the way the Canadian Seed Growers Association (CSGA) and its provincial branches function and are governed.

Fortunately, the Saskatchewan branch of the CSGA is entering the new era with a

strong leadership team.

Included on that team is Laurie Hayes, PAg, who took over as Executive Director of the Saskatchewan Seed Growers Association (SSGA) in August 2018.

Hayes assumed her new position following the retirement of long-time SSGA Executive Director Dave Akister.

Over the past year and a half, she has been working tirelessly to ensure that SSGA members are fully informed of the potential changes that are being contemplated and that their interests are protected.

"No matter what the situation is, it's critically important that you listen to your constituents and get their perceptions, their thoughts and their feedback, in order to develop policies and mandates that are going to be in the interests of your members," said Hayes.

"Any time a door closes, another door opens. So when you're contemplating changes, there are going to be challenges and there are going to be opportunities as well. "When you look at an issue like Seed Synergy, for example, it's important that we explore the opportunities that exist, and we also have to respect the needs of our members."

Hayes comes to the SSGA with a well-rounded résumé and considerable managerial experience in agriculture.

A farm kid from Val Marie, Sask., Hayes studied animal science at the University of Saskatchewan and later became involved in the provincial crop sector.

She has been a Professional Agrolgist (PAg) for over 30 years, a profession regulated by the Saskatchewan Institute of Agrolgists (SIA).

She has served on the SIA's provin-

cial council as member-at-large, vice-president, president and past president.

As SIA President, she was instrumental in implementing changes to the SIA's governance and organizational structures. She has received the Recognition Award for her contributions to the SIA and currently as a member of the organization's Professional Conduct Committee as well as its Act and Bylaw Committee.

From 1998 to 2006, Hayes served as manager of the Conservation Learning Center (CLC) near Prince Albert, Sask., an applied demonstration research facility that showcases a wide range of agricultural technologies, from new seed varieties and management practices to seed treatments, crop protection products and farm equipment.

Hayes's time at the CLC provided valuable insights into the importance of agricultural research. It also allowed her to develop the management skills she needed to make further contributions in the crop sector.

From 2006 to 2008, she served as Executive Director of the Saskatchewan Canola, Mustard and Canaryseed Development Commissions, successfully cultivating increasingly diverse research and funding opportunities.

From there she joined the National Research Council (NRC) where she provided agricultural expertise to peers and management through business development and intellectual property management.

In the transition to a research and technology service provider, she devised new fee-for-service platforms used by NRC researchers.

When the Canadian Food Inspection Agency (CFIA) reduced its role in pedigreed seed crop inspection and assumed an oversight role in private sector seed inspection, Hayes managed and helped to launch AgCall's national CropInspect program, which today is the largest private sector seed crop inspection program in Canada. And, she is a Licensed Seed Crop

The bottom line is that we have to be here to be of service to our members and to advocate for our members in Saskatchewan.

LAURIE HAYES | SSGA EXECUTIVE DIRECTOR

Inspector, which adds perspective to her current role.

When she learned that the top executive position was vacant at the SSGA, she looked into the position and decided that the opportunity was too enticing to ignore.

She was interviewed by a panel of SSGA board members that included Cathy Fedoruk, Roy Klym and Shawn Fraser and was offered the position shortly after.

In a recent interview with SaskSeed, Hayes said she looks forward to supporting the SSGA Board of Directors and members through a period that could see significant change and upheaval.

She understands the importance of balancing the needs of multiple stakeholders with diverse viewpoints.

She views her past experience in managing and restructuring agricultural organizations as a valuable asset as the SSGA considers far-reaching organizational changes under the Seed Synergy initiative.

"I'm the kind of person who doesn't shy away from a challenge," she said.

"Give me a job to do, and I'll get it done."

Regarding the decisions that lay ahead, Hayes is quick to point out that information, research and data are the foundation of any well-made decision.

"In order to make any decision, you have to have the information and the data," she said. "You have to work through that information, weigh the consequences, one way or the other, and then do what's best for your farm, or your organization or your company."

In that context, the necessity to inform and engage our membership can't be stressed enough," she said. "That's one of the main priorities that we are working on right now."

Regardless of what direction the industry follows, it is critically important that Saskatchewan seed growers continue to have a strong and unified voice at the provincial level, she added.

"By-and-large, all of the provincial branches of the CSGA are interested and interested in exploring the National Seed Organization initiative (Seed Synergy) and opportunities it presents," she said.

"The bottom line is that we (the SSGA) are here to be of service to, and advocate for our members in Saskatchewan."



Laurie Hayes took over as executive director of the Saskatchewan Seed Growers Association (SSGA) in August 2018. | SSGA PHOTO

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INDUSTRY CALLS FOR CLARITY ON GENE-EDITING REGULATIONS

SPECIAL TO SASKSEED

Canada is falling behind other jurisdictions in providing clarity on how it will regulate new crop varieties developed through gene editing techniques such as CRISPR, says CropLife Canada.

Japan's consumer affairs agency recently decided it will not require special labeling for products created through the new breeding technique because it does not require the introduction of foreign DNA.

Japan joins a growing list of countries such as the United States, Australia, Argentina and Chile that do not plan to give any extra scrutiny to new traits resulting from gene editing.

At the other end of the spectrum is the European Union. The Court of Justice of the European Union ruled last year that gene editing must be regulated the same way as genetic modification.

It is not known where China stands on the issue.

Ian Affleck, vice-president of plant biotechnology with CropLife Canada, said crop developers and farmers are waiting for the Canadian government to provide

guidance on how it will regulate what is rapidly becoming the backbone of plant breeding.

"There is a distinct need for that clarity in Canada right now so Canadian farmers don't get disadvantaged," he said.

Affleck said the government has indicated that Canada's Plant with Novel Traits (PNT) regulations need to be renewed to encourage innovation in the sector.

"This is a priority for the government of Canada and there is currently work underway to update that regulatory program," he said.

"We hope that additional guidance will be available from the Canadian government as soon as possible."

Lucy Sharratt, co-ordinator of the Canadian Biotechnology Action Network, said the existing PNT regulations should suffice because novelty is the trigger, not the process.

"If they're going to open up PNT regulations because of gene editing there is a lot of questions that we would have about how the regulatory system could be improved," she said.

CropLife Canada likes Canada's approach

of regulating the product rather than the process but it does add a layer of complexity to regulatory decisions.

"When you have a process-based system, it's really black and white when you're in and out, because you either used the process or you didn't," he said.

"When you have a product-based system, it's a much broader potential interpretation of when something is now new, so that can lead to confusion."

Affleck said there appears to be a growing global consensus that gene-editing technology will not be subject to the same regulatory scrutiny as GM crops, with the notable exception of the EU.

But even within the EU there is considerable backlash to the court's decision. Scientists from 117 research facilities sent a letter to the newly elected European Parliament urging it to update outdated GMO legislation to exclude gene-editing technology.

The EU's outgoing council of agriculture ministers left similar instructions for the incoming Parliament.

Affleck said the anti-GM sentiment that was once prevalent in the EU is subsiding. A June 2019 Eurobarometer survey shows

OPPOSITE PAGE: There appears to be a growing global consensus that gene-editing technology will not be subject to the same regulatory scrutiny as GM crops. | GETTY IMAGE

There is a distinct need for that clarity in Canada right now so Canadian farmers don't get disadvantaged.

IAN AFFLECK | VICE-PRESIDENT OF PLANT BIOTECHNOLOGY, CROPLIFE CANADA

that 27 percent of Europeans are concerned about GM foods, down from 66 percent in 2010.

A mere four percent of those surveyed were concerned about gene-editing technology.

Sharratt said public opinion surveys are irrelevant when it comes to the Court of Justice of the European Union's ruling.

"This is not about which technology is popular or unpopular; it's actually about how to define genetic engineering and the European court has been very clear," she said.

Affleck said Canada needs to revamp its

PNT regulations in a hurry. He doesn't know of any gene-edited crops on the market in Canada but a company called Calyxt Inc. has commercialized a gene-edited high oleic soybean in the U.S.

"It's hard to start investing in a product if you're not certain as to the regulatory outcome," he said.

The wheat industry is particularly vocal about the issue. U.S. Wheat Associates praised Japan for its recent decision.

There are no GM wheat varieties on the

market, which is making the crop less competitive against corn and soybeans, Elizabeth Westendorf, USW assistant director of policy, said in a recent article.

"We see this disadvantage in declining acres and in a slower pace of yield increases compared to soybeans, corn and other crops U.S. farmers can grow," she said.

Editor's note: This article initially appeared in The Western Producer and is reprinted with permission.

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Producers achieve \$36 per acre in yield and grade benefits when growing midge tolerant wheat. Over 10 years, it adds up to an estimated \$1 billion, a significant return for producers. | FILE PHOTO

CELEBRATING 10 YEARS OF MIDGE-TOLERANT WHEAT STEWARDSHIP

SPECIAL TO SASKSEED

Saskatchewan producers have been successfully seeding midge tolerant wheat varieties for the past 10 growing seasons. That's a significant milestone for a technology that was launched with stewardship strings attached.

"Since Day 1, midge tolerant wheat growers have had to sign a stewardship agreement that limits the use of farm-saved seed to one generation past certi-

fied," says Mike Espeseth, communications manager at the Western Grains Research Foundation and co-chair of the Midge Tolerant Wheat Stewardship Committee.

This requirement ensures the varieties' built-in refuge is maintained and protects against the development of a resistant midge population, he said.

"When the technology was introduced to growers in 2009, we explained that without an interspersed refuge system,

midge tolerance could break down within 10 years. We've maintained this message over the past decade and are grateful to growers and industry for respecting it."

Several significant milestones have been achieved thanks to this ongoing commitment. Most notable among those achievements is the growth in the number of midge tolerant wheat varieties available to producers.

When midge tolerant varieties were launched a decade ago, only four varieties were available. Today, there are 35 varieties available in seven different wheat classes.

"There's now just about something in every wheat class," says Todd Hyra, western business manager for SeCan, one of the first companies to offer a midge tolerant wheat variety to growers.

"In addition, a broad range of adaptation has happened within the genetics. It's a very complete management package for producers. They've got everything they would want in a wheat variety - top yields, improved fusarium ratings, short, strong straw for manageability and, on top of all of that, midge tolerance."

According to data compiled by Statistics Canada, 27 million acres of midge tolerant wheat have been grown across the Prairies since the first midge tolerant variety was planted in 2009. An even more impressive number is the financial advantage to farms.

"Research shows that producers achieve \$36 per acre in yield and grade benefits when growing midge tolerant wheat," says Hyra.

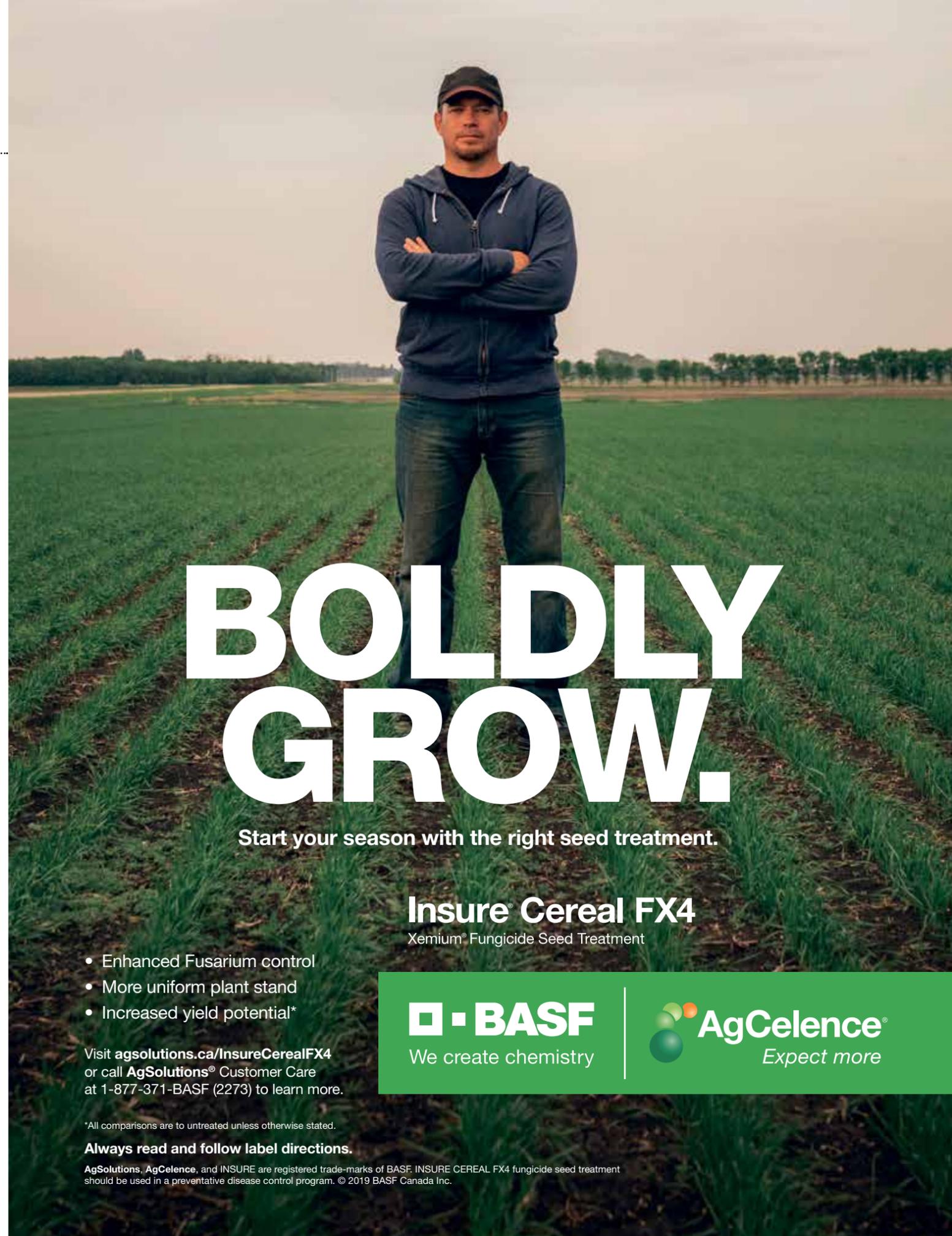
"When you apply that advantage across all those acres over the past 10 years, it adds up to an estimated \$1 billion. That's a significant return to producers."

That billion-dollar achievement would not have been possible without the cooperation of many people.

Prior to launching midge tolerant wheat to growers, industry groups worked together to create a strategy to collectively manage the stewardship and ensure that resistance was not lost.

The result was the Midge Tolerant Wheat Stewardship Committee - a broad industry coalition representing plant breeders, government, seed growers, seed distributors and producer groups.

continued on page 14 >>



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QUICK FACTS

27

MILLION ACRES

of midge tolerant wheat has been grown since its first planting in 2009.

35

VARIETIES

of midge tolerant wheat in seven classes are now available to producers.

AT LEAST

15%

of annual western wheat acres have been midge tolerant since 2012.

THERE IS AN ALMOST

100%

producer commitment to midge tolerant wheat stewardship practices for a decade.



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TYLER WIST | FIELD CROP ENTOMOLOGIST, AGRICULTURE AND AGRI-FOOD CANADA

» continued from page 12

"It was really cool how everybody came together to ensure that the stewardship program was developed. It was very much a team approach," says Hyra.

"Today, we continue to work together to ensure that this technology lasts."

Seed retailers also play a key role by sharing stewardship best practices with growers. Approximately 550 front-line retailers have completed midge tolerant wheat training to ensure they understand the technology and can share their knowledge with growers.

Anyone who sells midge tolerant wheat is also responsible for ensuring growers have signed a stewardship agreement.

In 2016, the midge tolerant wheat stewardship assurance site was launched to replace the paper agreements that were originally in place.

The secure, web-based tool designed for seed distributors, seed retailers and seed growers has made the process of documenting the movement of certified midge tolerant wheat seed more efficient.

A compliance survey is also conducted annually to follow up with midge tolerant wheat growers on their stewardship practices.

"They are questioned in terms of understanding and respecting the technology, and results are consistently strong," says Hyra.

"In the past several years, 98 percent of users have been in compliance."

Midge tolerant wheat has delivered sig-

nificant environmental benefits as well as financial benefits.

By using midge tolerant varieties, growers can forego the task of spraying chemicals to control the orange blossom wheat midge.

"This has resulted in several millions of litres of insecticide not purchased and not applied," says Hyra.

This not only saves growers time and input costs, but it reduces the environmental impact of an insecticide and decreases fuel usage as well.

It also reduces the time required to manage a crop and eliminates the tricky task of properly timing insecticide applications for effective midge control.

"It frees up time to be able to spend with your family or coaching soccer or doing whatever you want to do, rather than worrying about killing bugs," says Hyra.

Another impact of not spraying is the protection of beneficial insects.

"If we're not spraying the wheat, then we're not spraying out the beneficial insects," says Tyler Wist, field crop entomologist with Agriculture and Agri-Food Canada based in Saskatoon.

When beneficials are protected, they are able to do their part in helping to control the midge population.

It's important to support these beneficial insects because they work by laying eggs into wheat midge larvae and eggs, eventually killing the pest.

"Using midge tolerant wheat helps to maintain the level of the parasitoids in the crop," says Wist.

"Macroglanes penetrans is an example of a parasitoid that does a really good job of managing the overwintering populations of wheat midge," he says.

"There is no doubt that midge populations are way down across the Prairies," Wist adds.

"The fact that so much midge tolerant wheat is being used is having a level of depression on the midge population. But we also have to qualify that some dry springs have contributed to a reduced midge population as well."

Wist says midge tolerant wheat varieties have saved producers a lot of worry over the past decade.

"It's just so convenient, right? Plant it and forget about it. You don't have to be wandering through your wheat field on the July long weekend at dusk looking for little flies."

Hyra agrees that midge tolerant wheat gives users peace of mind.

"You just let the technology do its job," he says.

So far, there have been no reported incidents of resistant midge, which is evidence that the stewardship program is working.

The bottom line is that stewardship only works because of the commitment of everyone involved in the midge tolerant wheat system - from the seed growers and distributors to the producers who plant it.

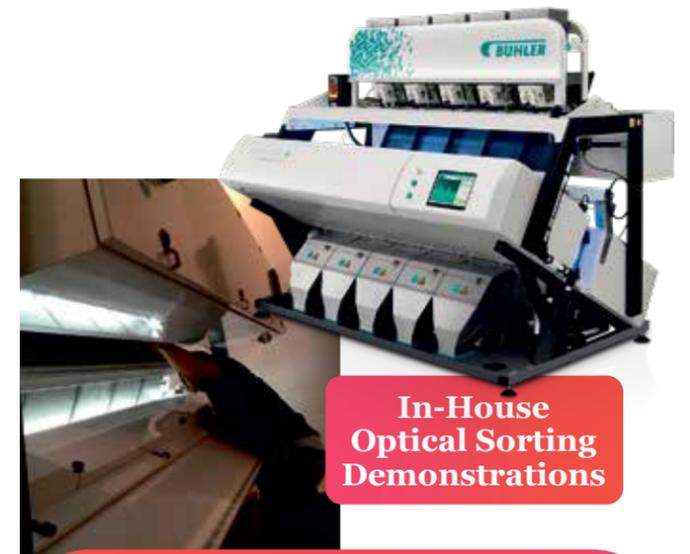
"Midge tolerant wheat continues to be an effective tool because farmers and industry work together to preserve the technology," says Espeseth.

"A big thanks to everyone who has done their part to protect this important technology," adds Hyra.

"This trait was identified by public breeders for the good of all wheat growers in Canada. All that we ask is that as an industry, we take care of it for several more decades."

For more information about midge tolerance and the Stewardship Agreement, visit midgetolerantwheat.ca.

This article was prepared for SaskSeed by members of the Midge Tolerant Wheat Stewardship Committee.



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BRANDON DOMINATES CWRS CLASS IN WESTERN CANADA

SPECIAL TO SASKSEED

For the third year running, AAC Brandon wheat was a run-away favourite among Western Canada's commercial wheat growers.

According to data collected by provincial crop insurance programs and published by the Canadian Grain Commission (CGC), AAC Brandon was planted on nearly 5.3 million insured wheat acres across the West last year.

That's a whopping 42 percent of the total insured Canada Western Red Spring (CWRS) wheat acres in 2019.

In Saskatchewan, insured AAC Brandon acreage topped 2.1 million acres last year, nearly three times the acreage of CDC Landmark, the province's second most popular CWRS variety.

AAC Brandon's uptake in the four West-

ern provinces continued to make huge strides, gaining more than 1.1 million acres year-over-year.

The variety was developed by Ron DePauw at Agriculture and Agri-Food Canada's Swift Current, Sask., breeding program and is distributed through the SeCan network.

Brandon has enjoyed a meteoric rise in popularity since making its debut in commercial grain fields in 2015.

That year, it was grown on 325,000 insured acres across the Prairies, making it the 19th most popular CWRS variety grown in the West.

In 2016, total prairie acreage sky-rocketed to more than 1.16 million acres, propelling the high-yielding variety to first place overall.

AAC Brandon's rapid uptake has continued since then, with

total insured acreage in Western Canada increasing 2.28 million acres in 2017, 4.1 million acres in 2018, and nearly 5.3 million acres in 2019.

Todd Hyra, SeCan's business manager for Western Canada, told *SaskSeed* that AAC Brandon's strong performance over a wide range of growing conditions since 2015 has caught the attention of Prairie farmers.

The variety was a solid performer in 2015 and 2016 under relatively wet conditions, he said.

It also did well in subsequent years that were marked by above average temperatures during the growing season and limited moisture.

"From the farmer's perspective it's been the consistency of the variety," Hyra said.

"It's short and



Ron DePauw, a researcher at the Swift Current station of Agriculture and Agri-Food Canada, developed AAC Brandon, one of the most popular wheat varieties in Western Canada. | AAFC PHOTO

strong strawed so it provides quick and easy harvest. It's also got a good rating for fusarium and its yield potential has been really stable across a wide variety of environmental conditions."

AAC Brandon has enjoyed strong uptake in all three prairie provinces, a testament to its regional adaptability.

Insured acreage in Alberta was listed at nearly 1.35 million acres in 2019, while insured acreage in Manitoba was just a hair shy of 1.8 million acres.

Hyra said a ruthless selection process by Agriculture and Agri-Food Canada (AAFC) wheat breeder Ron DePauw is what helped to set AAC Brandon apart.

"I think that's a big part of its success," he said.

"In his time at the Swift Current breeding facility at AAFC, he (DePauw) put a great deal of emphasis on selecting strong products.

"The ruthlessness that he used in his selection process was quite remarkable and I've really gained an appreciation for that since he's become our science advisor at SeCan."

For the time being, AAC Brandon looks certain to retain its position as the most popular wheat variety in Western Canada.

However, other promising and productive red spring wheat varieties are also gaining acreage. They include CDC Landmark, which was grown on nearly 830,000 insured acres last year, AAC Elie (840,000 acres) and AAC Viewfield (735,000 acres).

continued on page 18 >>

SASKATCHEWAN'S TOP INSURED CWRS VARIETIES

VARIETY	DISTRIBUTOR	2017 RANK	2017 ACRES	2018 RANK	2018 ACRES	2019 ACRES
AAC Brandon	SeCan	1	814,524	1	1,602,675	2,131,224
CDC Landmark VB	FP Genetics	41	6,114	5	252,686	706,731
CDC Plentiful	FP Genetics	4	328,867	3	354,832	291,200
Cardale	Seed Depot	3	331,902	4	308,330	239,100
CDC Utmost VB	FP Genetics	2	513,980	2	425,693	233,254
AAC Elie	Alliance	10	106,262	8	206,736	223,478
AAC Viewfield	FP Genetics	58	1,241	22	33,321	199,170
Carberry	SeCan	5	262,048	6	225,862	165,592
CDC Titanium	Proven / CPS	7	178,732	7	206,760	158,906
AAC Cameron	Canterra	18	41,928	12	110,155	112,769
CDC Stanley	Proven / CPS	8	170,232	9	137,801	103,375
AAC Jatharia	SeCan	17	47,087	11	119,045	96,391
CDC Hughes VB	Proven / CPS	61	615	18	38,375	83,542
Shaw	SeCan	6	196,148	10	127,589	83,504
Glenn	Canterra	11	106,022	13	108,095	76,540
CDC VR Morris	Proven / CPS	12	85,362	15	74,298	62,532
AAC Redberry	Alliance	n/a	0	40	11,792	42,344
Vesper	SeCan	9	114,915	14	87,869	38,717
5605 HR CL	Proven / CPS	24	27,478	21	33,356	30,987
Stettler	SeCan	20	34,521	19	36,184	30,973
AC Barrie		21	31,469	24	23,119	29,091
Goodeve	FP Genetics	15	75,664	17	43,894	25,947
AAC Connery	Canterra	39	6,619	25	22,836	25,489
AAC Prevail	Alliance	29	17,875	20	35,057	24,198
Muchmore	Alliance	16	56,524	16	53,885	21,820
Waskada	SeCan	25	26,831	23	29,231	20,445

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But it's unlikely any of those varieties will unseat AAC Brandon soon as the most widely grown wheat variety on the Prairies.

CDC Landmark VB, is a midge tolerant varietal blend, developed at the University of Saskatchewan's Crop Development Centre and distributed through the FP Genetics network. It is the first semi-dwarf, midge-tolerant CWRS variety available to commercial growers.

In addition to midge tolerance, it is known for its improved standability, good harvestability and high yield potential relative to Carberry, the CWRS check.

"Given the harvest that we had in 2019, it (Landmark) really proved its value," said Chris Churko, chief executive officer at FP Genetics. "It's a phenotype that a lot of farmers are looking for — a short, strong standing wheat that's almost bullet-proof. Regardless of the conditions — whether it's drought or whether it's wet — it handles all of the conditions very well. It also has one of the strongest sprouting ratings. And given the harvest season that we just had, that's pretty important."

"It's a variety that growers have really latched on to and have moved very well."

In regional variety trials managed by the Saskatchewan Variety Performance Group, Landmark out-yielded Carberry by 12 percent in Saskatchewan test areas 3 and 4 (see map on page VR2) and by 9 percent in Saskatchewan test areas 1 and 2, based on four years of testing.

In 2017, CDC Landmark was planted on roughly 6,000 acres of insured Saskatchewan cropland. That increased to 250,000 acres in 2018 and 830,000 acres last year.

Officials with FP Genetics said the combination of shorter straw, good yield potential, midge tolerance and good harvestability has considerable appeal with CWRS producers, particularly in areas where midge pressure is routinely high.

Uptake has been especially strong in areas that typically experience high midge pressure.

FP Genetics also has high expectations for another CWRS offering, AAC Viewfield.

AAC Viewfield is also a shorter, high yielding variety.

Although it doesn't contain the midge tolerant gene, it's considered a good fit for CWRS growers in the southern grainbelt, where midge pressure is comparatively low.

In 2019, AAC Viewfield made huge gains

SASKATCHEWAN'S TOP INSURED CWAD VARIETIES

VARIETY	DISTRIBUTOR	2017 RANK	2017 ACRES	2018 RANK	2018 ACRES	2019 ACRES
Transcend	FP Genetics	1	973,330	1	1,603,973	1,160,052
CDC Precision	Alliance	16	5,513	6	120,663	365,917
Brigade	Proven / Nutrien	3	301,972	2	422,683	294,107
AAC Spitfire	SeCan	7	61,279	4	270,185	244,295
Strongfield	SeCan	2	327,276	3	336,299	160,062
CDC Fortitude	Proven / Nutrien	6	61,899	7	102,008	81,315
CDC Alloy	FP Genetics	21	979	12	32,867	67,522
CDC Verona	Alliance	4	140,378	5	125,652	56,720
AC Navigator	Proven / Nutrien	9	35,408	11	33,018	27,912
Eurostar	SeCan	5	69,758	8	71,072	26,402
AAC Congress	Canterra	n/a	0	20	6,214	25,658
AAC Current	Alliance	12	21,376	13	27,371	18,832
Kyle		8	39,600	10	33,959	16,898
Enterprise	Canterra	10	35,088	9	39,054	16,025
AAC Raymore	SeCan	11	33,154	14	26,511	15,450
CDC Carbide	Proven / Nutrien	20	1,509	16	17,378	13,706
AAC Marchwell	SeCan	14	16,295	15	22,819	7,347
Commander		17	3,367	17	13,699	6,669
AC Avonlea		13	17,802	19	8,730	5,500
CDC Vivid	Proven / Nutrien	15	6,320	18	12,039	4,892
AAC Stronghold	SeCan	n/a	0	21	886	4,445
AAC Cabri	SeCan	n/a	0	22	790	3,847

in terms of commercial acres planted.

According to provincial crop insurance data, insured wheat acres that were planted with AAC Viewfield reached nearly 200,000 acres in Saskatchewan last year, up from 33,000 acres in 2018.

Saskatchewan's other big gainers in the CWRS class last year included:

- CDC Hughes, planted on more than 83,000 insured acres in 2019 (13th), compared to 38,000 acres in 2018 (18th) and 615 acres in 2017 (61st), and;
- AAC Redberry, planted on more than 42,000 insured acres in 2019 (17th), compared to roughly 12,000 acres in 2017 (40th).

In durum, AC Transcend was by far and away the most popular variety grown in Saskatchewan last year, at least according to Saskatchewan Crop Insurance Corp's (SCIC) insured acreage figures.

Distributed by FP Genetics, AAC Transcend has good sprouting tolerance, an industry leading disease package, and relatively low expressions of fusarium headblight (FHB) symptoms, translating into lower levels of deoxynivalenol (DON) vomitoxins.

Transcend was grown on 1.16 million in-

sured acres of Saskatchewan farmland last year, down from 1.6 million acres in 2018. That's a year-over-year reduction of about 450,000 acres.

Saskatchewan's second most popular durum variety in 2019 was CDC Precision.

Developed by the University of Saskatchewan's Crop Development Centre and distributed by Alliance Seed, CDC Precision was grown on more than 365,000 insured acres in Saskatchewan last year, up from 120,000 acres the year before.

In regional variety trials, CDC Precision was the highest yielding CWAD variety, according to 2018 trial data collected over four years of testing.

The variety out-yielded Strongfield, the CWAD check variety, by eight percent in Saskatchewan production zones 1 and 2 and by 11 percent in zones 3 and 4.

Saskatchewan's overall durum production on insured farmland was down sharply in 2019, according to SCIC figures.

Provincially, total insured durum acres fell from approximately 3.33 million acres in 2018, to 2.63 million acres in 2019, a decline of nearly 21 percent.

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» continued from page 18

Hyra said the sharp reduction in durum acres was a function of poor markets and tough growing conditions that weren't conducive to durum production.

"We had a whole bunch of beautiful high-quality durum from 2018 and nobody really wanted it so that really took the shine off durum production, especially after coming off a couple of really tough years in 2016 and 2017, where there was a lot of fusarium and not a lot of great quality durum out there."

"The good news is that we've been seeing (interest in durum) ... bounce back and there's also some great new varieties coming out from both the University of Saskatchewan and AAFC Swift Current that will help to move this crop forward — varieties with stronger straws and solid stems.

"We are also starting to inch forward in improved fusarium resistance so I think some of these new products will help to

The good news is that we've been seeing (interest in durum) ... bounce back and there's also some great new varieties coming out from both the University of Saskatchewan and AAFC Swift Current that will help to move this crop forward.

TODD HYRA | WESTERN CANADA BUSINESS MANAGER, SECAN

stabilize the crop."

Among SeCan's newer CWAD offering are AAC Spitfire, a conventional, hollow-stemmed durum variety that has performed well across a broad geography.

In regional variety tests, AAC Spitfire offered yields similar to CDC Precision, among the highest in the CWAD class.

AAC Stronghold is also expected to be a

strong mover, Hyra said.

It is a solid stemmed variety with short strong straw and an industry leading VG (very good) rating for lodging resistance.

"It's got lodging resistance that really helps to ensure a fast, efficient harvest, even under high productivity conditions," Hyra said. "It really is one of the strongest strawed durums out there."



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THE IMPORTANCE OF SEED QUALITY ANALYSIS



Routine tests for purity, germination and disease are offered through CSAAC member labs. | GETTY IMAGE

SPECIAL TO SASKSEED

When marketing or purchasing pedigreed seed, assurance of seed quality is a must. As a seller, you have built your reputation on the quality of seed you provide, and as a purchaser of the seed, you rely on the potential income from that product.

It's imperative that quality checks be done by knowledgeable, qualified seed analysts.

Some seed quality tests are required to meet the minimum standards of the *Seeds Act and Regulations*.

Other tests are performed to ship seed to other countries, meet the standards of specialty markets, avoid unwanted other species and disease contamination, and to determine higher standards of suitability in a seed lot.

Initial screening of a harvested crop of pedigreed seed is conducted by a qualified lab to determine if the seed is worth cleaning.

The seed analyst will identify any other crop kinds and weed seeds in the sample, some of which may be prohibited or cannot be cleaned out of the crop being tested.

At this point, the seed may be rejected as a pedigreed seed lot. If the sample is acceptable from a grading perspective, then further testing can be done on a clean sample of the seed.

There are routine tests performed by Commercial Seed Analysts Association of Canada (CSAAC) members that work at accredited labs.

Purity, germination and disease testing are standard tests that are offered by CSAAC labs.

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It's advisable to use labs that have CSAAC members as CSAAC analysts work hard to maintain their education and uniformity in testing.

» continued from page 22

Seed health tests have become more important and are done to determine seed-borne diseases such as true loose smut, fusarium, ascochyta, root rot, botrytis, anthracnose, sclerotinia and bacterial blights, to name a few.

Varietal purity and testing for GMO traits has also become more prevalent and critical to the pedigreed seed sector.

These traits must be identified in a seed lot in order to guarantee that the producer is planting seed that fits the requirements of their unique situation.

For many, the vigour test has become as important as a germination test. These tests are ideally performed in conjunction with each other to get an accurate measurement of the potential of the seed lot.

Examples of vigour testing include the cold stress test,

electrical conductivity test and tetrazolium test.

Though some vigour tests have been standardized, CSAAC has struck a committee to research vigour testing in hopes of developing a uniform testing procedure for different crop kinds.

In the meantime, having the germination and vigour test performed at the same lab should give a more accurate indication of a seed lot's po-

tential performance.

Regardless of the test you need performed on your seed, there is a CSAAC analyst who can conduct it.

It is advisable to use labs that have CSAAC members as CSAAC analysts work hard to maintain their education and uniformity in testing.

A list of accredited seed analysts can be found in the membership section of the CSAAC website at seedanalysts.ca.



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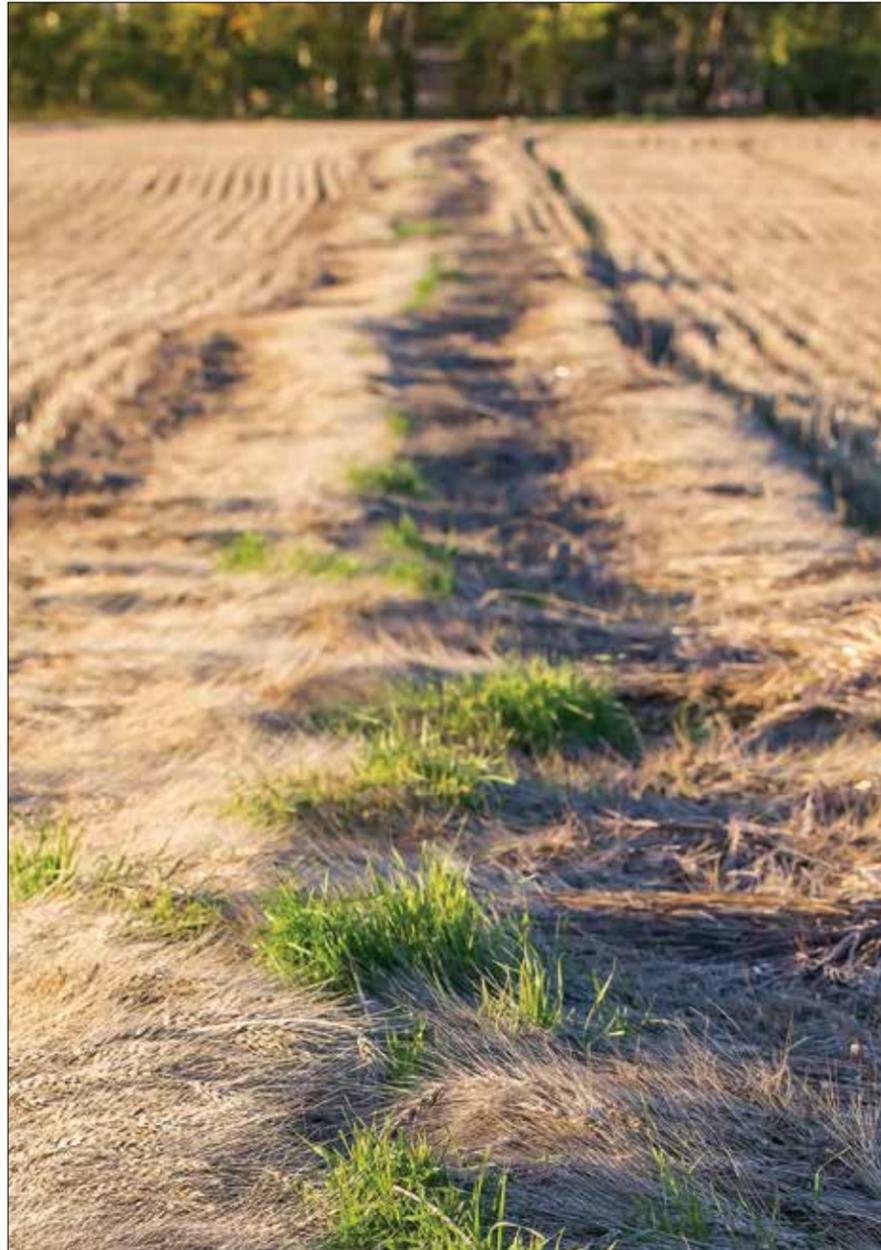


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WHAT'S ALL THE FUSS ABOUT FALLING NUMBERS?



SPECIAL TO SASKSEED

Over the past few months, there's been a lot of chatter among commercial grain growers about falling numbers in wheat.

What is falling number? Why does it matter? Why are grain companies watching falling numbers so closely this year? And do low falling numbers have any bearing on the viability and productive potential of pedigreed wheat seed?

These are all questions that commercial grain producers and pedigreed seed growers are asking.

The falling number test is used to determine the baking quality of wheat.

The test is an internationally recognized method that measures grain quality for baking purposes.

A high falling number suggests that the grain in a sample is sound and that its baking quality hasn't been significantly compromised.

A low falling number is typically observed in wheat that is sprouted.

"It (falling number) is widely used, internationally, as an indicator of the soundness of grain," said Bin Xiao Fu, a bread and durum wheat research scientist with the Canadian Grain Commission's grain research laboratory in Winnipeg.

When mature wheat kernels are wetted or exposed to damp or humid conditions, the kernel's instinctive germination process can be triggered.

According to Fu, the germination process causes production of the starch-degrading enzyme known as alpha-amylase.

In Canada Western Spring Wheat (CWRS), a high falling number of 350 seconds, or more, indicates a high level of kernel soundness and good bread making functionality.

It also suggests that the kernel's embryo and the seed's productive potential is essentially uncompromised.

In sprout-damaged wheat, alpha amylase enzyme levels rise dramatically in response to hormones triggered by germination.

In commercial grain that's delivered into the bulk grain handling system, falling number values have commanded a significant amount of attention over the past few months.

Because much of the wheat harvested in Western Canada last fall was exposed to repeated rainfall events or damp pre-harvest conditions, sprout damage was a relatively common degrading factor and falling number values were unusually low in many commercial grain samples.

In Canada, falling number is not a recognized grading factor in wheat.

However, it is commonly monitored by grain buyers to determine the market value of wheat.

Many grain delivery contracts contain clauses that require the falling number values of contracted grain to exceed a certain numerical threshold.

Typically, wheat that has a falling number value exceeding 300 is considered to be of reasonable soundness and suitable



In a visual assessment, if you can clearly see evidence of sprouting, this is almost certainly associated with a low falling number. But even if you don't see visual evidence of sprouting, you can still have a low falling number.

BIN XIAO FU | WHEAT RESEARCH SCIENTIST, CANADIAN GRAIN COMMISSION

ity for milling, baking and breadmaking purposes.

Commercial wheat deliveries with FNs that fall below 300 may be subject to contractual penalties.

In all cases, commercial grain growers should read their grain contracts carefully, understand the terms, and be fully in-

formed of required FN specs and potential penalties.

It should also be noted that Canada's official grain grading guide uses visual sprout damage as a degrading factor in wheat, not falling number.

continued on page 28 >>

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Information in the right hands.

Because much of the wheat harvested in Western Canada last fall was exposed to repeated rainfall events or damp pre-harvest conditions, sprout damage was a relatively common degrading factor. | SANDY BLACK PHOTO

» continued from page 27

In general, wheat that is visually assessed and shows sprout damage can be assumed to have a falling number that is, to some degree, compromised.

For this reason, visual sprout damage is used as a proxy for falling number.

“In a visual assessment, if you can clearly see evidence of sprouting, this is almost certainly associated with a low falling number,” said Fu.

“But even if you don’t see visual evidence of sprouting, you can still have a low falling number...,” he added.

For that reason, there is some risk and uncertainty associated with using visual inspection as a proxy for falling number.

Conducting a falling number test is a relatively complex process compared to visual inspection and the time required to complete an FN test accurately is relatively high.

To produce accurate results, a falling number test must be conducted in a dust-free laboratory setting, something that few grain elevators in Western Canada are equipped with.

For that reason, the industry’s ability to conduct FN tests on site, quickly and efficiently, is limited.

“Visual inspection is very effective and it’s very quick,” said Fu. “That’s a big advantage (for grain handlers).”

Blending commercial wheat to produce a more favourable falling number is not recommended as the results of blending are often unpredictable and fail to meet expectations.

For example, blending a tonne of wheat with a falling number of 250 with a tonne of 350 FN wheat does not necessarily produce two tonnes of wheat with a 300 FN, Fu said.

Nor will blending a tonne of wheat with four percent visual sprout damage and a tonne of wheat with zero percent visual sprout damage produce a two tonne cargo that exhibits a 50 percent improvement in falling number.

In other words, the concept of averaging does not apply when blending for improved FN values.

In storage, falling numbers can change depending on the environmental conditions inside the bin and the temperature of the grain.

If wheat is dried artificially or goes into storage dry, it can safely be assumed that the germination process has been halted



and alpha amylase production is curtailed.

Alternately, wheat that is stored tough or damp, under certain environmental conditions, can continue to produce the alpha amylase enzyme in storage, suggesting the potential for a further decline in falling number values.

Some growers have asked whether a falling number test can be used to determine the quality of pedigreed seed?

In other words, is falling number a useful indicator of pedigreed seed quality? Or, should pedigreed seed growers and seed buyers rely instead on other industry-established quality measurements such as germination and vigour testing?

Morgan Webb, owner of SeedCheck Technologies Inc. in Leduc, Alta., and president of the Commercial Seed Analysts Association of Canada (CSAAC), says pedigreed wheat seed samples that arrive at his lab are typically not tested for falling number.

The falling number test is normally used to determine baking quality of commercial grain, not the quality of a pedigreed seed lot, he said.

However, it is possible that there is a correlation between low falling number in pedigreed wheat seed and reduced seedling vigour.

“Normally we don’t hear about falling number very often,” Webb said.

“I don’t know of any studies that have been done (to assess the correlation between falling number and seed performance) but certainly it would be an interesting thing to think about — whether falling number is an indication of vigour...”

“A seedlot that may have had light sprouting or even sometimes fairly heavy

sprouting can still germinate quite well,” Webb added.

“But then we may see in some of our vigour tests, like the radical emergence test, poor vigour results in seedlots that are (in otherwise) good condition.”

In Western Canada, new wheat varieties and lines being considered for registration support are evaluated for sprout tolerance.

Prior to registration, all wheat lines being considered for registration support are evaluated for sprout tolerance and falling number values by the Quality Evaluation Team of the Prairie Recommending Committee for Wheat Rye and Triticale (PRCWRT).

“Definitely, in the wheat variety registration trials, we evaluate for falling number and we compare (FN numbers) to the checks,” said Fu.

“If we see significantly lower numbers under the same growing conditions, those varieties will not be recommended for registration.”

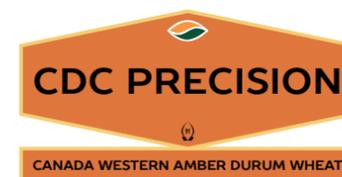
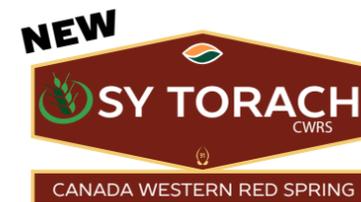
In post-registration testing conducted and coordinated by the Saskatchewan Advisory Council on Grain Crops (SAC-GC) and the Saskatchewan Variety Performance Group (SVPG), registered wheat varieties are assessed for sprout tolerance using an alphabetically rating system that ranges from P (poor) to VG (very good).

Results of that testing can be viewed in the Varieties of Grain Crops section (the yellow pages) of the 2020 *Saskatchewan Seed Guide*.

CWRS wheat varieties that were rated VG for sprout tolerance in 2019 included AAC Alida VB, CDC Stanley, Waskada, AAC Redwater and SY479 VB.



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In recent years, earlier-maturing soybean varieties that require fewer heat units have helped to expand soybean production into new areas of the province. In 2019, however, pedigreed soybean seed production was down sharply in Saskatchewan. | FILE PHOTO

SOYBEAN DECLINE PUSHES PEDIGREED SEED ACREAGE DOWN

SPECIAL TO SASKSEED

Canada's pedigreed seed production hit a five-year low in 2019.

According to the Canadian Seed Growers Association's (CSGA) 2019 acreage and membership report, the total number of pedigreed seed acres inspected across Canada last year was just a shade under 1.294 million acres.

That was the first time since 2014 that national inspected acreage fell below 1.3 million acres, according to the CSGA.

In 2018, seed growers had more than 1.33 million acres inspected for pedigreed production. The year before that, the total inspected area was approximately 1.35 million acres.

In the Prairie provinces, pedigreed seed acreage was down sharply in Manitoba in

2019 and up marginally in Saskatchewan and Alberta.

Manitoba seed growers had roughly 342,000 acres inspected in 2019, down from approximately 380,000 acres in 2018 and 391,000 acres in 2017.

By comparison, Saskatchewan's pedigreed seed acreage has remained fairly consistent since 2015, ranging from a five year low of 324,000 acres in 2018, to a five-year high of 333,000 acres in 2015.

Saskatchewan's 2019 acreage was just a hair over 330,000.

And in Alberta, 2019 production surpassed 351,000 acres, the province's highest level in more than a decade.

The CSGA publishes an annual pedigreed seed acreage report every November.

Data contained in the report includes current year production by province and by crop type, as well as historical pro-

SASKATCHEWAN PEDIGREED SEED ACREAGE

CROP KIND	2015	2016	2017	2018	2019
Alfalfa	18,307	18,877	16,401	14,008	13,714
Barley	34,687	41,241	30,047	31,794	47,136
Bean	205	250	887	329	54
Birdsfoot Trefoil		100	100	100	100
Bromegrass	2,169	2,720	3,358	2,454	2,497
Buckwheat					0
Canarygrass	195	550	1,509	2,115	55
Chickpea	956	1,966	1,388	2,583	1,445
Clover	3,851	3,657	2,018	2,755	2,312
Corn (Hybrid)					0
Fababean	6,705	3,625	4,540	1,884	2,734
Fescue	531	626	456	1,155	1,840
Flax	23,552	11,103	12,622	12,630	13,656
Hemp	2,662	2,459	4,051	1,727	2,969
Canola (Hybrid)	8		240	18	121
Lentil	27,315	39,503	29,767	21,389	22,752
Mustard	1,023	382	494	1,595	880
Oat	13,858	11,882	14,088	10,756	19,605
Pea	35,532	42,032	37,668	42,401	51,659
Rape	13	280			
Rye	785	770	440	196	773
Ryegrass	1,770	2,485	1,065	1,970	2,331
Soybean	5,843	4,420	17,454	17,138	4,343
Timothy	4,780	4,438	4,355	3,545	4,209
Triticale	1,057	780	335	997	1,269
Wheat	144,410	128,440	144,338	149,181	131,585
Wheatgrass	1,090	1,675	1,270	1,470	1,349
Minor Crops	1,990	3,217	1,633	94	680
Total	333,294	327,478	330,524	324,284	330,067

duction numbers, going back seven years.

The report also provides data on CSGA membership (the number of pedigreed seed growers in Canada that hold current CSGA memberships), as well as the number and types of higher pedigree plots inspected.

There are a number of notable figures and trends in the 2019 report, published last November.

For example:

- Pedigreed soybean production across the country was down by more than 82,000 acres in 2019 to 318,249 acres. A year earlier, pedigreed soybeans were produced on more than 400,000 acres, suggesting a year-

over-year decline of more than 20 percent.

- Canada-wide pedigreed wheat seed production was down by nearly 20,000 acres in 2019 to 358,812 acres. That's a five percent year-over-year decline from 2018, when more than 378,000 pedigreed wheat acres were inspected.

- The industry also saw big production declines in pedigreed alfalfa seed, down 14,000 acres to 55,354 (-20 percent) and pedigreed canola seed acres, down 19,000 acres to 53,917 (-26 percent).

- Big gainers in 2019 included pedigreed barley seed, up by nearly 35,000 acres to 132,956 (+35 percent), pedigreed oat seed, up by more

than 23,000 acres to 74,019 (+46 percent), and pedigreed pea seed acres, up by nearly 12,000 acres to 105,713 (+12 percent).

The significant increase in barley, oat and pea acres reflects strengthening demand in those crop types and weakness in markets for other common crops types, such as wheat and canola.

Cathy Fedoruk, a seed grower from Kamsack, Sask., and past president of the Saskatchewan Seed Growers Association (SSGA), said interest in barley, oats and peas has been strong.

"I would say we've seen a greater demand for barley and oats, especially feed barley," Fedoruk said.

"I wouldn't say markets (for

those crops) have been great but prices have held their own and it seems like producers have been able to move those crops fairly quickly and get contracts...."

Demand for pedigreed pea seed has been increasing steadily over the past few years and seed growers have responded by increasing their plantings to unprecedented levels.

Canada's total pedigreed pea acreage surpassed the 100,000 acre mark in 2019. Just six years earlier, in 2013, total inspected pea acreage was less than 60,000 acres.

"We've been getting a lot of calls about peas," Fedoruk said recently.

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CSGA's national membership declined by

6.7%
IN 2019

to 3,224, down from 3,456 in 2018.

» continued from page 31

"First of all, I think the varieties are getting better and better. They have better standability, they're producing bigger yields and they have better disease resistance, so the uptake, in our area anyway, has been growing."

"Also, farmers are using them in their rotations more often because they're seeing the beneficial impact that they can have on soil health. And, on top of everything else, prices have been fairly steady."

Fedoruk said per acre returns on peas have been reasonably good compared to other crops, such as soybeans.

Soybean yields in many parts of Saskatchewan were disappointing in 2019 and weather conditions were not well suited to the crop.

That would help to explain why pedigreed soybean acres saw such a huge year-over-year decline in 2019.

Saskatchewan's pedigreed soybean acreage was listed at 4,343 acres last year, down from more than 17,000 acres in 2018. That's a 75 percent year-over-year reduction.

Manitoba's pedigreed soybean numbers also saw a significant reduction in 2019, dropping from 204,000 acres in 2018 to 140,000 acres last year, a decline of more than 31 percent.

"Guys just aren't jumping on the soybean bandwagon like we thought they would," Fedoruk said.

"They just haven't had great success in our area and they haven't produced the yields that maybe some farmers in Manitoba have gotten. As a result, there just hasn't been a big demand for them in our area at least."

Canada's pedigreed seed growers have been busy multiplying new varieties of other crop kinds.

A total of 983 Breeder seed plots were inspected last year, compared to 947 in 2018.

2019 CANADIAN SEED GROWERS' ASSOCIATION NOVEMBER ACREAGE REPORT

CROP KIND	QUE.	ONT.	MAN.	SASK.	ALTA.	B.C.
Alfalfa	--	--	10,354	13,714	31,286	--
Barley	7,454	3,551	13,909	47,136	59,221	343
Bean	--	3,107	1,134	54	643	--
Birdsfoot Trefoil	--	--	3,109	100	--	--
Bromegrass	--	--	544	2,497	4,246	481
Buckwheat	348	--	610	--	--	--
Canarygrass	--	--	150	55	25	--
Canola	--	98	--	121	51,182	--
Chickpea	--	--	--	1,445	1,416	--
Clover	--	--	277	2,312	1,854	--
Fababean	--	--	406	2,734	3,373	--
Fescue	--	--	5,374	1,840	6,369	610
Flax	30	--	4,822	13,656	7,842	48
Hemp	431	760	1,432	2,969	1,217	--
Hybrid Corn	--	17,787	--	--	--	--
Lentil	--	--	--	22,752	3,288	--
Mustard	--	--	245	880	1,244	--
Oat	11,613	4,571	23,718	19,605	12,039	539
Pea	247	15	9,657	51,659	42,591	492
Rye	162	83	1,430	773	2,425	--
Ryegrass	--	--	21,223	2,331	1,118	--
Soybean	47,428	124,534	140,395	4,343	285	--
Timothy	--	--	10,957	4,209	8,604	1,643
Triticale	196	156	471	1,269	4,756	--
Wheat	16,157	16,934	91,382	131,585	100,626	1,305
Wheatgrass	--	--	10	1,349	5,326	30
Minor crops	--	1	144	680	784	--
All crops 2019	84,066	171,596	341,753	330,067	351,760	5,491
All crops 2018	86,749	174,728	380,139	324,284	349,340	5,070
All crops 2017	87,139	178,398	390,982	330,473	345,766	6,874
All crops 2016	93,684	181,200	357,791	327,480	345,216	5,655
All crops 2015	99,692	193,732	380,131	333,293	304,971	6,426

Inspections conducted on Select seed plots were up from 1,518 in 2018 to 1,618 in 2019.

Across Canada and across the West, CSGA's membership numbers continued on a downward trend. The number of current pedigreed seed growers in the CSGA's database for 2019 included 489 growers in Saskatchewan (down 19 members from 2018), 699 growers in Alberta (down 102 members), and 708 growers in Manitoba

(down 47 members).

CSGA's national membership in 2019 was 3,224, down from 3,456 a year earlier (-6.7 percent).

CSGA membership numbers were down in every Canadian province in 2019, with the exception of New Brunswick, which saw its provincial membership increase to 22 members last year, up from 14 members in 2018.

A CHAT WITH FP GENETICS' CHRIS CHURKO

SPECIAL TO SASKSEED

Chris Churko's name is well known in the Western Canadian cereal seed industry but recently, the title on his name plate changed. In mid-September, Churko was named chief executive officer of FP Genetics, a Canadian seed company that's owned by 160 shareholders, most of whom are pedigreed seed growers.

SaskSeed sat down with Churko late last year to get his perspectives on the challenges and opportunities that lay ahead.

SS: Thanks for sitting down with us, Chris. Please tell us about your new position.

CC: My new title is chief executive officer of FP Genetics. I took over the position Sept. 18, 2019, replacing outgoing CEO Rod Merryweather.

SS: Tell us a bit about your background.

CC: I've been in the seed business for the past 12 or 13 years. I moved over to FP Genetics from Alliance Seed, which is another cereal seed company, and before that I was with Viterra as product manager for

cereals and special crops. I also spent eight or nine years in retail with Richardson's in both farm supplies and grain. I also did a little stint with Farm Credit Canada as well.

SS: How did you end up at FP Genetics?

CC: Sometimes, timing is everything. A lot of my previous experience in the cereal seed business had really been with grain-company owned facilities, so your goals are a little bit different and your philosophy is a little bit different. After the time I spent in the industry, it seemed like the timing was right for a change. It just seemed like a good time to move into the next phase of the business, and that's when the opportunity at FP Genetics popped up.

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We talk so much about value in the seed industry and what better way to deliver value to grain producers than working with your local cereal seed experts — the seed growers in your community who are absolutely committed to delivering value to their neighbours?

» continued from page 33

SS: What makes this position so unique and so appealing?

CC: The opportunity is really attractive because FP Genetics, if you're not aware, is owned by 160 plus seed growers and in that regard, it's an ownership model that's a bit unusual. The opportunity to work directly with seed growers was really attractive and I think it's a great opportunity to move the business forward. We talk so much about value in the seed industry, and what better way to deliver value to grain producers than working with your local cereal seed experts — the seed growers in your community who are absolutely committed to delivering value to their neighbours?

SS: Tell us about your first few months at FP Genetics.

CC: The first few months have been good. On the one hand, you look at it and you think that the cereal seed business is somewhat the same no matter where you go — it's the nuances in terms of the ownership that really makes it different. As far as familiarity with the seed products is concerned, you know them fairly well because you were a competitor to them before. But what I really have observed here since I've joined FP Genetics is the passion in our people and our shareholders, and I think that's what's going to make this a lot of fun. In terms of getting up to speed with the processes and the culture, I mean the process of acquiring seed varieties and moving them forward is pretty standard. The challenging and exciting

part is really when you hit that commercialization piece and move a new variety into the marketplace.

SS: What are the keys to building a successful seed portfolio?

CC: I think it's always important to look at the value of new products not only for seed growers but also for farmers, from an agronomic perspective, and also from a marketing perspective. We always need to be confident, when we're coming to market with a new product, that we have something that legitimately fits all parts of the value chain. If we're successful in linking all of those pieces in the supply chain, our shareholders and the producers that use our products will benefit

continued on page 36 >>

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SS: Tell us about FP Genetics' current seed portfolio.

CC: The FP Genetics portfolio consists of wheat, durum, barley, oats, peas, lentils, flax and rye. Right now, we have about 50-some odd active varieties in our portfolio, and I'd actually tell you that's too many. Some of them are maybe a little bit old and getting a little bit dated.

Some have moved in some geographic regions and they still work well for people. But we're obviously looking all the time for new genetics and new opportunities. In a sense, we're trying to hone down our message a bit but we still want to make sure that we bring together the agronomic traits that we're trying to build and the end-use quality that we're trying to build. So even though... our total portfolio might get a bit smaller, the value that can be pulled out of it will get bigger.

SS: Tell us about a few of the more successful varieties in your current portfolio.

CC: In wheat, one of our leading products is AAC Viewfield. Given the harvest that we had in 2019, it really proved its value. It's a phenotype that a lot of farmers are looking for — a short, strong standing wheat that's almost bullet-proof.

Regardless of the conditions, whether it's drought or whether it's wet, it handles all of the conditions very well. It also has one of the strongest sprout ratings and given the harvest season that we just had, that's pretty important.

CDC Landmark, which was the first semi-dwarf midge tolerant CWRS variety

out there with high yield potential, is also moving very well for us and it's one that growers have really latched on to and have moved very well.

As far as new additions to the FP Genetics portfolio, I think they'll really be the next evolution of what we currently have. When you're trying to move your portfolio forward, it's often not about some dramatic gain. It's really about strategically chasing the next step in your process.

So, if you look in the rear-view mirror and see that a specific variety was a good variety that performed well, your next goal is to find those little things that make it just a bit better for growers or farmers, so it might be better sprout tolerance or it might be a little bit higher protein.

Whatever it happens to be, we're always looking for that extra piece, that incremental improvement that meets our growers' needs.

SS: How about new varieties in the pipeline? What's coming up that commercial growers should know about?

CC: We have some exciting new varieties coming. Certainly, in peas, we have AAC Chrome, which is the highest yielding yellow pea in Zones 1 and 2. It's a really nice variety with lots of positive feedback and great demand.

That's in full launch this year. Coming out right after that is AAC Profit, which is the highest yielding yellow pea in Zones 3 and 4. What's really cool about that variety is the protein level. It's consistently about 1.5 percent higher than AAC Chrome, so that's certainly something that has the end-users looking, and from our perspective, it's a very important trait that we have to continue to look at.

While today, there may not be the financial reward attached to that additional protein for framers, we believe the market will eventually evolve to recognize that additional value.

In oats, we're launching CDC Arborg in 2020. That's been a really fascinating variety in that it's not often you have millers and end-users asking for a variety long before it ever hits the market. What makes it unique is that it consistently has a one percent higher beta glucan level than anything else that's out there. For Arborg, 2020 is our full launch and we have a number of end users that already have programs and contracted acres out there. It's a high yielding variety and for anyone currently growing AC Morgan, we think CDC Arborg is a similar phenotype that growers will like, with a higher demand on the back end.

SS: Discussions about seed value creation have been generating a lot of interest lately. What are your thoughts on the issue?

CC: I think, given time, everyone in the system will understand that value creation just makes sense. Whether its erosion of funding or whether it's the value of the dollar coming down over time, it's indisputable that the total value of investment in breeding right now is on a bit of a decline.

We learned recently that Syngenta Canada is getting out of cereal breeding, and I'm sure, in part, that decision had something to do with the opportunities to make an adequate return on investment. This is a concern — it should be a concern — for everybody.

When we talk about value capture in the

seed industry, we may disagree on the vehicle to get there, but at least we all agree that there's a need.

So when we look at the future, whatever model happens to gain support or whatever happens to develop there, at the end of the day, that investment is for the betterment of the whole industry, including farmers.

Genetic gain is half of the story. But what genetic gain does is it also affords us the opportunity to invest more in agronomy as well... So if we talk about net yield being about 50 percent genetics and 50 percent agronomy, anything we can do to support both sides of that equation is going to be a win for us, as an industry.

There's also lots of discussion about whether we need more wheat. Well, maybe not on the total pile currently, but this is really about the total return on an acre. Will we ever get returns on wheat to the

level of canola, on a per acre basis? Maybe not, but we should certainly try. We need to invest in ourselves to take our industry into the future.

SS: How about Seed Synergy? What are your views on amalgamating the various organizations currently involved in the commercial seed trade?

CC: As far as Seed Synergy is concerned, it's a situation, to me, that just makes sense. There are obvious efficiencies that the industry will gain by amalgamating — duplication of buildings, for example, duplication of services.... But there's also a philosophical reason, I think.

As a seed industry, all we're really trying to do is force ourselves to collectively come to one place. Historically, we have all been big fish in our own ponds. We all have great ideas and we agree on the ma-

majority of the issues all of the time.

But by operating as separate entities, I think what that's done is it's fractured our voice a bit so when we're trying to talk to the public or we're trying to talk to government about a specific issue, it makes it somewhat difficult for them to hear the full message.

Seed Synergy is not a scary process. It's really just about trying to force those of us in the seed industry to find our own consensus on issues before we turn outside and ask others to align with us.

Really, it's about taking this set of well-respected organizations and moving them into the next hundred years. I think it's going to take some time to muddle through all of it, but what I firmly believe is that absolutely every one of us has the same goal in mind, which is to continue to build an industry that works for itself and ultimately works for farmers.



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If you look in the rear-view mirror and see that a specific variety was a good variety that performed well, your next goal is to find those little things that make it just a bit better for growers or farmers.... Whatever it happens to be, we're always looking for that extra piece, that incremental improvement that meets our growers' needs.

NEW BARLEY VARIETIES GAINING TRACTION

SPECIAL TO SASKSEED

AC Metcalfe and CDC Copeland continued to dominate prairie malt barley production in 2019, but a handful of promising new barley varieties may be poised to gain significant acres.

"I think we're going to see a change (in varietal preferences) over the next couple of years," said Gina Feist, executive director of the Brewing and Malting Barley Research Institute (BMBRI).

"We do have a number of new barley varieties available and the initial look at them does appear that they're working well for end-users."

"Once we have a variety acceptance strategy in place, that's going to help us to accelerate the uptake of these varieties, which could be a good replacement for Metcalfe and Copeland."

In recent years, AAC Synergy has made impressive inroads in terms of commercial plantings.

Distributed through Syngenta's network of affiliated seed growers, AAC Synergy continues to gain commercial ground in the West as its attributes prove favourable among maltsters and brewers in Canada and around the world.

In 2019, AAC Synergy was grown on more than half a million acres of insured Western Canadian cropland, according to data from provincial crop insurance programs.

That's 19 percent of all insured malt barley acres in the West.

By comparison, CDC Copeland was planted on more than 1.15 million insured acres (44 percent of total insured malt barley acres) and AC Metcalfe commanded more than 625,000 acres (24 percent).

19%

of all insured malt barley acres in 2019 in Western Canada was seeded to AAC Synergy. That's more than half a million acres.

AAC Connect is another variety that has a promising future.

Developed by Agriculture and Agri-Food Canada in Brandon and distributed by Canterra, AAC Connect has good standability and a robust disease package.

Over four years of regional variety trial testing coordinated by the Saskatchewan Variety Performance Group and the Saskatchewan Advisory Council on Grain Crops, AAC Connect outyielded the check variety AC Metcalfe by 13 percent in test areas 1 and 2 and by six percent in test areas 3 and 4.

Canada Malt and Prairie Malt contracted limited quantities of this variety in 2019. A large maltster in China is also trying AAC Connect so there is hope that international demand for the variety might build.

CDC Fraser and CDC Bow have also shown significant potential.

Canada Malt is already testing CDC Fraser. The company bought 550,000 tonnes of CDC Fraser last year for processing at Calgary, Thunder Bay and Montreal.

So far, only small batches have been run due to limited commercial supplies.

In Saskatchewan, about 4,000 acres of CDC Fraser production were insured under Saskatchewan's provincial crop insurance program in 2019, compared to 7,000 acres in Alberta.

Insured acres of CDC Bow were slightly higher, including 19,000 acres in Saskatchewan and 33,000 acres in Alberta.

In a 2019 interview with the Western Producer, Canada Malt spokesperson Bob Chappell said new malt barley varieties such as CDC Bow and CDC Fraser are gaining traction among craft breweries, as well as large brewing companies.

"We are really hoping that Bow or Fraser will turn out to be a Metcalfe replacement," he said.



New barley varieties such as CDC Bow and CDC Fraser could gain traction as alternatives to industry-dominant varieties such as AC Metcalfe. | FILE PHOTO

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UNIQUE BARLEY PROJECT SHEDS LIGHT ON NEW VARIETY

SPECIAL TO SASKSEED

In the competitive world of commercial malting and brewing, many promising new barley varieties never see the light of day.

That's because big brewing companies are often reluctant to change a popular and successful brewing recipe and try something new.

Matt Enns, a micro-maltster based in central Saskatchewan, is doing his part to ensure that one of Saskatchewan's most promising new barley varieties gets a fair shake.

Enns, the owner of Rosthern-based Maker's Malt, recently took part in a pilot project involving CDC Bow barley, a malting variety developed by the Crop Development Centre (CDC) at the University of Saskatchewan in Saskatoon and distributed through SeCan.

The so-called Bow Project was aimed at getting supplies of malted CDC Bow into the hands of Saskatchewan-based craft brewers.

The brewers' task? Use the malt and assess CDC Bow's brewhouse performance, its taste and its suitability for craft beer production.

"The Bow Project started when SeCan approached Maker's Malt and asked if we'd be willing to malt and distribute Bow to some of the craft brewers in Saskatchewan," Enns said.

"We immediately agreed."

"Agronomically, Bow is really strong. It produces a heavy, robust crop with good yields and it also stands up very well, which means it's less prone to quality issues like chitting."

"With this project, we'll get a chance to learn more about its malting and brewing characteristics and see if it's a good fit for the craft brewing market."

CDC Bow is a relatively new variety to Saskatchewan, but brewing tests at the Canadian Malting Barley Technical Centre (CMBTC) in Winnipeg have already identified it as a variety with promising potential, particularly in the craft market.

In late 2018, it was included on the CMBTC's Recommended Varieties list with



Matt Enns of Makers Malt in Rosthern, Sask., inspects a recent batch of malt made with Bow barley. Makers has been malting local grown barley since early 2018. Finished malt is sold to craft brewers, mostly in Saskatchewan. | WP PHOTO BY BRIAN CROSS

market demand described as "growing."

The variety was developed by Aaron Beattie at the CDC and was registered in mid-2015. It has been available to the province's commercial barley growers since late 2017.

Acreage of CDC Bow is still relatively small. In 2019, total insured acreage in Saskatchewan was just a hair shy of 19,000 acres, according to data from the Saskatchewan Crop Insurance Corporation.

But Enns' experience with the variety has been positive.

Over several years of testing by the Saskatchewan Variety Performance Group (SVPG), CDC Bow out-yielded the check variety, AC Metcalfe, by 11 percent and earned a VG (very good) rating for lodging resistance.

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At the request of SeCan, Maker's malted two batches of CDC Bow at its new micro-malting facility in Rosthern and distributed more than 200 bags of finished malt to 14 craft brewers in the province.

The product was also made available to members of home brewing clubs in Saskatoon and Regina.

"We managed to get a really good percentage of the province's craft brewers involved, so we're hoping to learn as much as we can about its malting and brewing performance," Enns said.

"For example, we'll get a chance to see if Bow shines in a simple smash, where you get a sense of its malting characteristics. Or does it shine in a high gravity beer, and are there certain beer styles or flavours where its characteristics come through?"

Enns said the project will generate a wide range of information about CDC Bow's brewhouse performance.

Technical data that's generated will look at issues such as brew house efficiency and extract levels.

Subjective feedback will also be collected and reviewed, based on brewers' experiences with the variety and the taste profiles exhibited in finished beers.

Participating craft brewers were given quite a bit of latitude in determining how the malt would be used and tested, Enns said.

Some brewers used it in unique or new beer recipes. Others used it in existing recipes and compared the outcomes with the same beer made from different barley varieties. In one instance, a Saskatoon-based brewer used CDC Bow in its Kolsch-style beer recipe and compared the outcomes with the same recipe made with CDC Copeland malt.

At the end of the project, experienced beer drinkers with "educated beer palates" sampled and compared the beers in a head-to-head taste test held in Regina.

Enns said the pilot project helped a

promising new made-in-Saskatchewan barley variety gain important exposure among craft brewers.

"When you're selling craft beers, quality is very important, but it also helps if you have a story to tell," Enns said.

"The story of Bow barley in Saskatchewan is pretty amazing."

"It was developed by Aaron Beattie at the U of S — about 60 kilometres down the road — it's gaining attention among the province's barley growers and we think it's a great fit for Saskatchewan craft brewers."

Enns said today's consumers are interested in knowing that the products they consume contain quality, local ingredients.

"Farm-to-fork" stories resonate with all types of consumers, including beer drinkers, he added.

"Maybe people that don't even drink a lot of beer or follow the malting and brewing industries will hear this story and think it's great," Enns said.

"We're hoping we'll get a lot of traction."

CS ACCELERATE ADDED TO WARBURTONS PROGRAM FOR 2020

Along with extensive testing to make sure it possessed end-use baking qualities, like dough and bread quality, LCRC also considered the need for high, reliable grain yields, making CS Accelerate a productive choice for Canadian farmers. | FILE PHOTO

SPECIAL TO SASKSEED

CS Accelerate, developed by Limagrain Cereals Research Canada (LCRC) in partnership with Canterra Seeds, is the latest wheat variety to be accepted in the Warburtons Canadian Identity Preserved Program (IP Program).

"This is very exciting for everyone at Canterra Seeds," said Rick Love, Canterra's pedigreed seed business manager.

"Warburtons has very high quality standards. They take a lot of pride in their products. It is really rewarding to see CS Accelerate be a part of this program and be recognized for its quality."

CS Accelerate is a Canadian Prairie Spring Red (CPSR) wheat, typically considered a mid-protein but high functioning quality milling wheat.

During the registration and testing process, Canterra saw that CS Accelerate possessed inherent value not fully captured by its classification.

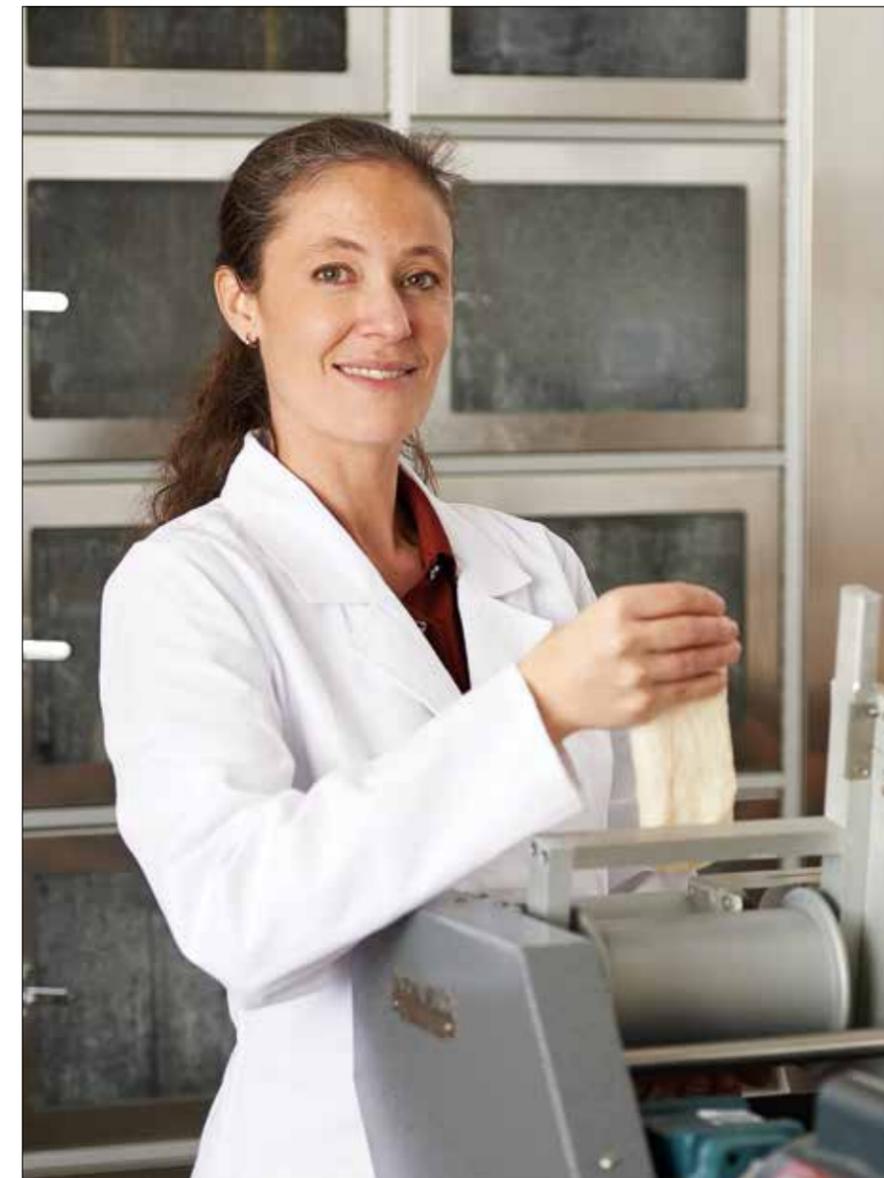
Warburtons has a 26-year history of sourcing Canadian wheat with the end-use quality and providing premium bread products to United Kingdom consumers through the prestigious IP Program.

CS Accelerate was the only new wheat variety added to the contract program for 2020.

The announcement marks an important collaborative milestone for Canterra, Warburtons and Limagrain Cereals Research Canada (LCRC).

The three companies worked together leading up to CS Accelerate's commercialization for spring 2020 to evaluate its quality for the Warburtons program.

"We've been evaluating CS Accelerate for three years," said Adam Dyck, Warburtons



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program manager for Western Canada.

"In 2018, we had seen a couple of years of strong performance and really, really good bread quality. CS Accelerate's performance in 2019 cemented our view that this is a Warburtons quality wheat."

Along with extensive testing to make sure it possessed end-use baking qualities, like dough and bread quality, LCRC also considered the need for high, reliable grain yields, making CS Accelerate a productive choice for Canadian farmers.

"Combining high end-use quality with high grain yield is quite a challenge," said Jason Reinheimer, senior breeder with LCRC.

"CS Accelerate is unique as it can provide the high grain volumes per acre desired by farmers while being very desirable to millers and bakers through its great functional and end-use quality."

LCRC was established in 2015 as a joint venture between Western Canadian-based Canterra and France-based Limagrain, the fourth largest seed company in the world.

LCRC's mission is to develop superior ce-

real varieties to meet the needs of Western Canadian farmers and their customers.

After four years in operation, LCRC now has two wheat varieties that will be available to commercial grain growers in 2020. In addition to CS Accelerate, CD Daybreak — a CWRS variety — will be available in limited quantities.

"LCRC has only been operating in Canada for a short period of time but has been very focused on understanding where it can best add the highest value," says Reinheimer.

"The Warburtons program has been one of

many focus points for LCRC and for us to deliver in such a short period of time shows the capability of LCRC to achieve its mission."

Canterra and Warburtons have a long history of working together in Canada.

Canterra wheat varieties such as Glenn, AAC Cameron VB and AAC W1876 have been an important part of the Warburtons' program in Canada.

AAC W1876 was named as a tribute to Warburtons, a British baking firm founded in 1876 by Thomas Warburton of Bolton, Lancashire, England.

"We have a lot of trust in the leadership

and staff at Canterra," said Dyck.

"We've been able to really get to know each other and look at what each party can bring to the table. It is a real testament to Canterra and LCRC that they brought CS Accelerate to the market very quickly, while at the same time, allowing us to test and identify it as a Warburtons variety."

Canterra and LCRC hope CS Accelerate will be the first of many wheat varieties coming out of the LCRC breeding program that will give Canadian farmers both strong agronomic options and products that are in high demand by end users.

"The more opportunities we can find where an end-user is actively sourcing and asking for products from Canadian farmers, the less uncertainty there is," said Love.

"We are proud to give them this added confidence in their planting decisions, right through to their grain marketing decisions."

Farmers can inquire about production contract details when booking their seed.

Warburtons IP production contracts are available at select Paterson Grain and Richardson Pioneer locations across the eastern Prairies.



LCRC's mission is to develop superior cereal varieties to meet the needs of Western Canadian farmers and their customers. | FILE PHOTO

SYNGENTA SHUTTERS CANADIAN CEREAL BREEDING PROGRAM

SPECIAL TO SASKSEED

One of the largest seed companies in the world is winding down its cereal breeding program in Canada.

In mid-November, Syngenta Canada announced plans to discontinue its Canadian cereal seed research and development program by Jan. 1, 2020.

The company will continue to operate cereal breeding programs in other countries, including the United States, but will cease wheat and barley breeding and trialing operations in Canada by the end of the calendar year, the company said in a news release dated Nov. 13.

The decision will affect five employees across Western Canada.

Dan Wright, who leads Syngenta Canada's seed business, said the company will remain involved in the development of corn and soybean varieties aimed at the Canadian marketplace.

All of Syngenta's existing research and development facilities in Canada will remain open.

The development and commercialization of made-in-Canada soybean and corn varieties will remain a priority for the company, Wright added.

"We'll continue research and development (in those crops) ..." he said.

"We've certainly been doing a significant amount of work on corn and soybeans in Western Canada ... and that remains a focus point for Syngenta."

Syngenta's existing cereal seed products account for a relatively small portion of total Canadian cereal grain production.

Total Canadian acreage has been increasing, however in 2019, Syngenta wheat varieties were sown on fewer than 15,000 acres of farmland across the West.

Existing Syngenta cereal seed varieties that have already been commercialized in Canada or are close to commercialization will not be impacted by the decision, Wright said.

Cereal seed products already on the market including CWRS wheat varieties SY Obsidian, SY Sovite, SY479 VB, SY

Slate, as well as CPSR wheat SY Rowyn and barley varieties Sirish and AAC Synergy, will not be affected by the decision.

All of those varieties will still be available to commercial growers in 2020 and beyond and will be distributed through established channels.

Additional Syngenta cereal varieties that are currently in multiplication including SY Torach, SY Gabbro and SY Chert VB, will also be unaffected and will continue to move forward into the commercial seed market.

Syngenta Canada also has five additional wheat lines — four in the CWRS class and one in the CPSR class — that were supported for registration by the Prairie Grain Development Committee (PGDC) in early 2019.

Those yet-to-be-named varieties will also move forward but they will be the last made-in-Canada cereal seed varieties developed by the company.

"Everything that's in the marketplace currently ... remains unaffected," Wright said.

"(Existing cereal) varieties will continue in the marketplace. We also have some

Syngenta is one of the global leaders in cereal development. Yes, they're one of our competitors ... but when you see a major player like Syngenta throw in the towel and say — OK, we're out of it — that's really disappointing.

DAVE HANSEN | PRESIDENT AND CHIEF EXECUTIVE OFFICER, CANTERRA SEEDS

varieties that we've been moving through that are in the late stages, close to commercialization. Those will continue to move through."

"It's really only the early stage products that this (decision) will affect."

Syngenta's decision to discontinue Canadian cereal breeding comes about a year after the company's withdrawal from hybrid wheat research in Canada.

In late 2018, the company announced that it was cutting its hybrid wheat research program in Canada.

At the time, Syngenta said it would continue to invest in hybrid wheat, but was reallocating its global resources.

"We are prioritizing our research and development investments for hybrid wheat in Europe, where our program is most advanced and where we are closest to being able to successfully commercialize this innovation," Chris Davison, head of corporate affairs with

Syngenta Canada, said at the time.

"We will look to transfer our experience in Europe to North America when ready. In the meantime, in North America, we will continue to invest in research and development for our varietal portfolio to ensure growers have access to strong, competitive varieties, something we have been doing in Canada for over 40 years."

News of Syngenta's withdrawal from Canadian cereal breeding has prompted some seed industry observers to question whether company's decision is linked to seed royalties.

The Canadian seed trade has been pushing for implementation of a new seed royalty collection system that would allow seed companies and breeding institutions to generate more revenue from the new seed varieties they develop.

Wright said Syngenta's decision to discontinue cereal breeding operations in Canada was made "independent of consultations regarding the seed value capture system in Canada."

"That being said, the discussions that have taken place and are taking place (around seed royalties) I think highlight some of the challenges in the Canadian marketplace today," he added.

Dave Hansen, president and chief executive officer of Canterra Seeds, said

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Syngenta's decision to curtail its Canadian cereal breeding program was disappointing and concerning.

He said the company's decision suggests the financial returns currently available to Canadian cereal breeding companies, trait developers and seed developers are inadequate and do not justify the investments required or the risks involved.

"It was a bad day," Hansen told *SaskSeed*. "Syngenta is one of the global leaders in cereal development. Yes, they're one of our competitors ... but when you see a major player like Syngenta throw in the towel and say — OK, we're out of it — that's really disappointing."

Hansen suggested that the ability to generate greater returns on the new cereal varieties that are commercialized in Canada might have prompted Syngenta

to continue its Canadian program.

"Look, I'm not sitting in their board room so obviously I don't have a complete understanding of what influenced their decision, but you can look at it from the outside and say — well, they obviously didn't see any reason or any value in sticking around."

"That's concerning because they really did put in the time and the effort to try and make it work in Canada..."

Trevor Heck, president of Syngenta Canada, said the company's withdrawal from Canadian cereal breeding was a business decision and was not related to the performance of the cereal seed research and development team members.

"The staff have performed at a high level, and Syngenta values the team members for their knowledge, skills, experience and contributions over many years," Heck said.

"We also understand the personal impact this decision has on these colleagues and their families, and we will work with them through this transition, providing them with comprehensive support."

Syngenta plans to grow its overall business in Canada and will allocate resources and investments to support that growth, he added.

Syngenta's products, including crop protection products and seed varieties, are tested across Canada at Syngenta-owned facilities and through partnerships with growers and third-party co-operators.

The company operates three fully-owned research stations in Canada, located at Arva, Ont., Plattsville, Ont., and Portage la Prairie, Man.

It also operates satellite research sites near Calgary, Regina and Saskatoon.

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INDUSTRY TO ESTABLISH MALTING BARLEY ACCEPTANCE STRATEGY

SPECIAL TO SASKSEED

Over the last 10 years or so, a lot of new and agronomically improved malt barley varieties have been developed and commercialized in Canada.

New varieties such as CDC Bow, AAC Connect, CDC Fraser, and Lowe — to name just a few — offer significant improvements in yield potential, lodging resistance and disease resistance.

Yet, the total acreage planted to new and agronomically improved malt barley varieties remains small in Western Canada.

Older varieties like AC Metcalfe and CDC Copeland continue to dominate acreage.

“Right now, the malt barley varieties that are still dominant in Western Canada are Metcalfe and Copeland, although we are seeing an increase in the variety AAC Syn-

ergy,” said Gina Feist, executive director of the Brewing and Malting Barley Research Institute (BMBRI).

“In 2009, we had about 75 percent of ... (malt barley) acres in Metcalfe and Copeland. And in 2019, we still had about 75 percent of the seeded area in Metcalfe and Copeland ... so we really have had a lot of varietal lock-in over the last couple of decades.”

In mid-November, Feist was part of a panel discussion that looked at “varietal lock-in” and other issues affecting the Canadian malt barley industry.

Among other things, the panel — part of the 2019 Interprovincial Seed Growers Meeting in Saskatoon — suggested that while promising new malt barley varieties are available to Western Canadian growers, the uptake of those varieties continues to be hindered by limited market demand. Specifically, large malt houses and large

adjunct breweries that are accustomed to using Canadian varieties like AC Metcalfe and CDC Copeland are reluctant to introduce new varieties into their processing facilities.

From their perspective, AC Metcalfe and CDC Copeland are working just fine. And when a large multinational brewing company lands on a variety that’s known for producing high-quality beer that consumers like, they’re unlikely to switch to something new at the drop of a hat.

This is the challenge facing many of Canada’s newest and most productive malting barley varieties, said Bryan Harvey, a long-time cereal breeder from the University of Saskatchewan who also serves as an academic advisor to the Canadian Seed Growers Association (CSGA).

“This is the bane of malting barley breeders for sure,” Harvey said recently.

Honestly, I don't have a really good explanation as to why, in the last 20 years, there hasn't been much turnover in these varieties, other than the fact that Metcalfe and Copeland have been working very well for the malting and brewing industries.

GINA FEIST | BMBRI EXECUTIVE DIRECTOR



“Over the past 40 years, I’ve given a lot of thought to this and if I had a magic bullet, I would have already let people know about it.”

In a recent interview with *SaskSeed*, Harvey said there are a number of factors that influence the malt barley preferences of large brewers.

For starters, brewing is a complex biological process, Harvey said.

The fermentation process that occurs during brewing can be subtly influenced by small variations in timing, temperature and the use of brewing adjuncts, such as rice.

That complexity and the potentially variability that can be exhibited in finished beer represents a huge business risk for brewers.

“Brewers have many, many things to consider, so the fewer variables they have to deal with, the better,” Harvey said.

“Brewing is also a very competitive business so if they’ve got a successful formula that’s working for them, they don’t want to mess with it.”

The volume of malt barley produced is another risk factor.

For example, if CDC Copeland is grown on more than one million acres of Western Canadian farmland each year, there is a

reasonably good chance that maltsters and brewers will have significant quantities of top quality barley to choose from.

But if a promising new malt barley variety is grown on relatively small acreage, there is a larger chance that production problems could affect a significant portion of total production, meaning the pool of high-quality barley that brewers and maltsters must choose from is lower.

From a grower’s perspective, it may seem like there’s no obvious reason why a promising new high-yielding barley variety such as CDC Bow couldn’t quickly replace a long-time incumbent like AC Metcalfe.

But in reality, it takes time, Harvey said. “That’s all we can do is keep demonstrating to brewers that the barley we grow makes very good beer.”

It should also be recognized that AC Metcalfe and CDC Copeland are top quality barley varieties with exceptional end-use characteristics.

In Canadian terms, they’re the Gretzkys of the brewing world, at least from the brewers’ perspective.

“To be fair, Metcalfe and Copeland are very good varieties and they’ve performed very well in the malt houses and in the breweries,” said Feist.

“Honestly, I don’t have a really good ex-

planation as to why, in the last 20 years, there hasn’t been much turnover in these varieties, other than the fact that Metcalfe and Copeland have been working very well for the malting and brewing industries.”

Large maltsters and brewers are generally more concerned about a barley variety’s end-use performance than they are about its agronomic performance or yield potential, Harvey added.

Even if a new variety is tested and performs admirably in the brewery, beer makers are often reluctant to incorporate it into their recipes.

They don’t necessarily want better barley, Harvey told seed growers in Saskatoon recently. They want the same barley.

There is hope for new and agronomically improved barley varieties that perform well in Western Canada.

According to Feist, the Canadian malting barley industry is taking steps to ensure that new Canadian barley varieties get a closer look at malt houses and breweries at home and around the world.

In 2019, members of the Canadian Barley Industry Roundtable launched a number of new initiatives aimed at strengthening the Canadian barley industry.

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Among those initiatives was the creation of a Canadian malt barley variety acceptance strategy.

The strategy, currently in its early stages of development, is aimed at bridging the gap between barley growers, barley breeders and end-users of Canadian barley, including large malting and brewing companies.

Feist said one of the keys to developing a successful acceptance strategy is improving co-ordination and communication throughout the barley supply chain.

The Brewing and Malt Barley Research Institute (BMBRI) along with the Canadian Malt Barley Technical Centre (CMBTC) will serve as co-chairs on the project.

“We’re looking to (build) ... more alignment and co-ordination in the industry ... to accelerate some of the testing of these new varieties,” Feist said.

“We want to be sure that there’s that sharing of information back to the seed companies and ensure that there’s adequate seed available (we need) for testing on those that look like they might have potential.”

Feist said malt houses and breweries are already actively testing some new Canadian malt varieties.

The results of that testing will be shared

20%

of the beer brewed in North America each year is produced by small craft breweries.

with the Canadian barley industry, giving breeders and growers a stronger signal about how the varieties performed and which ones may be preferred for further testing in different segments of the brewing industry.

It will also be critically important to ensure that adequate supplies of promising new varieties are available for commercial testing over a number of years, and in the quantities that are needed for plant-scale testing, Feist said.

“The big adjunct brewers are global companies that are working around the world so they really want to see consistency in their products,” Feist said.

“You want to make sure that you test these varieties over a lot of years, so you

can be sure that you’re going to be able to provide that consistency over a large number of growing seasons and a wide range of growing conditions.”

Both Feist and Harvey said the North American craft industries are also providing opportunities for new Canadian malt barley varieties to gain acreage and prove their value in the commercial malting and brewing space.

By some estimates, approximately 20 percent of the beer brewed in North America each year is produced by small craft breweries.

The craft industry now consumes a significant portion of the commercial malt that’s produced each year in North America.

And the consumer’s appetite for craft or specialty beers appears to be growing.

“That’s exactly what we’ve seen is that some of these smaller malt houses and craft brewers have been able to get smaller quantities (of Canadian barley) and they’ve started doing some malting with them, as well as some testing,” Feist said.

“I do see a glimmer of hope in the rise of the craft brewing industry,” added Harvey.

“They’re producing quite a bit of beer so they’re starting to catch the attention of the big guys. And of course they (the micro-brewers) are a lot more willing to try something new.”



Laura-Lee and Jim Dyck are owners of Oat Advantage, a family owned oat breeding company based at Saskatoon. After 12 years in business, Oat Advantage released its first two oat varieties to the commercial marketplace in 2019. | PHOTO COURTESY OF OAT ADVANTAGE

OAT BREEDERS CELEBRATE SUCCESS

SPECIAL TO SASKSEED

Twenty-nineteen was banner year for Oat Advantage.

The family-owned plant breeding company celebrated the commercial release of its first two milling oat varieties, ORe3541M and ORe3542M.

Jim Dyck and his wife Laura-Lee Dyck are owners of the Saskatoon-based breeding company and have been developing new oat varieties since 2008.

With 12 years of hard-work and dedication already invested in Oat Advantage, it was hugely rewarding to see the company’s first two varieties being harvested by commercial oat growers across Western Canada last fall.

“It’s been a big year for us,” said Dyck, who began UGG’s oat breeding program before establishing his own breeding program.

“This year (2019) was our first commercial release. By my estimates, we had about 100,000 acres of our two varieties grown in

Western Canada, so that was really super.”

“Being a small, family-owned breeding company, we are a bit unique,” he added.

“But (becoming a private sector oat breeder) seemed to be almost like a logical path for me, because I already had some experience in plant breeding, I knew quite a few people in the industry and I guess I just felt that there was some room in the Western Canadian context, to do more with the crop.”

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Dyck, who grew up near Winnipeg, said he was always interested in agriculture but he wasn't drawn into agricultural research until he got a summer job with Elanco in the early 1980s.

His interest in plant breeding took off after he enrolled in the agriculture degree program at University of Manitoba.

During his undergraduate studies, Dyck was inspired by renowned teacher, plant science researcher Anna Storgaard whose lectures encouraged an interest in plant breeding.

After completing an undergraduate degree in plant science specializing in plant breeding and genetics, Dyck was offered a job at United Grain Growers' plant research facility near Morden, Man.

He was eventually charged with establishing UGG's small oat breeding program.

In 1994, he moved to Saskatoon where he continued to work with UGG while simultaneously working a Master's Degree at the University of Saskatchewan.

Dyck's academic advisor at the U of S was CDC wheat breeder Pierre Hucl.

When UGG merged with Agriscore in 2001, Dyck remained with the company and continued his involvement in oat breeding, along with other duties.

Later, Agriscore United was taken over by the Saskatchewan Wheat Pool. It was only after this change in employment that the notion of working as an independent plant breeder became more appealing.

"I think at the time, I just wanted to try something different," Dyck said.

"Laura-Lee and I already had a small

piece of land (near Saskatoon) and at the time I thought there was a bit of a vacuum developing in oat research," he said.

"It just seemed like a good option at the time because I really liked doing the work, I already had lots of friends and contacts in the oat business, and I kind of knew how the system worked from attending variety registration meetings and so on."

"It just seemed like it was a really neat opportunity to start from the beginning ... and to see how far we could go."

"Today, we're in our 12th year and our first two oat varieties are out on the market."

Dyck said the process of making crosses, selecting promising lines, getting them registered and bringing them to the commercial marketplace is a time-consuming process.

Even after a new oat variety is registered, there is no guarantee that it will prove to be a good fit for commercial growers or millers.

"It's exciting to see your varieties being grown by commercial grain farmers but it's also a challenging time," he said recently.

"I feel like we've been doing good work and it seems like our varieties offer something that adds value to the oat industry. But right now, we're really waiting on feedback from growers and millers to see if the oat varieties are a good milling fit."

"So far, the feedback has been positive." Dyck describes ORe3541M and ORe3542M as oat varieties with average maturity, slightly above average yield and much better than average lodging resistance.

Early feedback from commercial growers suggests that the varieties produce a high percentage of plump seeds and have

a lower than normal cleanout, which is a bonus for seed growers, commercial oat producers and millers.

"Based on what we've heard, they have a high level of plump seeds, lower cleanouts and thins and the quality has been very good right across the Prairies."

"We're really hoping that the millers like them because if they do, there's good chance we could see our acreage increase in 2020."

Both varieties are distributed through SeCan.

With more than a decade invested, Dyck admits that oat breeding can be an expensive and time-consuming venture with no financial guarantees.

In order to support his oat breeding activities and pay the bills, Dyck does custom work for other seed companies.

With the first royalty cheques now rolling in, Dyck is beginning to see the first financial returns from his work.

From that perspective, a new royalty collection system that generates additional revenues for the plant breeder would be a welcome development.

"When we set out in 2008 doing this kind of thing, we didn't really give much thought to the possibility of collecting additional royalties (off farm saved seed," Dyck said.

"But if they are introduced, it would certainly make a big difference.

"We keep a pretty low budget and we do have to do a lot of begging and borrowing ... to make things happen. Additional royalties, if they do come in, would certainly allow us to do a lot more research. They truly would open up the door for us to do a lot more."



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CERTIFIED SEED: IT'S ALL ABOUT QUALITY ASSURANCE

SPECIAL TO SASKSEED

What is the Canadian Seed Growers' Association and what does it do?

For many farmers in Canada, the answers to those two questions are clear.

But to others, familiarity with the CSGA is limited.

Perhaps they've heard of the association. But they may not fully understand the organization's critically important role in supporting the production of high quality pedigreed seed across the country.

The CSGA represents 4,500 seed growers across Canada.

It's key role is to provide standards for crop certification, according to Canada's Seeds Act and Regulations.

When farmers buy certified seed, they aren't just buying seed, they are buying an assurance of quality and purity.

It takes several generations for new pedigreed seed varieties to become available for commercial production.

The process begins with registered plant breeders at public and private research companies, where the breeder selects desirable traits for new variety development.

It typically takes several years for the plant breeder to assemble enough breeder seed to begin seed multiplication.

The seed is increased over a regulated number of years, depending on whether the crop is self-pollinated or open-pollinated.

Open-pollinated crops are available after fewer years to reduce cross-pollination with nearby off-type varieties.

Certified seed is the last generation, and is available to producers for commercial production.

All classes are strictly regulated to ensure seed purity is maintained, until it reaches commercial growers.

Seed purity is critically important to the pedigreed seed industry and is maintained with the help of a quality assurance system that is administered and upheld by CSGA, in collaboration with the Canadian Food Inspection Agency and other groups.

Seed purity refers to sample quality with respect to weed seeds, inert material (gravel, chaff, fungal bodies, etc.) and number of off-type seeds, as defined by the Canada Food Inspection Agency (CFIA).



Varietal purity of 99 per cent must be maintained to be classified as pedigreed seed.

To comply with this stringent quality requirement, there are three stages of pedigreed seed crop production that a successful certified grower must follow.

The first stage is crop production. During production of pedigreed seed, the land used by pedigreed seed growers must be free from off-type varieties and similar crop varieties.

As well, pre-determined isolation distances must be maintained.

Minimum isolation distances vary from crop to crop and are in place to reduce the chances of varietal contamination through cross-pollination or other means.

The pedigreed seed crop must be free of prohibited noxious weeds, as outlined in the Weed Seeds Order of the Seeds Act.

The crop must also be free of disease and must be inspected by a licenced seed crop inspector (LSCI) before harvest begins.

If the crop passes inspection the grower will be issued a crop certificate from CSGA.

To ensure varietal purity and eliminate potential contaminants, seed growers often spend much of their time roguing ped-

igreed seed crops.

This usually involves walking through the crop, row by row, and manually removing contaminants and off-types by hand.

The second stage in the process is seed storage.

Pedigreed seed growers must carefully harvest, handle, condition, and store the grain to ensure that seed purity and quality is maintained.

Equipment and storage facilities must be thoroughly cleaned, and seed from each field should be stored separately to avoid commingling.

The third stage is grading and inspection.

Grading involves germination testing and overall evaluation of seed lot quality, and an assessment of the number of weed seeds and off-type varieties in the harvested seed.

Producers who buy certified seed for planting on their commercial grain farms often ask whether the certified seed they are buying contains seed-borne diseases.

The only diseases specified in The Seeds Act are true loose smut in barley and the presence of ergot or sclerotial bodies.

Common seed-borne diseases such as ascochyta in pulses, anthracnose in lentils, fusarium in cereals, and blackleg in canola are not regulated by the Act, and thus it is buyer-beware for these diseases.

Farmers who buy certified seed are therefore encouraged to ask the seed grower whether a seed disease analysis was conducted by a commercial seed testing laboratory.

If a seed disease analysis was conducted, seed buyers can request a copy of the lab report.

Disease free seed is always recommended for planting.

The presence of weed seeds is another area of potential concern for pedigreed seed growers and seed buyers.

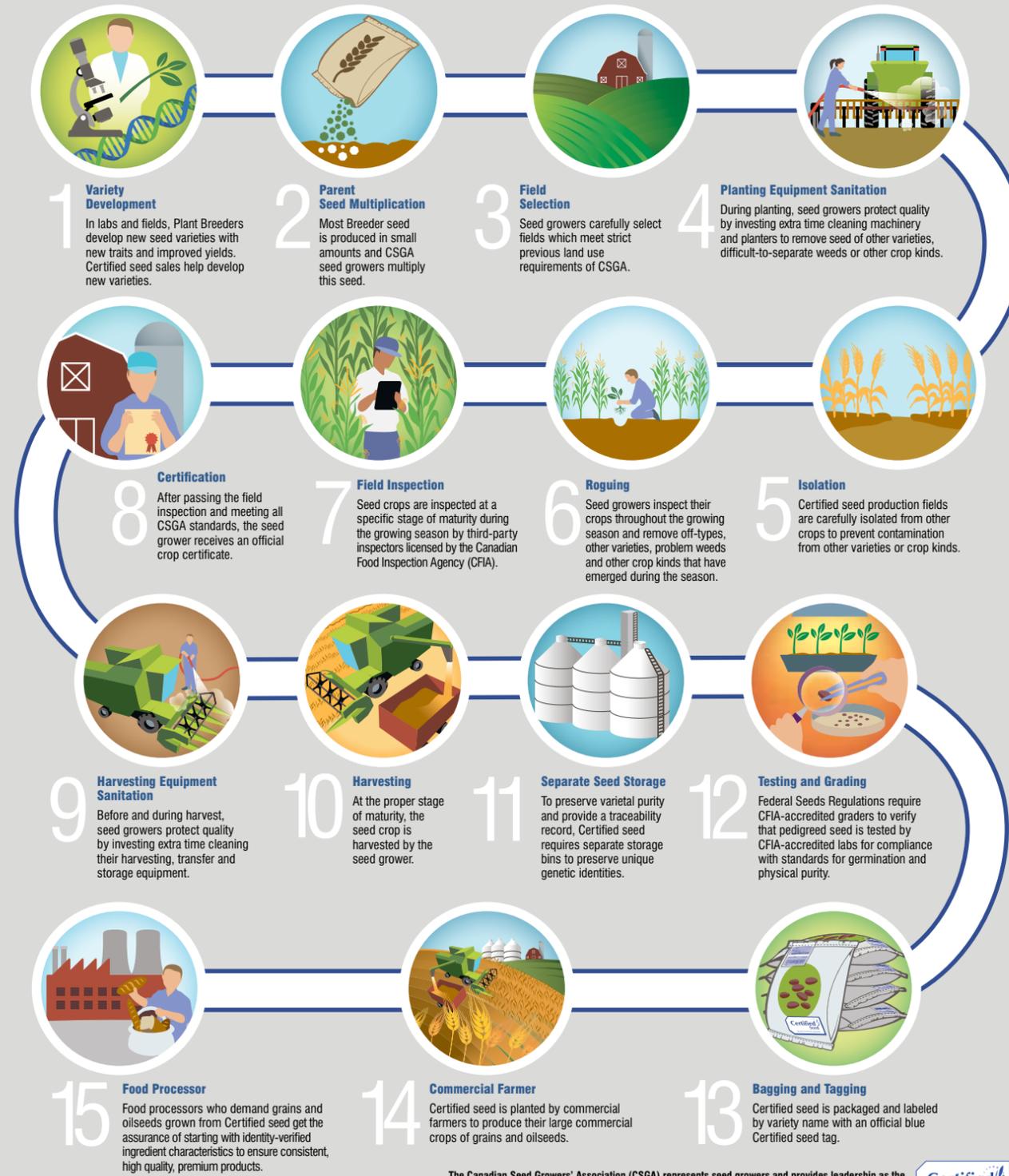
Certified seed is not guaranteed to be free of weed seeds although reputable seed growers will make every effort to ensure the seed they are selling is clean and free of impurities.

continued on page 58 >>



How is Certified Seed Produced?

www.seedgrowers.ca



The Canadian Seed Growers' Association (CSGA) represents seed growers and provides leadership as the organization that certifies the pedigreed seed crop of all agricultural crops in Canada except potatoes.



» continued from page 56

Upon request, seed dealers must provide buyers with a certificate of analysis outlining the species and number of weed seeds present.

At the Breeder, Select and Foundation levels of pedigreed production, there is almost zero tolerance for any weed seed content.

Tolerance levels are slightly higher in the Registered and Certified classes. There are also varying tolerances for the presence of different crop types.

Large seeded crops such as corn, beans and cereals typically have lower tolerances than small seeded crops such as forages, turfgrass or vegetables.

For all crop types, there is zero tolerance for the presence of prohibited noxious weed seeds as outlined in Weed Seeds Order, regardless of the seed's class or pedigree.

In some cases, there may be confusion about noxious weeds that are covered by

the Seeds Act (Canada) and noxious weeds that are covered under the Noxious Weeds Act (Saskatchewan).

The weeds covered under these two acts are not the same.

The Seeds Act is administered federally and needs to reflect the needs of the entire country, whereas the Noxious Weeds Act applies to Saskatchewan only.

While many weeds are named as noxious in both Acts, there are some weeds that are found in one Act and not the other.

When buying certified seed, be sure to request a certificate of analysis from suppliers of certified seed to check for noxious weeds that are important to Saskatchewan under the category of other weeds, so that new noxious weeds are not being introduced to land that is clean and free of noxious weed species.

Growers who buy certified seed should always look for the recognizable blue tag when buying certified seed.

The blue tag is an assurance of quality

and purity.

When a pedigreed seed crop has successfully passed crop inspection, a CSGA crop certificate is issued, and the resultant certified seed is labeled with an official blue certified tag.

When a producer buys certified seed, it should have an official blue tag, pedigreed documentation (provided from the seller), and a copy of the mechanical purity. Germination analysis should also be provided.

The widespread usage of genetically modified (GM) crops in Canada has caused some export markets to implement a zero tolerance policy for GM seed.

However, it is difficult to maintain varietal purity in open pollinated crops like canola.

The current varietal purity standard for certified canola seed is 99.75 per cent.

This means that in a seeding rate of 100 plants per square metre, one GM canola plant may be found.

How is Certified Seed Produced?



- 1 Variety Development**
In laboratories and fields, Plant Breeders work diligently for many years to develop new seed varieties with improved genetics. For farmers, this means improved yields due to better lodging resistance, drought tolerance or insect and disease resistance. For food processors, this relates to innovative characteristics. A portion of the Certified seed sales is reinvested in research to develop new and innovative seed varieties.
- 2 Parent Seed Multiplication**
Breeder seed is usually produced in small amounts, so CSGA seed growers multiply the seed. Accredited CSGA plot growers choose a seed variety to produce in their elite parent seed plots. They reproduce this small amount of seed in accordance with rigorous production certification standards that ensure varietal purity and freedom from impurities. Their Select or Foundation class seed provides the parent seed for other seed growers to produce Registered and Certified class seed crops.
Breeder & Select Plots > Foundation & Registered Seed > Certified Seed > Commercial Grains & Oilseeds
The investment in additional production time means Certified seed growers are committed to producing a proven, quality product.
- 3 Field Selection**
Seed growers carefully select the field in which to produce their crop. Seed growers are required to follow stringent CSGA regulations for previous land use to prevent contamination from other varieties and difficult-to-separate weeds or other crop kinds in their Certified seed crops.
- 4 Planting Equipment Sanitation**
During planting, seed growers protect quality by investing extra time cleaning machinery to ensure no seed of other varieties, difficult-to-separate weeds or other crop kinds are mixed with the seed. When growers change varieties, the entire planter is cleaned to remove all seed of the previous variety.
- 5 Isolation**
Certified seed production fields are carefully isolated from other crops to prevent contamination from other varieties or difficult-to-separate other crop kinds. Seed crop kinds with different types of pollination risks have different isolation requirements. The isolation distance required by CSGA also varies depending on the crop kind in the neighboring field.
- 6 Roguing**
To preserve the purity of Certified seed crops, seed growers inspect their crops throughout the growing season and remove other varieties, off-types, weeds and other crop kinds that have emerged during the season.
- 7 Field Inspection**
Seed crops are inspected at a specific stage of maturity during the growing season by third-party inspectors licensed by the Canadian Food Inspection Agency (CFIA). Inspectors verify isolation distances, previous land use history and parent seed identity. They also complete representative counts throughout the seed field to report impurities such as off-types and other varieties and difficult-to-separate weeds and other crop kinds.
- 8 Certification**
After crop inspection, the inspection report is appraised by the Canadian Seed Growers' Association (CSGA). The CSGA assures the crop has been produced in compliance with its standards. After passing field inspection and meeting CSGA standards, the seed grower receives the official crop certificate that is required for CFIA-Registered Seed Establishments to label seed with official blue Certified tags.
- 9 Harvesting Equipment Sanitation**
Before and during harvest, seed growers protect quality by investing extra time cleaning their harvesting equipment. This prevents common seed, weed or other crop seeds getting mixed with the Certified seed at harvest. When seed growers change fields to harvest a different variety, the entire combine is cleaned to remove all seed of the previous variety harvested.
- 10 Harvesting**
At the proper stage of maturity, the Certified seed crop is harvested by the seed grower.
- 11 Separate Seed Storage**
To preserve varietal purity and provide a traceability record from where the seed was grown all the way to the consumer's table, Certified seed is the first link of an identity preserved (IP) system chain which requires a separate storage bin and records for each variety to preserve its unique genetic identity.
- 12 Testing and Grading**
Federal Seeds Regulations require pedigreed seed sold in Canada to be tested for compliance with official grade standards for germination and physical purity by CFIA-accredited labs and graders and labeled by CFIA-registered seed establishments. The federal standards for germination and physical purity of Certified seed are much higher than common grade seed, which assures a higher quality product. Federal Seeds Regulations prohibit common grade seed from being sold by variety name. Common grade seed is from a crop which has not been certified by the CSGA.
- 13 Bagging and Tagging**
After receiving the official CSGA crop certificate and a certificate of analysis from a CFIA-accredited lab, which verifies compliance with seed germination and physical purity standards in federal Seeds Regulations, Certified seed is packaged and labeled by variety name with an official blue Certified seed tag by a CFIA-registered seed establishment. Only then is the seed designated as Certified seed; only then can agricultural field crop seed be sold by variety name.
- 14 Commercial Farmer**
Certified seed is sold to commercial farmers to plant their large commercial crops of grain and oilseeds. Commercial farmers are choosing Certified seed of a specific variety to get the latest innovation, increased yields, improved disease and lodging resistance. Many commercial farmers work closely with food processors to deliver specific varieties of grains and oilseeds under an identity preservation programs.
- 15 Food Processor**
Food processors who demand grains and oilseeds grown from Certified seed get the assurance of starting with identity-verified ingredient characteristics to ensure consistent, high quality, premium products. They also get documented traceability of their food products right back to the field where the Certified seed was produced. Certified seed is the foundation of quality foods and a promise they can market specific varietal characteristics to today's health conscious and food savvy consumers. Ask for grains and oilseeds grown from Certified seed from your grain handler, miller, crusher, ingredient supplier or food manufacturer.



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Plant Breeders' Rights Fast Facts

Understanding the changes and your obligations

As of **February 27, 2015**, all new PBR-protected varieties will be protected under the new legislation that conforms to the UPOV 1991 convention, bringing Canada in line with the rest of the world, and opening opportunities for increased investment to make new varieties available to Canadian farmers. It brings opportunity, but it also brings new obligations for the value chain.

		
Are all varieties protected under the same <i>Plant Breeders' Rights (PBR) Act</i> ?	As of February 27, 2015, all new varieties submitted for PBR are protected under the new legislation. These varieties carry the PBR 91 symbol.	All varieties granted protection under the PBR prior to February 27, 2015 continue under the original <i>Act</i> . These varieties carry the original PBR symbol.
Breeders' rights		
What are breeders' rights?	Breeders' rights are now expanded under the new <i>PBR Act</i> . Authorization from the breeder is required to produce, reproduce, sell, clean/condition, stock, import or export seed of PBR-protected varieties.	Authorization from the breeder is required to sell, or produce for sale, seed of PBR-protected varieties.
Can breeders be compensated on harvested grain?	Yes, if seed was obtained and used illegally or without the authorization of the breeder, the breeder can choose to seek compensation, including for lost royalty revenue; lost markets; and for court costs; on delivered grain produced from that seed.	No



Plant Breeders' Rights Fast Facts

		
Farmers' privilege		
Can farmers save seed?	Yes, the "Farmers' Privilege" is entrenched in the legislation. It allows farmers to produce PBR 91-protected varieties for use as seed on their farms.	It is not spelled out in the legislation, but it is not prohibited.
Can farmers clean grain from PBR-protected varieties for use as seed on their farm?	Yes	Yes
Can farmers sell or advertise for sale seed they have produced from grain of PBR-protected varieties?	No	No
Can farmers exchange seed they have produced from grain of PBR-protected varieties?	No	No
Seed conditioners' and Grain buyers' responsibilities		
Can seed conditioners clean seed of a PBR-protected variety for purposes of propagation?	Yes, if the seed was obtained legally (i.e. certified seed was purchased) and if farm-saved seed will only be used on the farmer's own land.	Yes
Do seed conditioners have certain responsibilities when cleaning farm-saved seed of a PBR-protected variety?	Yes, expanded breeders' rights mean that cleaners may be liable for breaches of the breeder's right. They should take precautions to ensure the seed they are cleaning was obtained legally, and that farm-saved seed that they clean will only be used on the farm of the farmer who has brought it in for cleaning.	No
Do grain buyers have certain responsibilities when handling PBR-protected varieties?	Yes, the harvested material provisions mean that grain buyers may be liable for breaches of the breeder's right. They should be aware of the varieties that are protected under the new legislation and be satisfied that the seed used to produce that grain was legally obtained.	No

Want to learn more about Plant Breeders' Rights?
Visit pbrfacts.ca

Prairie Grain Development Committee

The Prairie Grain Development Committee (PGDC) facilitates the exchange of information relevant to the development and commercialization of improved cultivars of grain crops for the Canadian prairies. In 2019, the committee recommended the following lines for registration:

BARLEY

TR16629 — Barley line, developed / supported by Patricia Juskiw, Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

TR17163 — Barley line, developed / supported by Aaron Beattie, Crop Development Centre (CDC), University of Saskatchewan.

TR17639 — Barley line, developed / supported by Patricia Juskiw, Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

SR17515 — Barley line, developed / supported by Joseph Nyachiro, Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

SR17519 — Barley line, developed / supported by Yadeta Kabeta, Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

HB17340 — Barley line, developed / supported by Aaron Beattie, CDC, University of Saskatchewan.

BEAN

ARIES — Great Northern bean line, recommended by the Prairie Recommending Committee Pulses & Special Crops.

BLACK TAILS — Black bean line, recommended by the Prairie Recommending Committee Pulses & Special Crops.

COWBOY — Pinto bean line, recommended by the Prairie Recommending Committee Pulses & Special Crops.

L14YL073 — Yellow bean line, recommended by the Prairie Recommending Committee Pulses & Special Crops.

LENTIL

IBC 1014 — Small green lentil line, developed / supported by Bert Vandenberg, CDC, University of Saskatchewan.

IBC 1235 — Small red lentil line, developed / supported by Bert Vandenberg, CDC, University of Saskatchewan.

IBC 1264 — Large red lentil line, developed / supported by Bert Vandenberg, CDC, University of Saskatchewan.

IBC 1267 — Green lentil line, developed / supported by Bert Vandenberg, CDC, University of Saskatchewan.

IBC 1269 — French green lentil line, developed / supported by Bert Vandenberg, CDC, University of Saskatchewan.

OAT

OT2119 — Oat line, developed / supported by Jennifer Mitchell Fetch, Agriculture and Agri-Food Canada, Brandon, Man. Supported Feb. 18, 2019 by Prairie Recommending Committee for Oats and Barley (PRCOB).

OT2121 — Oat line, developed / supported by Jennifer Mitchell Fetch, Agriculture and Agri-Food Canada, Brandon, Man. Supported Feb. 18, 2019 by Prairie Recommending Committee for Oats and Barley (PRCOB).

OT2122 — Oat line, developed / supported by Jennifer Mitchell Fetch, Agriculture and Agri-Food Canada, Brandon, Man. Supported Feb. 18, 2019 by Prairie Recommending Committee for Oats and Barley (PRCOB).

OT6024 — Oat line, developed / supported by Jim Dyck, Oat Advantage, Saskatoon, Sask. Supported Feb. 18, 2019 by Prairie Recommending Committee for Oats and Barley (PRCOB).

OT7090 — Oat line, developed / supported by Jennifer Mitchell Fetch, Agriculture and Agri-Food Canada, Brandon, Man. Supported Feb. 18, 2019 by Prairie Recommending Committee for Oats and Barley (PRCOB).

PEA

CDC 4506-4 — Green pea line, developed by Tom Warkentin, CDC, University of Saskatchewan.

CDC 4900-13 — Yellow pea line, developed by Tom Warkentin, CDC, University of Saskatchewan.

CDC 4947-2 — Yellow pea line, developed by Tom Warkentin, CDC, University of Saskatchewan.

CDC 4999-5 — Yellow pea line, developed by Tom Warkentin, CDC, University of Saskatchewan.

CDC 5141-7 — Yellow pea line, developed by Tom Warkentin, CDC, University of Saskatchewan.

CDC 5286-2 — Yellow pea line, developed by Tom Warkentin, CDC, University of Saskatchewan.

CDC 5301-1 — Yellow pea line, developed by Tom Warkentin, CDC, University of Saskatchewan.

RYE

RT240 — Also known as KWS Trebiano. Hybrid fall rye line recommended for three-year interim registration. Developed by KWS Lochow, GmbH, Germany.

TRITICALE

T267 — Spring triticale line. Developed by Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

T270 — Spring triticale line. Developed by Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

WT0009 — Reduced awn winter triticale line. Developed by Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

WT0010 — Winter triticale line. Developed by Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

WT0011 — Winter triticale line. Developed by Alberta Agriculture, Field Crop Development Centre, Lacombe, Alta.

WHEAT

2015-10 — Also known as Bolles. Canada Western Red Spring (CWRS) line. Developed by the University of Minnesota and sponsored by Seed Depot.

2015-09 — Also known as Shelly. Canada Northern Hard Red (CNHR) line. Developed by the University of Minnesota and sponsored by Seed Depot.

BW1064 — Canada Western Red Spring (CWRS) line. Developed / sponsored by Syngenta.

BW5028 — Canada Western Red Spring (CWRS) line. Developed / sponsored by AAFC — Swift Current. Contains Sm1 gene.

BW5031 — Canada Western Red Spring (CWRS) line. Developed / sponsored by CDC, University of Saskatchewan. Contains Als1, Als2, Sm1 genes.

BW5056 — Canada Western Red Spring (CWRS) line. Developed / sponsored by Limagrain Cereal Research Canada (LCRC).

PT252 — Canada Western Red Spring (CWRS) line. Developed / sponsored by AAFC — Swift Current. Contains Sm1 gene.

PT488 — Canada Western Red Spring (CWRS) line. Developed / sponsored by AAFC — Brandon.

PT598 — Canada Western Red Spring (CWRS) line. Developed / sponsored by CDC, University of Saskatchewan. Contains Als1, Als2 genes.

PT599 — Canada Western Red Spring (CWRS) line. Developed / sponsored by CDC, University of Saskatchewan.

PT652 — Canada Western Red Spring (CWRS) line. Developed / sponsored by Syngenta.

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PGDC VARIETY REGISTRATION RECOMMENDATIONS (CON'T)

PT786 — Canada Western Red Spring (CWRS) line. Developed / sponsored by the University of Alberta.

CS11200104-11 — Canada Western Red Spring (CWRS) line. Developed / sponsored by Syngenta.

CS11200214-17 — Canada Western Red Spring (CWRS) line. Developed / sponsored by Syngenta.

HW402 — Canada Western Hard White Spring (CWHWS) line. Developed / sponsored by AAFC — Swift Current.

HY2062 — Canada Prairie Spring Red (CPSR) line. Developed / sponsored by CDC, University of Saskatchewan.

HY2068 — Canada Prairie Spring Red (CPSR) line. Developed / sponsored by Syngenta Canada.

HY2077 — Canada Prairie Spring Red (CPSR) line. Developed / sponsored by Limagrain Cereal Research Canada (LCRC).

NH010 — Canada Northern Hard Red (CNHR) line. Developed by CDC, University of Saskatchewan. Contains Als1, Als2, Sm1 genes.

NH018 — Canada Northern Hard Red (CNHR) line. Developed by AAFC — Winnipeg & Lethbridge.

W569 — Canada Western Red Winter (CWRW) line. Developed by AAFC — Lethbridge.

GP214 — Also known as WPB Whistler. Canada Western Special Purpose (CWSP) spring wheat line. Developed by Wiersom Plant Breeding, Netherlands. Sponsored by Plantomar.

DT887 — Canada Western Amber Durum (CWAD) line. Developed / sponsored by AAFC — Swift Current.

DT890 — Canada Western Amber Durum (CWAD) line. Developed / sponsored by AAFC — Swift Current.

DT1003 — Canada Western Amber Durum (CWAD) line. Developed / sponsored by CDC, University of Saskatchewan.

DT1004 — Canada Western Amber Durum (CWAD) line. Developed / sponsored by CDC, University of Saskatchewan.

YAMHILL — Soft white, Canada Western Special Purpose (CWSP) forage wheat line. Developed by United States Department of Agriculture, Oregon. Sponsored by Premier Pacific Seeds. Recommended for three-year interim registration in Lower Mainland, B.C. only.

MADSEN — Soft white, Canada Western Special Purpose (CWSP) forage wheat line. Developed by United States Department of Agriculture, Washington. Sponsored by Premier Pacific Seeds. Recommended for three-year interim registration in Lower Mainland, B.C. only.

BRUNDAGE96 — Soft white, Canada Western Special Purpose (CWSP) forage wheat line. Developed by University of Idaho. Sponsored by Premier Pacific Seeds. Recommended for three-year interim registration in Lower Mainland, B.C. only.

KASEBERG — Soft white, Canada Western Special Purpose (CWSP) forage wheat line. Developed by Oklahoma State University. Sponsored by Premier Pacific Seeds. Recommended for three-year interim registration in Lower Mainland, B.C. only.

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Trait Stewardship Responsibilities Notice to Farmers

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ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready® Technology contains genes that confer tolerance to glyphosate. Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate and dicamba. LibertyLink® Technology contains genes that confer tolerance to glufosinate. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your local crop protection dealer or call the technical support line at 1-800-667-4944 for recommended Roundup Ready® Xtend Crop System weed control programs. Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG.

FOR CORN, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: STANDARD offering for corn without SmartStax® Technology: fluoxastrobin, prothioconazole, metaxyl and clothianidin. STANDARD plus DuPont® Lumivia® offering for corn: fluoxastrobin, prothioconazole, metaxyl and cyantraniliprole. STANDARD plus Poncho®/VOTIVO® offering for corn with SmartStax® Technology: fluoxastrobin, prothioconazole, metaxyl, clothianidin and Bacillus firmus I-1582. COMPLETE offering for corn with SmartStax® Technology: metaxyl, clothianidin, prothioconazole and fluoxastrobin at rates that suppress additional diseases. COMPLETE plus Poncho®/VOTIVO® offering for corn with SmartStax® Technology: metaxyl, clothianidin, Bacillus firmus I-1582, prothioconazole and fluoxastrobin at rates that suppress additional diseases. Class of 2019 and 2020 base genetics are treated with BioRise® 360 seed treatment. **FOR SOYBEANS, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING** is a combination of separate individually registered products containing the active ingredients: BASIC: prothioconazole, penflufen and metaxyl. STANDARD: prothioconazole, penflufen, metaxyl and imidacloprid. STANDARD plus Fortenza®: prothioconazole, penflufen, metaxyl and cyantraniliprole. **FOR CANOLA** seed treatment offerings can include: Prosper® EverGol® seed treatment containing the active ingredients clothianidin, penflufen, metaxyl and trifloxystrobin. Fortenza® Advanced seed treatment consisting of Fortenza Seed Treatment insecticide containing the active ingredient cyantraniliprole and Rasendo® Seed Treatment insecticide containing the active ingredient sulfoxaflof. Helix® Vibrance® seed treatment containing the active ingredients thiamethoxam, difenoconazole, metaxyl-M, fludioxonil and sedaxane. Jumpstart® XL inoculant containing the active ingredient penicillium blaiiae.

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CANADIAN FOOD INSPECTION AGENCY

VARIETY REGISTRATION REPORT

The list below contains the names and details of crop varieties registered by the Canadian Food Inspection Agency's Variety Registration Office (VRO) between Nov. 16, 2018 and Nov. 15, 2019.

CROP	VARIETY TYPE	VARIETY NAME	EXPERIMENTAL NUMBER	STATUS	REGIONS	REGISTERED DATE	CANCELLATION DATE
Alfalfa	Alfalfa	Dynamo	CW A115022	National		2019-09-20	
	Alfalfa	Evermost	FG 59M108	National		2019-10-04	
	Alfalfa	Extreme HD	LS 1404	National		2019-04-05	
	Alfalfa	Safeguard PLH	FG 413H323	National		2019-10-25	
	Alfalfa	Sureshot	CW A125028	National		2019-09-20	
	Alfalfa	SW3407	SW3407, SW1307, 14XXP07, W13XXP61	National		2019-03-15	
	Alfalfa	SW4107	SW4107, 11XXP07, W10XXP83	National		2019-04-05	
	Alfalfa	SW4412Y	SW4412Y, SW1412Y, 14YYP12, W13YYP81	National		2019-03-15	
	Alfalfa	Triumph HVXRR	FG H0415A3139	National		2019-06-07	
	Barley	Two-row	AAC Madawaska	CH2801-48	National		2019-10-25
Two-row		CDC Churchill	TR15155, SM121558	National		2019-05-31	
Two-row		Orzo	C2M16111, CF01513	National		2018-11-30	
Six-row		Rafale	15S06	National		2019-03-22	
Six-row		Richer	OS13-12.20	National		2019-03-22	
Bean	Red Mexican	AAC Y073	L14YL073	National		2019-07-26	
	Great Northern	Aries	5106	National		2019-04-12	
	Black	Black Tails	13489	National		2019-04-12	
	Pinto	Cowboy	11278	National		2019-04-12	
	Cranberry	OAC Candycane	ACUG 15-C2	National		2019-04-05	
	Red Kidney	OAC Jewel	ACUG 15-L1	National		2019-04-05	
	Navy	OAC Plasma	ACUG 16-5	National		2019-04-05	
	Cranberry	OAC Racer	ACUG 14-C2	National		2019-04-05	
Buckwheat	Black	OAC Vortex	ACUG 15-B4	National		2019-04-05	
	Cranberry	Vero	C213259	National		2019-04-05	
Buckwheat	Buckwheat	Agassiz	DF-3	National		2019-07-05	
Canarygrass	Canarygrass, Annual	CDC Lumio	C12011	National		2019-06-27	
Canola	Brassica napus, Hybrid	1028 RR	G8023282H, 8023282, 4006801-18	National		2019-04-18	
	Brassica napus, Hybrid	17GG1865G	17GG1865G	National		2019-05-03	
	Brassica napus, Hybrid	18GG2664I	18GG2664I	Interim		2019-05-17	2022-05-17
	Brassica napus, Hybrid	18GG2665I	18GG2665I	Interim		2019-05-17	2022-05-17
	Brassica napus, Hybrid	2028 CL	CL7991184H, 7991184, 4006562-02	National		2019-06-07	
	Brassica napus, Hybrid	45H42	16GG0572R	National		2019-03-29	
	Brassica napus, Hybrid	45M43	17GN0590R	National		2019-03-29	
	Brassica napus, Hybrid	75-42 CR	G15P9374	National		2019-07-05	
	Brassica napus, Hybrid	79k	CS173849K	Interim		2019-04-26	2022-04-26
	Brassica napus, Hybrid	B3011	17GG0028L	National		2019-03-29	
	Brassica napus, Hybrid	B4010	17GG1859G	National		2019-05-03	
	Brassica napus, Hybrid	BY 5105CL	DL1853CL	Interim		2019-06-07	2022-06-07
	Brassica napus, Hybrid	BY 6204TF	18TH8007OM	Interim		2019-07-19	2022-07-19
	Brassica napus, Hybrid	BY 6207TF	DL187300	Interim		2019-08-23	2022-08-23
	Brassica napus, Hybrid	CP20R3C	DL1634RR	National		2019-07-12	
	Brassica napus, Hybrid	D3157C	16GG0331R	National		2019-03-29	
	Brassica napus, Hybrid	DKLL 82 SC	H17W10057	National		2019-05-24	
	Brassica napus, Hybrid	DKTF 96 SC	X17W10238	Interim		2019-05-24	2022-05-24
	Brassica napus, Hybrid	DKTF 98 CR	X17W10371	National		2019-05-24	
	Brassica napus, Hybrid	DKTFLL 21 SC	L17W10059	National		2019-05-24	

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Canola	Brassica napus, Hybrid	L234PC	7CN0298	National		2019-06-07	
	Brassica napus, Hybrid	L258HPC	7CN0425	National		2019-06-07	
	Brassica napus, Hybrid	L345PC	7CN0065	National		2019-07-12	
	Brassica napus, Hybrid	L352C	7CN0020	National		2019-07-12	
	Brassica napus, Hybrid	LR344PC	8CN0001	Interim		2019-07-19	2022-07-19
	Brassica napus, Hybrid	P502CL	16SS1117I	National		2019-03-29	
	Brassica napus, Hybrid	P503G	15GG1763G	National		2019-05-03	
	Brassica napus, Hybrid	P504MG	17GG1817G	National		2019-05-03	
	Brassica napus, Hybrid	P505SL	18GG0454L	Interim		2019-05-03	2022-05-03
	Brassica napus, Hybrid	PV 681 LC	17GG1228L	National		2019-03-29	
Clover	Brassica napus, Hybrid	PV 780 TC	X15D2405G2	National		2019-01-25	
	Brassica napus, Hybrid	V25-1T	18TH80040M	Interim		2019-07-19	2022-07-19
Fababean	Red, Double Cut	Aramis	VCG-RC1	National		2019-06-21	
	Red, Double Cut	Bigfoot	CW1002RC	National		2019-01-11	
Fababean	Fababean	219-16	219-16	National		2019-03-08	
Fescue	Fescue, Tall	Suede	F 00 - 05 R	National		2018-12-21	
Oat	Spring, Hulless	AAC Clyde	OAI426-2	National		2019-09-27	
	Spring, Hulless	AAC Roberval	OAI436-1	National		2019-09-27	
	Spring	CDC Endure	OT3087, SA120157	National		2019-03-08	
	Spring	CDC Skye	OT3091, SA131995	National		2019-06-07	
	Spring	Kalio	CFA1506, C3M16082, SW13-1979	National		2019-01-11	
Orchardgrass	Spring	Orford	PGR-N13-051	National		2019-02-15	
	Orchardgrass	Alpine II	PPG-OG 103	National		2019-01-11	
Pea	Field, Yellow	AAC Aberdeen	P0730-118	National		2019-04-12	
	Field, Yellow	AAC Profit	MP1907	National		2019-03-22	
Potato	Potato (Tuber)	AAC Boreal	CV99073-I (AR2010-06)	National		2019-02-08	
	Potato (Tuber)	Alliston	AG704-10	National		2019-07-12	
	Potato (Tuber)	Alverstone Russet	HZD 07-289	National		2019-03-08	
	Potato (Tuber)	Audrey	HZC 07-6093	National		2019-03-08	
	Potato (Tuber)	Austin	ISP 18-6-06	National		2018-11-23	
	Potato (Tuber)	Belmonda	02-006-07	National		2019-03-08	
	Potato (Tuber)	Bonnata KWS	KWS 05-656	National		2019-10-25	
	Potato (Tuber)	Canada Rose	C000277-2R	National		2019-05-17	
	Potato (Tuber)	Caribou Russet	AF3362-1	National		2019-06-21	
	Potato (Tuber)	CN 99 113 1	99.113.1	National		2019-01-25	
	Potato (Tuber)	Connect	YP 03-107	National		2019-04-26	
	Potato (Tuber)	Corsica	AR 05-1887	National		2019-01-25	
	Potato (Tuber)	Double Fun	RHT 02-1	National		2019-02-08	
	Potato (Tuber)	Fandango	T3039/38	National		2019-01-25	
	Potato (Tuber)	FL2387	2008 6.03	National		2019-07-12	
	Potato (Tuber)	Isabelia	E 03/326/173	National		2019-02-01	
	Potato (Tuber)	Jelly	696/92L	National		2019-02-01	
	Potato (Tuber)	Keuka Gold	NY101	National		2019-03-08	
	Potato (Tuber)	Lollipop	PR07-55-1	National		2019-09-27	
	Potato (Tuber)	Ludmilla	99-603-02	National		2019-03-08	
	Potato (Tuber)	Mariola	E 02/118/17	National		2019-02-08	
	Potato (Tuber)	Maritime Russet	C097087-2RU	National		2019-05-17	
	Potato (Tuber)	Merlot	505 101-03	National		2019-06-07	
	Potato (Tuber)	Montreal	BH 97-11	National		2019-10-25	
	Potato (Tuber)	Mountain Rose	C094183-1R / R	National		2019-04-18	
Potato (Tuber)	Nonpareil Russet	C098067-7RU	National		2019-05-17		
Potato (Tuber)	NorDonna	ND1871-3R	National		2019-05-17		
Potato (Tuber)	Obama	FOB2002-122-001	National		2019-01-25		
Potato (Tuber)	Purple Majesty	C094165-3P / P	National		2019-04-18		

VARIETY REGISTRATION REPORT (CONTINUED)

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Potato	Potato (Tuber)	Queen Anne	05-043-1	National		2019-04-26	
	Potato (Tuber)	Radley	HZC 07-6049	National		2019-03-08	
	Potato (Tuber)	Red Apple	SM03-83-01R	National		2019-04-26	
	Potato (Tuber)	Riverdale Russet	PR07-11-1	National		2019-03-29	
	Potato (Tuber)	TerraRossa	POR02PG20-12	National		2019-04-18	
	Potato (Tuber)	Upstate Abundance	NY150	National		2019-04-18	
	Potato (Tuber)	Vicky	VDZ 06-264	National		2019-03-08	
	Potato (Tuber)	Yukon Nugget	POR02PG37-2	National		2019-02-08	
	Potato (Tuber)	Zina Red	SST 02-1664	National		2019-03-08	
Ryegrass	Ryegrass, Annual	Jungle	0	National		2019-09-20	
	Ryegrass, Perennial (Forage)	Mara	BAR LP 6BRA	National		2019-01-18	
	Ryegrass, Perennial (Forage)	Melfrost	ILV0112808	National		2019-02-15	
	Ryegrass, Annual	Meroa		National		2018-12-14	
	Ryegrass, Annual	Oryx	LI 9315, WV 349	National		2018-11-30	
	Ryegrass, Annual	TRUE	PST-3G16	National		2019-07-12	
Soybean	Oilseed	5001004-02	B011DE3™, 01E17W7	National		2019-09-06	
	Oilseed	5016013-02	P16T71™, 14517428-24	National		2019-09-06	
	Oilseed	5030017-02	14528824-11, 28E17B1, 5PWBY14, P30T99 (Trade-mark), 69311428	National		2019-06-21	
	Oilseed	5030023-02	P30T92E™, 14538442-29	National		2019-09-06	
	Oilseed	AAC Talbot	C4M17240 Conv., OX-174	National		2019-08-30	
	Oilseed	Amirani R2	C4M17224 R2	National		2019-03-15	
	Oilseed	Atena	PR100091-35	National		2019-09-13	
	Oilseed	AVETA R2X	CBZ517A4-CODNN	National		2019-05-24	
	Oilseed	B00071RX	XB0009G18X	National		2019-06-21	
	Oilseed	B0011RX	XB002G18X	National		2019-05-31	
	Oilseed	B0030L1	002G17L1, GF33939843	National		2019-01-25	
	Oilseed	B0066L1	006G17J2, GF33939890	National		2019-01-25	
	Oilseed	B060L1	06G17L3, SM17863964	National		2019-05-24	
	Oilseed	B061FE	04E16E4, SM 27279760, 5006014-02	National		2019-03-08	
	Oilseed	B080L1	06G17K4, MN34251911	National		2019-05-24	
	Oilseed	B081RX	XB8U18X, 5008023-09, (5PMFU17)	National		2019-10-25	
	Oilseed	B091FE	09E17P1, 14517211-10, 5008022-02	National		2019-03-08	
	Oilseed	B152RX	5015014-09, XB19M18X	National		2019-09-06	
	Oilseed	B161ME	15EN307204-07, 5016014-04	National		2019-09-06	
	Oilseed	B191FE	14526041-26, 5019002-02	National		2019-04-18	
	Oilseed	B221RX	RJS22011X, 5PDEC49, XBP23009X	National		2019-04-05	
	Oilseed	B231FE	24E17X8, OT34672671, 5024013-02	National		2019-03-08	
	Oilseed	B241ME	15EN316232-12, 5024016-02	National		2019-09-06	
	Oilseed	B251FE	27E16N4, OT21325816, 5025013-02	National		2019-03-08	
	Oilseed	B251RX	5PMMK54, XB26Z17X, RJS25011X	National		2019-04-05	
	Oilseed	Beliveau R2X	XD2R1081, EE1660299, GS099X	National		2019-03-08	
	Oilseed	Bossy R2X	RM2117B9-DODNN, 01072258	National		2019-04-12	
	Oilseed	Bricta R2X	FL0418B5-FODNN	National		2019-10-25	
	Oilseed	CF007X0	FLZ217A5-CODNN	National		2019-04-12	
	Oilseed	CF03X0	MK0117A7-DODNN	National		2019-04-18	
	Oilseed	CF17X0	RM1717B2-CODNN	National		2019-04-18	
	Oilseed	Costo R2X	CB1017B2-CODNN	National		2019-09-06	
	Oilseed	CP000719RX	CBZ317A2-CODNN	National		2019-05-24	
	Oilseed	CP00419RX	FLZ517A5-CODNN, 01072727	National		2019-04-12	
	Oilseed	CP00519RX	FLZ317A9-CODNN, 01072744	National		2019-04-12	

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Soybean	Oilseed	CP0529E	16EN300247-29, PE 0509	National		2019-10-11	
	Oilseed	CP0719RX	FL0517B6-CODNN, 01072775	National		2019-04-12	
	Oilseed	CP1719RX	RM1917C2-CODNN, 01072873	National		2019-05-03	
	Oilseed	CP2019RX	RM2017B2-CODNN, 01072877	National		2019-04-12	
	Oilseed	CP3220RX	5X3117J9-DODNN, 01072279	National		2019-04-12	
	Oilseed	Cyclone R2X	XD2R1587, GS1577X, EE1660277	National		2019-04-18	
	Oilseed	Damona R2X	MK0617B6-CODNN, 01072782	National		2019-04-12	
	Oilseed	Dionne R2X	FL1617B2-CODNN, 01072833	National		2019-04-12	
	Oilseed	Discovery E3	AM39085123, PE 2519, 5025017-02	National		2019-08-23	
	Oilseed	DKB002-32	FLZ717A5-CODNN, 1072718	National		2019-04-12	
	Oilseed	DKB03-25	MK0417A4-DODNN, 01072223	National		2019-04-12	
	Oilseed	DKB07-39	RM0817A4-CODNN, 01072798	National		2019-04-12	
	Oilseed	DKB11-84	FL1016A8-D1DNN, 01073501	National		2019-04-12	
	Oilseed	DKB14-65	RM1617A9-CODNN, 01072836	National		2019-04-12	
	Oilseed	DKB20-98	RM1916A9-C1DNN, 01073503	National		2019-04-12	
	Oilseed	DKB22-03	RM1917B6-CODNN, 01072868	National		2019-04-12	
	Oilseed	DKB25-57	EV2617C2-DODNN, 01072268	National		2019-04-12	
	Oilseed	Echo E3	SM44353168, PE 1209, 5013005-02	National		2019-07-26	
	Oilseed	Elmo E3	GF34658041, ME0031, 5000006-02	National		2019-08-16	
	Oilseed	Emerge E3	14530709-05, PG 28E08N	National		2019-07-19	
	Oilseed	Enzo E3	16EN300233-09, PE 0309	National		2019-08-16	
	Oilseed	Epona R2X	MK0917A5-CODNN, 01072802	National		2019-04-12	
	Oilseed	EXP0219XRN	MK0117A3-CODNN	National		2019-04-18	
	Oilseed	EXP0819XRN	RM1017B1-CODNN	National		2019-04-18	
	Oilseed	EXP1119XRN	EV1117A3-CODNN	National		2019-04-18	
	Oilseed	EXP1719XRN	RM1717A9-CODNN	National		2019-04-18	
	Oilseed	EXP2219XRN	EV2317B8-DODNN	National		2019-04-18	
	Oilseed	Fresco R2X	CBZ617AB3-CODNN	National		2019-06-14	
	Oilseed	Holda R2X	EV2117C5-CODNN, 01072883	National		2019-04-12	
	Oilseed	Hull R2X	FL0617B2-CODNN, 01072787	National		2019-04-12	
	Oilseed	Kudo R2X	CBZ517A5-CODNN	National		2019-06-07	
	Oilseed	LS 08E965N	15EN303506-27, PG 09E08N	National		2019-07-19	
	Oilseed	LS 15E920N	15EN305923-02, PG 14E08N	National		2019-07-19	
	Oilseed	Merritt R2X	FLZ517A8-CODNN, 01072730	National		2019-04-12	
	Oilseed	Modano R2X	FL0917A9-DODNN, 01072231	National		2019-04-12	
	Oilseed	Naria R2X	RM1317A7-CODNN, 01072819	National		2019-04-12	
	Oilseed	Nino R2X	RM1717B3-DODNN	National		2019-04-12	
	Oilseed	NS 90214E3	14510212-10, PG 02E08	National		2019-04-26	
	Oilseed	NS 90254NE3	15EN311316-04, PG 20E18N	National		2019-04-26	
	Oilseed	NS 90334E3	14510712-20, PG 04E08	National		2019-04-26	
	Oilseed	NS 90414E3	15EN300513-19, PG 04E18	National		2019-04-26	
	Oilseed	NS 90504E3	15EN300907-11, PG 05E08	National		2019-04-26	
Oilseed	NS 90544NE3	15EN302317-18, PG 06E08N	National		2019-05-10		
Oilseed	NS 90764E3	14512011-11, PG 08E08	National		2019-05-10		
Oilseed	NS 90904NE3	14516916-21, PG 10E08N	National		2019-05-10		
Oilseed	NS 91224NE3	15EN303732-29, PG 11E08N	National		2019-05-10		
Oilseed	NS 91684NE3	15EN306509-17, PG 17E08N	National		2019-05-10		
Oilseed	NS EXP0005 R2X	CBZ617A1-CODNN	National		2019-05-24		
Oilseed	NS EXP006 R2X	MKZ317A4-CODNN	National		2019-04-18		
Oilseed	NSC Aubigny RR2X	CR2-0114-T3BAH-03-17, CX 00904N	National		2019-04-18		
Oilseed	NSC Culross RR2X	XD2R00584, CW166109, GS00595X	National		2019-03-08		
Oilseed	OAC Cooper	OAC 11-02C	National		2018-12-21		
Oilseed	P0007A73X	XB0008E18X, T194226125	National		2019-06-21		
Oilseed	P000A52R	XB001C18R	National		2019-05-17		

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CROP	VARIETY TYPE	VARIETY NAME	EXPERIMENTAL NUMBER	STATUS	REGIONS	REGISTERED DATE	CANCELLATION DATE
Soybean	Oilseed	P001A48X	XB002H18X	National		2019-05-17	
	Oilseed	P003A97X	XB004K18X, 5PJLT40	National		2019-04-26	
	Oilseed	P005A83X	XB005P18X	National		2019-06-21	
	Oilseed	P007A08X	XB0006M18X, 5PJQV48	National		2019-04-26	
	Oilseed	P00A75X	XB02W18X, 5PWYY47	National		2019-04-18	
	Oilseed	P03A26X	XB03D18X, T192185090M 5PCUR88	National		2019-04-05	
	Oilseed	P05A35X	XB05G18X, 5PDKT23	National		2019-04-05	
	Oilseed	P11A44X	XB12A18A, 5PDLF69	National		2019-05-17	
	Oilseed	P15A09X	XB15C18X, 5PBEZ65	National		2019-04-05	
	Oilseed	P15A88X	XB14M18X, 5PCUK80	National		2019-05-17	
	Oilseed	P17A21L	XB18G18L, 5PPFQ87, RJS17010L	National		2019-06-21	
	Oilseed	P25A96L	XB24P18L, 5PLRA45	National		2019-05-17	
	Oilseed	P27A30X	XB25K18X, 5PLWT92	National		2019-05-17	
	Oilseed	P28A42X	XB27P18X, 5PTRA97	National		2019-06-07	
	Oilseed	P31A95BX	XB32M18BX, 5PHVN18	National		2019-06-07	
	Oilseed	P32A87L	XB30K18L, 5PBSW06	National		2019-05-17	
	Oilseed	PRO 06X93N	FL0517B5-DODNN	National		2019-04-12	
	Oilseed	PRO 08EL926N	15EN305923-03, PE 0809	National		2019-08-23	
	Oilseed	PRO 11X926	FL0917A4-CODNN	National		2019-04-12	
	Oilseed	PRO 13X836N	XD2R1283, EE1660534, GS1334X	National		2019-03-15	
	Oilseed	PRO 14X96N	RM1417A5-CODNN	National		2019-04-12	
	Oilseed	PRO 15X926N	EV1617B3-CODNN	National		2019-04-12	
	Oilseed	PRO 19EL926N	14525036-17, PG 20E08N	National		2019-08-23	
	Oilseed	PS 2889XRN	BN2716F5-CODNN, 01068376	National		2018-12-14	
	Oilseed	PV 18S0009 R2X	CBZ617B8-CODNN	National		2019-05-24	
	Oilseed	PV 19s006 R2X	MKZ517A1-CODNN	National		2019-04-12	
	Oilseed	Renuka R2X	XD2R00686, GS00693X, CW1660193	National		2019-04-18	
	Oilseed	Rico R2X	XD2R0282, EW1660140, GS0240X	National		2019-03-08	
	Oilseed	Rondo R2X	FL1217A2-DODNN	National		2019-04-12	
	Oilseed	S003-Z4X	XD2R00382, EE1660019	National		2019-02-08	
	Oilseed	S008-T3X	XD2R00987, EE1660070	National		2019-01-25	
	Oilseed	S05-N5X	XD2R0685, EW1660376	National		2019-02-08	
	Oilseed	S12-J7	XC1281, EE1600331	National		2018-12-21	
	Oilseed	S14-U9X	XD2R1484, EE1660343	National		2019-01-25	
	Oilseed	S20-M1	XC2087, AR1502197	National		2018-12-21	
	Oilseed	Sirona R2X	EV1917A5-CODNN, 01072874	National		2019-04-12	
	Oilseed	Superior R2X	XD2R2985, GS2744, CE1660344	National		2019-04-18	
	Oilseed	TH890009 R2X	XD2RS00181, CW1660229, GS000929X	National		2019-03-08	
	Oilseed	TH89001 R2X	CBZ517A1-CODNN	National		2019-05-24	
	Oilseed	TH89004 R2X	XD2R00483, CW1660188, GS00488X	National		2019-03-08	
	Oilseed	TH89009 R2XN	MKZ117A1-CODNN	National		2019-04-12	
	Oilseed	Varuna R2	C4M17226 R2	National		2018-12-07	
Oilseed	Yoko R2X	CBO217C5-CODNN	National		2019-06-07		
Timothy	Timothy	Conquest	TM0801	National		2019-10-04	
	Timothy	Ensure	TM0603	National		2019-10-04	
Wheat	Spring	AAC Broadacres	BW5028, B0919-EJ05C	Regional	BC, AB, SK, MB	2019-10-25	
	Durum	AAC Donlow	DT890, A1035-ES07	Regional	BC, AB, SK, MB	2019-08-30	
	Durum	AAC GoldNet	DT887, A1028-HV05	Regional	BC, AB, SK, MB	2019-08-30	
	Durum	AAC Grainland	DT878, A0916-FS05	Regional	BC, AB, SK, MB	2019-03-08	
Spring	AAC Harlaka	09SW196.09	Regional	QC	2019-03-15		

CROP	VARIETY TYPE	VARIETY NAME	EXPERIMENTAL NUMBER	STATUS	REGIONS	REGISTERED DATE	CANCELLATION DATE
Wheat	Spring	AAC Maurice	CRGB-11C.0205, 12AAC-0205, F6 AB-1415.***B1B1A F8	Regional	ON, QC, NB, NS, PE, NL		2019-07-12
	Spring	AAC Russell	PT252, B0921-CX03B	Regional	BC, AB, SK, MB		2019-09-27
	Spring	Accelerate	LNR14-1299/HY2077	Regional	BC, AB, SK, MB		2019-07-26
	Winter	Adrianus	CM16-011	Regional	ON, NB, NS, PE, NL		2019-04-05
	Spring	Agora	14SW04 (W09457)	Regional	QC		2018-12-14
	Spring	Alaska	07SW443.01	Regional	QC		2018-12-14
	Winter	Blaze	CM16-005/CM1011	Regional	ON		2019-01-25
	Spring	Bolles	15-Oct	Regional	BC, AB, SK, MB		2019-04-18
	Spring	CDC Ortona	PT596, W12760	Regional	BC, AB, SK, MB		2019-06-21
	Spring	CDC UltraPrime Purple	GP190, PIG13006	Regional	BC, AB, SK, MB		2019-07-12
	Spring	Daybreak	LNR13-0601/BW5056	Regional	BC, AB, SK, MB		2019-07-26
	Spring	Ellerslie	PT784, UAW113 * 008, Entry 13 Parkland B 2014	Regional	BC, AB, SK, MB		2018-11-23
	Winter	Hilliard	CM17-006	Regional	ON		2019-09-06
	Spring	Jake	PT782, UAW1002 * F6MBK05, Entry 9 Parkland B 2015	Regional	BC, AB, SK, MB		2018-11-23
	Spring	Lemieux	BS13-134	Regional	QC		2019-02-08
	Winter	PRO 81	CM16-002/SZD 0896/Cambridge	Regional	ON		2019-02-15
	Spring	Rednet	PT783, UAW1149 * 064, Entry 19 Parkland B 2014	Regional	BC, AB, SK, MB		2018-11-23
	Spring	Sheba	NH004, UAW1133 * 080, Entry 30 B 2014	Regional	BC, AB, SK, MB		2019-03-22
	Spring	SY Gabbro	BW1041, 10S2098-10	Regional	BC, AB, SK, MB		2019-01-18
	Spring	SY Torach	PT650, 09S2059-20	Regional	BC, AB, SK, MB		2019-01-18
Spring	Tracker	PT785, UAW1133 * 009, Entry 14 Parkland B 2014	Regional	BC, AB, SK, MB		2018-11-23	
Spring	WPB Whistler	WPB 10SW010-06	Regional	BC, AB, SK, MB		2019-04-18	

AGRICULTURE CANADA 2019 VARIETY REQUEST FOR PROPOSALS

Agriculture and Agri-Food Canada (AAFC) would like to thank the companies that submitted proposals to commercialize pedigreed seed of AAFC varieties under the 2019 Request for Proposal.

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

Variety	Company (Awarded License Rights)
BW5028 Canada Western Red Spring Wheat	Nutrien Ag Solutions Inc.
CH2801-48 Two-Row Feed Spring Barley	Grains de l'Est Inc.
DT887 Canada Western Amber Durum Wheat	SeedNet Inc.
DT890 Canada Western Amber Durum Wheat	Canterra Seeds
0A1415-2 Oat	Grains de l'Est Inc.
P0841-119 Marrowfat Pea	D5 Holdings
P0846-13 Maple Pea	Wagon Wheel Seed Corp.
PT252 Canada Western Red Spring Wheat	FP Genetics Inc./Nutrien Ag Solutions Inc.
PT488 Canada Western Red Spring Wheat	SeCan Association
W569 Canada Western Red Winter Wheat	SeedNet Inc.

No proposals were received/accepted for the following lines:

Varieties marked with an asterisk will be offered again through the 2020 Results of Request for Proposals (RFP) process.

- * AW780 Eastern HRS Wheat
- BW1048 CWRS Wheat
- * CH2720-1 Two-Row Feed Spring Barley
- DT881 CW Amber Durum Wheat
- * HW402 CW Hard White Spring Wheat
- * NH018 Canada Northern HRS Wheat
- * OB2717-60-2 Two-Row Feed Spring Barley
- OT15-03 Soybean
- * OT16-01 Soybean
- * OT16-06 Soybean
- * OT7090 Oat
- * OX-182 Tofu Soybean
- PT485 CW Red Spring Wheat
- TR15245 Two-Row Barley
- YE4607 Yellow Bean

PROPOSED LIST OF VARIETY REGISTRATION CANCELLATIONS

The Canadian Food Inspection Agency (CFIA) in consultation with the Canadian Grain Commission (CGC) has adopted a protocol for the cancellation of variety registrations upon request of the variety's Canadian representative and breeder.

Under this new, extended protocol, a three-year notification of cancellation period will apply to varieties of all crop kinds except hybrid canola and rapeseed. Hybrid canola and rapeseed will require a one year notification period. This timeline enables the Canadian representative and breeder to ensure that seed stocks of the variety have been

cleared from the market and that growers have been duly notified, well in advance, in order to clear seed stocks in farmers' operations.

This will help farmers to plan for the future and minimize any financial risk to their businesses. Notifications will be posted August 1st in each calendar year and the notification period is from that date forward.

The CFIA and CGC are committed to communicating to farmers well before varieties are cancelled.

Standardizing the period of cancellation will help to prevent financial risk to farmers by avoiding the planting of varieties

of field crops, which will no longer be registered for sale in Canada.

Variety registration cancellation for cause, such as non-compliance, fraud or loss of varietal integrity, is not part of this policy and remains an enforcement tool available to the registrar of the CFIA's Variety Registration Office.

The CFIA publishes the Proposed List of Variety Registration Cancellations with the date of cancellation. The list is revised annually on Aug. 1, and released by the VRO. The CGC revises their Variety Designation Lists throughout the year as changes occur.

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Barley - Six-Row Spring	AC Westech	4769	1998-06-03	2017-08-01	2020-08-01
Barley - Six-Row Spring	AC Malone	4910	1999-04-30	2017-08-01	2020-08-01
Barley - Six-Row spring	AC Vision	5323	2001-05-10	2017-08-01	2020-08-01
Barley - Two-Row Hulless Spring	Millhouse	6137	2006-05-19	2017-08-01	2020-08-01
Barley - Two-Row Spring	AC Bountiful	5028	1999-12-07	2015-08-01	2018-08-01
Barley - Two-Row Spring	Hector	1433	1973-02-06	2017-08-01	2020-08-01
Barley - Two-Row Spring	AC Queens	4765	1998-06-02	2017-08-01	2020-08-01
Barley - Two-Row spring	Calder	5490	2002-05-24	2017-08-01	2020-08-01
Barley - Two-row spring	Norman	6534	2009-02-02	2017-08-01	2020-08-01
Bean - Black	Carmen Black	6886	2010-09-23	2015-08-01	2018-08-01
Bean - Pinto	AC Pintoba	4668	1998-01-16	2015-08-01	2018-08-01
Bean - Red Mexican	AC Scarlet	5217	2000-11-30	2015-08-01	2018-08-01
Fababean	Florent	6567	2009-03-16	2016-08-01	2019-08-01
Flax - Oilseed	Shape	6477	2008-06-27	2017-08-01	2020-08-01
Flax - Oilseed	AC Watson	4441	1997-01-07	2018-08-01	2021-08-01
Flax - Oilseed	PRO 285	4588	1997-05-06	2018-08-01	2021-08-01
Oat - Spring	AC Rebel	4705	1998-03-09	2017-08-01	2020-08-01
Oat - Spring	Goslin	5157	2000-06-23	2017-08-01	2020-08-01
Oat - Spring	AC Vermont	5249	2001-02-21	2017-08-01	2020-08-01
Oat - Spring	Sherwood	5846	2004-08-04	2017-08-01	2020-08-01
Oat - Spring	Stainless	6422	2008-04-07	2017-08-01	2020-08-01
Oat - Spring	Athabasca	1834	1978-04-14	2018-08-01	2021-08-01
Oat - Spring	Cascade	1920	1979-04-09	2018-08-01	2021-08-01
Oat - Spring	Manic	1942	1979-10-10	2018-08-01	2021-08-01
Oat - Spring	Dumont	2250	1982-05-20	2018-08-01	2021-08-01
Oat - Spring	Riel	2535	1985-05-10	2018-08-01	2021-08-01
Oat - Spring	Marion	2544	1985-06-05	2018-08-01	2021-08-01

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Oat - Spring	Capital	2848	1987-06-03	2018-08-01	2021-08-01
Oat - Spring	Condesa	3017	1988-12-09	2018-08-01	2021-08-01
Oat - Spring	AC Stewart	3384	1991-03-05	2018-08-01	2021-08-01
Oat - Spring	AC Hunter	3587	1992-04-21	2018-08-01	2021-08-01
Oat - Spring	AC Francis	4382	1996-08-09	2018-08-01	2021-08-01
Oat - Spring	Kaufmann	5373	2001-11-22	2018-08-01	2021-08-01
Oat - Spring	AC Rebel	4705	1998-03-09	2015-08-01	2018-08-01
Oat - Spring Hulless	AC Belmont	3649	1992-08-14	2018-08-01	2021-08-01
Oat - Spring Hulless	AC Baton	3963	1994-06-01	2018-08-01	2021-08-01
Oat - Spring Hulless	Tibor	2534	1985-05-06	2017-08-01	2020-08-01
Oat - Spring Hulless	AC Lotta	3414	1991-04-08	2017-08-01	2020-08-01
Oat - Spring Hulless	AC Fregeau	4381	1996-08-09	2017-08-01	2020-08-01
Pea - Green field	Nitouche	4900	1999-04-14	2015-08-01	2018-08-01
Pea - Yellow field	Sorento	6303	2007-06-27	2017-08-01	2020-08-01
Pea - Yellow field	AC Melfort	4861	1999-02-10	2015-08-01	2018-08-01
Potato	Morning Gold	4525	1997-03-21	2016-08-01	2019-08-01
Potato	Concurrent	4814	1998-10-06	2016-08-01	2019-08-01
Potato	Obelix	4815	1998-10-06	2016-08-01	2019-08-01
Potato	Van Gogh	4959	1999-07-23	2016-08-01	2019-08-01
Potato	NL10-RBK	4928	1999-05-06	2017-08-01	2020-08-01
Potato	NL10-SUP	4929	1999-05-06	2017-08-01	2020-08-01
Potato	NL30-RBK-82	5501	2002-06-13	2017-08-01	2020-08-01
Potato	NL20-SHE	5502	2002-06-13	2017-08-01	2020-08-01
Ryegrass - Perennial	Rosalin	4606	1997-06-12	2018-08-01	2021-08-01
Soybean - Oilseed	Olexrr	5469	2002-04-29	2016-08-01	2019-08-01
Soybean - Oilseed	Vistarr	5482	2002-05-14	2016-08-01	2019-08-01
Soybean - Oilseed	Riotrr	5584	2003-01-31	2016-08-01	2019-08-01
Soybean - Oilseed	Toreorr	5594	2003-03-06	2016-08-01	2019-08-01
Soybean - Oilseed	Lynxrr	5759	2004-03-18	2016-08-01	2019-08-01
Soybean - Oilseed	Drakorr	5813	2004-05-12	2016-08-01	2019-08-01
Soybean - Oilseed	PS 0027 RR	6548	2009-02-24	2016-08-01	2019-08-01
Soybean - Oilseed	Hyperion	6569	2009-03-16	2016-08-01	2019-08-01
Soybean - Oilseed	Fulgorarr	6570	2009-03-16	2016-08-01	2019-08-01
Soybean - Oilseed	Isisrr	6576	2009-03-26	2016-08-01	2019-08-01
Soybean - Oilseed	9132	4166	1995-08-14	2017-08-01	2020-08-01
Soybean - Oilseed	York	4321	1996-04-24	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 315	4646	1997-11-05	2018-08-01	2021-08-01
Soybean - Oilseed	Wizard	4709	1998-03-11	2018-08-01	2021-08-01
Soybean - Oilseed	AC Carnduff	4713	1998-03-13	2018-08-01	2021-08-01

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PROPOSED LIST OF VARIETY REGISTRATION CANCELLATIONS (CONTINUED)

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Soybean - Oilseed	3201R	4755	1998-05-20	2018-08-01	2021-08-01
Soybean - Oilseed	2601R	4770	1998-06-05	2018-08-01	2021-08-01
Soybean - Oilseed	2701R	4771	1998-06-05	2018-08-01	2021-08-01
Soybean - Oilseed	2801R	4772	1998-06-05	2018-08-01	2021-08-01
Soybean - Oilseed	AG2101	4788	1998-07-08	2018-08-01	2021-08-01
Soybean - Oilseed	2702R	4882	1999-03-29	2018-08-01	2021-08-01
Soybean - Oilseed	RR Robust	4917	1999-05-03	2018-08-01	2021-08-01
Soybean - Oilseed	DKB00-99	4918	1999-05-03	2018-08-01	2021-08-01
Soybean - Oilseed	DKB07-51	4919	1999-05-03	2018-08-01	2021-08-01
Soybean - Oilseed	DKB20-10	4996	1999-10-06	2018-08-01	2021-08-01
Soybean - Oilseed	26R	5106	2000-05-05	2018-08-01	2021-08-01
Soybean - Oilseed	2802R	5173	2000-08-25	2018-08-01	2021-08-01
Soybean - Oilseed	3102R	5174	2000-08-25	2018-08-01	2021-08-01
Soybean - Oilseed	AG2703	5175	2000-08-25	2018-08-01	2021-08-01
Soybean - Oilseed	DKB13-51	5176	2000-08-25	2018-08-01	2021-08-01
Soybean - Oilseed	DKB23-51	5177	2000-08-25	2018-08-01	2021-08-01
Soybean - Oilseed	DKB26-51	5178	2000-08-25	2018-08-01	2021-08-01
Soybean - Oilseed	DKB26-52	5182	2000-09-08	2018-08-01	2021-08-01
Soybean - Oilseed	B2111RR	5229	2001-01-03	2018-08-01	2021-08-01
Soybean - Oilseed	DKB07-75	5269	2001-03-19	2018-08-01	2021-08-01
Soybean - Oilseed	DKB00-65	5270	2001-03-19	2018-08-01	2021-08-01
Soybean - Oilseed	D601R	5335	2001-06-06	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 3090R	5369	2001-10-29	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2790R	5370	2001-10-29	2018-08-01	2021-08-01
Soybean - Oilseed	DKB005-51	5497	2002-06-04	2018-08-01	2021-08-01
Soybean - Oilseed	Arctic	5513	2002-07-05	2018-08-01	2021-08-01
Soybean - Oilseed	25-02R	5526	2002-07-23	2018-08-01	2021-08-01
Soybean - Oilseed	DKB06-52	5527	2002-07-23	2018-08-01	2021-08-01
Soybean - Oilseed	Polar	5604	2003-03-25	2018-08-01	2021-08-01
Soybean - Oilseed	26-02R	5612	2003-03-31	2018-08-01	2021-08-01
Soybean - Oilseed	25-03R	5613	2003-03-31	2018-08-01	2021-08-01
Soybean - Oilseed	Breeze	5614	2003-03-31	2018-08-01	2021-08-01
Soybean - Oilseed	32-03R	5616	2003-04-02	2018-08-01	2021-08-01
Soybean - Oilseed	30-04R	5617	2003-04-02	2018-08-01	2021-08-01
Soybean - Oilseed	31-03R	5618	2003-04-02	2018-08-01	2021-08-01
Soybean - Oilseed	29-02R	5619	2003-04-02	2018-08-01	2021-08-01
Soybean - Oilseed	Chinook	5699	2003-11-20	2018-08-01	2021-08-01
Soybean - Oilseed	ADV Runaway RR	5705	2003-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	Jade	5760	2004-03-23	2018-08-01	2021-08-01

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Soybean - Oilseed	PRO 3190R	5766	2004-03-24	2018-08-01	2021-08-01
Soybean - Oilseed	25-04R	5790	2004-04-21	2018-08-01	2021-08-01
Soybean - Oilseed	27-06R	5791	2004-04-21	2018-08-01	2021-08-01
Soybean - Oilseed	30-06R	5806	2004-05-10	2018-08-01	2021-08-01
Soybean - Oilseed	31-04R	5809	2004-05-10	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 3195R	5812	2004-05-12	2018-08-01	2021-08-01
Soybean - Oilseed	27-51R	5913	2005-03-07	2018-08-01	2021-08-01
Soybean - Oilseed	30-07R	5917	2005-03-10	2018-08-01	2021-08-01
Soybean - Oilseed	32-51R	5918	2005-03-10	2018-08-01	2021-08-01
Soybean - Oilseed	28-51R	5923	2005-03-21	2018-08-01	2021-08-01
Soybean - Oilseed	28-52R	5924	2005-03-21	2018-08-01	2021-08-01
Soybean - Oilseed	Cyrano RR	5973	2005-07-18	2018-08-01	2021-08-01
Soybean - Oilseed	RC3125	6003	2005-11-28	2018-08-01	2021-08-01
Soybean - Oilseed	32-04R	6004	2005-11-08	2018-08-01	2021-08-01
Soybean - Oilseed	24-51R	6014	2005-11-24	2018-08-01	2021-08-01
Soybean - Oilseed	RT0395	6016	2005-11-28	2018-08-01	2021-08-01
Soybean - Oilseed	32-52R	6017	2005-11-28	2018-08-01	2021-08-01
Soybean - Oilseed	RC 2723	6018	2005-11-28	2018-08-01	2021-08-01
Soybean - Oilseed	RT0087	6019	2005-11-28	2018-08-01	2021-08-01
Soybean - Oilseed	RC 2906	6073	2006-04-13	2018-08-01	2021-08-01
Soybean - Oilseed	RT 2533	6074	2006-04-13	2018-08-01	2021-08-01
Soybean - Oilseed	26-54R	6129	2006-05-15	2018-08-01	2021-08-01
Soybean - Oilseed	27-07R	6130	2006-05-15	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2615R	6131	2006-05-15	2018-08-01	2021-08-01
Soybean - Oilseed	RT2442	6132	2006-05-15	2018-08-01	2021-08-01
Soybean - Oilseed	25-52R	6143	2006-05-24	2018-08-01	2021-08-01
Soybean - Oilseed	28-03R	6144	2006-05-26	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2915R	6146	2006-05-24	2018-08-01	2021-08-01
Soybean - Oilseed	32-54VR	6376	2008-02-04	2018-08-01	2021-08-01
Soybean - Oilseed	30-08 VR	6377	2008-02-04	2018-08-01	2021-08-01
Soybean - Oilseed	29-52R	6381	2008-02-13	2018-08-01	2021-08-01
Soybean - Oilseed	26-55R	6382	2008-02-13	2018-08-01	2021-08-01
Soybean - Oilseed	32-05R	6383	2008-02-13	2018-08-01	2021-08-01
Soybean - Oilseed	31-53R	6385	2008-02-13	2018-08-01	2021-08-01
Soybean - Oilseed	32-60RY	6537	2009-02-02	2018-08-01	2021-08-01
Soybean - Oilseed	5201RR2Y	6538	2009-02-02	2018-08-01	2021-08-01
Soybean - Oilseed	31-10RY	6539	2009-02-02	2018-08-01	2021-08-01
Soybean - Oilseed	HS 24RYS01	6541	2009-02-04	2018-08-01	2021-08-01
Soybean - Oilseed	32-55VR	6551	2009-02-24	2018-08-01	2021-08-01
Soybean - Oilseed	24-52R	6557	2009-03-06	2018-08-01	2021-08-01

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PROPOSED LIST OF VARIETY REGISTRATION CANCELLATIONS (CONTINUED)

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Soybean - Oilseed	27-52R	6587	2009-04-20	2018-08-01	2021-08-01
Soybean - Oilseed	Geryon RR	6692	2009-12-24	2018-08-01	2021-08-01
Soybean - Oilseed	NSC Argyle RR	6693	2009-12-24	2018-08-01	2021-08-01
Soybean - Oilseed	27-60RY	6722	2010-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	28-61RY	6723	2010-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2835R2	6724	2010-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	29-60RY	6725	2010-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	31-11RY	6726	2010-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	29-10RY	6735	2010-02-08	2018-08-01	2021-08-01
Soybean - Oilseed	CF30GR	6736	2010-02-08	2018-08-01	2021-08-01
Soybean - Oilseed	HS 16RY04	6751	2010-02-26	2018-08-01	2021-08-01
Soybean - Oilseed	PS 2797 NR2	6752	2010-02-26	2018-08-01	2021-08-01
Soybean - Oilseed	HS 26RYS16	6823	2010-05-14	2018-08-01	2021-08-01
Soybean - Oilseed	CF51GR	6824	2010-05-14	2018-08-01	2021-08-01
Soybean - Oilseed	Dart RR	6825	2010-05-14	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Tungsten	6832	2010-03-31	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 3215R2C	6834	2010-06-09	2018-08-01	2021-08-01
Soybean - Oilseed	HS 03RY11	6835	2010-06-09	2018-08-01	2021-08-01
Soybean - Oilseed	Fury RR	6897	2010-11-17	2018-08-01	2021-08-01
Soybean - Oilseed	CF21GR	6898	2010-11-17	2018-08-01	2021-08-01
Soybean - Oilseed	24-60RY	6909	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	25-60RY	6911	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	S01-K8	6912	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	27-10RY	6914	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	CF11GR	6915	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	Endurance R2	6917	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	30-10RY	6918	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	31-60RY	6919	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	32-61RY	6920	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	CF41GR	6921	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	HS 24RYS15	6922	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2825R2C	6924	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2935R2C	6925	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	R2T0510	6926	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	R2T0980	6927	2010-12-21	2018-08-01	2021-08-01
Soybean - Oilseed	HS 09RYS12	6933	2011-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2635R2	6934	2011-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	30-11RY	6935	2011-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	30-61RY	6936	2011-01-13	2018-08-01	2021-08-01

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Soybean - Oilseed	CF61GR	6941	2011-01-17	2018-08-01	2021-08-01
Soybean - Oilseed	Valiant RR	6943	2011-01-24	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Gold	6944	2011-01-24	2018-08-01	2021-08-01
Soybean - Oilseed	Twister RR	6945	2011-01-24	2018-08-01	2021-08-01
Soybean - Oilseed	R2C2000	6946	2011-01-24	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Gravity	6947	2011-01-24	2018-08-01	2021-08-01
Soybean - Oilseed	S05-B3	6954	2011-02-04	2018-08-01	2021-08-01
Soybean - Oilseed	S16-J4	6955	2011-02-04	2018-08-01	2021-08-01
Soybean - Oilseed	S25-W4	6956	2011-02-04	2018-08-01	2021-08-01
Soybean - Oilseed	S28-M1	6957	2011-02-04	2018-08-01	2021-08-01
Soybean - Oilseed	Murano R2	6961	2011-02-17	2018-08-01	2021-08-01
Soybean - Oilseed	R2C3011	6969	2011-03-03	2018-08-01	2021-08-01
Soybean - Oilseed	PS 3092NR2	6985	2011-03-21	2018-08-01	2021-08-01
Soybean - Oilseed	LS 006R21	6992	2011-04-06	2018-08-01	2021-08-01
Soybean - Oilseed	Laka R2	6999	2011-04-11	2018-08-01	2021-08-01
Soybean - Oilseed	Maheo R2	7000	2011-04-11	2018-08-01	2021-08-01
Soybean - Oilseed	Chadburn R2	7013	2011-05-05	2018-08-01	2021-08-01
Soybean - Oilseed	S31-L7	7017	2011-05-10	2018-08-01	2021-08-01
Soybean - Oilseed	NSC Balmoral RR2	7023	2011-05-16	2018-08-01	2021-08-01
Soybean - Oilseed	PS 0753 R2	7033	2011-07-07	2018-08-01	2021-08-01
Soybean - Oilseed	Thesan R2	7040	2011-07-14	2018-08-01	2021-08-01
Soybean - Oilseed	Monaco RR	7041	2011-07-14	2018-08-01	2021-08-01
Soybean - Oilseed	LS 007R22	7074	2011-10-19	2018-08-01	2021-08-01
Soybean - Oilseed	HS 28RYS28	7081	2011-11-18	2018-08-01	2021-08-01
Soybean - Oilseed	PS 1563 R2	7085	2011-12-01	2018-08-01	2021-08-01
Soybean - Oilseed	PS 2393 NR2	7086	2011-12-01	2018-08-01	2021-08-01
Soybean - Oilseed	NSC Anola RR2Y	7087	2011-12-01	2018-08-01	2021-08-01
Soybean - Oilseed	S05-A7	7089	2011-12-06	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Dynamite	7092	2011-12-06	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Impact	7093	2011-12-06	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Platinum	7094	2011-12-06	2018-08-01	2021-08-01
Soybean - Oilseed	Pekko R2	7100	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	R2C2351	7101	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	R2T1741	7102	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	R2C2861	7103	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	PS 0083 R2	7104	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	R2T0221	7106	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	32-11RY	7108	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	26-61RY	7109	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	23-10RY	7110	2011-12-20	2018-08-01	2021-08-01

PROPOSED LIST OF VARIETY REGISTRATION CANCELLATIONS (CONTINUED)

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Soybean - Oilseed	CF52GR	7111	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	Currie R2	7112	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	Opto R2	7113	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2725R2	7115	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	Mirada RR	7116	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	Aspen RR	7117	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	Sono R2	7118	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	Theo R2	7119	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	28-12RT	7122	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	29-11RY	7123	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	NSC Elie RR2Y	7124	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	Samps R2	7125	2011-12-20	2018-08-01	2021-08-01
Soybean - Oilseed	004R21	7137	2012-02-02	2018-08-01	2021-08-01
Soybean - Oilseed	LS 003R22	7164	2012-03-13	2018-08-01	2021-08-01
Soybean - Oilseed	TH 33008R2Y	7215	2012-06-07	2018-08-01	2021-08-01
Soybean - Oilseed	Montero R2	7216	2012-06-07	2018-08-01	2021-08-01
Soybean - Oilseed	S00-T9	7260	2012-11-29	2018-08-01	2021-08-01
Soybean - Oilseed	CF43GR	7261	2012-11-29	2018-08-01	2021-08-01
Soybean - Oilseed	24-61RY	7262	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	26-62RY	7263	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	CF23GR	7264	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	Imana R2	7269	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	LS 002R23	7270	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	PS 1614 NR2	7274	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	R2C0992	7275	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	R2C1782	7276	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Fusion	7277	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	Stealth R2	7278	2012-12-04	2018-08-01	2021-08-01
Soybean - Oilseed	PS 2014 NR2	7283	2012-12-12	2018-08-01	2021-08-01
Soybean - Oilseed	26-12RY	7289	2012-12-17	2018-08-01	2021-08-01
Soybean - Oilseed	PS 2314 NR2	7290	2012-12-17	2018-08-01	2021-08-01
Soybean - Oilseed	CF13GR	7305	2013-01-10	2018-08-01	2021-08-01
Soybean - Oilseed	Santo R2	7459	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	Malibu R2	7463	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	Camaro R2	7464	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	Sanopi R2	7465	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	PRO 2775 R2	7468	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	CF14GR	7470	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	31-61RY	7471	2014-01-13	2018-08-01	2021-08-01

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Soybean - Oilseed	Torino R2	7472	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	PS 2945 NR2	7473	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	Corvette R2	7474	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	Nanook R2	7476	2014-01-13	2018-08-01	2021-08-01
Soybean - Oilseed	LS 005R24	7481	2014-02-11	2018-08-01	2021-08-01
Soybean - Oilseed	TH 35002 R2Y	7636	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	CF65GR	7638	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	PS 1315NR2	7640	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	Voit R2	7641	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	24-11RY	7642	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	28-14RY	7643	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	32-12RY	7646	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	R2C2754	7648	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	PS 2335 NR2	7649	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	31-12RY	7650	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	Venture R2	7654	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	Smith R2	7655	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	LS Northwester	7657	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	LS 004R25	7660	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	Carda R2	7661	2015-02-06	2018-08-01	2021-08-01
Soybean - Oilseed	30-12RY	7662	2015-02-09	2018-08-01	2021-08-01
Soybean - Oilseed	DKB06-61	7806	2015-10-09	2018-08-01	2021-08-01
Soybean - Oilseed	DKB20-01	7809	2015-10-09	2018-08-01	2021-08-01
Soybean - Oilseed	DKB24-41	7811	2015-10-09	2018-08-01	2021-08-01
Soybean - Oilseed	PRO3225R2X	7819	2015-10-09	2018-08-01	2021-08-01
Soybean - Oilseed	24-12RY	7882	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	25-11RY	7883	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	29-62RY	7886	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	31-14RY	7887	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	32-62RY	7888	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Optic	7890	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	RR2 Capella	7891	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	PS 0088 R2	7893	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	Cairns R2	7894	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	PRO3175R2	7895	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	PRO2900R2	7897	2016-01-29	2018-08-01	2021-08-01
Soybean - Oilseed	DKB10-01	8016	2016-05-20	2018-08-01	2021-08-01
Soybean - Oilseed	22-61RY	8183	2017-02-10	2018-08-01	2021-08-01
Soybean - Oilseed	DKB10-54	8284	2017-06-30	2018-08-01	2021-08-01
Soybean - Oilseed	PS 0044 XRN	8306	2017-07-21	2018-08-01	2021-08-01

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Soybean - Oilseed	Zephyr	4553	1997-04-10	2019-08-01	2022-08-01
Soybean - Oilseed	DS-Admiral	5166	2000-06-30	2019-08-01	2022-08-01
Soybean - Oilseed	28-60RY	6727	2010-01-29	2019-08-01	2022-08-01
Soybean - Oilseed	22-60RY	7656	2015-02-06	2019-08-01	2022-08-01
Soybean - Oilseed	23-11RY	7659	2015-02-06	2019-08-01	2022-08-01
Soybean - Oilseed	DKB09-91	7807	2015-10-09	2019-08-01	2022-08-01
Soybean - Oilseed	DKB22-21	7810	2015-10-09	2019-08-01	2022-08-01
Soybean - Oilseed	26-14RY	7884	2016-01-29	2019-08-01	2022-08-01
Soybean - Oilseed	DKB26-61	8018	2016-05-20	2019-08-01	2022-08-01
Soybean - Oilseed	DKB03-95	8278	2017-06-30	2019-08-01	2022-08-01
Soybean - Oilseed	DKB12-57	8279	2017-06-30	2019-08-01	2022-08-01
Soybean - Oilseed	DKB17-34	8286	2017-06-30	2019-08-01	2022-08-01
Soybean - Oilseed	DKB06-43	8289	2017-06-30	2019-08-01	2022-08-01
Soybean - Oilseed	DKB007-67	8464	2018-03-29	2019-08-01	2022-08-01
Soybean - Oilseed	DKB02-04	8465	2018-03-29	2019-08-01	2022-08-01

2019 INSURED COMMERCIAL ACRES

This insured acreage report is prepared annually by the Canadian Grain Commission. Seeded area figures reflect insured commercial grain production only. Pedigreed seed production is excluded. Classification of varieties according to their class is based on the Canadian Grain Commission's lists of designated varieties. Variety names shown in this report were based on data keyed from different sources. The CGC has validated and corrected the data as much as possible using official sources. If discrepancies are found, please contact the Canadian Grain Commission. For further information, contact the CGC at 1-800-853-6705.

CWAD DURUM: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CWAD SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Transcend	172,953	5	1,160,052	37	185		1,333,190	42
CDC Precision	45,364	1	365,917	12			411,281	13
Brigade	58,225	2	294,107	9			352,332	11
AAC Spitfire	50,739	2	244,295	8			295,034	9
Strongfield	61,913	2	160,062	5			221,975	7
CDC Fortitude	29,988	1	81,315	3	270		111,573	4
CDC Alloy	22,304	1	67,522	2			89,826	3
CDC Verona	17,765	1	56,720	2			74,485	2
AAC Raymore	29,094	1	15,450				44,544	1
AAC Congress	11,310		25,658	1			36,968	1
AC Navigator	3,970		27,912	1			31,882	1
Eurostar	847		26,402	1			27,249	1
Enterprise	7,815		16,025	1			23,840	1
AAC Current	816		18,832	1			19,648	1
Kyle	1,047		16,898	1			17,945	1
CDC Carbide	360		13,706		743		14,809	
AAC Stronghold	9,283		4,445				13,728	
AC Avonlea	3,696		5,500				9,196	
CDC Vivid	3,059		4,892				7,951	
AAC Marchwell			7,347				7,347	
Commander			6,669				6,669	
AAC Cabri	70		3,847				3,917	
CDC Credence			3,669				3,669	
CDC Dynamic	631		1,425				2,056	
CDC Desire			1,344				1,344	
AC Morse			1,310				1,310	
Napoleon			1,150				1,150	
AAC Succeed	925						925	
Sceptre	98						98	
AAC Grainland	70						70	
Total	532,342	17	2,632,471	83	1,198		3,166,011	100

BY CROP TYPE: TOTAL INSURED COMMERCIAL ACRES

ALL CROPS SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Canola	4,523,364	9	9,585,083	19	3,218,650	6	17,327,097	34
Wheat	4,964,962	10	6,606,048	13	2,932,758	6	14,569,880	28
Barley	2,382,921	5	2,034,556	4	337,473	1	4,788,380	9
Amber Durum	532,514	1	3,037,934	6	1,198		3,571,646	7
Pea	1,322,761	3	1,776,304	3	104,435		3,203,500	6
Lentil	228,133		2,568,505	5	1,542		2,798,180	5
Oat	274,115	1	743,814	1	516,030	1	1,557,708	3
Soybean			93,115		1,295,092	3	1,388,207	3
Flaxseed	73,371		506,794	1	42,033		622,198	1
Corn	15,336		5,116		416,268	1	436,720	1
Chickpea	54,612		245,150		150		299,912	1
Mustard	57,599		180,666		1,923		240,188	
Bean	55,019		2,644		111,912		169,575	
Canary Seed	1,615		162,629		3,179		167,423	
Rye	17,080		26,287		94,025		137,392	
Fababean	32,530		38,860		8,052		79,442	
Sunflower	1,421		4,815		65,863		72,099	
Pea Bean					43,689		43,689	
Triticale	19,799		11,923		1,908		33,630	
Buckwheat					6,766		6,766	

WHEAT, BY CLASS: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

WHEAT SEEDED AREA	ALTA. ACRES	SASK. ACRES	MAN. ACRES	TOTAL ACRES
CWRS	4,256,620	5,433,730	2,688,928	12,379,278
CPS	436,019	82,369	49,673	568,061
CWSWS	154,173	132,224	-	286,397
CNHR	42,252	45,717	153,985	241,954
CWSP	20,385	91,838	3,226	115,449
CWRW	48,593	19,725	31,176	99,494
CWHWS	3,163	3,168	860	7,191
CWES	290	-	461	751
CWAD	532,342	2,632,471	1,198	3,166,011
Total	5,493,837	8,441,242	2,929,507	16,864,586

CWSP WHEAT: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CWSP SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Pasteur	12,416	11	87,628	76	1,741	2	101,785	88
Pintail	2,232	2	796	1			3,028	3
Alderon	2,936	3					2,936	3
Sparrow	415		1,306	1			1,721	1
CDC Nrg003	1,523	1					1,523	1
CDC Falcon					1,485	1	1,485	1
CDC Ptarmigan			1,113	1			1,113	1
AAC Innova			995	1			995	1
AAC Awesome	641	1					641	1
AAC NRG097	155						155	
Charing	67						67	
Total	20,385	18	91,838	80	3,226	3	115,449	100

Sources: Sask Crop Insurance, Alberta Ag Financial Services Corp., Manitoba Agricultural Services Corporation, BC Crop Insurance

BE LIKE BRIAN

Brian said they saved \$22.50 per acre using their new seeding system.

5 YEAR LEASE PROGRAM

What does \$22.50 per acre in canola savings look like on your farm? Over a 5 year period, you almost can't afford not to.

YOU DO THE MATH

SEED MASTER

2019 INSURED COMMERCIAL ACRES (CONTINUED)

CWRS WHEAT: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CWRS SEEDED AREA	B.C.		ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%	ACRES	%
AAC Brandon	4,131		1,344,016	11	2,131,224	17	1,779,207	14	5,258,578	42
AAC Elie	2,689		418,002	3	223,478	2	199,052	2	843,221	7
CDC Landmark			61,747	1	706,731	6	60,487		828,965	7
AAC Viewfield			316,931	3	199,170	2	219,044	2	735,145	6
CDC Plentiful			140,542	1	291,200	2	31,200		462,942	4
Stettler	5,718		379,072	3	30,973		2,814		418,577	3
Cardale			18,497		239,100	2	101,212	1	358,809	3
CDC Utmost			91,760	1	233,254	2	2,242		327,256	3
CDC Go	12,584		290,141	2	14,794		2,678		320,197	3
Carberry			106,151	1	165,592	1	28,731		300,474	2
CDC Stanley	3,278		152,133	1	103,375	1	14,162		272,948	2
Muchmore			166,482	1	21,820		6,679		194,981	2
CDC Titanium			23,116		158,906	1	6,643		188,665	2
CDC Abound			159,741	1	10,098				169,839	1
AAC Connery	913		128,458	1	25,489		7,221		162,081	1
AAC Cameron			14,109		112,769	1	27,769		154,647	1
AAC Redwater	12,753		105,893	1	10,751		21,507		150,904	1
AAC Redberry	413		50,715		42,344		51,184		144,656	1
Glenn			33,587		76,540	1	21,344		131,471	1
CDC Hughes	701		25,064		83,542	1	9,261		118,568	1
Shaw			22,914		83,504	1	28		106,446	1
AAC Jatharia					96,391	1	155		96,546	1
CDC VR Morris			13,421		62,532	1	8,284		84,237	1
5605HR CL			16,286		30,987		10,400		57,673	
Superb			30,925		12,196		183		43,304	
Vesper					38,717				38,717	
AC Barrie			3,826		29,091		4,044		36,961	
Thorsby	311		35,592						35,903	
AAC Tisdale	766		678		8,465		25,547		35,456	
AC Domain					5,798		23,557		29,355	
Goodeve			3,348		25,947				29,295	
5604HR CL			9,964		12,983		2,901		25,848	
AAC Prevail					24,198		54		24,252	
AC Splendor	1,182		8,432		12,840		916		23,370	
AC Intrepid	1,701		8,098		12,241		1,169		23,209	
Waskada			229		20,445		570		21,244	
WR859 CL			1,212		16,194		1,258		18,664	
CDC Imagine			7,322		8,514		1,527		17,363	
Go Early	3,148		8,982						12,130	
CDC Adamant			3,577		7,676				11,253	

CWSWS WHEAT: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CWSWS SEEDED AREA	ALTA.		SASK.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%
Sadash	100,019	35	71,089	25	171,108	60
AC Andrew	28,670	10	59,412	21	88,082	31
AC Chiffon	20,096	7	1,723	1	21,819	8
AAC Paramount	4,858	2			4,858	2
AC Indus	530				530	
Total	154,173	54	132,224	46	286,397	100

CWHWS WHEAT: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CWHWS SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Snowbird	1,733	24	1,367	19	145	2	3,245	45
AAC Whitefox			1,380	19			1,380	19
Snowstar			421	6	715	10	1,136	16
AAC Iceberg	1,110	15					1,110	15
Whitehawk	320	4					320	4
Total	3,163	44	3,168	44	860	12	7,191	100

Sources: Sask Crop Insurance, Alberta Ag Financial Services Corp., Manitoba Agricultural Services Corporation, BC Crop Insurance

2019 INSURED COMMERCIAL ACRES (CONTINUED)

MALTING BARLEY: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

MALT BARLEY SEEDED AREA	B.C.		ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Copeland	8,000		522,086	20	601,317	23	30,362	1	1,161,765	44
AC Metcalfe	7,963		174,677	7	417,271	16	25,487	1	625,398	24
AAC Synergy	719		260,802	10	212,275	8	32,886	1	506,682	19
Legacy			15,859	1	48,341	2	2,023		66,223	3
AAC Connect	533		19,245	1	20,304	1	14,313	1	54,395	2
CDC Bow			33,374	1	18,967	1	631		52,972	2
Newdale			11,314		16,312	1	13,282	1	40,908	2
Celebration					6,637		19,263	1	25,900	1
Bentley			12,363		3,966		2,950		19,279	1
CDC Platinum Star					18,327	1			18,327	1
CDC Fraser			7,090		3,905		3,022		14,017	1
CDC Meredith	1,048		6,054		5,515		155		12,772	
Sirish			8,436				160		8,596	
Tradition					438		5,630		6,068	
CDC Kindersley			3,192		565		1,567		5,324	
Harrington			788		1,457				2,245	
Robust			605				1,027		1,632	
CDCStratus			1,066		505				1,571	
CDCPolarstar			218		1,301				1,519	
Cerveza			1,311						1,311	

MALT BARLEY SEEDED AREA	B.C.		ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Lacey			476				692		1,168	
CDC Anderson			663		437				1,100	
CDC Copper			866						866	
CDC Yorkton			590				255		845	
Stellar-ND					416		405		821	
CDC Battleford			702						702	
Major			587						587	
AC Oxbow			512				1		513	
Lowe			482						482	
CDC Clear			45				428		473	
Merit 57			295						295	
Manley			40				118		158	
CDC Goldstar			150						150	
Excel			143						143	
AAC Goldman			136						136	
CDC Clyde			129						129	
CDC Aurora Nijo			110						110	
Merit 16			85						85	
CDC Kendall			70						70	
Total	18,263	1	1,084,561	41	1,378,256	52	154,657	6	2,635,737	100

CWRW WHEAT: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CWRW SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
AAC Gateway	14,587	15			10,219	10	24,806	25
Emerson	1,797	2	4,944	5	17,419	18	24,160	24
AAC Wildfire	16,552	17	2,543	3	310		19,405	20
Moats	3,959	4	5,956	6	571	1	10,486	11
Radiant	9,328	9					9,328	9
CDC Buteo			2,867	3	1,322	1	4,189	4
Flourish	178		3,415	3	150		3,743	4
AAC Elevate	1,501	2			890	1	2,391	2
Norstar	501	1					501	1
Mcclintock					235		235	
AAC Goldrush	130						130	
CDC Osprey	60						60	
AC Tempest					60		60	
Total	48,593	49	19,725	20	31,176	31	99,494	100

CNHR WHEAT: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CNHR SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Faller	1,470	1	13,120	5	117,294	48	131,884	55
Prosper					34,846	14	34,846	14
AC Foremost	26,960	11					26,960	11
Lillian	2,028	1	5,968	2			7,996	3
Conquer	2,175	1	5,261	2			7,436	3
AC Crystal	2,613	1	3,988	2			6,601	3
Harvest	1,196		4,967	2	93		6,256	3
Elgin Nd			3,449	1	1,290	1	4,739	2
Unity			4,704	2			4,704	2
Oslo	4,376	2					4,376	2
Mckenzie			1,945	1			1,945	1
Columbus	95		945		100		1,140	
AAC Concord	1,009						1,009	
Conway			762				762	
CDC Makwa			608				608	
Kane	148				182		330	
Katepwa	182						182	
5603HR					180		180	
Total	42,252	17	45,717	19	153,985	64	241,954	100

Sources: Sask Crop Insurance, Alberta Ag Financial Services Corp., Manitoba Agricultural Services Corporation, BC Crop Insurance

2019 INSURED COMMERCIAL ACRES (CONTINUED)

NON-MALTING BARLEY: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

MALT BARLEY SEED AREA	B.C.		ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Austenson	8,482		432,416	20	247,521	12	76,324	4	764,743	36
Not Specified	1,957		3,085		246,633	11	5,613		257,288	12
Brahma			204,308	9	2,091				206,399	10
Champion			109,208	5	31,286	1	5,485		145,979	7
Xena			119,525	6	6,145				125,670	6
Canmore			95,004	4			9,765		104,769	5
Conlon			19,857	1	8,335		71,908	3	100,100	5
CDC Coalition			90,830	4	4,316				95,146	4
CDC Maverick	344		27,522	1	32,969	2	4,854		65,689	3
CDC Cowboy			30,090	1	19,806	1	1,956		51,852	2
Claymore			20,559	1	26,618	1	564		47,741	2
Oreana			38,554	2	6,867		1,525		46,946	2
Seebe			13,953	1					13,953	1
CDC Thompson			13,408	1					13,408	1
AC Ranger	175		2,667		8,549		247		11,638	1
Amisk			8,285						8,285	
Sundre			5,647		2,196				7,843	
AC Rosser			2,176		5,568				7,744	
CDC Trey			6,698		894				7,592	
Ponoka			6,966						6,966	
Busby			5,762						5,762	
Gadsby			4,278						4,278	
CDC Bold			4,014						4,014	
Stander			3,526						3,526	
Falcon			2,988				23		3,011	
AC Albright	2,720								2,720	
CDC McGwire					2,151		500		2,651	
AB Cattlelac			2,497						2,497	
Trochu			2,231						2,231	
Vivar			2,215						2,215	
Chigwell			2,171						2,171	
CDC Helgason			2,036						2,036	
CDC Dolly			695		1,258				1,953	
Otal	1,489		374						1,863	
CDC Carter			150		1,708				1,858	
Bonanza			1,141		569		60		1,770	
BC 100			1,431						1,431	
Desperado							1,424		1,424	
Ascension							1,297		1,297	
CDC Earl			1,205						1,205	
AC Lacombe			995				65		1,060	
Winthrop			877						877	

CHICKPEA: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CHICKPEA SEED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Orion	48,140	88	87,499	36			135,639	45
CDC Leader	4,457	8	94,882	39			99,339	33
Not Specified			42,222	17	150	100	42,372	14
Amit (B90)	1,685	3	13,542	6			15,227	5
CDC Frontier			6,325	3			6,325	2
Sierra			680				680	
Myles	330	1					330	
Total	54,612	100	245,150	100	150	100	299,912	100

MALT BARLEY SEED AREA	B.C.		ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Muskwa			876						876	
Duke			576				280		856	
Phoenix			824						824	
Bronco						820			820	
Johnston			819						819	
Bridge			729						729	
Olli			649						649	
McLeod			609						609	
AC Harper			422						422	
Breton			354						354	
Summit							282		282	
Alston			272						272	
Formosa			258						258	
Samson			255						255	
Condor							240		240	
Brier			145				72		217	
Oceanik							200		200	
AB Advantage			198						198	
Selkirk			186						186	
Niobe			181						181	
Calder			174						174	
CDC Mindon			167						167	
Virden			155						155	
Tyto			150						150	
Sommerville			140						140	
Centurion							132		132	
CDC Sisler			125						125	
Klages			105						105	
Dillon			100						100	
Kasota			93						93	
Westford			80						80	
Stein			70						70	
CDC Springside			60						60	
B 1215			51						51	
Leduc			50						50	
Stetson			40						40	
Stockford			35						35	
B1602			25						25	
TR13606			25						25	
Abee			18						18	
Total	15,167	1	1,298,360	60	656,300	30	182,816	8	2,152,643	100

CWES WHEAT: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CWES SEED AREA	ALTA.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%
CDN Bison			461	61	461	61
Bluesky	290	39			290	39
Total	290	39	461	61	751	100

Sources: Sask Crop Insurance, Alberta Ag Financial Services Corp., Manitoba Agricultural Services Corporation, BC Crop Insurance

2019 INSURED COMMERCIAL ACRES (CONTINUED)

BEAN: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

BEAN SEED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Vibrant					28,341	25	28,341	17
Eclipse					20,866	19	20,866	12
Windbreaker					19,419	17	19,419	11
Island	17,143	31	549	21	991	1	18,683	11
AAC Whitehorse	8,343	15					8,343	5
Resolute	7,218	13					7,218	4
Not Specified	523	1	2,095	79	7,340	7	9,958	6
Red Hawk					5,524	5	5,524	3
CDC Blackstrap					5,089	5	5,089	3
AAC Tundra	4,835	9					4,835	3
Pink Panther					3,577	3	3,577	2
Monterrey					3,233	3	3,233	2
AAC Y012	3,067	6					3,067	2
AC Black Diamond	2,387	4					2,387	1
AC Redbond	2,377	4					2,377	1
Chianti					2,195	2	2,195	1
AAC Y015	1,821	3					1,821	1
SV6139GR					1,678	2	1,678	1
Etna	625	1			843	1	1,468	1
Aries	1,387	3					1,387	1
Bellagio					1,386	1	1,386	1
Beryl	130				1,247	1	1,377	1
SV6533GR					1,207	1	1,207	1
LRK Big Red					1,013	1	1,013	1
AAC Explorer	1,012	2					1,012	1
Merlot					989	1	989	1
Medicine Hat	980	2					980	1
Rosetta					845	1	845	1
Zenith					813	1	813	
Montcalm	395	1			339		734	
CDC Wm-2					726	1	726	
AAC Black Diamond 2	725	1					725	
Hime					700	1	700	
Dynasty					678	1	678	
Floyd					620	1	620	
Cabernet					512		512	
SVM Taylor Cranberry	425	1					425	
99131					400		400	
Bolt	386	1					386	
Winchester	314	1					314	
CDC Jet					280		280	
Sundance					263		263	
Black Tails					260		260	
Red Rover					217		217	
AAC Expedition	202						202	
Foxfire					150		150	
Fiesta Pinto	145						145	
AAC Argosy	134						134	
CDC White Mountain	130						130	
AAC Burdett	130						130	
Marquis	105						105	
Myasi	80						80	
Maverick					73		73	
Talon					72		72	
Yeti					21		21	
Pike G20E					5		5	
Total	55,019	100	2,644	100	111,912	100	169,575	100

MUSTARD: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

MUSTARD SEED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Andante	37,754	66	45,004	25	1,159	60	83,917	35
Centennial Brown	8,902	15	50,722	28			59,624	25
Not Specified	630	1	53,428	30	424	22	54,482	23
Cutlass	226		15,547	9	230	12	16,003	7
AC Pennant	9,210	16	3,418	2	110	6	12,738	5
Forge	400	1	8,330	5			8,730	4
AAC Adagio	147		2,499	1			2,646	1
Duchess			1,718	1			1,718	1
Lethbridge 22A	330	1					330	
Total	57,599	100	180,666	100	1,923	100	240,188	100

CANARYSEED: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CANARYSEED SEED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%				

2019 INSURED COMMERCIAL ACRES (CONTINUED)

CANOLA: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CANOLA SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
L233P	750,453	17	3,206,859	33	1,430,605	44	5,387,917	31
L252	206,668	5	826,965	9	310,095	10	1,343,728	8
Not Specified	33,444	1	1,159,056	12	10,580		1,203,080	7
L255 PC	242,866	5	418,458	4	376,350	12	1,037,674	6
L234PC	445,156	10	159,574	2	84,707	3	689,437	4
L230	137,821	3	384,639	4	72,731	2	595,191	3
L241C	472,946	10	31,075		12,350		516,371	3
75-65 RR	130,842	3	291,644	3	53,757	2	476,243	3
45CM39	152,162	3	248,949	3	42,504	1	443,615	3
45M35	63,870	1	221,477	2	28,669	1	314,016	2
75-42 CR	280,762	6	18,227		625		299,614	2
6074 RR	8,647		199,253	2	40,198	1	248,098	1
PV 540 G	42,555	1	181,929	2	20,077	1	244,561	1
74-44 BL	100,344	2	110,949	1	25,254	1	236,547	1
1026 RR	45,833	1	130,844	1	50,857	2	227,534	1
45H33	84,382	2	122,259	1	15,484		222,125	1
DKTF94CR	153,191	3	48,620	1	4,087		205,898	1
DKTF 92 SC	48,565	1	100,876	1	37,124	1	186,565	1
75-45 RR	79,581	2	91,156	1	11,067		181,804	1
P501L	47,896	1	78,906	1	54,466	2	181,268	1
V14-1	29,037	1	142,602	1	3,323		174,962	1
45CS40	53,640	1	99,658	1	8,558		161,856	1
1024 RR	20,210		96,800	1	35,361	1	152,371	1
46H75	5,461		86,103	1	59,344	2	150,908	1
L258HPC	33,664	1	94,968	1	10,192		138,824	1
L135C	121,042	3	6,104		228		127,374	1
L140P	13,598		76,837	1	30,628	1	121,063	1
6090 RR	42,501	1	63,091	1			105,592	1
CS2000	89,731	2	12,902		1,736		104,369	1
L157H	8,850		64,069	1	18,549	1	91,468	1
1028 RR	22,881	1	37,085		24,603	1	84,569	
1022 RR	8,705		27,568		40,584	1	76,857	
PV 585 GC	72,430	2			1,296		73,726	
2026 CL	9,008		30,681		33,755	1	73,444	
PV 581 GC	68,335	2			2,346		70,681	
45H37	53,930	1	11,457		942		66,329	
2024 CL	7,302		24,851		27,566	1	59,719	
5545 CL	6,739		32,622		13,260		52,621	
CS2300	3,595		32,777		10,482		46,854	
PV 200 CL	6,990		19,037		18,886	1	44,913	
6076 CR	41,610	1	805		2,453		44,868	
PV 560 GM	9,272		26,378		6,572		42,222	
HYHEAR 3	8,240		29,266		4,040		41,546	
D3155C	10,864		23,485		2,409		36,758	
45M38	10,840		13,483		11,188		35,511	
V12-1	2,217		29,823		1,030		33,070	
68K			15,499		17,411	1	32,910	
CS2600 CR-T	20,696		8,089		3,225		32,010	
CS2100	13,787		10,975		6,416		31,178	
45H76	5,399		19,398		5,673		30,470	
EVOLVE			29,300		145		29,445	
501			27,939		1,208		29,147	
581PV GC			28,970				28,970	
DKLL 81 BL			12,600		12,848		25,448	
V12-3	9,478		14,429				23,907	
45CM36	5,622		17,434		404		23,460	

2019 INSURED COMMERCIAL ACRES (CONTINUED)

CANOLA: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CANOLA SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
D3154S			1,364		2,288		3,652	
45S56	1,100		2,480		62		3,642	
45A51					3,640		3,640	
D3153			3,450				3,450	
NX4-202 CL			3,345				3,345	
73-45 RR	2,361		968				3,329	
VT 530 G			3,240				3,240	
45H29	1,400		1,519		290		3,209	
1134 CA					3,161		3,161	
6080 RR	613		2,116		275		3,004	
72-65 RR	236		2,590				2,826	
NEX 830 CL			2,480				2,480	
71-45 RR	2,347				50		2,397	
73-15 RR	2,339						2,339	
PV 590 GCS	2,267						2,267	
VT 500 G	1,294		786		165		2,245	
73-55 RR	145		2,099				2,244	
L156H			2,207				2,207	
6040 RR	425		1,773				2,198	
2463			2,175				2,175	
PV 580 GC	2,117						2,117	
Early One	2,079						2,079	
Synergy	1,263		593		120		1,976	
1867	1,962						1,962	
3010 M			1,844				1,844	
46M34	125		1,435		218		1,778	
46A65			1,262		510		1,772	
SY4166					1,770		1,770	
SY4157			1,721				1,721	
2022 CL	156		607		907		1,670	
45A55			715		942		1,657	
79K			644		1,000		1,644	
UA Bountygold	1,506						1,506	
2020 CL	216		499		766		1,481	
VR 9562 GC	1,470						1,470	
6064 RR			873		569		1,442	
580PV GC			1,435				1,435	
SW Wizzard	205				1,175		1,380	
72-35 RR	110		1,033		194		1,337	
Hyhear 1	210		765		360		1,335	
45H73	220		1,002		80		1,302	
1492			1,236		15		1,251	
SY4135	1,067				150		1,217	
45A76			1,195				1,195	
45H72	1,135						1,135	
NX4-106 RR			1,123				1,123	
L159	135		695		213		1,043	
UA Alfagold	968				62		1,030	
V1032	1,025						1,025	
6050 RR	130		886				1,016	
1990	907				100		1,007	
75-43 RR	965						965	
2563			811		148		959	
NX4-102 RR	380		575				955	
72-55 RR	954						954	
74-47 CR	892						892	

CANOLA SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
9440			887				887	
2733					882		882	
VR 9560 CL	602				262		864	
L261					853		853	
Sw Spirit River	849						849	
V24-1	710				132		842	
45H26	360				463		823	
C5513					792		792	
45H21			785				785	
1014 RR			768				768	
2016 CL			737				737	
43 E03 RR					710		710	
NX4-206 CL					704		704	
6056 CR	233				424		657	
NX4-101 RR	655						655	
D3150			593				593	
C5522					590		590	
1604			582				582	
35-85			580				580	
L154	450				110		560	
3345	120				435		555	
C5507	548						548	
45A71	510						510	
LL 27					468		468	
1145	125				318		443	
P502CL					430		430	
46H23					421		421	
41P55	395						395	
LBD 2393 LL					378		378	
6130 RR					320		320	
75-57 RR	320						320	
Red River 1861 RR					317		317	
NX4-107 RR	315						315	
93H01 RR	312						312	
45S52	305						305	
30-55	40				264		304	
L160S					295		295	
2153					294		294	
45H20	293						293	
1839 V	280						280	
5030	274						274	
PV 532 G	270						270	
V1010					224		224	
220	224						224	
6020 RR	220						220	
71-40 CL	140				80		220	
223 RR					215		215	
1143					210		210	
V2045	200						200	
45H74	190						190	
Kelsey	188						188	
9451	172						172	
Exceed					164		164	
NEX 822 CL	160						160	
46A52					160		160	

2019 INSURED COMMERCIAL ACRES (CONTINUED)

CANOLA: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CANOLA SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
1970					160		160	
4434 RR	159						159	
1999					155		155	
V1030	155						155	
5843 CL	154						154	
Reward	150						150	
IMC111 RR	150						150	
Foremost	150						150	
243 CL	150						150	
SW Hymark 3944	145						145	
5003					145		145	
CL 2061 RR					145		145	
43 E02	140						140	
Innovator	140						140	
Cougar CL	138						138	
EAGLE					125		125	
Apollo	122						122	
2012 CL	25				95		120	
458 RR	100						100	
4362 RR					100		100	
Hysyn 120 SC					100		100	
3303LL					100		100	
71-85 RR	93						93	
45A54					90		90	
Total					4,523,364	100	9,585,083	100

CORN: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CORN SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
P7527AM					85,668	21	85,668	20
DKC33-78RIB					48,604	12	48,604	11
P7455R					29,868	7	29,868	7
P7958AM					19,100	5	19,100	4
P7211HR			552	11	18,335	4	18,887	4
P7211AM					15,731	4	15,731	4
Not Specified	15,336	100			241		15,577	4
P7632AM					12,648	3	12,648	3
P7332R					12,607	3	12,607	3
TH 7578 VT2P RIB					11,935	3	11,935	3
P7202AM					11,659	3	11,659	3
A4939G2 RIB					10,113	2	10,113	2
DKC29-89RIB					9,861	2	9,861	2
DKC26-40					9,842	2	9,842	2
P8234AM					9,717	2	9,717	2
DKC35-88RIB					9,186	2	9,186	2
39V09AM					8,492	2	8,492	2
DKC 32-12 RIB					5,963	1	5,963	1
P7227R					5,400	1	5,400	1
TH 6982 VT2P					4,944	1	4,944	1
Total					4,523,364	100	9,585,083	100

Sources: Sask Crop Insurance, Alberta Ag Financial Services Corp., Manitoba Agricultural Services Corporation, BC Crop Insurance

2019 INSURED COMMERCIAL ACRES (CONTINUED)

CORN: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

CORN SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
P8387AM					1,350		1,350	
TH 7677 VT2P RIB					1,317		1,317	
NK 7837					1,310		1,310	
DKC34-57RIB					1,249		1,249	
MZ 1633DBR					1,226		1,226	
DKC23-17 RIB			990	19			990	
MZ 1624DBR					979		979	
P7445R					935		935	
LR 9976 VIP 3220					905		905	
P7572AMXT					858		858	
MZ 1688 DBR					842		842	
MZ 1340DBR					820		820	
A5432G2 RIB					762		762	
LR 9753 VT2P RIB					735		735	
P8581R					730		730	
HZ 1885					666		666	
NS 72-521 VT2P RIB					646		646	
1756 VT2P RIB					639		639	
A4199G2 RIB					617		617	
TH7677 VT2P					613		613	
P7202YHR			600	12			600	
DKC 26-28 RIB					580		580	
LR 9676VT2P RIB					562		562	
HZ 1451					529		529	
DL 800					505		505	
LR 9983 VT2PRIB					483		483	
DL 1111					480		480	
DKC28-76					442		442	
PS 2420RR					432		432	
P8542AM					418		418	
P8210HR					1,025		1,025	
HZ 675					402		402	
PS 2320RR					380		380	
39P78					379		379	
2288VT2P					379		379	
A3993G2 RIB					351		351	
PS 2333RR					329		329	
PS 2444VT2P RIB					312		312	
LR 9474 VT2P RIB					303		303	
LR 9579 RR					295		295	
LR 9972 GT					288		288	
A4170 RR					288		288	
DKC 30-07					287		287	
PS 2332					285		285	
P7213R					260		260	
DL 777					255		255	
A4705HMRR					250		250	
9474					243		243	
P3995					230		230	
P0306AMXT					228		228	
P7410HR					221		221	
MCT3221					210		210	
TH4126 RR					207		207	
Total	15,336	100	5,116	100	416,268	100	436,720	100

Sources: Sask Crop Insurance, Alberta Ag Financial Services Corp., Manitoba Agricultural Services Corporation, BC Crop Insurance

2019 INSURED COMMERCIAL ACRES (CONTINUED)

PEA: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

PEA SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Meadow	644,744	49	427,656	24	14,808	14	1,087,208	34
Not Specified	23,127	2	351,741	20	1,592	2	376,460	12
CDC Amarillo	79,492	6	224,748	13	22,161	21	326,401	10
CDC Saffron	139,588	11	61,545	3	2,890	3	204,023	6
AAC Carver	81,862	6	68,459	4	20,176	19	170,497	5
CDC Inca	55,800	4	80,866	5	2,369	2	139,035	4
AAC Lacombe	89,114	7	5,769		7,331	7	102,214	3
CDC Raezer	28,237	2	64,457	4	2,379	2	95,073	3
CDC Limerick	32,763	2	55,997	3	488		89,248	3
AAC Ardill	11,034	1	66,641	4	766	1	78,441	2
CDC Striker	22,309	2	47,741	3	970	1	71,020	2
CDC Golden	5,646		60,288	3	124		66,058	2
Abarth	8,434	1	34,868	2	13,943	13	57,245	2
CDC Spectrum	5,354		44,595	3	3,112	3	53,061	2
CDC Greenwater	5,474		39,033	2	1,062	1	45,569	1
CDC Mosaic	8,525	1	33,038	2			41,563	1
CDC Acer	11,922	1	18,660	1	314		30,896	1
CDC Spruce	2,978		15,768	1	160		18,906	1
CDC Treasure	335		12,099	1			12,434	
CDC Blazer	1,077		9,680	1			10,757	
AAC Peace River	10,017	1					10,017	
CDC Dakota	1,554		7,463				9,017	
4010	1,432		2,263		3,910	4	7,605	
DS-Admiral	160		7,398				7,558	
CDC Patrick	1,269		5,338				6,607	
AAC Chrome	5,099		830		455		6,384	
SW Midas	5,501						5,501	
AAC Liscard	2,653		2,388				5,041	
CDC Bronco	90		4,193				4,283	
Agassiz	346		1,008		2,667	3	4,021	
Eclipse	1,860		2,103				3,963	
AAC Barrhead	3,878						3,878	
Delta	1,578		1,950				3,528	
Sorento	3,490						3,490	
LN4228	3,223						3,223	
CDC Sage			3,071				3,071	
CDC Centennial	2,981						2,981	
CDC Tetris	1,149		1,664				2,813	
CDC Hornet	1,247		1,550				2,797	
Garde	2,412						2,412	
Espace	1,130		856				1,986	
CDC Forest	1,194		680				1,874	
Trapper	1,835						1,835	
Yellowhead	150		1,618				1,768	
Grande	595		950				1,545	

PEA SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
Livioletta					1,460	1	1,460	
CDC Mozart	295		1,155				1,450	
Carrera	202		1,082				1,284	
Stratus	1,230						1,230	
CDC Athabasca	8		430		714	1	1,152	
AAC Comfort	1,085						1,085	
Banner	598		465				1,063	
Scuba			980				980	
Integra			902				902	
SW Marquee			826				826	
Eiffel	766						766	
CDC Emerald			765				765	
Carneval			727				727	
CDC Pluto	665						665	
SW Salute	637						637	
CDC Leroy	570						570	
Cooper	539						539	
Canstar	445						445	
CDC Canary	325						325	
Bibao	315						315	
Cutlass	290						290	
Rhino	270						270	
Granger					270		270	
CDC Horizon	248						248	
Apcm 97107	226						226	
FP-41	180						180	
Camry	176						176	
SW Cartier	160						160	
AAC Delhi	155						155	
CDC Montero	151						151	
CDC Minuet	140						140	
SW Parade	140						140	
B2901/3					125		125	
DL Goldeye	40				85		125	
MFP-188	120						120	
Bluebird	103						103	
CDC Jasper					94		94	
CPB Concorde	16						16	
Croma					10		10	
DL Lacross	7						7	
AAC Profit	3						3	
Total	1,322,761	100	1,776,304	100	104,435	100	3,203,500	100

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2019 INSURED COMMERCIAL ACRES (CONTINUED)

LENTIL: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

LENTIL SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Maxim	96,408	42	820,049	32	436	28	916,893	33
Not Specified	713		431,706	17	510	33	432,929	15
CDC Proclaim	20,835	9	200,289	8			221,124	8
CDC Greenstar	15,816	7	185,332	7			201,148	7
CDC Impulse	18,001	8	166,960	7			184,961	7
CDC Greenland	799		175,938	7			176,737	6
CDC Dazil	21,382	9	152,150	6			173,532	6
CDC Invincible CL			152,074	6			152,074	5
CDC Impower CL			102,827	4			102,827	4
CDC Improve	23,615	10	40,099	2			63,714	2
CDC Imax	11,702	5	22,330	1			34,032	1
CDC Kermit			17,149	1			17,149	1
CDC Impact	240		15,239	1			15,479	1
CDC Viceroy			14,272	1			14,272	1
Redmoon			13,740	1			13,740	
CDC Impower	12,772	6					12,772	
Beluga			9,710				9,710	
CDC Peridot CL			6,484				6,484	
CDC Richlea	2,823	1	3,472				6,295	
CDC Marble	1,015		4,483				5,498	
Indianhead			5,092		125	8	5,217	

LENTIL SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Impress					5,067		5,067	
CDC Iberina					4,090		4,090	
CDC Sovereign					3,316		3,316	
CDC Blaze					2,508		2,508	
CDC Rouleau					2,263		2,263	
CDC Imigreen CL					2,158		2,158	
CDC Impala					2,046		2,046	
CDC Redberry					2,035		2,035	
CDC Plato					1,920		1,920	
CDC Invincible	1,047					237	15	1,284
CDC Grandora					1,170		1,170	
CDC Glamis					1,074		1,074	
CDC Redwing					753		753	
Red Chief					710		710	
CDC Red Rider	640						640	
CDC Peridot	320						320	
French						234	15	234
CDC Nimble	5						5	
Total	228,133	100	2,568,505	100	1,542	100	2,798,180	100

FLAX: INSURED COMMERCIAL ACRES, DESIGNATED VARIETIES

FLAX SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Glas	27,365	37	110,825	22	11,362	27	149,552	24
CDC Sorrel	7,735	11	111,393	22	7,996	19	127,124	20
Not Specified			104,627	21	460	1	105,087	17
CDC Bethune	2,242	3	93,704	18	6,712	16	102,658	17
CDC Neela	892	1	17,201	3	4,385	10	22,478	4
CDC Sanctuary	5,299	7	16,484	3			21,783	4
AAC Bravo	2,853	4	13,236	3	4,471	11	20,560	3
Westlin 72	3,762	5	8,215	2	1,650	4	13,627	2
Prairie Sapphire	4,368	6	5,084	1	585	1	10,037	2
Omega	900	1	5,530	1	420	1	6,850	1
CDC Plava	4,172	6	1,430		277	1	5,879	1
Westlin 71	1,203	2	4,463	1	195		5,861	1
VT50	130		4,184	1	883	2	5,197	1
Westlin 70	2,690	4	2,304		90		5,084	1
AAC Prairie Sunshine	4,822	7					4,822	1
Vimy			4,221	1			4,221	1
Hanley	1,814	2			617	1	2,431	
AAC Bright	64		1,485				1,549	
Topaz	713	1			538	1	1,251	
Taurus			1,203				1,203	

FLAX SEEDED AREA	ALTA.		SASK.		MAN.		TOTAL	
	ACRES	%	ACRES	%	ACRES	%	ACRES	%
CDC Dorado	993	1					993	
AC Lightning					667		667	
AC Watson					538		538	
Golden						440	1	440
Norlin	272					160		432
Westlin 60	407	1				11		418
AC Nugget						253	1	253
Lightning						240	1	240
AC Linora						220	1	220
Prairie Grande	160						160	
AAC Marvelous	153						153	
McGregor	146						146	
CDC Gold	141						141	
AC Emerson						68		68
AC Mcduff	50						50	
AC Carnduff	25						25	
Total	73,371	100	506,794	100	42,033	100	622,198	100

Sources: Sask Crop Insurance, Alberta Ag Financial Services Corp., Manitoba Agricultural Services Corporation, BC Crop Insurance

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About this program:

The three Prairie canola grower groups – Alberta Canola Producers Commission (Alberta Canola), the Saskatchewan Canola Development Commission (SaskCanola) and the Manitoba Canola Growers Association – funded the 2019 program. The provincial oilseed specialists and industry scientists provide expertise. The Canola Council of Canada delivers the program. The B.C. Grain Producers Association conducted trials in the Peace region as its means of participation.

The 2019 program was funded by Alberta Canola Producers Commission (Alberta Canola), Saskatchewan Canola Development Commission (SaskCanola) and the Manitoba Canola Growers Association, with contributions from the B.C. Grain Producers Association (BCGPA). The 2019 trials were again coordinated by Haplotech with the direction from the CPT Governance and Technical Committees. The Canola Council of Canada supported on the delivery of the program.

Commercial canola varieties tested in the 2019 small plot trials had seed provided by BASF – InVigor, BrettYoung, Brevant, CANTERRA SEEDS, DEKALB, DL Seeds, Pioneer and Proven/Nutrien Ag Solutions and Winfield United Canada.

For more information, contact the Canola Council of Canada:

TARYN DICKSON, Resource Manager
204-982-2111 | dickson@canolacouncil.org

CURTIS REMPEL, Vice President, Crop Production & Innovation
204-982-2105 | rempel@canolacouncil.org

TOOLS TO HELP YOU MAKE BETTER CHOICES

Canola Performance Trials (CPT) include both small plot and large field scale trials. Results are based on 19 standard and 12 straight cut small plot trials across the Prairies. Site distribution is based on seeded acres in Manitoba, Saskatchewan, Alberta and British Columbia. The small plot system ensures that:

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

Field scale comparisons add extra perspective for assessing consistency in variety performance. Comparisons are based on harvested strips of 0.5 to 1.5 acres each. Field scale data is not necessarily replicated in all cases, but the data has been audited to make sure it complies with CPT protocols.

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

CV – For coefficient of variation (CV), the lower the CV value, the more reliable the test. For example, if comparing results from two test

locations, one with a CV of 4% and the other with a CV of 8%, the test with the CV of 4% can be considered more reliable. There is always variability in research trials. The key is designing and managing experiments so CVs stay within a reasonable range. For the CPT, experience has shown that CVs below 15% indicate good test reliability.

LSD – The least significant difference (LSD at a 5% level of statistical significance) for each dataset indicates whether differences between varieties are statistically meaningful. Varieties should only be considered different in yield performance if the numerical difference between them is greater than the LSD value.

Using the sample table below, if the LSD is 5.0, varieties A and B are not statistically different, B and C are not statistically different, but A and C are statistically different. In the yield graphs for each season zone, LSD for each variety group is given on the left.

A	52
B	54
C	58
LSD	5.0



USING THE TABLES

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

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

Gross revenue is based on yield multiplied by \$10.75/bu. This is based on \$474.00 per tonne, the March 2020 futures based on opening price on November 20, 2019 and standard (50-pound) bushel weight.

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

Each zone and small plot location is identified on the map. Use the map to identify your growing season zone and trial locations closest to your farm.

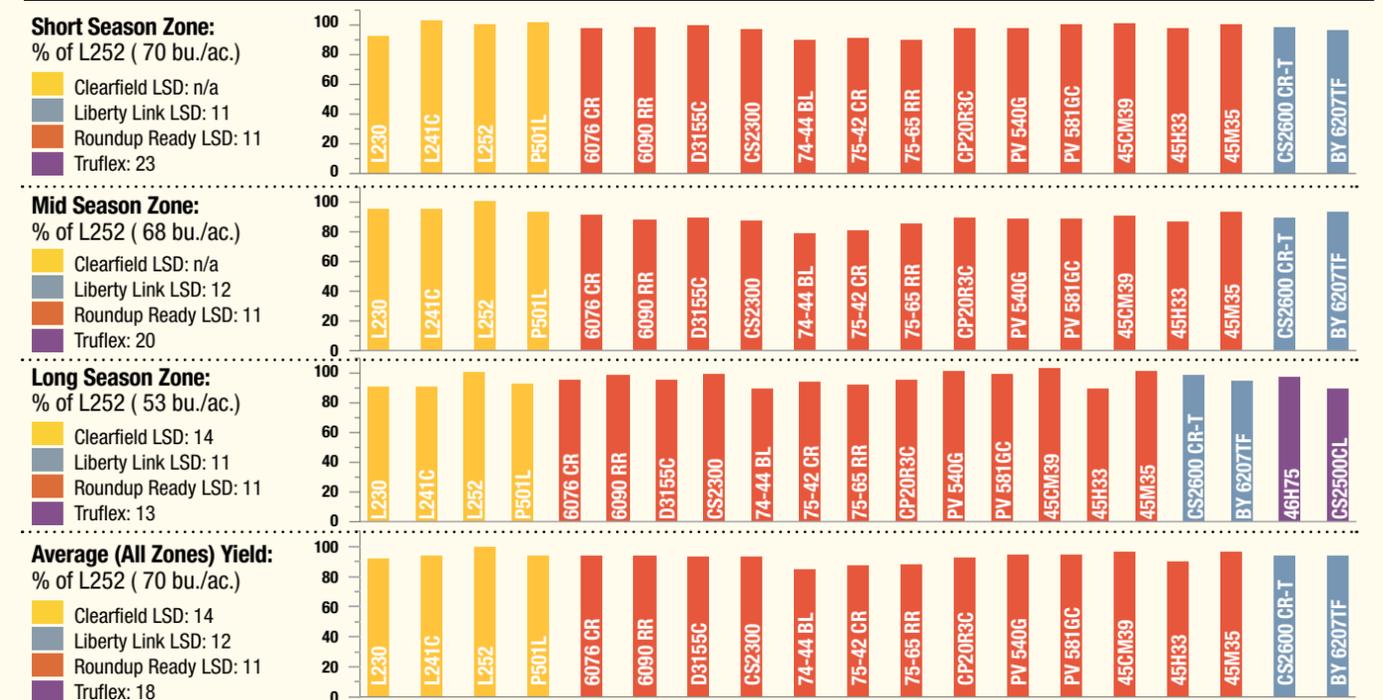
To evaluate yield potential, look at all small plot and field scale locations in your growing season zone and the average yield for your zone. Consider other information such as maturity, lodging resistance and cost.

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

Canola performance trials 2018 results: average results by season zone (small plot data)

Variety	Disease tolerance (1)	Long Season Zone (6 locations)				Mid Season Zone (8 locations)				Short Season Zone (5 locations)				Overall average (19 locations)				Distributor
		Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	
LibertyLink																		
L230	BL	48	90	91	47	64	94	104	52	65	92	109	47	59	92	101	49	BASF - InVigor
L241C	BL/CR	48	91	94	49	64	94	106	52	73	103	112	49	61	95	103	50	BASF - InVigor
L252	BL	53	100	95	48	68	100	106	53	70	100	112	48	64	100	104	50	BASF - InVigor
P501L	BL/CR	48	92	93	48	62	92	105	53	72	101	110	48	60	94	102	50	Pioneer
LSD		6	11			8	12			7	11			7	12			
Roundup Ready																		
6076 CR	BL/CR/S	50	95	94	50	61	90	107	56	69	98	114	50	59	93	105	52	BrettYoung
6090 RR	BL/CR	52	98	95	51	60	87	107	57	69	98	114	51	60	94	105	53	BrettYoung
D3155C	BL/CR	50	95	94	50	60	88	106	56	71	100	112	50	60	93	104	53	Brevant
CS2300	BL	52	99	97	51	59	87	109	57	68	96	115	51	59	93	106	53	Canterra Seeds
74-44 BL	BL	46	89	91	43	53	78	104	50	64	90	111	43	54	85	102	46	DEKALB
75-42 CR	BL/CR	48	93	92	46	53	80	104	51	64	91	110	62	55	87	102	48	DEKALB
75-65 RR	BL	47	91	92	46	57	85	104	51	64	89	110	46	56	88	102	48	DEKALB
CP20R3C	BL/CR	50	95	99	51	60	89	109	57	68	97	116	51	59	93	107	54	Winfield United Canada
PV 540 G	BL	53	100	95	49	59	88	107	54	69	98	113	49	60	94	105	51	Proven Seed/Nutrien Ag Solutions
PV 581 GC	BL/CR	51	98	95	49	60	88	107	56	71	100	114	49	60	94	105	52	Nutrien Ag Solutions
45CM39	BL/CR	53	102	93	47	61	90	106	51	71	101	112	47	61	97	103	49	Pioneer
45H33	BL/CR	47	89	94	49	59	86	106	55	69	97	113	49	57	90	104	51	Pioneer
45M35	52	100	94	48	62	92	106	53	71	100	111	48	61	97	103	50	Pioneer	
LSD		6	11			7	11			8	11			7	11			
TruFlex																		
CS2600 CR-T	BL/CR	51	97	91	46	60	88	105	51	70	98	112	46	59	94	102	48	Canterra Seeds
BY 6207TF	BL/CR	49	93	100	51	63	92	111	58	68	97	116	51	60	94	109	54	BrettYoung
LSD		7	13			14	20			15	23			12	18			
Clearfield																		
46H75	BL	50	96	93	49								50	96	93	49	Pioneer	
CS2500CL	BL	46	88	90	48								46	88	90	48	Canterra Seeds	
LSD		7	14										7	14				

NOTES: 1 Indicates genetic disease resistance with an "R" or resistant rating to BL = Blackleg, CR = Clubroot and improved tolerance to sclerotinia "S", as based on variety descriptions submitted to CFIA. Note that variety 45M35 has an "MR" rating for blackleg.



LONG SEASON ZONE | Small plot results by location

Variety	ELM CREEK, MB						HIGH BLUFF, MB						MELITA, MB						Distributor
	Yield (bu/acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu/acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu/acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink																			
L230	55	87	\$594	84.0	1.0	39.4	58	94	\$628	85.0	2.0	53.0	49	95	\$526	88.8	1.0	59.9	Basf - Invigor
L241C	54	85	\$579	82.0	1.0	41.2	58	94	\$625	87.5	1.8	54.5	48	93	\$513	93.5	1.3	62.4	Basf - Invigor
L252	63	100	\$680	87.0	1.0	38.9	62	100	\$669	88.5	2.0	52.0	51	100	\$553	93.8	1.3	60.8	Basf - Invigor
P501L	54	85	\$578	87.0	1.0	38.6	52	84	\$561	85.5	2.5	51.4	52	101	\$558	90.5	1.0	61.5	Pioneer
LSD	6	10					6	10					5	10					
Roundup Ready																			
6076 CR	55	87	\$591	84.0	1.5	42.9	54	87	\$583	85.0	2.3	52.0	53	103	\$569	95.8	1.8	63.6	BrettYoung
6090 RR	60	94	\$642	84.0	1.5	42.2	59	95	\$632	88.0	2.0	54.0	50	97	\$536	95.0	1.8	65.9	BrettYoung
D3155C	56	88	\$602	84.0	1.8	42.5	59	94	\$629	88.3	3.3	51.4	51	99	\$546	92.0	1.3	66.0	Brevant
CS2300	59	93	\$634	87.0	1.3	43.2	59	94	\$629	90.0	2.3	54.0	54	105	\$580	97.8	1.5	66.0	Canterra Seeds
74-44 BL	50	79	\$536	80.0	1.0	37.6	54	88	\$586	85.3	2.8	48.9	49	95	\$527	90.0	1.5	54.4	DEKALB
75-42 CR	53	84	\$572	80.0	1.3	38.7	54	87	\$582	86.8	2.5	50.4	52	101	\$559	90.8	1.3	56.7	DEKALB
75-65 RR	54	85	\$582	80.0	1.3	38.7	51	82	\$551	85.0	2.8	49.4	52	100	\$554	91.0	1.5	56.0	DEKALB
CP20R3C	52	82	\$557	84.0	1.3	43.2	58	93	\$619	91.3	1.8	54.5	55	107	\$591	103.0	2.0	66.3	Winfield United Canada
PV 540 G	56	89	\$605	84.0	1.8	41.7	59	94	\$631	89.5	2.3	49.9	51	99	\$547	95.8	1.3	60.8	Proven Seed/Nutrien Ag Solutions
PV 581 GC	55	87	\$591	84.0	1.8	41.6	59	96	\$639	89.0	2.8	53.5	52	100	\$554	94.3	1.5	61.5	Nutrien Ag Solutions
45CM39	56	89	\$603	80.0	1.5	39.2	57	92	\$614	88.0	2.8	51.4	56	108	\$599	92.3	1.5	59.5	Pioneer
45H33	48	76	\$520	80.0	1.3	42.8	56	90	\$605	87.8	3.0	49.4	45	87	\$482	92.3	1.0	62.9	Pioneer
45M35	59	93	\$630	84.0	1.0	41.2	58	93	\$624	87.0	2.8	49.4	54	104	\$576	93.3	1.8	60.2	Pioneer
LSD	5	8				6	9					5	10						
TruFlex																			
CS2600 CR-T	58	92	\$624	80.0	1.0	37.3	57	91	\$612	85.5	3.0	49.9	52	101	\$561	89.8	1.5	55.8	Canterra Seeds
BY 6207TF	55	86	\$588	87.0	1.0	44.3	58	93	\$624	92.8	1.0	54.0	52	102	\$563	103.0	2.0	63.9	BrettYoung
LSD	9	14				10	16					3	6						
Clearfield																			
46H75	58	92	\$625	87.0	1.0	41.3	56	90	\$601	91.0	2.0	53.5	50	97	\$533	95.5	1.3	60.6	Pioneer
CS2500CL	49	78	\$532	80.0	1.0	41.9	53	85	\$566	89.0	2.3	52.5	49	96	\$530	90.3	1.0	57.7	Canterra Seeds
LSD	10	15				6	10					5	10						
CV	9.0					6.2						7.9							

LONG SEASON ZONE | Small plot results by location

Variety	JUSTICE, MB						REDVERS, SK						LETHBRIDGE, AB						Distributor
	Yield (bu/acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu/acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu/acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink																			
L230	28	82	\$301	94.3	1.0	39.5	41	96	\$446	96.5	1.4	40.6	53	86	\$571	100.3	1.0	51.5	BASF - InVigor
L241C	29	85	\$313	101.0	1.0	38.3	39	89	\$416	97.3	1.0	41.8	60	98	\$645	102.3	1.0	54.5	BASF - InVigor
L252	34	100	\$369	103.3	1.0	38.2	43	100	\$466	96.3	1.5	42.0	62	100	\$661	100.0	1.0	54.8	BASF - InVigor
P501L	33	97	\$357	96.5	1.0	37.7	38	88	\$412	97.0	1.0	46.0	58	95	\$625	101.3	1.0	55.8	Pioneer
LSD	2	6					4	10					13	21					
Roundup Ready																			
6076 CR	32	95	\$349	101.0	1.0	41.4	40	93	\$431	99.3	1.0	45.4	64	103	\$683	101.8	1.0	53.3	BrettYoung
6090 RR	35	103	\$378	101.0	1.3	42.7	39	90	\$419	98.0	1.4	46.5	68	111	\$735	103.0	1.0	55.0	BrettYoung
D3155C	33	95	\$351	101.0	1.3	41.8	41	95	\$441	97.3	1.0	46.8	61	99	\$657	103.0	1.0	52.8	Brevant
CS2300	34	99	\$364	103.3	1.0	41.4	40	92	\$428	100.0	1.0	44.3	68	111	\$732	101.3	1.0	55.3	Canterra Seeds
74-44 BL	32	94	\$346	94.3	1.0	37.2	36	84	\$392	96.0	1.3	38.5	57	92	\$610	102.0	1.0	43.0	DEKALB
75-42 CR	36	106	\$391	98.8	1.0	39.1	41	93	\$436	95.3	1.4	40.2	54	88	\$582	103.0	1.0	52.0	DEKALB
75-65 RR	37	109	\$401	96.5	1.5	38.8	34	78	\$363	95.8	1.1	39.1	57	92	\$608	101.8	1.0	54.5	DEKALB
CP20R3C	32	92	\$340	110.0	1.0	41.8	38	87	\$406	102.0	1.0	47.7	66	108	\$714	101.0	1.0	54.3	Winfield United Canada
PV 540 G	36	105	\$387	101.0	1.3	40.7	41	94	\$437	97.5	1.3	44.1	74	120	\$796	102.0	1.0	54.0	Proven Seed/Nutrien Ag Solutions
PV 581 GC	38	111	\$411	101.0	1.5	40.0	41	93	\$436	98.8	1.3	43.2	61	99	\$658	101.5	1.0	54.0	Nutrien Ag Solutions
45CM39	40	116	\$426	96.5	1.5	37.3	42	97	\$453	97.8	1.4	42.5	68	111	\$736	101.0	1.0	54.5	Pioneer
45H33	32	94	\$345	101.0	1.3	38.6	39	90	\$419	98.3	1.4	44.9	59	97	\$638	102.3	1.0	52.5	Pioneer
45M35	38	111	\$408	101.0	1.8	39.3	42	97	\$453	96.8	1.1	43.4	64	103	\$684	101.8	1.0	52.3	Pioneer
LSD	5	15					4	10					8	12					
TruFlex																			
CS2600 CR-T	36	106	\$392	94.3	1.3	35.7	44	102	\$474	95.8	1.0	43.2	56	91	\$602	101.3	1.0	54.0	Canterra Seeds
BY 6207TF	31	90	\$331	110.5	1.0	41.6	42	96	\$447	102.0	1.0	49.0	57	92	\$608	102.5	1.0	53.8	BrettYoung
LSD	5	13					9	20					5	8					
Clearfield																			
46H75	36	105	\$386	98.8	1.0	40.4													Pioneer
CS2500CL	32	95	\$348	101.0	1.5	39.8													Canterra Seeds
LSD	7	20																	
CV	11.4												11.0						

MID SEASON ZONE | Small plot results by location

Variety	DAUPHIN, MB						NORTH BATTLEFORD, SK						VEREGIN, SK						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink																			
L230	55	98	\$594	89.3	1.8	43.4	49	88	\$528	99.8	1.0	45.8	67	92	\$723	94.3	2.3	49.0	BASF - InVigor
L241C	50	89	\$537	93.0	1.0	44.9	52	93	\$560	102.3	1.0	47.3	69	94	\$742	96.3	2.0	52.3	BASF - InVigor
L252	56	100	\$605	93.5	1.8	44.0	56	100	\$604	103.0	1.0	48.4	73	100	\$789	97.8	2.0	52.5	BASF - InVigor
P501L	57	101	\$611	90.5	1.8	43.4	50	89	\$539	100.0	1.0	46.8	69	94	\$739	96.8	2.5	52.5	Pioneer
LSD	5	8					7	13					5	7					
Roundup Ready																			
6076 CR	48	86	\$520	91.3	2.0	46.5	49	87	\$526	103.8	2.0	53.0	69	95	\$747	99.0	2.5	58.0	BrettYoung
6090 RR	48	85	\$516	91.5	1.5	51.4	48	85	\$514	103.5	1.5	53.0	69	94	\$745	98.0	2.3	56.4	BrettYoung
D3155C	47	84	\$507	90.0	2.0	47.3	50	90	\$542	101.0	1.3	52.5	73	99	\$783	96.3	3.3	58.4	Brevant
CS2300	51	91	\$551	94.3	1.3	50.4	46	82	\$496	106.3	1.3	53.0	69	94	\$740	101.3	2.0	58.8	Canterra Seeds
74-44 BL	38	67	\$408	88.0	2.3	42.0	45	81	\$487	99.8	1.3	43.2	68	92	\$726	95.3	3.0	48.4	DEKALB
75-42 CR	44	77	\$468	86.5	2.0	40.1	50	89	\$537	98.8	1.3	46.8	66	90	\$712	95.3	2.8	50.0	DEKALB
75-65 RR	47	83	\$505	87.8	2.3	41.2	49	88	\$530	99.3	1.8	46.8	66	90	\$709	93.8	3.0	51.9	DEKALB
DL 1634 RR	50	89	\$538	95.0	1.3	50.8	49	87	\$527	106.5	1.3	55.0	72	98	\$770	103.8	2.5	59.9	DL Seeds
PV 540 G	43	77	\$466	92.5	1.0	45.9	46	83	\$498	102.8	1.0	48.9	70	96	\$754	97.8	2.5	52.3	Proven Seed/Nutrien Ag Solutions
PV 581 GC	46	82	\$499	93.5	1.5	48.4	48	86	\$518	104.3	1.5	53.0	72	98	\$770	97.5	2.0	56.0	Nutrien Ag Solutions
45CM39	50	89	\$541	90.8	2.0	43.8	50	88	\$533	102.5	1.5	44.8	70	96	\$754	94.8	3.3	48.6	Pioneer
45H33	41	72	\$436	91.3	1.8	46.5	50	89	\$535	102.0	1.8	51.4	70	96	\$755	95.8	3.3	56.4	Pioneer
45M35	56	99	\$598	89.3	2.0	47.9	50	89	\$536	102.5	1.8	49.9	71	96	\$758	96.0	2.8	53.1	Pioneer
LSD	6	10					5	9					5	7					
TruFlex																			
CS2600 CR-T	55	98	\$595	91.5	2.0	41.2	48	86	\$520	101.3	1.5	48.4	69	94	\$740	94.8	2.8	49.6	Canterra Seeds
BY 6207TF	52	92	\$560	99.3	1.0	49.6	49	87	\$522	107.5	1.0	52.0	71	96	\$761	103.3	2.0	57.0	BrettYoung
LSD	6	10					5	8					9	12					
Clearfield																			
46H75	55	98	\$590	93.0	1.0	45.1													Pioneer
CS2500CL	51	91	\$548	91.8	1.8	42.6													Canterra Seeds
LSD	8	14																	
CV	8.2						8.1						4.9						

MID SEASON ZONE | Small plot results by location

Variety	MELFORT, SK						ST. PAUL, AB						JOSEPHBURG, AB						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink																			
L230	32	97	\$345	111.0	2.0	53.7	46	76	\$492		1.0		100	99	\$1,078	109.8	1.5	57.6	BASF - InVigor
L241C	36	108	\$384	114.3	1.0	53.9	42	70	\$455		1.0		101	100	\$1,087	110.3	1.5	55.2	BASF - InVigor
L252	33	100	\$357	112.8	2.0	53.1	60	100	\$645		1.0		101	100	\$1,085	110.8	1.5	58.5	BASF - InVigor
P501L	34	102	\$364	112.0	1.0	53.9	37	62	\$403		1.0		89	89	\$961	109.0	1.5	58.7	Pioneer
LSD	5	15					9	14					11	11					
Roundup Ready																			
6076 CR	31	94	\$336	115.5	1.8	57.5	41	69	\$445		1.0		94	94	\$1,015	112.0	2.0	59.2	BrettYoung
6090 RR	27	82	\$294	114.0	1.3	60.4	42	70	\$450		1.0		98	97	\$1,052	112.3	1.8	61.2	BrettYoung
D3155C	28	83	\$296	114.3	2.0	58.0	46	77	\$499		1.0		92	91	\$991	110.5	2.0	60.6	Brevant
CS2300	29	87	\$311	115.3	1.0	56.9	38	63	\$407		1.0		90	89	\$971	112.8	2.3	60.0	Canterra Seeds
74-44 BL	26	78	\$279	114.0	2.5	51.8	37	61	\$393		1.0		70	70	\$757	110.8	2.0	55.5	DEKALB
75-42 CR	28	83	\$296	112.5	1.0	53.3	41	69	\$442		1.0		69	68	\$739	109.5	2.5	56.6	DEKALB
75-65 RR	28	84	\$298	112.0	2.0	52.2	46	76	\$490		1.0		77	76	\$825	110.3	2.3	55.7	DEKALB
DL 1634 RR	29	87	\$309	115.8	1.0	57.0	42	70	\$454		1.0		89	89	\$961	113.5	1.8	58.3	DL Seeds
PV 540 G	31	92	\$329	113.0	1.0	54.5	47	78	\$506		1.0		93	92	\$995	111.8	2.3	58.7	Proven Seed/Nutrien Ag Solutions
PV 581 GC	28	84	\$300	114.0	2.0	56.0	42	69	\$446		1.0		92	91	\$990	112.5	1.5	59.8	Nutrien Ag Solutions
45CM39	30	91	\$323	113.3	2.0	52.4	52	87	\$562		1.0		86	85	\$925	110.0	1.8	55.9	Pioneer
45H33	28	83	\$297	113.8	1.8	56.6	47	78	\$501		1.0		85	85	\$918	111.5	2.3	59.6	Pioneer
45M35	30	90	\$320	113.5	2.5	52.3	47	79	\$508		1.0		89	88	\$955	111.5	2.0	55.7	Pioneer
LSD	4	11					7	12					9	9					
TruFlex																			
CS2600 CR-T	31	93	\$332	114.0	2.5	52.5	41	69	\$445		1.0		88	87	\$942	109.0	2.8	55.4	Canterra Seeds
BY 6207TF	29	86	\$308	121.0	1.0	59.1	46	76	\$490		1.0		95	94	\$1,023	115.3	1.0	61.0	BrettYoung
LSD	6	18					8	13					23	23					
Clearfield																			
46H75																			Pioneer
CS2500CL																			Canterra Seeds
LSD																			
CV	9.6						11.6						7.7						

SHORT SEASON ZONE | Small plot results by location

Variety	CODETTE, SK						TISDALE, SK						LACOMBE, AB						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink																			
L230	73	94	\$788	103.0	1.0	55.4	40	93	\$431	97.8	1.8	52.5	63	87	\$677	113.5	1.3	59.7	BASF - InVigor
L241C	75	96	\$802	100.8	1.0	55.2	41	95	\$440	102.8	1.3	53.0	74	103	\$797	115.5	1.0	61.7	BASF - InVigor
L252	78	100	\$835	106.5	1.0	57.0	43	100	\$462	103.8	2.3	55.0	72	100	\$776	116.3	1.8	58.6	BASF - InVigor
P501L	82	105	\$877	103.5	1.0	55.7	40	94	\$435	96.0	1.8	49.9	64	88	\$685	113.8	1.5	60.7	Pioneer
LSD	7	9					5	12					4	6					
Roundup Ready																			
6076 CR	64	82	\$688	105.3	1.0	61.4	40	94	\$435	103.0	3.0	52.0	70	97	\$755	118.0	2.8	61.7	BrettYoung
6090 RR	73	95	\$789	106.3	1.5	58.3	39	90	\$414	102.5	3.0	52.0	71	98	\$758	117.3	2.8	59.2	BrettYoung
D3155C	81	104	\$870	102.3	1.5	57.7	35	82	\$380	103.3	2.8	50.9	62	86	\$665	113.8	3.3	62.2	Brevant
CS2300	72	92	\$771	108.8	1.0	58.2	39	90	\$418	105.0	2.5	52.5	68	95	\$733	116.3	1.8	64.3	Canterra Seeds
74-44 BL	79	101	\$848	102.0	1.0	54.2	36	85	\$392	103.3	3.0	47.3	61	85	\$658	114.5	2.5	58.6	DEKALB
75-42 CR	74	95	\$797	102.0	1.0	53.7	36	84	\$388	99.3	2.8	49.9	60	83	\$642	113.5	3.0	60.2	DEKALB
75-65 RR	80	103	\$861	101.8	1.5	53.8	34	80	\$370	99.0	3.3	50.4	59	82	\$638	114.3	3.3	57.6	DEKALB
CP20R3C	71	92	\$765	107.5	1.0	60.9	39	92	\$424	106.8	2.0	53.0	65	90	\$695	120.0	1.0	64.8	Winfield United Canada
PV 540 G	81	105	\$876	103.8	1.0	59.9	37	87	\$401	102.3	2.0	49.4	68	94	\$731	119.3	1.3	63.3	Proven Seed/Nutrien Ag Solutions
PV 581 GC	75	96	\$801	106.3	1.5	58.9	40	94	\$433	105.8	3.3	50.9	65	91	\$702	116.5	2.0	61.7	Nutrien Ag Solutions
45CM39	82	105	\$881	104.0	1.0	54.4	38	88	\$407	101.0	3.0	50.9	66	91	\$708	115.8	2.5	60.7	Pioneer
45H33	81	104	\$866	101.8	1.3	56.0	40	92	\$426	104.3	3.8	48.4	60	83	\$645	113.8	3.0	60.7	Pioneer
45M35	81	104	\$869	106.3	1.0	57.3	39	90	\$414	98.5	2.8	49.9	66	91	\$705	115.5	2.3	58.6	Pioneer
LSD	11	15					5	12					5	7					
TruFlex																			
CS2600 CR-T	38	88	\$407	100.5	3.0	51.4	65	91	\$702	116.3	3.3	58.1							Canterra Seeds
BY 6207TF	37	87	\$400	108.0	2.3	53.0	68	94	\$727	121.3	1.0	62.2							BrettYoung
LSD							13	31					5	7					
Clearfield																			
46H75																			Pioneer
CS2500CL																			Canterra Seeds
LSD																			
CV	6.7						9.3						5.1						

SHORT SEASON ZONE | Small plot results by location

Variety	FALHER, AB						WESTLOCK, AB						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink													
L230	79	94	\$853	119.3	1.8	46.8	69	93	\$741	111.8	1.0	55.6	BASF - InVigor
L241C	80	95	\$865	120.5	1.8	47.8	93	126	\$1,003	119.3	1.0	56.8	BASF - InVigor
L252	84	100	\$907	120.5	1.8	48.4	74	100	\$795	114.8	1.0	58.1	BASF - InVigor
P501L	83	98	\$892	120.3	1.8	47.8	90	121	\$965	117.3	1.0	58.3	Pioneer
LSD	5	5					16	22					
Roundup Ready													
6076 CR	77	91	\$829	122.3	1.8	49.4	91	123	\$980	120.3	1.0	60.8	BrettYoung
6090 RR	73	86	\$781	123.0	2.3	49.9	91	123	\$981	122.5	1.0	62.3	BrettYoung
D3155C	80	95	\$863	120.5	2.0	49.1	97	132	\$1,048	121.3	1.0	63.9	Brevant
CS2300	80	95	\$861	123.3	2.0	52.0	81	110	\$871	119.8	1.0	64.5	Canterra Seeds
74-44 BL	75	89	\$806	119.5	2.5	44.4	67	90	\$716	114.5	1.0	54.0	DEKALB
75-42 CR	77	91	\$828	119.5	1.8	45.2	74	100	\$797	115.5	1.0	57.0	DEKALB
75-65 RR	78	92	\$835	119.0	2.0	45.2	66	90	\$712	114.3	1.0	58.8	DEKALB
CP20R3C	75	89	\$811	123.0	2.0	50.8	90	122	\$967	123.3	1.0	59.6	Winfield United Canada
PV 540 G	79	93	\$844	122.0	1.8	46.5	80	109	\$863	118.3	1.0	56.9	Proven Seed/Nutrien Ag Solutions
PV 581 GC	82	97	\$877	121.8	1.0	50.4	92	125	\$990	120.5	1.0	61.8	Nutrien Ag Solutions
45CM39	75	89	\$805	121.3	1.0	45.9	96	129	\$1,028	118.5	1.0	57.7	Pioneer
45H33	81	97	\$876	121.8	1.5	49.2	82	111	\$883	121.5	1.0	59.6	Pioneer
45M35	90	107	\$973	121.0	2.0	48.0	80	108	\$857	114.3	1.0	60.9	Pioneer
LSD	6	7					11	15					
TruFlex													
CS2600 CR-T	78	93	\$841	120.5	2.5	45.6	90	122	\$971	120.0	1.0	57.3	Canterra Seeds
BY 6207TF	81	96	\$871	121.8	1.0	53.7	81	110	\$871	121.3	1.0	66.1	BrettYoung
LSD	9	11					31	42					
Clearfield													
46H75													Pioneer
CS2500CL													Canterra Seeds
LSD													
CV	5.7						11.1						

STRAIGHT CUT TRIALS

LONG SEASON ZONE | Small plot results by location

Variety	ELM CREEK, MB						HIGH BLUFF, MB						MELITA, MB						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink																			
L233P	44	100	\$468	93.0	1.3	37.2	62	100	\$670	84.0	2.0	48.4	53	100	\$574	91.8	1.0	54.3	BASF - InVigor
L234PC	42	97	\$455	87.0	1.0	38.3	59	95	\$633	84.5	2.0	49.4	54	100	\$577	92.3	2.0	54.6	BASF - InVigor
L255PC	47	108	\$505	91.0	1.3	39.4	68	110	\$735	87.0	1.8	49.9	52	98	\$562	93.8	1.0	54.8	BASF - InVigor
LSD	6	14					3	5					3	6					
Roundup Ready																			
75-65 RR	43	100	\$466	87.0	1.0	40.8	54	86	\$579	84.8	2.8	46.8	56	105	\$603	93.3	1.5	52.8	DEKALB
PV 540 G	40	91	\$426	91.0	1.0	40.5	54	87	\$582	89.0	2.0	50.9	52	97	\$554	97.0	1.0	58.4	Proven Seed/ Nutrien Ag Solutions
45CM39	44	101	\$474	93.0	1.3	41.0	58	94	\$628	89.8	3.0	48.9	57	107	\$616	94.0	1.0	54.4	Pioneer
45M35	44	101	\$470	92.5	1.3	41.7	63	101	\$679	87.0	3.0	48.9	54	101	\$582	94.5	1.3	57.3	Pioneer
LSD	6	13					3	5					2	4					
TruFlex																			
CS2600 CR-T	48	110	\$514	91.0	1.3	39.1	56	89	\$598	85.5	2.8	48.4	57	107	\$617	91.8	2.0	53.1	Canterra Seeds
LSD																			
CV	12.0						4.1						3.4						

STRAIGHT CUT TRIALS

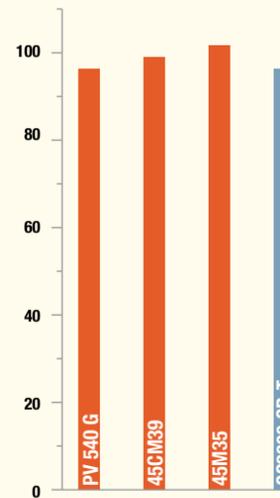
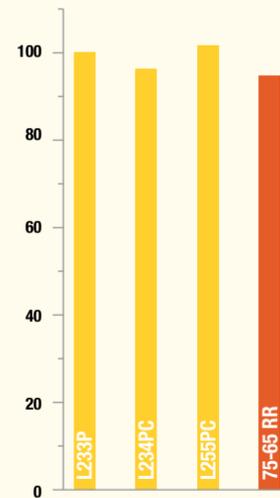
MID SEASON ZONE | Small plot results by location

Variety	NORTH BATTLEFORD, SK						VEREGIN, SK						SCOTT, SK						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink																			
L233P	60	100	\$646	99.0	1.0	46.8	72	100	\$773	94.8	2.0	49.2	49	100	\$524	99.0	1.0	49.6	BASF - InVigor
L234PC	57	94	\$608	99.3	1.0	45.8	71	98	\$759	95.3	2.0	50.4	47	96	\$505	97.5	1.0	48.1	BASF - InVigor
L255PC	59	98	\$633	102.5	1.0	47.8	74	103	\$794	97.5	2.0	51.6	49	99	\$521	102.8	1.0	48.0	BASF - InVigor
LSD	5	8					6	9					4	8					
Roundup Ready																			
75-65 RR	53	88	\$571	99.5	1.5	47.3	68	94	\$729	94.0	2.8	49.6	47	97	\$508	101.3	2.5	48.6	DEKALB
PV 540 G	53	89	\$573	103.3	1.3	47.3	70	98	\$755	99.0	1.8	51.4	52	107	\$562	107.3	1.3	49.3	Proven Seed/ Nutrien Ag Solutions
45CM39	54	91	\$585	102.0	1.5	46.8	70	97	\$752	95.8	2.5	47.5	50	103	\$540	104.5	1.0	49.1	Pioneer
45M35	56	94	\$605	100.5	1.3	47.3	72	101	\$778	96.0	3.0	52.1	53	109	\$572	102.5	1.3	49.1	Pioneer
LSD	5	8					5	7					3	7					
TruFlex																			
CS2600 CR-T	57	95	\$610	101.8	2.0	47.8	71	99	\$766	95.3	2.0	49.4	50	102	\$532	103.5	2.3	50.9	Canterra Seeds
LSD																			
CV	5.4						4.1						6.6						

Variety	REDVERS, SK						LETHBRIDGE, AB						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink													
L233P	50	100	\$539	96.5	2.1	43.0	67	100	\$716	101.3	1.0	55.3	BASF - InVigor
L234PC	50	100	\$540	97.8	1.8	43.9	66	100	\$713	101.8	1.0	52.8	BASF - InVigor
L255PC	51	102	\$552	97.8	2.3	42.4	63	95	\$682	102.8	1.0	53.8	BASF - InVigor
LSD	6	11					12	18					
Roundup Ready													
75-65 RR	47	94	\$507	96.5	1.6	44.4	64	96	\$684	100.0	1.0	53.0	DEKALB
PV 540 G	48	95	\$512	100.5	1.1	46.8	74	111	\$797	101.8	1.0	53.0	Proven Seed/Nutrien Ag Solutions
45CM39	54	107	\$578	100.3	1.6	47.1	70	104	\$748	101.3	1.0	54.0	Pioneer
45M35	51	101	\$544	99.5	1.3	47.2	72	108	\$775	102.0	1.0	53.3	Pioneer
LSD	6	13					6	9					
TruFlex													
CS2600 CR-T	45	90	\$484	97.5	1.8	43.0	70	105	\$752	100.3	1.0	52.5	Canterra Seeds
LSD													
CV	10.7						9.1						

Straight Cut Small Plot Average Yield:
% of L233P (66 bu./ac.)

- LibertyLink LSD: 9
- TruFlex LSD: NA
- Roundup Ready LSD: 8



Variety	JOSEPHBURG, AB						KILLAM, AB						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink													
L233P	105	100	\$1,134	111.3	2.3	58.5	81	100	\$869	120.8	1.3	48.0	BASF - InVigor
L234PC	90	86	\$971	111.3	2.3	57.5	75	93	\$804	120.5	1.5	47.0	BASF - InVigor
L255PC	107	101	\$1,149	113.0	2.0	58.2	76	94	\$814	121.0	1.5	45.4	BASF - InVigor
LSD	10	10					3	3					
Roundup Ready													
75-65 RR	82	78	\$885	112.0	2.8	56.4	79	98	\$854	119.3	2.0	45.5	DEKALB
PV 540 G	93	88	\$999	114.3	2.0	58.6	76	94	\$817	120.8	1.8	45.5	Proven Seed/Nutrien Ag Solutions
45CM39	85	80	\$909	112.5	2.0	56.3	78	97	\$839	121.0	1.5	46.2	Pioneer
45M35	98	93	\$1,051	113.0	1.8	56.5	83	103	\$893	121.0	1.5	47.2	Pioneer
LSD	10	9					6	7					
TruFlex													
CS2600 CR-T	84	80	\$905	112.3	3.3	56.1	71	87	\$760	120.5	2.5	45.3	Canterra Seeds
LSD													
CV	8.1						3.9						

STRAIGHT CUT TRIALS

SHORT SEASON ZONE | Small plot results by location

Variety	FALHER, AB						LACOMBE, AB						Distributor
	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (bu./acre)	Yield (% L252)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	
LibertyLink													
L233P	81	100	\$869	120.8	1.3	48.0	69	100	\$742	112.3	2.0	60.7	BASF - InVigor
L234PC	75	93	\$804	120.5	1.5	47.0	68	99	\$735	113.0	2.0	59.2	BASF - InVigor
L255PC	76	94	\$814	121.0	1.5	45.4	71	103	\$767	115.8	1.3	58.1	BASF - InVigor
LSD	10	13					3	4					
Roundup Ready													
75-65 RR	79	98	\$854	119.3	2.0	45.5	67	97	\$722	114.3	3.0	60.2	DEKALB
PV 540 G	76	94	\$817	120.8	1.8	45.5	66	95	\$706	117.0	1.0	59.2	Proven Seed/Nutrien Ag Solutions
45CM39	78	97	\$839	121.0	1.5	46.2	68	99	\$733	114.8	2.0	57.1	Pioneer
45M35	83	103	\$893	121.0	1.5	47.2	69	99	\$737	115.8	2.3	59.7	Pioneer
LSD	10	12					5	8					
TruFlex													
CS2600 CR-T	71	87	\$760	120.5	2.5	45.3	66	95	\$707	115.3	3.0	57.1	Canterra Seeds
LSD													
CV	8.1						4.3						

SASKATCHEWAN PEDIGREED SEED GROWERS DIRECTORY OF CROP VARIETIES

- 108** Alfalfa
- 112** Chickpea
- 117** Oat
- 108** Barley
- 112** Clover
- 119** Pea
- 111** Bean
- 113** Fababean
- 122** Rye
- 111** Birdsfoot Trefoil
- 113** Fescue
- 122** Soybean
- 111** Bromegrass
- 113** Flax
- 123** Timothy
- 112** Buckwheat
- 114** Hemp
- 123** Triticale
- 112** Canarygrass
- 115** Lentil
- 123** Wheat
- 112** Canola
- 117** Mustard
- 130** Wheatgrass

STRAIGHT CUT TRIALS

SEASON ZONE AVERAGES | Small plot results by location

Variety	Disease tolerance (1)	Long Season Zone (6 locations)				Mid Season Zone (8 locations)				Short Season Zone (5 locations)				Overall average (19 locations)				Distributor
		Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	Yield (bu./acre)	Yield (% L252)	Maturity (days)	Height (inches)	
LibertyLink																		
L233P	BL	55	100	93	48	73	100	105	50	75	100	117	54	66	100	102	50	BASF - InVigor
L234PC	BL/CR	54	98	93	48	68	93	105	48	72	96	117	53	63	96	102	49	BASF - InVigor
L255PC	BL/CR	56	103	94	48	73	99	107	48	74	99	118	52	66	100	104	49	BASF - InVigor
LSD		6	11			6	7			7	9			6	9			
Roundup Ready																		
75-65 RR	BL	53	96	92	48	66	91	105	48	73	98	117	53	62	94	102	49	DEKALB
PV 540 G	BL	53	96	96	50	69	95	109	48	71	95	119	52	63	95	105	50	Proven Seed/Nutrien Ag Solutions
45CM39	BL/CR	57	103	96	49	67	94	107	47	73	98	118	52	64	98	104	49	Pioneer
45M35		57	102	95	50	73	100	107	49	76	101	118	53	67	101	104	50	Pioneer
LSD		5	9			6	8			7	10			6	8			
TruFlex																		
CS2600 CR-T	BL/CR	55	100	93	47	66	92	107	48	68	91	118	51	62	96	103	48	Canterra Seeds
LSD																		

NOTES: 1 Indicates genetic disease resistance with an "R" or resistant rating to BL = Blackleg, CR = Clubroot and improved tolerance to sclerotinia "S", as based on variety descriptions submitted to CFIA
Note that variety 45M35 has an "MR" rating for blackleg.



SASKATCHEWAN PEDIGREED SEED GROWERS

DIRECTORY OF CROP VARIETIES

This list was prepared by the Canadian Seed Growers Association. It includes varieties eligible for sale in Canada and seed crops issued certificates as of Nov. 11, 2019. CSGA assumes no responsibility for errors or omissions. Varieties followed by an asterisk include reconstituted flax varieties and midge tolerant wheat varieties that are subject to additional certification requirements, ACRs, such as post harvest testing. Varieties followed by two asterisks denote carry-over seed that was issued a crop certificate in previous years. For all varieties in this list, the pedigreed class code is listed after the grower's phone number. S = Select, F = Foundation, R = Registered, C = Certified.

ALFALFA			
3010			
Brett-Young Seeds Limited	Rycroft	780-765-3069	C
4030			
Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
4010BR			
Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
Wecker, Joe	Sedley	306-531-4867	C
4020MF			
Sorgard, Graham	Churchbridge	306-896-2236	C
54Q14			
Kushniruk, David	Melville	306-728-8525	C
ABLE			
Pickseed Canada Inc.	Winnipeg	204-633-0088	C
AC CARIBOU			
Eggerman, Percy A.	Watson	306-287-3780	C
ALGONQUIN			
Le Bras, Mart & Evan	Arborfield	306-812-8414	C
Marchildon, Joel	Zenon Park	306-812-8419	C
Nutrien Ag Solutions(Canada) (Forages)	Carrot River	306-768-3335	C
Stewart, Alan Kenneth	Carrot River	306-768-2811	C
Stewart, Ryan	Carrot River	306-768-2259	C
ALTHEA			
Elder, Stewart	Simpson	306-270-8594	C
DAKOTA			
Northstar Seed Ltd.	Neepawa	204-476-5241	C
DOMINATOR			
Marchildon, Joel	Zenon Park	306-812-8419	C
DYNAMO			
Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
EXTREME HD			
Mennie, Robert J.W.	Parkside	306-747-2282	C
HALO			
Nutrien Ag Solutions(Canada) (Forages)	Carrot River	306-768-3335	C
INSTINCT			
Pickseed Canada Inc.	Winnipeg	204-633-0088	F C
LEGENDAIRY XHD			
Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
MULTI5301			
Interlake Forage Seeds Ltd.	Fisher Branch	204-372-6920	C
OCTANE			
Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
OPTIMUS			
Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
PICKSEED 2065MF			
Pickseed Canada Inc.	Winnipeg	204-633-0088	C
SHOCKWAVE-BR			
Brett-Young Seeds Limited	Rycroft	780-765-3069	C
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Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
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Northstar Seed Ltd.	Neepawa	204-476-5241	C
VISION			
Pickseed Canada Inc.	Winnipeg	204-633-0088	C

BARLEY			
AAC CONNECT (TWO-ROW)			
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696	R C
Fedoruk, Michael J.	Kamsack	306-542-4235	F**
Frederick Seeds	Watson	306-287-3977	R**
Girodat, Gerald	Shaunavon	306-297-2563	C
Hanmer, Ronald F., Kent, Brad & Dallas	Govan	306-484-4327	C
Lung Seeds Ltd.	Lake Lenore	306-368-2414	C
Mayerle, Kris	Tisdale	306-873-4261	R C
Seed Source Inc.	Archerwill	306-323-4402	R
Seed Source Inc.	Archerwill	306-323-4402	R
Yauck, Kevin Rodney	Govan	306-484-4555	R
AAC SYNERGY (TWO-ROW)			
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	R C
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	C
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696	R C
Condie Seed	Regina	306-543-5052	R
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337	R C
Etter, James Raymond	Richardson	306-536-0380	R
Fraser, Scott & Shawn	Pambrun	306-741-0475	R
Frederick Seeds	Watson	306-287-3977	R
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-7785	C
Gellner, Clayton S.	Southey	306-726-4323	R
Girodat, Gerald	Shaunavon	306-297-2563	C
Gregoire, Denis & Rory & Brandon	North Battleford	306-445-5516	C
Hanmer, Ronald F., Kent, Brad & Dallas	Govan	306-484-4327	C
Hetland, Bill & Bohachewski, Joe	Naicam	306-874-5694	R
Johnson, Lee Stuart	Margo	306-324-4315	C
Laforge, Troy	Swift Current	306-773-0924	R
Laxdal, Glen M. & Blyth, Danny, Richard, Quinn	Wynyard	306-554-2078	R C
Mayerle, Kris	Tisdale	306-873-4261	C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	R C
Ostafie, Robert	Canora	306-563-6244	R
Seed Source Inc.	Archerwill	306-323-4402	R
Smith, Kyle	Limerick	306-263-4944	C
Smith, Wayne D.	Limerick	306-263-4944	C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	C
Tomtene, Steven & Brad	Birch Hills	306-749-3447	C
Wylie, Leslie Dale	Biggar	306-948-2807	C
AB CATTLELAC (SIX-ROW)			
Anderson, Skyler	Hazlet	306-741-6827	C
Frederick Seeds	Watson	306-287-3977	C
Kerber, Greg	Rosthern	306-232-4474	R C
Lueke, Dennis	Humboldt	306-682-5170	R
AC METCALFE (TWO-ROW)			
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	C
Beuker, Allan Daniel	Melfort	306-752-4810	C
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058	C
Boyd, Clare W. & Dale A.	Melfort	306-752-2564	C
Dear, Jonathon	Saskatoon	306-947-4740	C
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Frederick Seeds	Watson	306-287-3977	C
Gaertner, Lyle	Tisdale	306-873-4936	C**
Lung Seeds Ltd.	Lake Lenore	306-368-2414	C
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991	C
Pratchler, Leander	Muenster	306-682-3317	C
Rempel, Blair Allan	Nipawin	306-862-3573	C
Seed Source Inc.	Archerwill	306-323-4402	C
Seidle, Edward & Brett & Cameron J. & Mervyn Anthony	Medstead	306-342-4377	F R C
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687	R
Wiens, Brennan R.	Herschel	306-377-2002	C**
Youzwa, Donald	Nipawin	306-862-5690	C
Wiens, Brennan R.	Herschel	306-377-2002	C**
AC RANGER (SIX-ROW)			
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	C
AC ROSSER (SIX-ROW)			
Kerber, Greg	Rosthern	306-232-4474	F C
ALTORADO (TWO-ROW)			
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S F
BRAHMA (TWO-ROW)			
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	R
CDC ANDERSON (SIX-ROW)			
Kerber, Greg	Rosthern	306-232-4474	C
CDC ASCENT (TWO-ROW HULLESS)			
Tomtene, Steven & Brad	Birch Hills	306-749-3447	R
CDC AUSTENSON (TWO-ROW)			
Anderson, Skyler	Hazlet	306-741-6827	C
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S F R
Buziak, Ronald Charles	Mayfair	306-445-6556	R C
Dangstorp, Brian & Perry	Redvers	306-452-3443	C
Dueck, Jacob Eldon, Brian J. & Ken G.	St Anne	204-355-4495	C
Ennis, Garnet, Neil & Schmidt, Jordan	Glenavon	306-429-2793	R
Fedoruk, Michael J.	Kamsack	306-542-4235	R C
Fraser, Scott & Shawn	Pambrun	306-741-0475	R
Frederick Seeds	Watson	306-287-3977	R C
Fritzler, Baine A. & Adam A.	Govan	306-484-2010	R
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Goossen, Mathew	Sturgis	306-547-7432	C
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Larsen, Lyle L.	Aylsham	306-862-7333	C
Lung, Ivan & Schemenauer, Sherry, Brad, Bri, Austin, Tori	Lake Lenore	306-368-2511	C
Marcotte, Raymond W.	Kinistino	306-864-2948	R C
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Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	R
Sayers, Charlie Joseph	Delmas	306-445-6522	R
Seidle, Edward & Brett & Cameron J. & Mervyn Anthony	Medstead	306-342-4377	R C
Trawin Seeds	Melfort	306-752-4060	C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S F R
Wilfing, Ryan John	Meadow Lake	306-236-6811	C
Woroschuk, Andrew	Calder	306-742-4682	R
CDC BOW (TWO-ROW)			
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058	R
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939	R
Dueck, Jacob Eldon, Brian J. & Ken G.	St Anne	204-355-4495	C
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Frederick Seeds	Watson	306-287-3977	R
Hanley, Erwin & Priscilla	Regina	306-586-4509	R C
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Lueke, Dennis	Humboldt	306-682-5170				C
Lung, Ivan & Schemenauer, Sherry, Brad, Bri, Austin, Tori	Lake Lenore	306-368-2511				C
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991			R	C
Moen, Jim	Cabri	306-587-7452				C
Novak, Orrin	Kuroki	306-338-2021				C
Pratchler, Leander	Muenster	306-682-3317				C
Reisner, Cecil & Barry	Limerick	306-263-2139	S		R	C
Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800			R	C
Tomtene, Steven & Brad	Birch Hills	306-749-3447			R	C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	S	F		C
Wylie, Leslie Dale	Biggar	306-948-2807				C
Weigum, Garry & Sarah	Three Hills	403-443-9599				C**
Weigum, Garry & Sarah	Three Hills	403-443-9599				C**
CDC CARTER (TWO-ROW HULLLESS)						
Pender, Joseph M.	Saskatoon	306-374-4933				C
CDC CHURCHILL (TWO-ROW)						
Secan Association	Kanata	613-592-8600	S	F		C
CDC CLEAR (TWO-ROW HULLLESS)						
Laxdal, Glen M. & Blyth, Danny, Richard, Quinn	Wynyard	306-554-2078	S			C
CDC COPELAND (TWO-ROW)						
Ackerman, Patrick	Chamberlain	306-638-3177	S			C
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415			R	C
Beausoleil, Michael	Delmas	306-445-9106				C
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602			R	C
Beuker, Allan Daniel	Melfort	306-752-4810				C
Blumer, Brad & Doug	Dinsmore	306-460-7744			R	C
Boldt, Garry	Osler	306-239-2071			R	C
Boyd, Clare W. & Dale A.	Melfort	306-752-2564				C
Daviduk, Philip	Wadena	306-630-9034				C
Filarczuk, Darren	Ituna	306-795-2871				C
Fraser, Scott & Shawn	Pambrun	306-741-0475	S	F		C
Frederick Seeds	Watson	306-287-3977			R	C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-7785				C
Heggie, Kyle Robert	Leross	306-795-7208				C
Hetland, Bill & Bohachewski, Joe	Naicam	306-874-5694			R	C
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Johnson, Lee Stuart	Margo	306-324-4315				C
Martynook, Andy	Moose Jaw	306-692-7048			R	C
Mcarthur, Brennan	Watrous	306-230-9853				C
Novak, Orrin	Kuroki	306-338-2021				C
Olynick, Marlon	Quill Lake	306-383-2920				C
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Rude, Stanley	Naicam	306-874-2359			R	C
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Sandercock, Eric M.	Balcarres	306-334-2958				C
Schultz, Bernard J	Kuroki	306-338-2082				C
Secan Association	Kanata	613-592-8600				C
Seidle, Edward & Brett & Cameron J. & Mervyn Anthony	Medstead	306-342-4377			R	C
Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800				C
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687			R	C
Wiens, Brennan R.	Herschel	306-377-2002			R	C
CDC COPPER (TWO-ROW)						
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S			C
Wilfing, Ryan John	Meadow Lake	306-236-6811	S	F		C
CDC FIBAR (TWO-ROW HULLLESS)						
Tomtene, Steven & Brad	Birch Hills	306-749-3447			F	C
CDC FRASER (TWO-ROW)						
Ackerman, Patrick	Chamberlain	306-638-3177	S			C
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602			R	C

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Rude, Stanley	Naicam	306-874-2359				C
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	S			C
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687			F	R
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377				R
Wilfing, Ryan John	Meadow Lake	306-236-6811				C
Yauck, Kevin Rodney	Govan	306-484-4555	S	F		C
CDC GOLDSTAR (TWO-ROW)						
Tomtene, Steven & Brad	Birch Hills	306-749-3447				R
CDC MAVERICK (TWO-ROW)						
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S	F		R
Axten, Derek	Minton	306-969-2110				R
Cote, Nickolaus	Cadillac	306-625-7919				C
Dear, Jonathon	Saskatoon	306-947-4740				R
Fedoruk, Michael J.	Kamsack	306-542-4235				R
Fraser, Scott & Shawn	Pambrun	306-741-0475				C
Gellner, Clayton S.	Southey	306-726-4323				R
Hicks, Dale & Barry	Mossbank	306-229-9517				C
Kerber, Greg	Rosthern	306-232-4474				C
Trawin, Alan Ross	Melfort	306-752-4060				C
Wylie, Leslie Dale	Biggar	306-948-2807				R
CDC MCGWIRE (TWO-ROW HULLLESS)						
Pender, Richard Joseph	Saskatoon	306-651-4680			F	C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377				C
CDC PLATINUM STAR (TWO-ROW)						
Mayerle, Kris	Tisdale	306-873-4261				C
Tomtene, Steven & Brad	Birch Hills	306-749-3447				R
Wylie, Leslie Dale	Biggar	306-948-2807				C
CLAYMORE (TWO-ROW)						
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S			R
LEGACY (SIX-ROW)						
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602				C
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696				C
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438			F	R
Hetland, Bill & Bohachewski, Joe	Naicam	306-874-5694				R
Latrace, Bill	Caronport	306-693-2626				C
Ostafie, Robert	Canora	306-563-6244				C
Toman, Rick & Randy	Guernsey	306-365-8386				C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377				C
LOWE (TWO-ROW)						
Beuker, Allan Daniel	Melfort	306-752-4810				R
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S	F		R
OREANA (TWO-ROW)						
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S	F		R
Sayers, Charlie Joseph	Delmas	306-445-6522				C
SUNDRE (SIX-ROW)						
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AC OLE (PINTO)						
Ens, Abram E. & Chris & Friesen, Jake & Kenleigh & Wiebe, Matthew	Winkler	204-325-4658				R**
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	Trawin Seeds	Melfort	306-752-4060	F	C
	CARLTON (SMOOTH)				
	Hochbaum, Jack	Wilkie	306-843-2054		C
	MBA (MEADOW)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088		C
	MONTANA (MEADOW)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088		C
SIGNAL (SMOOTH)					
Nutrien Ag Solutions(Canada) (Forages)	Carrot River	306-768-3335		C	
BUCK-WHEAT	BUCKWHEAT				
	KOMA				
Durand, Gabriel A. & Marc	Notre Dame De Lourdes	204-248-2268	F**		
CANARYGRASS	CANARYGRASS				
	CDC CIBO				
	Gizen, Jason	Prelate	306-628-8127		R**
	Herle, Gregory & Andrew E.	Wilkie	306-843-2934		R
	Wiens, Brennan R.	Herschel	306-377-2002		R**
	CDC LUMIO				
	Lung Seeds Ltd.	Lake Lenore	306-368-2414	S	
	Wiens, Brennan R.	Herschel	306-377-2002	S	
	CANTATE				
	Hansen, James S.	Yellow Grass	306-465-2525		C
CANOLA	CDC CALVI				
	Fast, Walter J.	Kindersley	306-463-3626		C
	Gizen, Jason	Prelate	306-628-8127		C**
	Wiens, Brennan R.	Herschel	306-377-2002		R**
	Wiens, Brennan R.	Herschel	306-377-2002		C**
	CANOLA				
	SYNERGY (BRASSICA RAPA)				
	Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438		C
	Trawin Seeds	Melfort	306-752-4060		C
	CHICKPEA	CHICKPEA			
CDC CONSUL (DESI)					
Gizen, Jason		Prelate	306-628-8127	S F R	
CDC LANCER (KABULI)					
Fraser, Scott & Shawn		Pambrun	306-741-0475	S	
Petruic, Joe, Cameron L., Judy & Nick		Avonlea	306-868-2294	S	
Printz, Gerald & Kurt		Gravelbourg	306-648-3511	S	
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CDC LEADER (KABULI)					
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Printz, Gerald & Kurt	Gravelbourg	306-648-3511		C	
Reisner, Cecil & Barry	Limerick	306-263-2139		R	
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402		C**	
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S		
CDC ORION (KABULI)					
Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087		C	
McDougall, Ken & Craig	Moose Jaw	306-693-3649		R	
Reisner, Cecil & Barry	Limerick	306-263-2139	S	R C	
Riviere, Paul	Radville	306-869-7629		R C	
CDC PALMER (KABULI)					
Simpson, Jamie P.	Moose Jaw	306-693-9402	S F		
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S F R	C	
CLOVER	CLOVER				
	ALTASWEDE (RED)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088		C
	AURORA (ALSIKE)				
	Nutrien Ag Solutions(Canada) (Forages)	Carrot River	306-768-3335		C
	Wlaz, Chase	Carrot River	306-768-8565		C
	DAWN (ALSIKE)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088	F	C

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FABABEAN	FABABEAN				
	219-16				
	Baxter, Daniel J.H.	North Battleford	306-445-5414	S	
	Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S F	
	Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337		F
	Dutton, David H. & George	Paynton	306-441-6799	S F	
	Fedoruk, Michael J.	Kamsack	306-542-4235	S	
	Hetland, Ronald	Spalding	306-872-4617	S	
	Mayerle, Garry D.	Tisdale	306-873-5993		F
	Peifer, Sheldon M.	Nipawin	306-862-9470	S	
Rempel, Blair Allan	Nipawin	306-862-3573	S		
Rude, Stanley	Naicam	306-874-2359	S F		
Shymanski, Ronald Albert	Chocicland	306-428-2405	S F		
Willner, Lorne E.	Davidson	306-567-4613	S		
CDC SNOWDROP					
Laxdal, Glen M. & Blyth, Danny, Richard, Quinn	Wynyard	306-554-2078	S F	C	
CDC SSNS-1					
Friesen, Kevin G.	Laird	604-882-4936		C	
DL TESORO					
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S		
Laxdal, Glen M. & Blyth, Danny, Richard, Quinn	Wynyard	306-554-2078		F	
FABELLE					
Stamp, Richard & Marian & Greg & Nathan & Matthew	Enchant	403-739-2233		F**	
SNOWBIRD					
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602		C	
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696		C	
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337		C	
Dutton, David H. & George	Paynton	306-441-6799		R C	
Lung Seeds Ltd.	Lake Lenore	306-368-2414		C	
Mayerle, Kris	Tisdale	306-873-4261		R C	
Trawin Seeds	Melfort	306-752-4060	S		
Trawin, Mitchell	Melfort	306-752-4060		C	
FESCUE	FESCUE				
	CARNIVAL (TALL)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088		C
	LAURA (MEADOW)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088		R
	SAVORY (TALL)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088		C
	SENU (MEADOW)				
	Pickseed Canada Inc.	Winnipeg	204-633-0088		C
	TOWER (TALL)				
Pickseed Canada Inc.	Winnipeg	204-633-0088		C	
FLAX	FLAX				
	AAC BRAVO				
	Hyndman, Neil S.	Balcarres	306-331-8168		C
	Tebbutt, Gregg & Blake D.	Nipawin	306-862-9730		C
	AAC BRIGHT				
	Hanley, Erwin & Priscilla	Regina	306-586-4509		C
	Ostafie, Robert	Canora	306-563-6244		C
	Palmier, Maurice, Jason & Anita	Lafleche	306-472-7824		R
	AAC MARVELOUS				
	Smith, Ron T.w. & Barb A.	Limerick	306-263-4944		R
CDC BETHUNE *					
Amos, K. Wayne	Oxbow	306-483-2963	F		
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687	F	C	
CDC BURYU					
Reisner, Cecil & Barry	Limerick	306-263-2139		R C	
CDC CORADO					
Hicks, Dale & Barry	Mossbank	306-229-9517		R C	
CDC GLAS *					
Allan, J. Garth	Corning	306-457-2729		R	
Allan, John Richard	Corning	306-457-7310	S F	R	
Allan, Raymond N. & Ruth	Corning	306-224-4666		R	
Altwasser, Rodney & Allen R. & Dean	Yellow Grass	306-861-2727		C	

FLAX

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Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	R
Blumer, Brad & Doug	Dinsmore	306-460-7744	R
Dutton, David H. & George	Paynton	306-441-6799	C
Ennis, Garnet, Neil & Schmidt, Jordan	Glenavon	306-429-2793	C
Fritzler, Baine A. & Adam A.	Govan	306-484-2010	C
Gaertner, Lyle	Tisdale	306-873-4936	R**
Greenshields, Grant & Thomas & Callie	Semans	306-524-4339	C
Gregoire, Denis & Rory & Brandon	North Battleford	306-445-5516	C
Heggie, Robert Thomas	Leross	306-795-7493	C
Hetland, Ronald	Spalding	306-872-4617	C
Lung Seeds Ltd.	Lake Lenore	306-368-2414	C
Lung, Leonard & D. & B.	Lake Lenore	306-368-2224	C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	R
Moen, Jim	Cabri	306-587-7452	C
Osiowy, Bruce M.	Abernethy	306-335-2777	C
Ostafie, Robert	Canora	306-563-6244	F
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	R
Seed Source Inc.	Archerwill	306-323-4402	C
Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800	C
Smith, Wayne D.	Limerick	306-263-4944	C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	R
Toman, Rick & Randy	Guernsey	306-365-8386	C
Yauck, Kevin Rodney	Govan	306-484-4555	C
CDC NEELA			
Simpson, Trevor W.	Moose Jaw	306-693-9402	S R
CDC PLAVA			
Yauck, Kevin Rodney	Govan	306-484-4555	R
CDC ROWLAND			
Secan Association	Kanata	613-592-8600	S
CDC SANCTUARY *			
Fraser, Scott & Shawn	Pambrun	306-741-0475	C
Noble, Garry	Mossbank	306-354-2679	C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-7824	R
Schmeling, Donald H.	Riceton	306-530-1052	F
CDC SORREL *			
Edmunds, Greg & Glen	Tisdale	306-873-4780	C
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	R
Fraser, Scott & Shawn	Pambrun	306-741-0475	C
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	C
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	R
Willner, Brady E.	Davidson	306-567-4613	C
OMEGA			
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-7785	R
PRAIRIE THUNDER			
Bohun, Randy	Richard	306-481-5252	C
Fedoruk, Michael J.	Kamsack	306-542-4235	F**
TOPAZ			
Reisner, Cecil & Barry	Limerick	306-263-2139	F R
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	R
VT50			
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S R
WESTLIN 60			
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S F
WESTLIN 72			
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	R C
HEMP			
ALTAIR (MONOEICIOUS)			
Dubois, Devin	Rosetown	306-831-8248	C
Johnston, Wilson	Rosetown	306-831-9949	C
CFX-1 (DIOECIOUS)			
Hemp Genetics International Inc.	Saskatoon	604-882-4936	R
FINOLA (DIOECIOUS)			
Fresh Hemp Foods Ltd. (FHF)	Ste. Agathe	204-882-2480	C

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Canola: Canterra Varieties **Peas:** CDC Inca

Lentils: CDC Marble (Fr. Gr.), CDC Peridot (Fr. Gr.), Indian Head (Black)

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- Barley - Copeland, Connect, Platinum Star, Synergy
- Canola - CS2000, CS2300, CS2400, CS2500CL, CS2600CR-T
- Peas - CDC Amarillo, Carver, Spectrum
- Green Peas - Greenwater
- Oats - Morrison, Camden, Arborg
- Faba Beans - Snowbird
- Canary Seed - Calvi, Cibo
- Soybeans - PS00095, PS00078

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Cadrain, Denis	Glaslyn	306-342-4363	C
Campbell, Hugh	Qu'appelle	306-699-2967	R C
Etter, James Raymond	Richardson	306-536-0380	C
Gaudet, Mario	Melville	306-526-9981	C
Johnston, Wilson	Rosetown	306-831-9949	C
Terramax Holdings Corp.	Qu'appelle		C
KATANI (DIOECIOUS)			
Hemp Genetics International Inc.	Saskatoon	604-882-4936	R
LENTIL			
CDC CORAL			
Hanley, Erwin & Priscilla	Regina	306-586-4509	R
CDC GREENLAND			
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S F
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344	C
Willner, Brady E.	Davidson	306-567-4613	C
CDC GREENSTAR			
Blumer, Brad & Doug	Dinsmore	306-460-7744	C**
Condie Seed	Regina	306-543-5052	C
Ellert, David & Christopher	Rockglen	306-476-7623	F
Etter, James Raymond	Richardson	306-536-0380	C
Fraser, Scott & Shawn	Pambrun	306-741-0475	C
Hanmer, Ronald F., Kent, Brad & Dallas	Govan	306-484-4327	C
Johnson, Jordon	Swift Current	306-750-1701	C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	R C
Moen, Jim	Cabri	306-587-7452	C**
Moen, Jim	Cabri	306-587-7452	R**
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S
Printz, Gerald & Kurt	Gravelbourg	306-648-3511	S
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344	F
Wiens, Brennan R.	Herschel	306-377-2002	C**
CDC IMPALA			
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	C**
CDC IMPOWER (LARGE GREEN)			
Garratt, Lyle C. & K.c.	Milestone	306-436-2178	C
Hanmer, Ronald F., Kent, Brad & Dallas	Govan	306-484-4327	C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	C
Wiens, Brennan R.	Herschel	306-377-2002	C**
CDC IMPROVE			
Schmeling, Donald H.	Riceton	306-530-1052	F C
CDC IMPULSE (SMALL RED)			
Anderson, Skyler	Hazlet	306-741-6827	C
Barlow, Bradley L.	Griffin	306-861-6110	F
Benson, Cory	Central Butte	306-891-6885	C
Blumer, Brad & Doug	Dinsmore	306-460-7744	C
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939	C
Clark, Shaun & Gibbings, Neil	Rosetown	306-831-8963	R
Craswell, Raymond W., Kevin A. & David M.	Strasbourg	306-725-3236	R C
Edwards, Lawrence R. & Donna & Jeff & Mike	Nokomis	306-528-2140	C
Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087	C
Fraser, Scott & Shawn	Pambrun	306-741-0475	S F
Girodat, Gerald	Shaunavon	306-297-2563	C
Gizen, Jason	Prelate	306-628-8127	S R
Johnson, Jordon	Swift Current	306-750-1701	C
Laforge, Troy	Swift Current	306-773-0924	C
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S F
Pavo, Keith	Birsay	306-227-8537	C
Printz, Gerald & Kurt	Gravelbourg	306-648-3511	R
Reisner, Cecil & Barry	Limerick	306-263-2139	F R
Schmeling, Donald H.	Riceton	306-530-1052	F
Simpson, Jamie P.	Moose Jaw	306-693-9402	C
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	R
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	C

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Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	F**	
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	R**	
Wiens, Brennan R.	Herschel	306-377-2002		C
Willner, Brady E.	Davidson	306-567-4613	F	
CDC INVINCIBLE				
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	R**	
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402		C
CDC LIMA (LARGE GREEN)				
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S	F
Barlow, Bradley L.	Griffin	306-861-6110	F	
Clark, Shaun & Gibbings, Neil	Rosetown	306-831-8963	S	
Condie Seed	Regina	306-543-5052	S	F
Dear, Jonathon	Saskatoon	306-947-4740	F	
Fraser, Scott & Shawn	Pambrun	306-741-0475	S	F
Garratt, Lyle C. & K.C.	Milestone	306-436-2178	F	
Hansen, James S.	Yellow Grass	306-465-2525	F	
Mattus, Ronald	Central Butte	306-353-7556	S	F
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S	F
Nichols, Shae	Moose Jaw	306-631-5064	F	
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F
Reisner, Cecil & Barry	Limerick	306-263-2139	S	F
Schmeling, Donald H.	Riceton	306-530-1052	S	
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344	F	
Simpson, Jamie P.	Moose Jaw	306-693-9402	S	F
Smith, Wayne D.	Limerick	306-263-4944	S	F
Sopatky, Jeffery & Patti	Saskatoon	306-227-7867	S	F
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	F	
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S	F
Wiens, Brennan R.	Herschel	306-377-2002		R
Willner, Lorne E.	Davidson	306-567-4613	S	
CDC MARBLE				
Greenshields, Grant & Thomas & Callie	Semans	306-524-4339	F	C
Yauck, Kevin Rodney	Govan	306-484-4555	S	F
CDC MAXIM				
Wiens, Brennan R.	Herschel	306-377-2002		C**
CDC NIMBLE (SMALL RED)				
Mattus, Ronald	Central Butte	306-353-7556	S	
Simpson, Trevor W.	Moose Jaw	306-693-9402	S	F
Sopatky, Jeffery & Patti	Saskatoon	306-227-7867	S	
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714	S	
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S	
CDC PERIDOT				
Yauck, Kevin Rodney	Govan	306-484-4555		R
CDC PROCLAIM (SMALL RED)				
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415		C
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	S	F
Hyndman, Glen	Balcarres	306-331-8168		C
Kemper, Russell & Donna	Fulda	306-682-4929	F	
Keyser, Robert Sean	Cupar	306-723-4949		C
McDougall, Ken & Craig	Moose Jaw	306-693-3649		C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433		C**
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433		R**
Wiens, Brennan R.	Herschel	306-377-2002		C**
Wylie, Leslie Dale	Biggar	306-948-2807		C
CDC REDMOON				
Ackerman, Patrick	Chamberlain	306-638-3177		R
Blumer, Brad & Doug	Dinsmore	306-460-7744		C
Clark, Shaun & Gibbings, Neil	Rosetown	306-831-8963		R
Fraser, Scott & Shawn	Pambrun	306-741-0475	F	R
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-7785		C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F
Printz, Gerald & Kurt	Gravelbourg	306-648-3511		R
Willner, Brady E.	Davidson	306-567-4613	F	



Results of 2019 Saskatchewan Clubroot Survey Released

The Saskatchewan government has released a map outlining the rural municipalities (RMs) where clubroot has been identified through surveys from 2017 until now. Please note:

- This map indicates which areas have the highest risk.
- As clubroot is a soil borne disease, the pathogen is likely present in other fields or municipalities located in close proximity to confirmed clubroot findings.
- It is important to scout your fields to assess individual risk.
- Visit clubroot.ca to learn more.

SaskCanola invested \$110,000 into testing more than 1,900 soil samples in the 2019 survey to provide farmers with a better understanding of the distribution and severity of clubroot in Saskatchewan. Our participation will continue in 2020.



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SUNDWALL SEED SERVICE 2019-20 VARIETY LISTING

GOVAN

THE MUSTARD SPECIALISTS

Mustard: Andante Yellow, Adagio Yellow, Centennial Brown, AC Vulcan Oriental, AC 200 Oriental, AC 18 hybrid brown

Barley: Sundre, CDC Austenson

Durum: CDC Alloy

Flax: CDC Glas

Wheat: AC Shaw, AC Brandon, CDC Plentiful, AC Penhold, AC Andrew, AC Sadash, CDC Landmark, AC Viewfield

Yellow Peas: CDC Inca

Small Red Lentils: CDC Proclaim

Canary Seed: CDC Bastia

GOVAN

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Cell: 306-725-7908
Email: fritzagltd@aski.ca

Ken and Larry Trowell

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WHEAT: AAC Brandon, AAC Alida VB
BARLEY: CDC Copeland, AC Metcalfe, CDC Fraser
OATS: AC Morgan, ORe 3542M
FLAX: CDC Bethune, CDC Plava

Phone: Ken (306) 744-2687 Larry (306) 744-2604
Fax: (306) 744-2754 Email: ltrowell@yahoo.ca

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Rory (Cell): (306) 441-7005
Brandon (Cell): (306) 441-3781
Emile (Cell): (306) 441-6305

***CWRS Wheat: AAC Brandon, AAC Elie, AAC Redberry NEW**

***Green Peas: CDC Forest NEW**

***Malt Barley: Lowe, NEW**

AAC Synergy

***Flax: CDC Glas**

CDC SB-4	Simpson, Jamie P.	Moose Jaw	306-693-9402	S	F	R
INDIAN HEAD (PLOW DOWN)						
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F		
Simpson, Jamie P.	Moose Jaw	306-693-9402			R	
Simpson, Trevor W.	Moose Jaw	306-693-9402				C
Yauck, Kevin Rodney	Govan	306-484-4555	S	F		
MUSTARD						
AC VULCAN (ORIENTAL)						
Fraser, Scott & Shawn	Pambrun	306-741-0475		F		C
ANDANTE (YELLOW)						
Fraser, Scott & Shawn	Pambrun	306-741-0475		F		C
Fritzler, Baine A. & Adam A.	Govan	306-484-2010				C
Greenshields, Grant & Thomas & Callie	Semans	306-524-4339				C
CENTENNIAL (BROWN)						
Fritzler, Baine A. & Adam A.	Govan	306-484-2010		F		C
OAT						
AAC KONGSORE						
Fedoruk, Michael J.	Kamsack	306-542-4235	S			
AAC ORAVENA						
Fedoruk, Michael J.	Kamsack	306-542-4235				C
AC MORGAN						
Beuker, Allan Daniel	Melfort	306-752-4810		F		
Filarczuk, Darren	Ituna	306-795-2871				C
Gaertner, Lyle	Tisdale	306-873-4936				C
Goossen, Mathew	Sturgis	306-547-7432				C
Kerber, Greg	Rosthern	306-232-4474				C
Lepp, Milton & Elden; & Neufeld, M.	Hepburn	306-254-4243				R
Seidle, Edward & Brett & Cameron J. & Mervyn Anthony	Medstead	306-342-4377				R
Trawin Seeds	Melfort	306-752-4060				R
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687				C
Wilfing, Ryan John	Meadow Lake	306-236-6811				C
CDC ARBORG						
Beuker, Allan Daniel	Melfort	306-752-4810				R
Condie Seed	Regina	306-543-5052				R
Danielson, Lionel & Bonnie	Norquay	587-757-8506				R
Fedoruk, Michael J.	Kamsack	306-542-4235				R
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235		F		R
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	S			R
Frederick Seeds	Watson	306-287-3977				R
Mayerle, Erwin D.	Tisdale	306-873-4261				R
McDougall, Ken & Craig	Moose Jaw	306-693-3649				R
Palmer, Maurice, Jason & Anita	Lafleche	306-472-7824				R
Seed Source Inc.	Archerwill	306-323-4402				R
Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800				R
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377				R
Woods, Dale Arthur	Rocanville	306-645-4423				R
CDC BALER (FORAGE)						
Frederick Seeds	Watson	306-287-3977				R
Lueke, Dennis	Humboldt	306-682-5170				R
Trawin Seeds	Melfort	306-752-4060				F
Trawin, Brent John	Melfort	306-752-4060				C
CDC DANCER						
Heggie, Kyle Robert	Leross	306-795-7208				C
Jones, Bradley, Wanda, Tennille & Jennifer	Wadena	306-338-2381				C
CDC ENDURE						
Fedoruk, Michael J.	Kamsack	306-542-4235	S			
Lueke, Dennis	Humboldt	306-682-5170	S			
CDC HAYMAKER (FORAGE)						
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S	F	R	C
Axten, Derek	Minton	306-969-2110				C
Bodnaryk, John E., Ian & Vangen, Stacy	Rhein	306-273-4263				C
Dear, Jonathon	Saskatoon	306-947-4740				C
Fedoruk, Michael J.	Kamsack	306-542-4235				C
Fraser, Scott & Shawn	Pambrun	306-741-0475	S			C
Gellner, Clayton S.	Southey	306-726-4323				C

LENTIL

MUSTARD

OAT

PEA

AAC LACOMBE (YELLOW)			
Bodnaryk, John E., Ian & Vangen, Stacy	Rhein	306-273-4263	C
Falloon, A. Scott	Foxwarren	204-683-2347	C**
Weigum, Garry & Sarah	Three Hills	403-443-9599	C**
AAC LISCARD (MAPLE)			
Heggie, Kyle Robert	Leross	306-795-7208	R
Heggie, Robert Thomas	Leross	306-795-7493	R
AAC PROFIT (YELLOW)			
Tebbutt, Gregg & Blake D.	Nipawin	306-862-9730	S
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714	S
CDC ACER (MAPLE)			
Ellert, David & Christopher	Rockglen	306-476-7623	C
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	R
Tebbutt, Gregg & Blake D.	Nipawin	306-862-9730	R
CDC AMARILLO (YELLOW)			
Allan, J. Garth	Corning	306-457-2729	C
Allan, John Richard	Corning	306-457-7310	C
Edwards, Lawrence R. & Donna & Jeff & Mike	Nokomis	306-528-2140	R
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	R**
Hanmer, Ronald F., Kent, Brad & Dallas	Govan	306-484-4327	C
Lung Seeds Ltd.	Lake Lenore	306-368-2414	R
Luscombe, Darren	Sintaluta	306-727-2222	C
Ostafie, Brendan	Canora	306-563-6244	C
Rempel, Blair Allan	Nipawin	306-862-3573	C
Robinson, Oren A., Marlene & Wade	Landis	306-658-4755	S F
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	C
Weigum, Garry & Sarah	Three Hills	403-443-9599	R**
CDC ATHABASCA (YELLOW)			
Fedoruk, Michael J.	Kamsack	306-542-4235	R
CDC BLAZER (MAPLE)			
Blumer, Brad & Doug	Dinsmore	306-460-7744	R
Boldt, Garry	Osler	306-239-2071	S R
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-7785	C
Kerber, Greg	Rosthern	306-232-4474	C
Ostafie, Brendan	Canora	306-563-6244	F
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	F
CDC CANARY (YELLOW)			
Klemmer, Richard	Nipawin	306-862-3874	S
Ostafie, Brendan	Canora	306-563-6244	S
Rempel, Blair Allan	Nipawin	306-862-3573	S
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	S F
Tebbutt, Gregg & Blake D.	Nipawin	306-862-9730	S F
Tomtene, Steven & Brad	Birch Hills	306-749-3447	R
Wilfing, Ryan John	Meadow Lake	306-236-6811	S F
Youzwa, Donald	Nipawin	306-862-5690	S F
CDC DAKOTA (GREEN)			
Gizen, Jason	Prelate	306-628-8127	S
Mayerle, Erwin D.	Tisdale	306-873-4261	S
CDC FOREST (GREEN)			
Ackerman, Patrick	Chamberlain	306-638-3177	S
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S F
Baxter, Daniel J.H.	North Battleford	306-445-5414	S
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S F
Blumer, Brad & Doug	Dinsmore	306-460-7744	R
Green Shields, Grant & Thomas & Callie	Semans	306-524-4339	R
Gregoire, Denis & Rory & Brandon	North Battleford	306-445-5516	S F
Hetland, Bill & Bohachewski, Joe	Naicam	306-874-5694	R
Jones, Bradley, Wanda, Tennille & Jennifer	Wadena	306-338-2381	S
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S F
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991	R
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S
Ostafie, Brendan	Canora	306-563-6244	S
Panasuk, Kelly	Wadena	306-338-3756	R

Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S
Sayers, Charlie Joseph	Delmas	306-445-6522	R
Seidle, Edward & Brett & Cameron J. & Mervyn Anthony	Medstead	306-342-4377	F
Simpson, Jamie P.	Moose Jaw	306-693-9402	S
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	R
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714	F
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S F
Wohlgemuth, Mark	Bredenbury	306-744-7722	R
CDC GREENWATER			
Beuker, Allan Daniel	Melfort	306-752-4810	C
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058	C
Fraser, Scott & Shawn	Pambrun	306-741-0475	C
Hetland, Bill & Bohachewski, Joe	Naicam	306-874-5694	R
Jones, Bradley, Wanda, Tennille & Jennifer	Wadena	306-338-2381	S F
Mattus, Ronald	Central Butte	306-353-7556	R
Mayerle, Erwin D.	Tisdale	306-873-4261	C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-7824	R
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	F
CDC INCA (YELLOW)			
Allan, Raymond N. & Ruth	Corning	306-224-4666	C
Anderson, Skyler	Hazlet	306-741-6827	C
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S F
Barlow, Bradley L.	Griffin	306-861-6110	C
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	R
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696	R
Condie Seed	Regina	306-543-5052	C
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337	C
Dangstorp, Brian & Perry	Redvers	306-452-3443	C
Dear, Jonathon	Saskatoon	306-947-4740	R
Gizen, Jason	Prelate	306-628-8127	S F
Johnson, Jordon	Swift Current	306-750-1701	C
Kondratowicz, Frank	Unity	306-228-3684	C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	F
Mcarthur, Brennan	Watrous	306-230-9853	R
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	R
Ostafie, Brendan	Canora	306-563-6244	C
Reisner, Cecil & Barry	Limerick	306-263-2139	F
Riviere, Paul	Radville	306-869-7629	C
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	R
Shymanski, Tyler	Choiceland	306-276-8741	C
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S F
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714	C
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S F
Wiens, Brennan R.	Herschel	306-377-2002	C
Wylie, Leslie Dale	Biggar	306-948-2807	C
Yauck, Kevin Rodney	Govan	306-484-4555	R
CDC JASPER (YELLOW)			
Trawin Seeds	Melfort	306-752-4060	R
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S F
CDC LEWOCHKO (YELLOW)			
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S F
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S F
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939	S F
Clark, Shaun & Gibbings, Neil	Rosetown	306-831-8963	S
Condie Seed	Regina	306-543-5052	F
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337	F
Denis, Michel P. & Marc	St. Denis	306-258-2219	F
Edwards, Lawrence R. & Donna & Jeff & Mike	Nokomis	306-528-2140	S F
Fritzler, Baine A. & Adam A.	Govan	306-484-2010	S F
Girodat, Gerald	Shaunavon	306-297-2563	F
Green Shields, Grant & Thomas & Callie	Semans	306-524-4339	F
Littman, Allan Blake & L. robert & Adam	Saltcoats	306-744-2554	S
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S F

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WHEAT

Heavin, Larry N. & L. Warren	Melfort	306-752-4020	S	F	R
Huber, Daniel & Rebecca	Landis	306-658-4200			R
Johnson, Jordon	Swift Current	306-750-1701			C
Josuttis, Brock	Paradise Hill	306-248-7077			C
Keyser, Robert Sean	Cupar	306-723-4949			C
Klemmer, Richard	Nipawin	306-862-3874			C
Kondratowicz, Frank	Unity	306-228-3684			C
Laxdal, Glen M. & Blyth, Danny, Richard, Quinn	Wynyard	306-554-2078			C
Lepp, Milton & Elden; & Neufeld, M.	Hepburn	306-254-4243		R	C
Lung Seeds Ltd.	Lake Lenore	306-368-2414			C
Lung, Ivan & Schemenauer, Sherry, Brad, Bri, Austin, Tori	Lake Lenore	306-368-2511		R	
Lung, Leonard & D. & B.	Lake Lenore	306-368-2224			C
Luscombe, Darren	Sintaluta	306-727-2222		R	
Mattus, Ronald	Central Butte	306-353-7556		R	
Mayerle, Kris	Tisdale	306-873-4261			C
Mcarthur, Brennan	Watrous	306-230-9853		R	C
Moroz, Troy	Pelly	306-595-4622			C
Nakonechny; Donald, Coral & Lance	Ruthilda	306-932-4409	S		R
Needham, Reginald R.	Oxbow	306-483-5052		R	C
Novak, Orrin	Kuroki	306-338-2021			C
Olynick, Marlon	Quill Lake	306-383-2920			C
Ostafie, Robert	Canora	306-563-6244		R	
Rempel, Blair Allan	Nipawin	306-862-3573		R	C
Rude, Stanley	Naicam	306-874-2359			C
Sandercock, Eric M.	Balcarres	306-334-2958			C
Sayers, Charlie Joseph	Delmas	306-445-6522			C
Schultz, Bernard J	Kuroki	306-338-2082			C
Seed Source Inc.	Archerwill	306-323-4402			C
Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800			C
Simpson, Trevor W.	Moose Jaw	306-693-9402			C
South, Winston & Richard & Bradley	Melfort	306-752-9840		R	
Tebbutt, Gregg & Blake D.	Nipawin	306-862-9730		R	C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433		R	
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687	S	F	R
Wiens, Brennan R.	Herschel	306-377-2002			C
Willner, Brady E.	Davidson	306-567-4613		R	
Winterhalt, Tim	Unity	306-228-3170			C
Wohlgemuth, Mark	Bredenbury	306-744-7722			C
AAC CABRI (DURUM)					
Carefoot, Lorne R.	Swift Current	306-773-6970			C
Johnson, Jordon	Swift Current	306-750-1701			C
AAC CAMERON - CARBERRY (VB)					
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696			C
Frederick Seeds	Watson	306-287-3977			C**
Mayerle, Kris	Tisdale	306-873-4261		R	C
Trawin Seeds	Melfort	306-752-4060			C
Wylie, Leslie Dale	Biggar	306-948-2807			C
Yauck, Kevin Rodney	Govan	306-484-4555			C
AAC CIRRU					
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F	
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944		F	
AAC CONGRESS (DURUM)					
Anderson, Skyler	Hazlet	306-741-6827		R	C
Johnson, Jordon	Swift Current	306-750-1701			C
Peter, Bradley	Assiniboia	306-642-4217			C
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F	R
Simpson, Trevor W.	Moose Jaw	306-693-9402	S	F	C
AAC CONNERY					
Bohun, Randy	Richard	306-481-5252			C
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058			C
Frederick Seeds	Watson	306-287-3977			R**
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714			C
AAC DONLOW (DURUM)					
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S		
Reisner, Cecil & Barry	Limerick	306-263-2139	S		

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CWRS WHEAT
AAC Brandon, AAC Warman VB

PEAS
CDC Spectrum, CDC Canary, CDC Acer-Maple

FLAX
AAC Bravo

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- AAC Alida
- CDC Landmark

YELLOW PEAS

- AAC Chrome

SeCan ALLIANCE SEED FPGenetics

AAC ELIE					
Anderson, Skyler	Hazlet	306-741-6827			R
Anderson, Skyler	Hazlet	306-741-6827			C**
Bodnaryk, John E., Ian & Vangen, Stacy	Rhein	306-273-4263			C
Fallis, J. Allan & Mark A.	Crystal City	204-825-4525			R**
Frederick Seeds	Watson	306-287-3977			C
Gregoire, Denis & Rory & Brandon	North Battleford	306-445-5516			R**
Henry, Cameron & Mc Lean, Eric	Oak River	204-566-2422			R**
Lindgren, Jordan & Jennifer	Norquay	306-594-7644			C
Luscombe, Darren	Sintaluta	306-727-2222			C
Stamp, Richard & Marian & Greg & Nathan & Matthew	Enchant	403-739-2233			F**
AAC FORAY - AAC PENHOLD (VB)					
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939		R	C
Wilfing, Ryan John	Meadow Lake	306-236-6811			C
AAC GOLDRUSH (WINTER)					
Fedoruk, Michael J.	Kamsack	306-542-4235			R
McDougall, Craig & Thoroughgood, Paul	Moose Jaw	306-693-3649		F	
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S		R
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	S		R
AAC GRAINLAND (DURUM)					
Fraser, Scott & Shawn	Pambrun	306-741-0475	S	F	
Printz, Gerald & Kurt	Gravelbourg	306-648-3511	S	F	
AAC ICEBERG					
Stamp, Richard & Marian & Greg & Nathan & Matthew	Enchant	403-739-2233			R**
AAC INNOVA					
Winterhalt, Tim	Unity	306-228-3170			R
AAC JATHARIA - CARBERRY (VB)					
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415			R
Blumer, Brad & Doug	Dinsmore	306-460-7744			C**
Boldt, Garry	Osler	306-239-2071			C
Daviduk, Philip	Wadena	306-630-9034			C
Reisner, Cecil & Barry	Limerick	306-263-2139			R
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638			R
Schultz, Bernard J	Kuroki	306-338-2082			C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433			C
AAC LEROY - AAC REDBERRY (VB)					
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337	S	F	
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	S		R
Mayerle, Kris	Tisdale	306-873-4261			R
Printz, Gerald & Kurt	Gravelbourg	306-648-3511			R
Sayers, Charlie Joseph	Delmas	306-445-6522			R
Wylie, Leslie Dale	Biggar	306-948-2807	S		R
Yauck, Kevin Rodney	Govan	306-484-4555			R
AAC MAGNET					
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235		F	
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	R
Sand, Evan	Limerick	306-263-4944			F
Smith, Kyle	Limerick	306-263-4944			F
Woods, Dale Arthur	Rocanville	306-645-4423	S	F	
AAC PARAMOUNT - AC ANDREW (VB)					
Herle, Gregory & Andrew E.	Wilkie	306-843-2934			C
Toman, Rick & Randy	Guernsey	306-365-8386			R
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	S	F	C
AAC PENHOLD (CPS RED)					
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058		R	C
Hyndman, Glen	Balcarres	306-331-8168			C
Wilfing, Ryan John	Meadow Lake	306-236-6811			R
AAC PREVAIL - CDC PLENTIFUL					
Bodnaryk, John E., Ian & Vangen, Stacy	Rhein	306-273-4263			C
Huber, Daniel & Rebecca	Landis	306-658-4200			C
Wiens, Brenna R.	Herschel	306-377-2002			C**

WHEAT

WHEAT

AAC REDBERRY			
Anderson, Skyler	Hazlet	306-741-6827	C
Bodnaryk, John E., Ian & Vangen, Stacy	Rhein	306-273-4263	C
Boyd, Clare W. & Dale A.	Melfort	306-752-2564	C
Bryant, Lee & Phyl & Vern & Carol	Battleford	306-937-3565	C
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337	F
Dangstorp, Brian & Perry	Redvers	306-452-3443	C
Desrochers, David Oscar	Baldur	204-535-2090	R**
Desrochers, David Oscar	Baldur	204-535-2090	R**
Fedoruk, Michael J.	Kamsack	306-542-4235	S
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	C
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	F
Frederick Seeds	Watson	306-287-3977	C
Goossen, Mathew	Sturgis	306-547-7432	C
Gregoire, Denis & Rory & Brandon	North Battleford	306-445-5516	S
Huber, Daniel & Rebecca	Landis	306-658-4200	R
Johnson, Jordan	Swift Current	306-750-1701	C
Kerber, Greg	Rosthern	306-232-4474	C
Lueke, Dennis	Humboldt	306-682-5170	C
Luscombe, Darren	Sintaluta	306-727-2222	C
Sayers, Charlie Joseph	Delmas	306-445-6522	C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	R
Wilfing, Ryan John	Meadow Lake	306-236-6811	R
Winterhalt, Tim	Unity	306-228-3170	R
AAC REDWATER			
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058	C
Weigum, Garry & Sarah	Three Hills	403-443-9599	C**
AAC RUSSELL - AAC BRANDON (VB)			
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	S
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714	S
Woods, Dale Arthur	Rocanville	306-645-4423	S
AAC SPITFIRE (DURUM)			
Blumer, Brad & Doug	Dinsmore	306-460-7744	R
Gizen, Jason	Prelate	306-628-8127	C**
Moen, Jim	Cabri	306-587-7452	F**
Moen, Jim	Cabri	306-587-7452	C**
Needham, Reginald R.	Oxbow	306-483-5052	C
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	F
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433	C**
Van Roessel, William & Jean	Bow Island	403-545-6018	C**
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S
Wiens, Brennan R.	Herschel	306-377-2002	R**
AAC STARBUCK			
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714	S
AAC STARBUCK - AAC BRANDON (VB)			
Ackerman, Patrick	Chamberlain	306-638-3177	S
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S
Blumer, Brad & Doug	Dinsmore	306-460-7744	R
Boldt, Garry	Osler	306-239-2071	S
Boyd, Clare W. & Dale A.	Melfort	306-752-2564	S
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696	S
Craswell, Raymond W., Kevin A. & David M.	Strasbourg	306-725-3236	S
Dear, Jonathon	Saskatoon	306-947-4740	F
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	S
Goossen, Mathew	Sturgis	306-547-7432	F
Greenshields, Grant & Thomas & Callie	Semans	306-524-4339	F
Heavin, G. Harvey & G. Ryan	Melfort	306-752-4171	F
Heavin, Larry N. & L. Warren	Melfort	306-752-4020	S
Hetland, Bill & Bohachewski, Joe	Naicam	306-874-5694	F
Laxdal, Glen M. & Blyth, Danny, Richard, Quinn	Wynyard	306-554-2078	S
Lung Seeds Ltd.	Lake Lenore	306-368-2414	S
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S
Pratchler, Leander	Muenster	306-682-3317	F
Rempel, Blair Allan	Nipawin	306-862-3573	S
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	S



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Trawin Seeds	Melfort	306-752-4060	S
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S
Wilfing, Ryan John	Meadow Lake	306-236-6811	S
Woods, Dale Arthur	Rocanville	306-645-4423	S
Wylie, Leslie Dale	Biggar	306-948-2807	S
Yauck, Kevin Rodney	Govan	306-484-4555	S
AAC STRONGHOLD (DURUM)			
Anderson, Skyler	Hazlet	306-741-6827	C
Condie Seed	Regina	306-543-5052	C
Cote, Nikolaus	Cadillac	306-625-7919	C
Fraser, Scott & Shawn	Pambrun	306-741-0475	F
Hyndman, Glen	Balcarres	306-331-8168	R
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	F
Reisner, Cecil & Barry	Limerick	306-263-2139	C
Smith, Kyle	Limerick	306-263-4944	C
Smith, Ron T.w. & Barb A.	Limerick	306-263-4944	R
AAC SUCCEED - CDC ALLOY (DURUM VB)			
Craswell, Raymond W., Kevin A. & David M.	Strasbourg	306-725-3236	S
Etter, James Raymond	Richardson	306-536-0380	R
Fraser, Scott & Shawn	Pambrun	306-741-0475	F
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S
Printz, Gerald & Kurt	Gravelbourg	306-648-3511	R
Riviere, Paul	Radville	306-869-7629	R
Sand, Evan	Limerick	306-263-4944	R
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944	S
Smith, Wayne D.	Limerick	306-263-4944	R
AAC TISDALE			
Edmunds, Greg & Glen	Tisdale	306-873-4780	R
Ellis, Warren P., Simon & Amanda	Wawanesa	204-824-2290	C**
Froebe, Bruce D. & Murray	Homewood	204-745-6655	C**
Greenshields, Grant & Thomas & Callie	Semans	306-524-4339	C
Heavin, G. Harvey & G. Ryan	Melfort	306-752-4171	S
Heavin, Milton Russell	Melfort	306-752-4071	R
Marcotte, Raymond W.	Kinistino	306-864-2948	C
Reisner, Cecil & Barry	Limerick	306-263-2139	R
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	F
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	R
Willner, Brady E.	Davidson	306-567-4613	F
AAC VIEWFIELD			
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	R
Beuker, Allan Daniel	Melfort	306-752-4810	C
Buziak, Ronald Charles	Mayfair	306-445-6556	C
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696	C
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939	S
Clark, Shaun & Gibbings, Neil	Rosetown	306-831-8963	R
Craswell, Raymond W., Kevin A. & David M.	Strasbourg	306-725-3236	C
Dangstorp, Brian & Perry	Redvers	306-452-3443	C
Desrochers, David Oscar	Baldur	204-535-2090	C**
Edwards, Lawrence R. & Donna & Jeff & Mike	Nokomis	306-528-2140	R
Etter, James Raymond	Richardson	306-536-0380	R
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	R
Fraser, Scott & Shawn	Pambrun	306-741-0475	C
Frederick Seeds	Watson	306-287-3977	C
Heggie, Kyle Robert	Leross	306-795-7208	F
Herle, Gregory & Andrew E.	Wilkie	306-843-2934	R
Hyndman, Glen	Balcarres	306-331-8168	C
Littman, Allan Blake & L. Robert & Adam	Saltcoats	306-744-2554	C
Mc Dougall, Ken & Craig	Moose Jaw	306-693-3649	C
Seed Source Inc.	Archerwill	306-323-4402	C
Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800	C
Shwaga, Jeff W.	Wroxton	306-742-4590	R
Tomtene, Steven & Brad	Birch Hills	306-749-3447	C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	C

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Veikle, Carl E. & Brennan	Cut Knife	306-398-4714			C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	R		C
Wiens, Brennan R.	Herschel	306-377-2002			C
Wilfing, Ryan John	Meadow Lake	306-236-6811			C
Woods, Dale Arthur	Rocanville	306-645-4423	F		C
Wylie, Leslie Dale	Biggar	306-948-2807			C
AAC WARMAN - AAC TISDALE (VB)					
Boldt, Garry	Osler	306-239-2071	F		R
Greenshields, Grant & Thomas & Callie	Semans	306-524-4339			R
Ostafie, Robert	Canora	306-563-6244	F		R
Tebbutt, Gregg & Blake D.	Nipawin	306-862-9730			R
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S	F	R
AAC WHEATLAND - AAC BRANDON (VB)					
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415	S	F	R
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939	S	F	R
Denis, Michel P. & Marc	St. Denis	306-258-2219	S		R
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	F		R
Hanley, Erwin & Priscilla	Regina	306-586-4509	F		R
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991	S	F	R
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S	F	R
Olynick, Marlon	Quill Lake	306-383-2920			R
Ostafie, Robert	Canora	306-563-6244	S		R
Rugg, Robert B., John Barry & Brian R.	Elstow	306-257-3638	F		R
Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800	S	F	R
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S		R
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714	S		R
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	S	F	R
AAC WHITEFOX (HARD WHITE)					
Mc Dougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	R
AAC WILDFIRE (WINTER)					
Dear, Jonathon	Saskatoon	306-947-4740			C
Hicks, Dale & Barry	Mossbank	306-229-9517	R		C
Tebbutt, Gregg & Blake D.	Nipawin	306-862-9730	R		C
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	R		C
AC ANDREW					
Blumer, Brad & Doug	Dinsmore	306-460-7744	R		C
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939			C
Dutton, David H. & George	Paynton	306-441-6799	R		C
Frederick Seeds	Watson	306-287-3977	R		C
Fritzler, Baine A. & Adam A.	Govan	306-484-2010			C
Herle, Gregory & Andrew E.	Wilkie	306-843-2934	F		C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	F		C
Wiens, Brennan R.	Herschel	306-377-2002			C
Wilfing, Ryan John	Meadow Lake	306-236-6811			C
AC INTREPID					
Illingworth, Hazel V., Todd Douglas & Caden	North Battleford	306-445-5630			C
AC NAVIGATOR (DURUM)					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011			C
ACCELERATE					
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337	R		C
Tomtene, Steven & Brad	Birch Hills	306-749-3447	F		R
ALDERON					
Cote, Nickolaus	Cadillac	306-625-7919			C
BELVEDERE					
Seed Increase Unit, Research Farm	Indian Head	306-695-5266			C
BOLLES					
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337			C
CARBERRY					
Amos, K. Wayne	Oxbow	306-483-2963			C
Ostapovitch, F.g. & Glen	Theodore	306-647-2205			R
Schmeling, Donald H.	Riceton	306-530-1052	F		C

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Klemmer, Richard	Nipawin	306-862-3874			C
CDC ABOUND					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S	F	R C
CDC ADAMANT					
Reisner, Cecil & Barry	Limerick	306-263-2139			F
CDC ADAMANT - CDC BRADWELL (VB)					
Girodat, Gerald	Shaunavon	306-297-2563			R
Reisner, Cecil & Barry	Limerick	306-263-2139	F		R
Smith, Wayne D.	Limerick	306-263-4944			R C
Yauck, Kevin Rodney	Govan	306-484-4555			C

CDC ALLOY (DURUM)					
Craswell, Raymond W., Kevin A. & David M.	Strasbourg	306-725-3236			R
Dowdeswell, Donald D.	Pennant	306-750-1114			C
Etter, James Raymond	Richardson	306-536-0380			C
Fritzler, Baine A. & Adam A.	Govan	306-484-2010			C
Girodat, Gerald	Shaunavon	306-297-2563			C
Gizen, Jason	Prelate	306-628-8127	C**		R
McDougall, Ken & Craig	Moose Jaw	306-693-3649			C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-7824			C
Printz, Gerald & Kurt	Gravelbourg	306-648-3511			C
Reisner, Cecil & Barry	Limerick	306-263-2139			C
Riviere, Paul	Radville	306-869-7629			C
Smith, Kyle	Limerick	306-263-4944			C
Smith, Wayne D.	Limerick	306-263-4944			C
Stamp, Richard & Marian & Greg & Nathan & Matthew	Enchant	403-739-2233	C**		R
Wiens, Brennan R.	Herschel	306-377-2002	R**		C
Wiens, Brennan R.	Herschel	306-377-2002	C**		R
CDC CARBIDE - CDC VIVID (DURUM - VB)					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	R		C
CDC CREDECE (DURUM)					
Condie Seed	Regina	306-543-5052	F		R
Girodat, Gerald	Shaunavon	306-297-2563			R
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294			R
Petruic, Nick	Avonlea	306-550-8555	F		R
Simpson, Trevor W.	Moose Jaw	306-693-9402	R		C
Wiens, Brennan R.	Herschel	306-377-2002	R		C
CDC DYNAMIC (DURUM)					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011			C
CDC HUGHES - CARDALE (VB)					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	F		R C
CDC LANDMARK - AAC VIEWFIELD (VB)					
Ardell, Terrence, Michael, Joanne, Theresa & Ives, Joshua	Vanscoy	306-668-4415			C
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602			R
Boyd, Clare W. & Dale A.	Melfort	306-752-2564			C
Buziak, Ronald Charles	Mayfair	306-445-6556			C
Cay, Randy D., Susan, Layne & Justin	Kinistino	306-864-3696			R
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939	S	F	R
Clark, Shaun & Gibbings, Neil	Rosetown	306-831-8963			C
Condie Seed	Regina	306-543-5052			C
Craswell, Raymond W., Kevin A. & David M.	Strasbourg	306-725-3236			R
Danielson, Lionel & Bonnie	Norquay	587-757-8506			C
Denis, Michel P. & Marc	St. Denis	306-258-2219			C
Dueck, Jacob Eldon, Brian J. & Ken G.	St Anne	204-355-4495			C
Etter, James Raymond	Richardson	306-536-0380			R
Fedoruk, Michael J.	Kamsack	306-542-4235			R
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	F		R
Frederick Seeds	Watson	306-287-3977			C
Fritzler, Baine A. & Adam A.	Govan	306-484-2010			C
Heggie, Robert Thomas	Leross	306-795-7493			C
Kerber, Greg	Rosthern	306-232-4474			C
Laxdal, Glen M. & Blyth, Danny, Richard, Quinn	Wynyard	306-554-2078	F		R
Littman, Allan Blake & L. Robert & Adam	Saltcoats	306-744-2554			C
Mayerle, Kris	Tisdale	306-873-4261			C
McCarthy, Brent	Corning	306-224-4848			C
McDougall, Ken & Craig	Moose Jaw	306-693-3649			C
Ostafie, Robert	Canora	306-563-6244	R		C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-7824			C
Pavo, Keith	Birsay	306-227-8537			C
Printz, Gerald & Kurt	Gravelbourg	306-648-3511			C
Seed Source Inc.	Archerwill	306-323-4402			C
Seed Source Inc.	Archerwill	306-323-4402			C

Shewchuk, Lorne & Terry & Michael	Blaine Lake	306-497-2800			C
Sopatky, Jeffery & Patti	Saskatoon	306-227-7867			F
Toman, Rick & Randy	Guernsey	306-365-8386			C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S	F	R
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	S	F	R
Wilfing, Ryan John	Meadow Lake	306-236-6811			R
Woods, Dale Arthur	Rocanville	306-645-4423			C
Wylie, Leslie Dale	Biggar	306-948-2807			C
Wiens, Brennan R.	Herschel	306-377-2002			C**
CDC ORTONA					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S	F	R
CDC PLENTIFUL					
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939			C
Fritzler, Baine A. & Adam A.	Govan	306-484-2010			C
McCarthy, Brent	Corning	306-224-4848			R
Smith, Ron T.w. & Barb A.	Limerick	306-263-4944			R
CDC PRECISION (DURUM)					
Altwasser, Rodney & Allen R. & Dean	Yellow Grass	306-861-2727			C
Anderson, Skyler	Hazlet	306-741-6827			C**
Blumer, Brad & Doug	Dinsmore	306-460-7744			R
Clark, Shaun & Gibbings, Neil	Rosetown	306-831-8963			C
Ellert, David & Christopher	Rockglen	306-476-7623			C
Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087			C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-7785			C
Gizen, Jason	Prelate	306-628-8127			C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	C
Moen, Jim	Cabri	306-587-7452			F**
Moen, Jim	Cabri	306-587-7452			C**
Printz, Gerald & Kurt	Gravelbourg	306-648-3511	S	F	R
Rennick, Joe R. & William J.	Milestone	306-436-4353	S	F	R
Riviere, Paul	Radville	306-869-7629			C**
Riviere, Paul	Radville	306-869-7629			R**
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344			C
Stamp, Richard & Marian & Greg & Nathan & Matthew	Enchant	403-739-2233			C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433			C
Thiessen Trevor & Latrace, Jackson & Jim	Lumsden	306-530-8433			C**
Van Roessel, William & Jean	Bow Island	403-545-6018			R**
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S	F	R
Willner, Brady E.	Davidson	306-567-4613			C
Yauck, Kevin Rodney	Govan	306-484-4555			C
CDC STANLEY					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S	F	R
CDC TERRAIN					
Wilfing, Ryan John	Meadow Lake	306-236-6811			R
CDC TITANIUM - STETTLER (VB)					
Nutrien Ag Solutions (Canada) (Cereals & Soybeans)	High River	403-603-6011	S	F	R
Sayers, Charlie Joseph	Delmas	306-445-6522			R
CDC UTMOST - HARVEST (VB)					
Kerber, Greg	Rosthern	306-232-4474			R
Palmier, Maurice, Jason & Anita	Lafleche	306-472-7824			C
Veikle, Carl E. & Brennan	Cut Knife	306-398-4714			C
DAYBREAK					
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602			F
Bohun, Randy	Richard	306-481-5252			R
Mayerle, Kris	Tisdale	306-873-4261	S	F	R
ELGIN ND					
Fenton, Robin Paul	Tisdale	306-873-3234			C**
ELLERSLIE					
Ostafie, Robert					



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WHEAT

EMERSON (WINTER)			
Girodat, Gerald	Shaunavon	306-297-2563	R
Petruic, Joe, Cameron L., Judy & Nick	Avonlea	306-868-2294	R
GOODEVE - AC INTREPID (VB)			
Illingworth, Hazel V., Todd Douglas & Caden	North Battleford	306-445-5630	C
Gaertner, Lyle	Tisdale	306-873-4936	C**
PASTEUR			
Hanley, Erwin & Priscilla	Regina	306-586-4509	R
Toman, Rick & Randy	Guernsey	306-365-8386	C
SADASH - AC ANDREW (VB)			
Blyth, Darran	Waseca	780-205-2677	C
Charabin, Dale Kenneth & Ryan & Neil & Eric	North Battleford	306-445-2939	F R
Fritzler, Baine A. & Adam A.	Govan	306-484-2010	S R
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	C
Wilfing, Ryan John	Meadow Lake	306-236-6811	C
SADASH (SOFT WHITE)			
Robinson, Oren A., Marlene & Wade	Landis	306-658-4755	S R
SHAW - AC DOMAIN (VB)			
Fritzler, Baine A. & Adam A.	Govan	306-484-2010	C
Huber, Daniel & Rebecca	Landis	306-658-4200	C
SPARROW			
Hanley, Erwin & Priscilla	Regina	306-586-4509	S F
SPARROW - ALDERON (VB)			
Hanley, Erwin & Priscilla	Regina	306-586-4509	R C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	R
SY GABBRO			
Richardson International Ltd.	Winnipeg	204-934-5994	R
SY OBSIDIAN			
Richardson International Ltd.	Winnipeg	204-934-5994	F R C
SY ROWYN			
Rude, Stanley	Naicam	306-874-2359	C
SY TORACH			
Bryant, Lee & Phyl & Vern & Carol	Battleford	306-937-3565	R
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-645-3337	F R
Mayerle, Kris	Tisdale	306-873-4261	S F R
Rude, Stanley	Naicam	306-874-2359	R
Seed Source Inc.	Archerwill	306-323-4402	R
Tomtene, Steven & Brad	Birch Hills	306-749-3447	R
Wylie, Leslie Dale	Biggar	306-948-2807	C
TRACKER			
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	R
TRANSCEND (DURUM)			
Craswell, Raymond W., Kevin A. & David M.	Strasbourg	306-725-3236	R
Dowdeswell, Donald D.	Pennant	306-750-1114	C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-7824	C
Reisner, Cecil & Barry	Limerick	306-263-2139	C
Sand, Evan	Limerick	306-263-4944	C
Smith, Wayne D.	Limerick	306-263-4944	C
Stamp, Richard & Marian & Greg & Nathan & Matthew	Enchant	403-739-2233	S**
WPB WHISTLER			
Hanley, Erwin & Priscilla	Regina	306-586-4509	F
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S
Willner, Lorne E.	Davidson	306-567-4613	S

WHEATGRASS

WHEATGRASS			
AC GOLIATH (CRESTED)			
Brett-Young Seeds Limited (MB Acct)	St. Norbert	204-261-7932	C
Nutrien Ag Solutions(Canada) (Forages)	Carrot River	306-768-3335	F
Trawin Seeds	Melfort	306-752-4060	F
AC SALTFLANDER (GREEN)			
Fraser, Scott & Shawn	Pambrun	306-741-0475	C
GREENLEAF (PUBESCENT)			
Nutrien Ag Solutions(Canada) (Forages)	Carrot River	306-768-3335	F
KIRK (CRESTED)			
Hochbaum, Jack	Wilkie	306-843-2054	C
Nutrien Ag Solutions(Canada) (Forages)	Carrot River	306-768-3335	F
Rempel, Blair Allan	Nipawin	306-862-3573	C
REVENUE (SLENDER)			
Lussier, Patrick D.	Arborfield	306-862-1363	C



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