

# Alberta Seed Guide

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WARD OATWAY



**GREETINGS EVERYONE.** I hope you had a restful holiday and winter season. I know that 2019 will be an eventful year, and one that promises to be filled with important decisions for you, our industry, and our country.

Speaking of decisions, this is such a critical time. What we decide now will set the tone for our year in the field. When I am faced with the choices that will determine what we grow and how our yields will perform, I like to have the best tools around me. That is why I am glad you are reading this *Alberta Seed Guide*.

In the following pages, you will read industry-first details on how new varieties have performed in compiled regional variety trials. You will also have access to the latest and greatest agronomic traits that are now available. Think of this guide as your toolbox to unlocking the potential of your farm. As fellow Alberta Seed Growers, we are very proud to be part of bringing this guide to your mailboxes.

One of the most important aspects of the Alberta Seed Growers association is the role we play in providing top quality seed for the best agricultural industry in the world. In order to keep providing this seed, we need to attract investment and make sure that we remain competitive globally. This has been the chief reason for our Seed Synergy discussions and consultations that

have continued over these past months. Our primary goal is to achieve a balanced investment for the future of our seed system. This is the way in which we will all succeed. I am confident that we are laying groundwork for a sustainable seed system where we can all benefit. This means, one that encourages investment while recognizing that varietal development is driven by the market and demands of producers. As we continue these consultations, I would encourage you to subscribe to our newsletter at [seedalberta.ca](http://seedalberta.ca) to learn more and stay on top of the latest developments.

To wrap up, I want to say that I have really enjoyed my time as president of this great organization. As I finish my term, I have to say that I have never been more confident about where we are headed. Everywhere I go, I am so inspired by how engaged our growers are and what they envision for the future of this industry.

Thank you for your support. Don't be a stranger!

Regards,

**Ward Oatway**  
**President**

Alberta Seed Growers







HECTOR OUELLETTE



**FIRST, I WOULD** like to thank all the people that attended the Alberta Seed Processors AGM in Edmonton in mid-January. The people that invest time and energy into the many farm organizations in this province drive the industry forward.

This edition of the *Alberta Seed Guide* is all about Getting Field-Ready — Putting Seed First.

Currently there is a LOT of chatter in the industry regarding possible policy changes relating to how seed breeding is funded. Typically, the topic of seed breeding funding, especially in the cereal sector, would not even reach the door of the coffee shop or twitter post. Now that the conversation has started, I think we can all look forward to a higher understanding on the path of a seed variety from the plant breeder's germplasm bank to the actual seed that is planted on farms right across Canada. An increased focus on seed and the relatively invisible industry that drives it should help build an understanding of a path forward for the future.

However, by the time this magazine hits the postal system, some Alberta farmers could be anywhere from 60 to 90 days from seeding. Hence, regardless of the policy discussions that are occurring, we all have to get Field-Ready. Managing the numerous decisions and preparations that go into seeding a crop, securing your seed supply is job no. 1.

Much of Alberta suffered from an extended harvest season that may have had a negative impact on seed quality. Seed quality goes much deeper than just a visual check. Here in Alberta, all

seed should be getting a germination and fusarium test as a bare minimum. Many of the seed labs offer additional services such as 1,000 kernel weight, vigor analysis and total disease screening for a complete seed health checkup. Let's be SeedSmart: use a seed test to plan your success.

If you are using farm-saved seed, booking your seed cleaning and treating through your local seed processing facility early is key to managing logistics. In the past year, Alberta seed processors handled over 41 million bushels of seed and grain. To handle this volume, many plants are operating multiple shifts to get the job done. Booking early helps the plants to run efficiently.

Sourcing pedigreed seed also takes planning. If you are updating your seed, or changing varieties, talking to your local seed supplier early is imperative. A few of our co-op seed processors offer distribution services for local seed growers as well as seed companies.

Whether you are purchasing seed or cleaning some farm-saved seed, planning your seed supply ahead of time is the first step to success.

Hope you enjoy our latest edition of the *Alberta Seed Guide*.

**Hector Ouellette**  
**President**

Alberta Seed Processors







MINISTER CARLIER

ON behalf of the Government of Alberta, it is my pleasure to extend greetings to the readers of the *Alberta Seed Guide*. While the agricultural industry works hard year-round, this edition's theme — *Start Your Engines* — highlights the importance of the spring season to our province.

Alberta's agricultural sector is key to building a strong and diversified economy, generating more than \$10 billion in exports annually. Additionally, our agri-food sector employs more than 89,000 people across the province.

Alberta producers, processors, industry organizations and businesses ensure our province maintains its well-earned reputation as a reliable supplier of high-quality agricultural products. This biannual publication is an important resource helping them stay connected and up-to-date about the latest developments in crop science and agricultural practices that result in enhanced quality and efficiency of production.

I would like to extend a special thank you to the Alberta Seed Growers and the Alberta Seed Processors for their continued advocacy on behalf of the agricultural sector.

My sincerest wishes for your continued success.

**Oneil Carlier**  
**Minister**  
Agriculture and Forestry

# Alberta Seed Guide

Spring 2019



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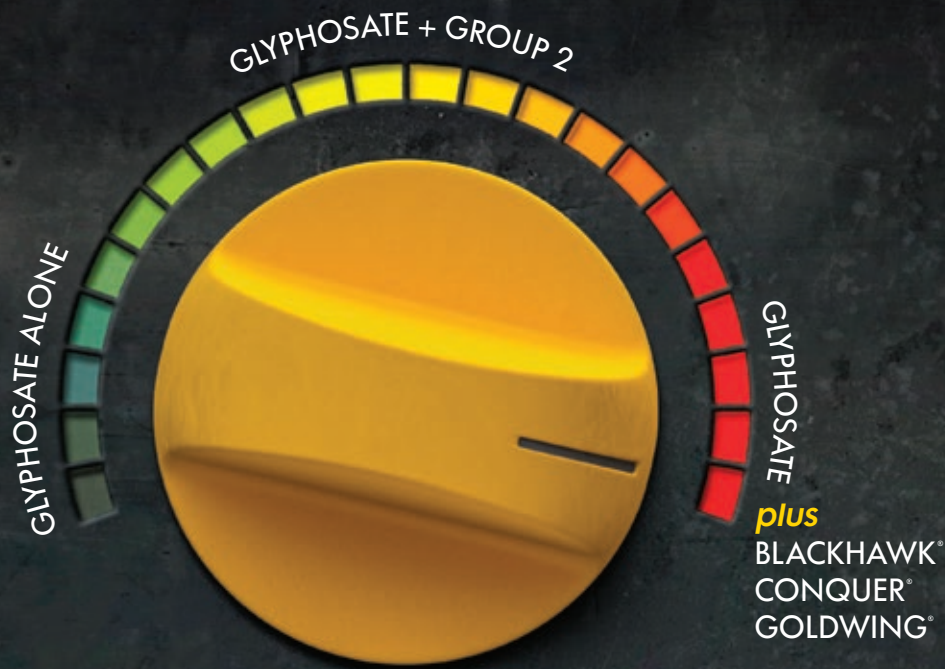
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# Farm Safety is No. 1 Priority

AgSafe Alberta Society provides a full slate of safety training.

**SINCE ALBERTA'S BILL 6**, *The Enhanced Protection for Farm and Ranch Workers Act*, came into effect on Jan. 1, 2016, one organization — AgSafe Alberta Society — has been working diligently to develop and deliver farm safety management tools, resources and programs for farmers and ranchers.

According to Jody Wacowich, the overall goal of AgSafe Alberta is to empower farmers and ranchers to integrate practical safety management programs into their everyday operations, in order to prevent illness and injury for everyone involved on the farm.

"Currently in agriculture we lose an average of 18 people per year in Alberta to fatalities," she said. "There aren't any other industries that have numbers that high. We'd like to see everybody get home safely at the end of the day."

Prior to the *Enhanced Protection for Farm and Ranch Workers Act*, Alberta was the only province without comprehensive health and safety laws for farm and ranch workers.

AgSafe Alberta develops programming and additional resources to help farmers and ranchers implement the rules. According to Wacowich, AgSafe works with commodity groups, agriculture societies and agriculture service boards to assist them in getting the ag safety message out to farms and ranches across the province.

"We currently have three advisors who do a number of things — they can visit a farm and go over a hazard assessment, they can help design a safety plan, and they can put on workshops, anything from an introductory informational workshop to a couple of hours of focusing on a specific part of safety, such as hazard assessment," she notes.

On Dec. 1, 2018, technical rules for workplace health and safety, developed in collaboration with farmers and ranchers, and with the consensus of the AgCoalition, went into effect on Alberta farms and ranches, including some provisions unique to the agriculture sector.

It's important to note that Bill 6 affects only Alberta farm and ranch producers with waged workers who are not the owner or related to the owner. This means family members can still participate in farming operations as they always have, and neighbours can still volunteer to help each other out.

Wacowich says farms without employees can still learn a lot by attending a safety workshop and/or having an AgSafe advisor visit the farm. "I think even for family farms that don't have employees, it's a great place to have a conversation. How are 'we



Photo courtesy of AgSafe Alberta.

AgSafe Alberta recently received funding from Alberta Labour to assist in building resources to continue their programming work. Maria Champagne, AgSafe Alberta advisor, speaks with a producer about hazard assessments.

as a family going to mitigate accidents?' And, 'these are the steps everybody will take when we go to do something so that we make sure nobody gets hurt.'"

Even once all family members are clear on the safety "rules" of the farm, the same can't be said for visitors. Wacowich says part of the conversation is knowing how to communicate farm safety rules to anyone who visits, especially when it involves children.

"So, we're going to say the lagoon is off limits, we don't want anybody around there. Your kids know that, but one day your kids have friends over and they say, 'hey, this is a great big place to roam around, let's play Mantracker,'" says Wacowich. "Now, who tells these guests what the rules are? It's a great opportunity





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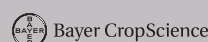




Photo courtesy of AgSafe Alberta.

AgSafe works with commodity groups, agriculture societies and agriculture service boards to assist them in getting the ag safety message out to farms and ranches across the province. Donna Trotter, program director with AgSafe Alberta, is set up at a field day, ready to speak with producers.

to have some conversations about how to handle things like that on the farm.”

Wacowich admits there is still some learning to do, but people are having more conversations and are more open than they were a few years ago.

“This is partly because the legislation came in and the farms with employees had to look at putting those pieces in place,” she says. “The media, too, has helped in the sense that they’ve reported on more information about incidents on the farm that are happening ... we’re hearing more about it and people are thinking a little bit more about it.”

AgSafe Alberta recently received funding from Alberta Labour to assist in building resources to continue their programming work. Some of this work includes an online training portal which may include WHMIS training tools, orientation pieces, tractor safety materials, etc.

Future work includes integrating follow-up with farmers and ranchers. So, circling back to those who’ve taken some AgSafe Alberta training and revisiting to determine if more training and/or explanations are needed. And to provide reminders to family farms and ranches that safety is a number one priority.

To assist farmers and ranchers, the Alberta government launched a grant program in October 2018 to help producers with the cost of improving safety on their farms. The program provides up to \$10,000 per recipient to help Alberta farmers and ranchers with waged non-family workers implement health and safety practices and procedures that make their work sites safe for their workers, their families and themselves.

**“Currently in agriculture we lose an average of 18 people per year in Alberta to fatalities. There aren’t any other industries that have numbers that high. We’d like to see everybody get home safely at the end of the day.”**

— Jody Wacowich

The grant covers up to 50 per cent of eligible safety expenses to a maximum of \$5,000 per year or \$10,000 over the life of the program per eligible applicant. Expenses going back to Jan. 1, 2018, are eligible under the program.

Eligible expenses (with receipts) include things such as first-aid kits, fire extinguishers and warning signage; respirators, eye and hearing protection; health and safety programs, courses, education and training; and seatbelt installation, warning lights and auger guards to improve equipment safety.

The program runs until March 2021. **Janet Kanters**





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# USE THE RIGHT SEEDING RATE THIS SPRING

Higher cereal seeding rates can provide many benefits.

**AS SEEDING** season draws near, it's worth taking another look at seeding rates in cereals.

According to Sheri Strydhorst, agronomy research scientist with Alberta Agriculture and Forestry (AAF), simply put, higher seeding rates equals higher plant populations. And that, in turn, equals more main heads and less tillers.

"The real benefit is increased uniformity in your plant population across your field," she says. "When you have more plants, they have fewer tillers and that means all of those heads will be at the same growth stage."

This increased uniformity leads to everything flowering at the same time, making fungicide applications easier, presenting a shorter window for pests such as wheat midge, and less infection time for diseases such as ergot or Fusarium head blight.

"If we have early-season disease or frost or insect damage, having more seeds allows you to make sure if some of those are lost in the spring, you're not at a critically low plant population," notes Strydhorst. "The other thing is increased competition with

weeds. As we get more and more herbicide-resistant weeds, we need to depend on agronomic tools from the system, not just herbicides. The more plant competition you have from your crop, the better your herbicides are going to work."

Brian Beres, research scientist with Agriculture and Agri-Food Canada at Lethbridge, has conducted scads of seeding rate work on spring and winter wheat. He says besides potential for higher yields, there are secondary benefits that come into the mix. For instance, wheat's competitive ability.

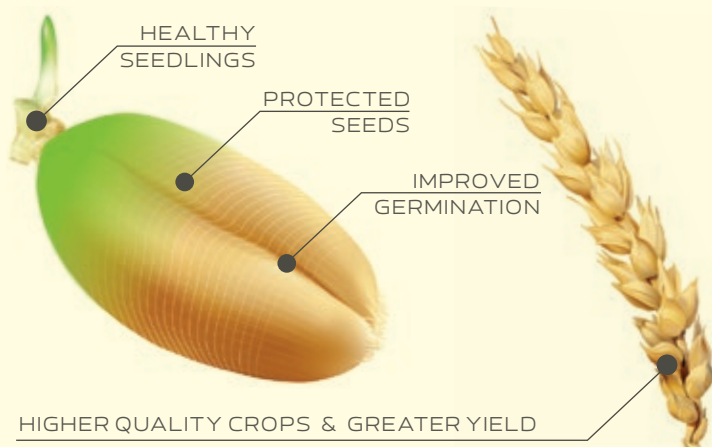
"We conducted multiple studies on winter wheat and were able to show how important higher seeding rates were in managing weed competition which is significant as you achieve early canopy closure with high plant populations," he says.

"The result is better control of weeds. Also, a key feature of high seeding rates is replacing those secondary tillers with more main stems per unit area, resulting in a much more uniform crop stage, so you get higher fungicide efficacy. This is also likely to shorten the flowering period as well as days to maturity, so the





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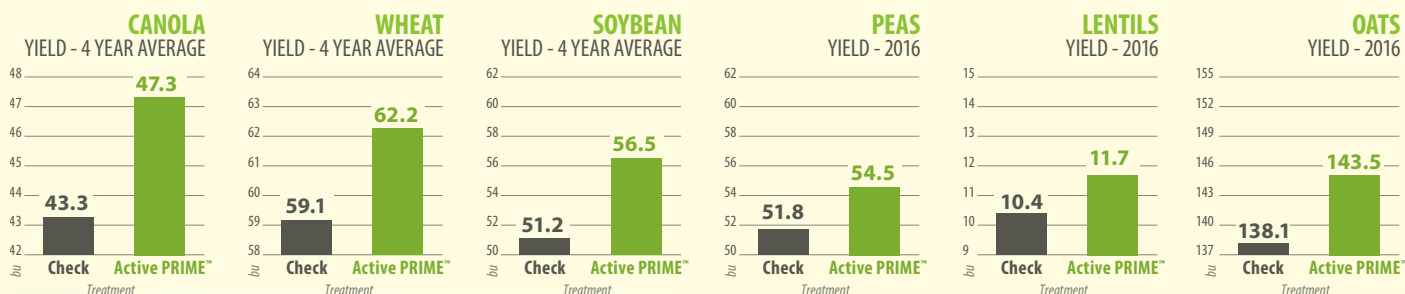


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grower is going to be able to harvest earlier, and as we found last fall, can be an important asset.”

Beres says his emphasis is shifting from the practice of thinking of seeding in terms of a volume or a bulk per unit area, to a spatial density per unit area. So, seeds per square metre or per square foot. “The problem is that the ‘bushels per acre’ rule of thumb resulted in a lot of plant stand variation from one class of wheat to another because kernel size, shape and weight varies considerably and more so now, even within classes, given that kernel visual distinguishability has been phased out as of 2008,” he says.

“For example, we had many growers back in the old days who, even with winter wheat, went at about 200 seeds per sq. m., or 20 seeds per sq. ft. We were able to show that that needs to be up around 450 seeds per sq. m. We were able to show with those high-yielding classes such as durum or the high-yielding varieties within CWRs, they could withstand the higher density and not lodge.

“As a starting point, the ‘sweet spot’ for winter wheat would be 450 seeds per sq. m.; and for springs across the board, 400 seeds per sq. m., but some high-yielding, strong-strawed spring varieties are definitely going to respond to rates higher than that as well.”

No matter your variety of wheat, Beres stresses the importance of ensuring a good germination rate and good vigour. But equally important is calibration.

“Growers need to think about planting spatially per unit area, such as 40 to 45 seeds per sq. ft., and that they know what their



Sheri Strydhorst is an agronomy research scientist with Alberta Agriculture and Forestry.



Brian Beres is a research scientist with Agriculture and Agri-Food Canada.

kernel weight is,” he says. “The kernel weight can alter what they think their planting is, it’s pretty significant.”

Strydhorst agrees. “To achieve 40 seeds per sq. ft., a seed lot with a thousand kernel weight of 37 g/1000 seeds will require 142 lbs seed/ac compared to a seed lot with a thousand kernel weight of 41 g/1000 seeds which will require 157 lbs seed/acre.”

Growers can use Alberta Agriculture and Forestry’s Cereal Seeding Rate Calculator ([www.agric.gov.ab.ca/app19/loadSeedRateCalc](http://www.agric.gov.ab.ca/app19/loadSeedRateCalc)) to assist them with these calculations.

**Janet Kanters**



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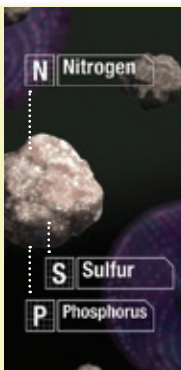
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Up to 60 percent of canola yield depends on soil fertility. That means the commitment to and focus on balanced crop nutrition is more important than ever. Choosing the right fertilizer is critical. But choosing the right fertilizer that offers multiple nutrients and maximizes yield is a good investment.

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Built on more than 10 years of research, The Mosaic Company's line of premium fertilizer products, including MicroEssentials S15, provides a balanced combination of nutrients. Each granule of MicroEssentials S15 (13-33-0-15S) contains nitrogen, phosphorus and sulfur to ensure the right balance of nutrients is available to the plant. The MicroEssentials-patented Fusion® technology provides the most efficient delivery of crop nutrients on the market, and can be part of your customized fertilizer plans.

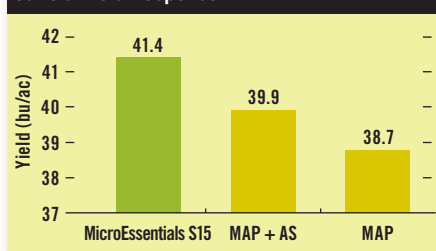
### The Benefits of MicroEssentials S15

Each granule of MicroEssentials S15 is the same, so when it is applied, the nitrogen, phosphorus and sulfur are all delivered at a uniform rate across the field. This means each plant has the right level of key nutrients available to it. MicroEssentials S15 eliminates the risk of nutrient segregation, as can happen with traditional blends, and has demonstrated superior seed safety compared to conventional P and S fertilizers.

The unique technology used to develop MicroEssentials S15 also gives every granule an identical chemical makeup that promotes interaction between the different nutrients, which in turn encourages nutrient uptake. MicroEssentials S15 also balances the pH around each granule in the soil, allowing increased phosphorus uptake across diverse soil conditions.

Sulfur is another nutrient critical to strong canola yields, and is required throughout the entire growing season. However, sulfur is relatively immobile in the canola plant, so two types of sulfur are recommended

### Canola Yield Response



**MicroEssentials S15 outperformed MAP + AS by 1.5 bu/ac (3.6%) and MAP by 2.7 bu/ac (7%), on average, across all locations.**

This data represents a summary of field studies conducted by university and/or third-party independent researchers in replicated small-plot trials completed from 2004–2013. Averages for each treatment are based on a balanced data set of 56 separate trials. Nutrient rates were balanced between treatments each year, with rates ranging from 33–40 lbs P<sub>2</sub>O<sub>5</sub>/ac.

to ensure season-long availability. MicroEssentials S15 contains both sulfate, which is used as canola begins to grow, and elemental sulfur, which breaks down in soil over time and is therefore available for the later stages of growth.

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# DAMAGE CONTROL

Canadian pulses continue to be scooped up by consumers in this country and many other parts of the world. While that's good news for producers in Canada, they do come with some risks including potential mechanical and handling damage that can be done to pulse seed.

**THEY MAY NOT** rank up there with the likes of The Tragically Hip or maple syrup, but it could be argued that Canadian pulses rank among this country's greatest national treasures.

Pulses represented approximately six per cent of the total field crop area in Canada in 2011 according to Census of Agriculture statistics. In addition, pulse area and production has significantly increased in Canada since the 1980s, making the country one of the leading producers and exporters of pulses in the world. The numbers in Alberta are equally impressive, where a total of 2,363 farms (19.5 per cent) grew pulses in 2011 and planted just over 348,000 hectares of yellow peas, lentils, faba beans, chickpeas and other pulses that year.

But like any treasure, pulses need to be properly handled in order to reduce the risk of potential harm. That's especially true when it comes to pulse seed, according to Nathan Gregg, program manager of applied agricultural services for the Prairie Agricultural Machinery Institute (PAMI), one of the leading research agencies for testing and evaluating farm machinery in Canada.



Nathan Gregg is program manager of applied agricultural services for the Prairie Agricultural Machinery Institute.

Gregg says one of the challenges with pulse seed is that it's often larger than many other types of seed which can make it more susceptible to harm, including mechanical and handling damage. Complicating matters is the fact that some of that damage may not be visually discernable, but rather sub-surface hairline cracks or internal fractures which may affect its ability to absorb water and other internal germination processes.



Nevin Rosaasen is a policy and program specialist for the Alberta Pulse Growers.

## Larger Seed, More Surface

"It's a larger seed which might lead you to think it's more robust and tough, but what ends up happening is that it gets some additional pinch points that other smaller seeds wouldn't [have] so it sustains [more] damage in some of the mechanizations we have in auger flighting and things where there's moving parts," Gregg says. "Due to its size, it's exposed to some of those impacts and pinch





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INSURE CEREAL FX4 fungicide seed treatment should be used in a preventative disease control program. © 2018 BASF Canada Inc.

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points that otherwise wouldn't affect smaller seed."

In addition, Gregg points out that the genetic makeup of pulse seed — including factors such as seed coat thickness or elasticity, oil content and starch cellular structure — is another issue and can make it more susceptible to impact damage, especially depending on moisture content.

What exactly does that mean for pulse growers here in Alberta? The simple answer is potentially less money in their pockets. Any seed damage can lead to a lower quality crop which in turn can lead to deductions and discounted prices of as much as 30 per cent, both domestically and internationally.

"It's very important for producers to try and minimize the amount of cracked seeds that they have and also splits," says Nevin Rosaasen, a policy and program specialist for the Alberta Pulse Growers (APG).

### Potential Price Reductions

"Splits and cracks ... result in price reductions as dockage and they're not getting paid for the whole seed or it results in quality downgrades. The price difference is always fluctuating. It's similar to the protein market in wheat. If you have nice quality peas or beans you can usually negotiate a better price. If you have too many cracks in the seed coat you will be discounted."

Another concern is that cracked or damaged pulse seed can also mean more plant material finding its way into the seed, which can lead to an increased risk of disease such as mould or fungus.

So, what can pulse growers do to prevent or mitigate damage to seed? Gregg says the most common piece of advice he offers to growers is to reduce exposure to any potentially damage-causing incidents, and limit their severity, whether its rotating mechanical parts, impact from high drops or just gravity acceleration.

"In simple terms ... avoid overhandling these types of crops. If you can put [the seed] through an auger once instead of twice or directly into the truck and skip the grain cart or different things like that



Photo courtesy of APG.

Alberta Pulse Growers, in conjunction with Lakeland College Applied Research, now offers a Pulse Agronomy Field School.

**"It's very important for producers to try and minimize the amount of cracked seeds that they have and also splits."**

— Nevin Rosaasen

where you introduce the opportunity for damage to occur, do it," he says.

Rosaasen agrees and says that's especially true for a pulse crop like peas. He recommends growers slow down the speed of any auger they might use and keep it covered with grain at the bottom to help minimize the amount of cracks caused to the seed. In fact, he says a

growing number of farms are switching to conveyor systems to reduce the risk of damaging seed or grain.

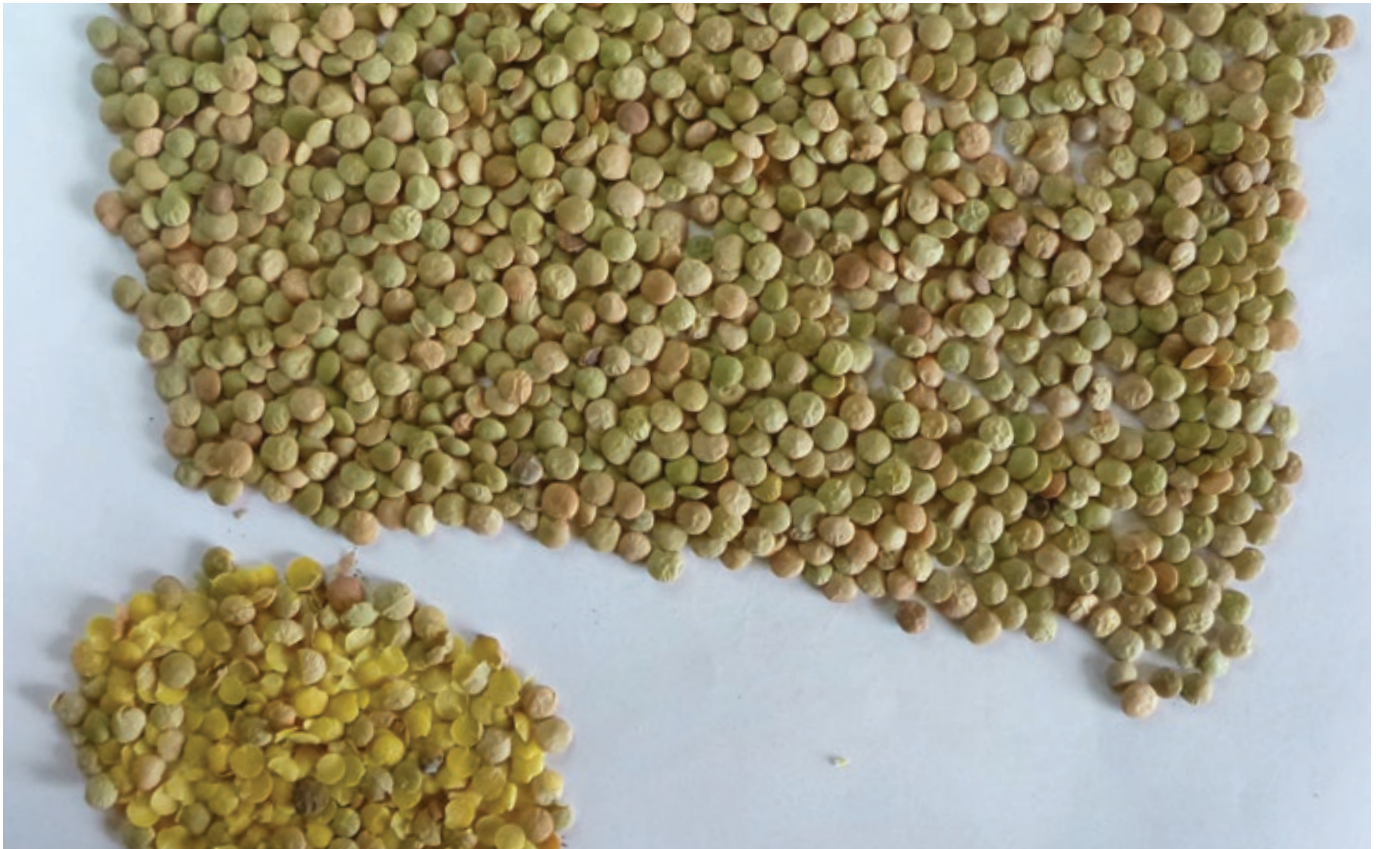
### A Gentler Option

"Many producers have moved to conveyor augers which are more costly but they use a conveyor belt system rather than a corkscrew auger which is the conventional way of moving grain. They're more costly but they're very gentle and they handle pulses very nicely," he says.

Another key factor to consider with pulse seed is moisture content, which can be something of a double-edged sword: too high a moisture level can lead to damage while too low a level can be equally problematic.

"We don't necessarily understand it that well but anecdotally we can see a difference in the amount of damage sustained by these crops just based on moisture content," says Gregg. "There's kind of a sweet spot in terms of





The most common piece of advice Gregg offers to growers is to reduce exposure to any potentially damage-causing incidents, and limit their severity, whether its rotating mechanical parts, impact from high drops or just gravity acceleration.

acceptable moisture where your chances of damaging that seed are minimized. Producers can try to cater their operations and their handling processes to that.”

That includes storing the seed. Moisture is almost unavoidable as grain or seed cools down inside a bin in the winter and dampness circulates down from the sides of the bin and up through the centre of it. Rosaasen stresses that while it’s a challenge, it’s not an insurmountable one. “You’ll always get some moisture issues within bins because you’ve got those warmer sides,” he says. “That’s why it’s important to move your grain. Make sure that you have the ability to aerate and put air or wind through the grain that keeps the moisture moving out of the top of the bin and not allow it to build in spots.”

Another important quality factor to consider is something referred to as earth tag. That is when dust or even natural fungus breaks down plant material and adheres to the seed coat. In the case of yellow or green peas, it can show up as a

slight discolouration on the seed coat. It often occurs when pea plants have been laid down by strong winds or a heavy rainfall. The bad news, Rosaasen says, is that it’s virtually impossible to clean off of seed.

Gregg says one of the simplest, and most effective, ways of preventing mechanical or cleaning damage to pulse seed is for growers to examine their entire production chain to see where it can or does occur and determine what can be done to reduce or eliminate any damage.

### Analyzing your Processes

“Analyze your processes so that you are aware [of potentially damaging operations]. Some things you can’t avoid but there are things you can do to minimize exposure to damage-causing incidents. Monitor your operation and try to cater it to the best outcome,” he adds.

APG has recently stepped up its efforts to provide growers in the province with information on what they need to know

when it comes to pulses. In conjunction with Lakeland College Applied Research it now offers a Pulse Agronomy Field School that caters to producers who already grow pulses as well as those who haven’t done so in a few years and offers information on everything from basic agronomy topics to seed treatment for pea leaf weevil management.

It’s also partnered with the Alberta barley, canola and wheat commissions as part of Making the Grade, a hands-on, one-day grading course for farmers and others employed in the agricultural sector. As part of the course’s pulse grading section, farmers are provided with information on techniques and best management practices to minimize splits, cracks and other quality concerns to maximize the value they receive for their pulse crops.

“We’ve had excellent feedback and demand for more workshops,” Rosaasen says. **Jim Timlick**



# Fighting Fusarium Head Blight

There's a new tool available to Alberta cereal producers that assesses the risk of the disease turning up in their fields.

**CEREAL GROWERS IN** Alberta have a new weapon in the fight against fusarium head blight (FHB). It's an online risk assessment tool that helps farmers and agronomists decide whether to apply fungicides based on the likelihood of the disease turning up in their area.

Brian Kennedy, grower relations and extension manager for the Alberta Wheat Commission (AWC), says the tool was launched in the summer of 2017 following requests from wheat producers in the province.

"They had been seeing fusarium risk maps from Manitoba and Saskatchewan ... and they asked us to develop something," he says.

The tool was developed for the AWC by numerous partners, including Ralph Wright and Pavel Pytlak from Alberta Climate Information Services, plant pathologist Michael Harding and crop specialist Neil Whatley from Alberta Agriculture and Forestry, and Agriculture and Agri-Food Canada plant disease researcher Kelly Turkington.

"We've been lucky [in that] we've had a couple of years with lower fusarium head blight, but because this is a weather-related disease, growers need to be aware of it and manage their risk by following best management practices every year," says Turkington.

"This was really to get something out and available to producers, so they can start looking at gauging the potential risk of fusarium head blight based on weather conditions."

Turkington says while FHB is a relatively new disease in some areas of the province, the disease risk is more widespread in Alberta than it was a decade ago.



Fusarium head blight damage in wheat.

Photo courtesy of Kelly Turkington.

"The pathogen has become more frequently found not only in southern Alberta, where it causes production issues and downgrading and so on, but also outside of that region," he says.

"We're at a point now that in a number of areas in Alberta, producers are not so much concerned about introducing the pathogen as they are about effectively managing it so that the impact on yield and especially grade and also mycotoxin contamination is mitigated as best possible."

## Weather Station Data

The FHB risk assessment tool works by pulling data from weather stations across Alberta to provide a localized risk warning gauge.



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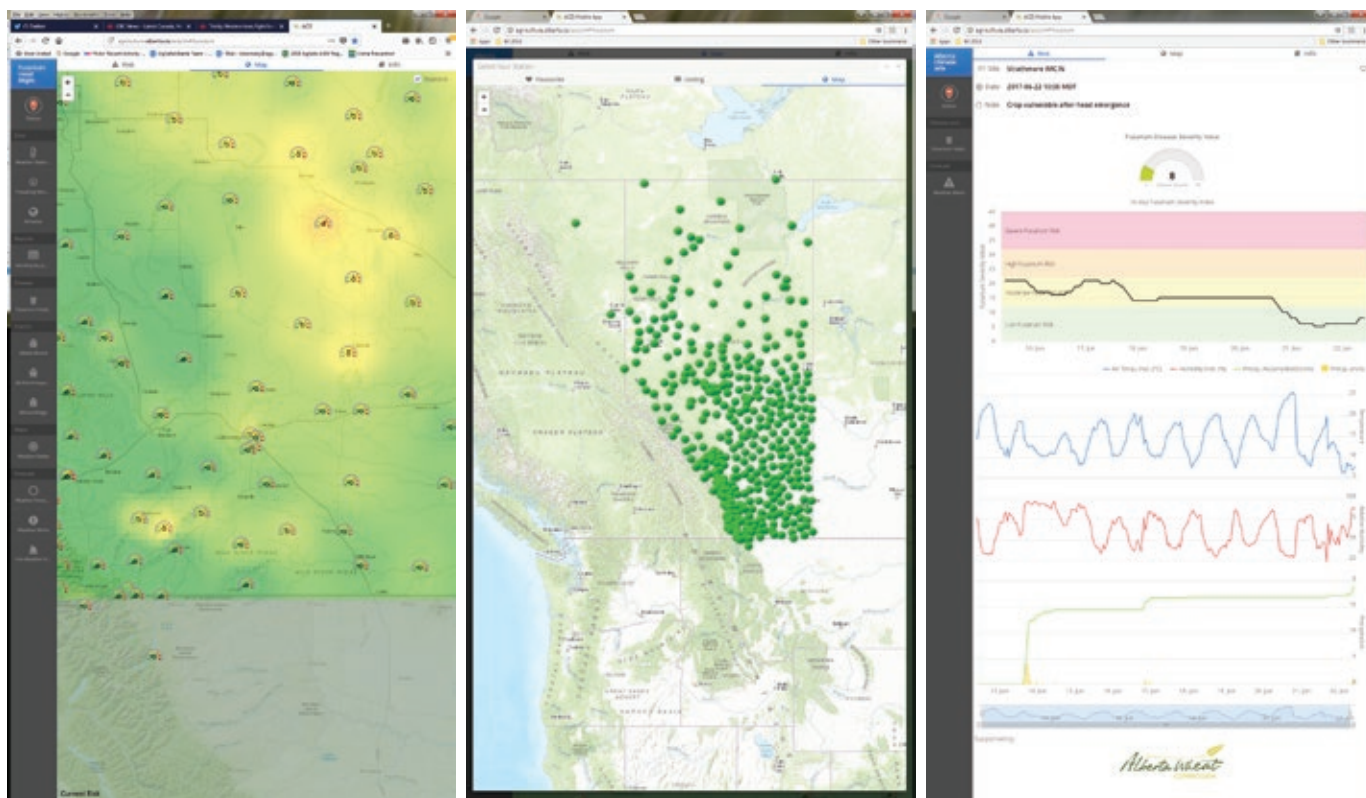


	CLASS	Strong Standing	Semi Dwarf	Grain Protein	Easy to Harvest	Midge Tolerant	Disease Resistance
AAC Elie	CWRS	√√√√	√	√√√	√√√√		√√√√
SY Rowyn	CPSR	√√√	√	√√√	√√√		√√√√
AAC Redberry	CWRS	√√√√	√	√√√√	√√√√		√√√√
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Screen shot images from the fusarium head blight risk assessment tool. Images courtesy of the Alberta Wheat Commission.

**“A farmer can look at the weather station closest to their field and keep an eye on that, and when they see that it is high risk and their crop is in the floret stage when it’s liable to be infected, then they can make a decision on whether or not to apply a fungicide.”**

— Brian Kennedy

This data consists of nearly 130,000 hourly weather observations that Alberta Climate Information Services collects every day from over 370 stations provincewide.

“We think it’s a great use of the data that the weather stations are collecting,” says Kennedy.

The disease severity is calculated on a Manitoba FHB risk assessment model that’s based on air temperature, relative humidity and rainfall over the previous seven days. The Alberta tool is active between June 1 and August 15 each summer, the time when a wheat crop is most susceptible to FHB infection and corresponding losses, both in terms of yield and quality.

The tool, which is designed to be viewed on mobile devices, can be found at [agriculture.alberta.ca/acis/fusarium-risk-tool.jsp](http://agriculture.alberta.ca/acis/fusarium-risk-tool.jsp). The website also includes best management practices for controlling fusarium head blight.

To access the FHB risk gauge, users click on a red pin in the top left corner which opens up a map of Alberta with all of the weather stations marked with a green dot. They can then zoom in and click on the green dot closest to their field, which then brings up the risk gauge for that location.

“A farmer can look at the weather station closest to their field and keep an eye on that, and when they see that it is high risk and their crop is in the floret stage when it’s liable to be infected, then they can make a decision on whether or not to apply a fungicide,” says Kennedy.

Turkington says for some producers, “having this additional piece of information provides some peace of mind.”



Kennedy points out that wheat farmers who apply fungicides regularly to guard against FHB infection can save money with the tool by not having to spray as often. By only spraying when the FHB risk is highest, he says, "this also mitigates the risk of resistance building up in the fungus."

Kennedy says he has heard good things about the FHB risk assessment system from growers across the province. "They see it as a useful tool."

Kennedy cautions that weather isn't the only consideration when assessing FHB risk. Farmers need to be aware of other risk factors such as:

- The stage of the crop
- The level of fusarium infestation in their area
- The susceptibility of the variety seeded
- If the seed was infected with fusarium
- If a seed treatment was used
- The history of the crop rotation in the field
- Past stubble and straw management practices

### New Features

Kennedy says the system's developers chose a mobile friendly website rather than an app as a platform for the tool to make it easier to use.

"The advantage for users is they don't have to install something on their mobile device. We tend to get a lot of apps on our

devices that are always updating or sending us reminders, which leads to a lot of them being deleted. So, if this is added to their favourites on their browser on their phone, they can look at it at any time without having to install any software," he says.

Kennedy notes that a number of new features were added to the tool this past growing season, including pest management recommendations and risk assessment maps for alfalfa weevil, bertha armyworm and wheat midge.

Data related to growing degree days and corn heat units was also added in 2018, and there are discussions about adding more features in 2019, Kennedy says.

According to Turkington, the hope is to update the model for weather predictions in the risk calculations for fusarium head blight.

"The models are continually being refined," he says. "If you look at some of the recent risk maps in the United States, they're starting to focus now on mean relative humidity over the previous 14-day period, but it was felt we could start with the model version currently being used in Manitoba, at least in the initial phases of the project and then update as needed."

Kennedy says more work needs to be done across the entire Prairie region to ground-proof the disease risk assessment models for Western Canada, and that it'll take a couple of years of scientific study to incorporate weather forecasts into the Alberta FHB tool. **Mark Halsall**



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# RETAILERS, GROWERS PROTECT MIDGE TOLERANT WHEAT

**AS MORE MIDGE** tolerant wheat varieties become available to help Alberta growers defend against the orange wheat blossom midge, protection of *Sm1* — the one and only midge tolerance gene — is increasingly important. Proper stewardship takes the combined effort of retailers and growers to ensure the technology remains viable well into the future.

Lee Markert has been growing certified midge tolerant wheat seed on his 5,000-acre pedigreed seed farm near Vulcan since its launch in 2009. His success is two-fold with the specific varieties — strong yield and natural midge tolerance through the *Sm1* gene.

The dual attributes are attractive to Markert, who is also an advocate of the midge tolerant wheat Stewardship Agreement. “I think it’s absolutely necessary,” he says of the agreement that requires retailers and growers to use the technology responsibly.

“As we see certain resistance breakdowns in agriculture, it’s very important to be cognizant of what could happen if we aren’t concerned with the resistance. The Stewardship Agreement had the right mindset from the beginning.”

The agreement, which has been in place since the launch of midge tolerant wheat, went online for the 2018 growing season. The first year for tracking the movement of certified midge tolerant wheat seed from production to the farmer with a web-based system has proven to be a success. The Midge Tolerant Wheat Stewardship Assurance Site (MTWSAS) is used by seed distributors, seed retailers and seed growers to create electronically signed Stewardship Agreements and to post sales transactions.

## Use It (Properly) Or Lose It

In order to sell Midge Tolerant Wheat seed, retailers must complete an online training program, which takes about 20 minutes, and sign a Retailer Agreement. They must also make



Lee Markert grows certified midge tolerant wheat seed on his 5,000-acre pedigreed seed farm near Vulcan, Alta.

sure the growers they are selling to have signed an agreement and understand their responsibilities. Limiting the use of farm-saved seed to one generation past certified ensures that the refuge stays at an effective rate; the refuge in farm-saved seed may change substantially over multiple generations and not provide adequate protection. By adhering to the refuge system, research scientists estimate it will take between 90 and 100 years for resistance to break down.



For Markert, this education is critical to his customers and he doesn't mind spending extra time to tout the benefits.

"Farmers are generally striving to be good stewards of the land and industry," he says. "The issue of midge is an educational disconnect only because some have never dealt with resistance in the past. It's pretty easy to get across the importance of the *Sm1* gene to the vast majority of growers. If we don't preserve it, we could lose it forever. The ramification could be pretty devastating, especially in certain geographies in Canada."

Agreements for both retailers and growers are digital and evergreen, meaning a person only must sign once and that will allow them to purchase midge tolerant wheat varieties now and in the future without going through paperwork every time. In addition, retailers can track sales online through the MTWSAS. As an added benefit, the retailer training is also approved for CEU credits by Certified Crop Advisors as well as the Alberta Institute of Agrologists.

### Growers Value Stewardship Agreement

One of Markert's customers is Elaine Bellamy who farms 10,000 acres near Strathmore in Wheatland County. For her, planting such midge tolerant wheat varieties and adhering to the Stewardship Agreement makes good sense.

"There's value because I am eliminating the use of a pesticide on my grain and a cost I could possibly face," she says. "It's also really difficult to scout for midge because the window is so narrow. If you're out at night and the wind is blowing you won't see them, and if you have many fields you won't get to them all in time."

For Bellamy, she hasn't had serious issues with midge since 2009, and she intends to keep it that way. After all, the technology could be rendered ineffective if not properly handled by farmers. Her hope is that other farmers will follow midge tolerant wheat protocols for agronomic and business reasons.

"There's just so many risks to farming, if you can mitigate one of those risks at a minimal cost, why wouldn't you?" she says.

For more information about midge tolerance and the Stewardship Agreement, visit [midgetolerantwheat.ca](http://midgetolerantwheat.ca).

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Photo courtesy of Seed Check Technologies.

# Quality Matters After a Hard Harvest

After the harvest of 2018, should growers use saved or certified seed in 2019?

**IT WAS A** hard harvest in Alberta in 2018. Due to the wet, cold and snowy conditions in September and October, there were estimates that more than five per cent of all crops had yet to be harvested at the beginning of November.

After a hard year, bin-run seed may be tempting — it's still sometimes used by Alberta producers. Although it may seem to be the best option, especially in terms of cost, is another look at that choice needed?

First, let's examine the March 2018 report called *Overview of Certified Seed and Farmer Saved Seed* released by the Economics and Competitiveness Branch of the Government of Alberta. "Farmers saving seed is cost-effective almost all the time," the authors state. "However, they are increasing their risks of reduced yield

due to decreased seed genetic purity and tolerance to drought and disease to name a few."

The authors add, individual farm assessment aside, producers "can generally price in about a \$3.75/bushel price premium [in wheat] for access to new genetics, increased tolerances and convenience of purchasing certified seed," and "when commercial prices are stable, the seed costs are often less than the \$3.75/bushel threshold."

Saved seed must be cleaned and treated, and often germination tests are required. Quality can vary greatly. Certified seed has a risk-assurance program included with purchase, assuring growers the seed has met very high standards for quality and varietal and mechanical purity, which is verified through third-party analysis.

## Current Use

As is commonly known, use of certified seed verses saved seed varies by crop kind. "I expect in Alberta and most of Canada, hybrid canola, for example, is almost exclusively grown from certified seed," says Roy van Wyk, executive director at the Canadian Seed Institute.

This is confirmed in a recent JRG Consulting Group and SJT Solutions report for the Seed Synergy Collaboration Group called *Canada's Seed System: Economic Impact Assessment and Risk Analysis*, which estimates the use of certified seed as a percentage for a number of the major crop kinds.

The report states, "The highest usage occurs in Eastern Canada, with over 50 per cent of wheat acreage planted with certified seed. In Western Canada, use





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of certified seed can be as low as 13 per cent as is the case with durum wheat. Use of certified seed in Quebec is much higher due to the requirement that any crop insured acreage must be sown with certified seed.... For soybeans and canola, acreage seeded with certified seed can range between 95 per cent and 100 per cent across Canada, due to technology use agreements."

Morgan Webb, senior accredited seed analyst with Seed Check Technologies in Leduc, Alta., says hybrid crops like canola and corn have an extremely high percentage of certified seed use. Additionally, forage crops have a high percentage of uptake in pedigreed seed, he says, and "there has been a swing towards using pedigreed seed in peas, cereals, and soybeans as fantastic new varieties hit the market."

From 1970 to the 1990s, Randy Preater, a former manager and now advisor with the Canadian Seed Growers' Association, has only ever used saved seed for growing his on-farm feed barley when he farmed near New Liskeard, Ont.

"There really wasn't as much economic incentive to buy high-quality seed of a new variety in that situation with low input costs, and I had a trusted seed cleaner in my neighbour," says Preater. However, his canola and pearl barley contract crops were planted with certified seed, in addition to some other crops. "For my alfalfa-timothy-brome hay crops, I also planted certified seed to make sure I was getting germination and purity or weed seed guarantees, and a variety well adapted to local conditions with a high tolerance to winter kill.

"I think the potential variation from year to year is a very important consideration when looking at using saved seed. Seed quality can be all over the map from one year to the next due to many factors, especially harvest weather," says Preater. "It's a business decision that has to be costed out, but with today's higher input costs, I think major yield improvements and disease resistance are very important factors. Even for self-pollinated crops, there is also a real risk of reduced



Purchase of certified seed supports the innovation and development of new traits and varieties.

Photo courtesy of Seed Check Technologies.



expression of the valuable traits of a variety over several generations of using saved seed.”

### First-Hand Look

In his long, first-hand experience, Webb says he hasn’t seen the quality of certified or saved seed change much over time. “Certified seed quality has had a long history of being reliable, traceable, monitored and able to provide new genetics to the market. All of the great things about that system are luckily still in place,” he says.

“Saved seed can sometimes be great, but the quality of it has always been all over the map. Disease levels, varietal contamination, weed and other crop content are just not monitored to the same level in most non-pedigreed seed production. I would say the quality of certified seed in Canada is very high.”

Webb has gone out on many field inspections and he’s very impressed by the attention and work a pedigreed seed grower puts into a seed crop. He says seed growers spend a great deal of time choosing appropriate varieties, carefully planning rotations and cleaning equipment, as well as ensuring previous land use doesn’t impede quality and protecting the crop from both pollen and physical contamination.

Webb says growers of pedigreed seed also test the samples for quality many times — at harvest, during cleaning and in the spring — for germination, vigour and disease. “They want to make sure the product they sell is the best it can be. They have purity standard requirements to meet as well, so invasive weed seeds and other weeds, crops and diseases like ergot and smut are kept at [zero] or manageable levels.”

Purchase of certified seed also supports innovation and development of new traits and varieties. “New varieties and crop kinds seem to be getting more important as we face more and more unpredictable production and harvest weather,” says Webb. **Treena Hein**



Photo courtesy of Seed Check Technologies.

Certified seed quality in Canada has a long history of being reliable, traceable, monitored and able to provide new genetics to the market, says Morgan Webb.

### Quick Facts from the report *Overview of Certified Seed and Farmer Saved Seed* by the Economics and Competitiveness Branch of the Government of Alberta

- To calculate saved seed requirements, producers should save an amount that includes an additional 10 per cent for cleanout. “It is also advisable to have extra bushels available in case the grain is mishandled, the seeder malfunctions or a reseeding scenario arises,” states the report.
- In wheat, the single biggest cost associated with saving seed is the foregone opportunity to receive commercial value for harvest. In addition, the cost of saved seed for wheat includes storage cost for about six months, cleaning costs — including running grain through an optical/colour sorter, which is considered to be standard practice — elevation and trucking costs for cleaning and labour.
- As the price of wheat decreases, the relative costs of saving seed increases.

# Seek and Destroy

The control of herbicide-resistant weeds through seed destruction.

**ACCORDING TO BREANNE TIDEMANN**, a field agronomy scientist with Agriculture and Agri-Food Canada based in Lacombe, Alta., herbicide resistance is continuing to increase in terms of how common it is, as well as how challenging it is to manage.

“With each new herbicide-resistant weed, herbicide options become more restricted. With wild oat as an example, we have biotypes on the Prairies resistant to group 1 and 2 herbicides quite commonly, but there is also resistance to group 8, 14 and 15 products. That really limits herbicide options,” she says.

Tidemann and her colleagues have been exploring other avenues of control, chiefly a machine designed to destroy weed seed at harvest. Funding for the research, which started in 2017, is being provided by the Alberta Canola Producers Commission, Alberta Wheat Commission, Saskatchewan Wheat Development Commission and the Western Grains Research Foundation.

“In my opinion, the answer to herbicide resistance isn’t another jug of chemical,” she says. “We need to use multiple methods of managing weeds, and to me, it only makes sense to start

targeting the seeds. Why let surviving weeds — the ones most likely to have new resistance traits — put their seeds into the seed bank to be a problem next year? I think seed destruction could play a key role in managing herbicide-resistant weeds in the, hopefully, near future.”

Ian Epp agrees. He says in addition to reducing the total number of weed seeds entering the weed seed bank, harvest seed management is also beneficial in reducing the spread of weed species, including herbicide-resistant weeds, within a field. “Combines represent one of the best dispersal mechanisms available to weeds,” says the Saskatchewan-based agronomy specialist with the Canola Council of Canada.

“Seeds that enter the combine may be spread up to several hundred feet away from the initial mother plant, which for patchy weeds, or seeds from a newly-introduced herbicide-resistant biotype, represents an efficient method of establishing new patches and rapidly becoming a widespread field problem.”

This may result, he says, in growers using otherwise too expensive or intensive ‘patch’ management strategies to



Speed of chaff movement is critical for the system to work best.  
Photo courtesy of Dr. Neil Harker.



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deal with, or delay, a weed problem. He firmly believes that reducing the number of seeds entering the seed bank, and/or manipulating where they enter the seed bank, are two important tools for managing an ever-changing composition of weeds in any field.

### Current Research

In 2017 and 2018, Tidemann and her team experimented with seed destruction in 20 producer fields in Alberta, and the trials will continue for two more years to determine the effects of this technique on surviving populations. “We took weed counts this spring, but that data isn’t summarized yet.”

**“Seeds that enter the combine may be spread up to several hundred feet away from the initial mother plant, which for patchy weeds, or seeds from a newly-introduced herbicide-resistant biotype, represents an efficient method of establishing new patches and rapidly becoming a widespread field problem.”**

— Ian Epp

She’s using the Harrington Seed Destructor (HSD), invented in Australia, a device that’s towed behind the combine and features a cage mill that crushes the chaff — and the weed seeds the chaff contains. Speed of chaff movement is critical for the system to work best, and Tidemann has also found that farmers should wait until green or tough material has had a chance to do some drying.

The tow-behind HSD model is actually no longer on the market, but the firm offers the Integrated Harrington Seed Destructor (iHSD) that mounts directly onto the combine. Australian researchers have shown that the HSD and iHSD provide similar results. There is also a competitor called the Seed Terminator.

As far as Tidemann is aware, there are no published research results about the performance of the iHSD or its competitor, but she says a number of producers are using the iHSD in Australia, and there is also one being used in Canada, north of Saskatoon. She’s heard that both of the mill systems on that unit ran into some wear issues last harvest, and that some modifications are being tried.

### Mechanics of Destruction

In order for a seed destruction system to be effective, the weed seeds obviously need to be in the chaff. Cleavers and volunteer canola work well, but chickweed seed doesn’t because it’s so close to the ground and producers don’t want to chance equipment damage by cutting at that level. Tumble weed also



Invented in Australia, the Harrington Seed Destructor crushes the chaff — and the weed seeds — the chaff contains.

Photo courtesy of Dr. Neil Harker.

## Chaff Lining Research in Australia

Chaff lining is the practice of concentrating chaff in a narrow row between stubble rows directly behind the harvester. An August 2018 University of Western Australia report states that use of chaff lining has risen rapidly in that country over the last two years. “A survey of WeedSmart subscribers,” states the report, “shows the percentage of growers using chaff lining increased from 6% in 2016 to 26% in 2017.” WeedSmart is an industry-led initiative to enhance on-farm practices and promote the long-term sustainability of herbicide use.

Recent studies headed by Annie Rutledge, from the Department of Agriculture and Fisheries in Toowoomba, Australia, show that use of chaff lining or chaff tramlining — when chaff material is concentrated on dedicated tramlines in controlled traffic farming systems — does concentrate weed seeds into a narrow area, and that heavy layers of chaff lead to better suppression of weed emergence.

“Small seeded broadleaf weeds, for example common sow thistle, are more easily suppressed than grass weeds with larger seeds, such as annual ryegrass. Thick tramlines and chaff lines reduce, but do not prevent, weed emergence, so other measures may be needed to control weeds in tramlines/chaff lines, for example, spraying the tramlines with a shielded sprayer,” says Rutledge.

For more information go to <https://weedsmart.org.au/how-chaff-lining-works/> and <https://ahri.uwa.edu.au/chaff-lining-too-good-to-be-true/>.



presents a similar issue — as does wild oat, but for a different reason.

During Tidemann's PhD studies, she found that wild oat seems to shed its seed prior to crop harvest. "So, what we did is we compared early-maturing crops (peas followed by winter wheat) to 'normal' maturity crops (wheat and canola) to late-maturing crops (faba bean and flax)," she says. "We collected chaff off the plots when we harvested and counted how many wild oats we collected in each plot (which would be the ones to go through something like an HSD). We also compared swathing and straight cutting in each of those rotations. The idea was that we should collect the most wild oats in early-maturing crops, and should collect more by swathing versus straight cutting."

Preliminary results show that more wild oat seeds are collected when crops are swathed, but Tidemann says more are not necessarily collected with earlier-maturing crops. "We still have to do a final analysis on this data to see if those preliminary results are true at all sites and years, and then we need to try and figure out why," she says. "It's possible that wild oats are more variable than we suspected, which makes it harder to manipulate agronomics to collect more seeds. More to come on this project in the next year or so."

Tidemann notes that a couple of producers in the province are trialing a harvest weed seed control method called chaff lining (see sidebar) that's less expensive than seed destructors. At this point, she doesn't think most producers see the cost of seed destructor systems being worthwhile. Epp reports that the iHSD currently costs about \$150,000 and the Seed Terminator rings in at about \$100,000. However, while Tidemann states that



Photo courtesy of Dr. Breanne Tidemann

The Harrington Seed Destructor works well on cleavers and volunteer canola.

something like chaff lining may be easier to adopt initially, a lot of the same operational principles apply in terms of, for example, seed capture/retention issues.

In terms of when seed smashers might be used on a widespread basis, Tidemann says that at least two other factors are at play besides cost of the equipment, including her research results and the rate of spread of herbicide resistance. "I hope over the next few years we start seeing interested producers. I hope to do some more exploration into what's going on with wild oat seed retention, and also look forward to trialing something like chaff lining."

An enjoyable part of Tidemann's work is seeing producers get interested in ways of solving problems like weed control. "They have so many ideas and so many different perspectives about what will work on their farm and why," she says. "I love hearing from them and hearing what they're thinking about trying."

**Treena Hein**

A group of six people, three men and three women, are standing in front of a green building. The building has large red text that reads "WE READ SMUT" and "AND ALL KINDS OF OTHER SEED QUALITY TESTS". The people are wearing various casual clothing, including hats and boots. In the bottom left corner, there is a logo for "SEEDCHECK TECHNOLOGIES INC." with a stylized yellow and green 'S' shape. In the bottom right corner, there is a large white text box that says "YOUR SEED LAB". Below the logo, there is a line of text that reads "Seed testing experts in purity, germination, vigour and seed health."

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# Keeping Current

The owners of Victoor Seed Farm Inc. believe tracking agronomic trends is an important ingredient for success in the seed business.

**JAMIE VICTOOR** and his dad, Rene, have been in the seed business a long time. The co-owners of Victoor Seed Farm Inc. located about 15 kilometres west of St. Albert, Alta., have more than 90 years of seed growing experience between them.

Even with their wealth of seed growing experience, the Victoor family always strives to keep on top of agronomic trends.

"We do a lot of research ourselves and we go to a lot of crop tours and also check out the latest information coming out of each of the research and breeding stations, to see which varieties might work agronomically in our area and also will be best suited and adapted for the end consumer as well," says Victoor.

He notes that local grower meetings, including ones put on by Victoor Seed Farm, are an important source of information, as are technical gatherings such as Edmonton's yearly FarmTech conference and the Canadian Western Agribition held annually in Regina, Sask.

Victoor, who's 54, grew up on the farm, which was founded by his great-grandfather in 1919. His grandfather took over the farm and started producing seed in the early 1950s. Victoor's father and uncle established Victoor Seed Farm Inc. in 1959.

Victoor started full-time work at the farm shortly after high school in 1983. He and his wife, Deanna, have three sons —





Justin, 32, Jesse, 29, and Jayden, 26 — and a daughter, Jori, who is 22. Jesse has been working full time on the farm since 2012, while his three siblings also pitch in when needed.

Victoor Seed Farm produces a range of pedigreed seed, including Canadian Prairie Spring wheat, Canada Western Spring wheat, malting barley, oats and peas. Canola is also grown on the 2,300-acre farm.

Most of the pedigreed seed produced by the Victoors is sold directly to local growers through a retail operation on the farm. The remainder is purchased by farmers in Alberta, Saskatchewan, British Columbia and, occasionally, North Dakota.

"It's important for us to be producing pedigreed seed so that the farmers have access to better genetics and better varieties going forward and to improve their profitability," says Victoor. "As we go forward, we'll keep looking for the best varieties that work for our area and also new varieties that are going to fit the end-consumer market."

Victoor notes it's becoming less common for independent seedsmen like himself to be able to sell directly to growers and not have to rely on providing wholesale products to large companies and conglomerates coming into the seed business.

Victoor says customer service could be seen as one area that separates his business from some of the bigger seed players.

"We like to follow up with our customers. We usually touch base with them and check in to see how their seed is doing," he says. "We also ask them what they're looking for in their varieties and then we try to pass that on to the seed companies and breeders, so they know what the farmers are actually looking for."

Victoor sees innovation as an important part of any successful seed operation. "It's pretty well a given. Technology is here to stay, and it just keeps getting more and more advanced," he says.

Victoor says his farm makes extensive use of satellite imagery during the growing season, relying on weekly satellite maps to help identify areas within fields that may be deficient in water or suffering from weed or pest problems. He adds innovations such as GPS and semi-autonomous farm vehicles have also made farm operations more productive and efficient.

"It used to be you'd have to quit pretty well once it became dark because you couldn't see where you were going," Victoor says. "Now you can rely on your GPS to keep you on a straight line, and it also helps you to avoid overlapping areas and wasting product by applying extra seed, fertilizers or [pest control] sprays."

Keeping seed crops and varieties separate is always a key concern for seed producers, Victoor says, noting that it requires a lot of due diligence.

He points out that Victoor Seed Farm has many different-sized bins and a clear demarcation system for isolating seeds, and that there are rigorous procedures for cleaning seed drills, cultivators, combines and swathers to ensure fields remain [genetically] pure.

Large air compressors and gas blowers are used to clean the farm's seed drill and other equipment, says Victoor, adding that eight hours are typically spent cleaning out the combine in between harvesting different varieties of wheat.

Victoor says the farm always ensures it's properly prepared for CFIA audits, which take place every two years.

"They'll check our storage bins to see how they're marked, and then we also have to keep samples of our grain, clean and rough, for two years past the last date of sale of that particular lot of grain," he says.

Victoor says the farm performs some of its own seed cleaning. "When we get new breeder seed from a breeding station, we'll propagate that and then clean those select plots." For other seed lots, Victoor Seed Farm utilizes commercial seed plants located nearby.

**"We do a lot of research ourselves and we go to a lot of crop tours and also check out the latest information coming out of each of the research and breeding stations, to see which varieties might work agronomically in our area and also will be best suited and adapted for the end consumer as well."**

— Jamie Victoor

Victoor says his farm works with an agronomist who assists with field scouting and helps identify measures to keep the crops clean and healthy.

He notes one practice that's benefitted the farm's bottom line is sticking with the same fields for different types of seed crops.

"After you've farmed properties, whether they're rented or owned, you get to know which kind of grains will grow better on those fields. So certain fields will do better growing wheat, and others will grow better barley," Victoor says.

"We plant different varieties over the years, but we'll always try to keep our barley fields in barley and our wheat fields in wheat, other than the rotation when we plant either peas or canola in those fields." **Mark Halsall**



# WHEAT BREEDER CONTINUES MAKING INROADS

Plant breeding isn't without its challenges, and Harpinder Singh Randhawa is meeting them head-on and developing new and improved spring wheat cultivars with better agronomic performance, high end-use quality and resistance to biotic and abiotic stresses.

**NOT ALL WHEAT** varieties are created equal. And no one knows that better than Harpinder Singh Randhawa.

The spring wheat and triticale breeder who works at Agriculture and Agri-Food Canada in Lethbridge, has developed no less than eight high-yielding spring wheat cultivars and co-developed four high-yielding triticale cultivars for general production in Western Canada.

Randhawa's passion for wheat breeding developed during his childhood on the family farm in Punjab, India. He attended Punjab Agricultural University, obtaining his BSc. Agriculture (Honours) in 1990 and his M.Sc. with a specialization in plant breeding in 1993. In 1994, he was appointed as assistant rice breeder at Punjab Agricultural University where he was part of a team whose objective was to develop high-yielding cultivars of rice. But his heart was set on wheat.

"I came to Canada in 1996 and graduated with my PhD from the University of Saskatchewan in 2002," he says. Following a short working stint at the University of Nebraska-Lincoln, Randhawa took a position as post-doctoral fellow at Washington State University at Pullman, focusing his research on developing new wheat genomics tools, novel strategies for rapid introgression of traits using marker-assisted backcrossing, genetic and physical mapping of agronomically important traits in wheat and eventually developing improved wheat cultivars.

Harpinder Singh Randhawa has developed eight high-yielding spring wheat cultivars and co-developed four high-yielding triticale cultivars.





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“Simply, I worked there for four and a half years developing breeding tools and doing genetic mapping,” he says. “I also set up a breeding program for incorporation of stripe rust and Clearfield herbicide resistance for the Pacific Northwest using marker-assisted breeding.”

Since 2007, Randhawa has been working as a spring wheat and triticale breeder with AAFC at Lethbridge. His prime focus of research is developing spring wheat cultivars that have better agronomic performance, excellent end-use quality, and resistance to various biotic and abiotic stresses in Western Canada.

His other research interests include the identification of new sources of disease resistance in wheat, genetic mapping, double haploid production and new breeding tools. He has published more than 60 research articles in international journals, he supervises many undergraduate and graduate students and post-doctoral fellows, and continues to attend national and international conferences. In 2016, Randhawa received AAFC’s Gold Harvest Award for innovation, collaboration and service excellence.

Randhawa says his breeding program today focuses on two minor classes: Soft White Spring (SWS) and Canada Prairie Spring (CPS) wheats. “In soft white, our focus is developing new varieties with higher yield and improved resistance to various diseases,” he notes. “We’ve developed AAC Chiffon, AAC Indus and AAC Paramount. We also have this new one in the Special Purpose class, the highest-yielding variety in Western Canada — AAC Awesome. It’s a benchmark in pushing yield to the next level.”

With the closure of AAFC’s Cereal Research Centre in

**“We’ve entered into a new era for developing and collaborating with industry as a public, private and producer partnership.”**

— Harpinder Singh Randhawa

Winnipeg in 2014, Randhawa’s plant breeding workload increased. To that end, he stresses that the most important highlight in CPS breeding today and going forward is the development of the unique P4 partnership involving Alberta Wheat Commission, Canterra Seeds and AAFC. This program recently yielded its first commercial wheat variety: AAC Crossfield, a Canada Prairie Spring Red (CPSR) wheat with a short, strong straw and high yield potential.

This first-of-its-kind partnership, totalling \$3.4 million over five years, is aimed at combining the strengths of producers, along



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with the public and private sectors, to create improved CPSR wheat varieties for farmers. Breeding for this partnership is being led by Randhawa.

"We've entered into a new era for developing and collaborating with industry as a public, private and producer partnership," he notes. "AAC Crossfield will be in farmer's fields this year and another one we just registered is AAC Castle; and there's a new one in the pipeline we're very excited about."

Plant breeding isn't without its challenges, and according to Randhawa, one of the largest he sees is production challenges. "We face different stresses, such as Fusarium head blight for example. It's moving big time. And although the last two years were okay, we know we'll see more of this disease."

Randhawa says one of the challenges associated with breeding for Fusarium head blight resistance is lack of a disease screening nursery in Alberta and limited access to nurseries in Manitoba. "If you can start screening early on, then you have a higher chance of selecting good material and discarding the 'junk.' But there are only so many breeding lines that can be screened in the nursery — and that's my number one challenge."

Another challenge, he notes, is free access to germplasm. "We are all in the public sector, and we'd like to have a reciprocal transfer of material," he says. "Plant breeding is all based on diversity — if there's no diversity and no germplasm, or if I can only use my own germplasm, then I'm going to have a bottleneck, I'm going to stagnate in my gene pool. We need to bring in new genetics and new traits to keep building diversity."

A third challenge, says Randhawa, is within the minor classes

of wheat, such as SWS and CPS. "Whether it's winter wheat or CPS or soft wheat, we have maybe one million acres for each, more or less. Big classes such as CWRS (Canada Western Red Spring) or durum, they get a lot more attention. This translates over to more marketing attention as well, and that's hurting the minor classes."

It's not all doom and gloom, however. Cereals Canada, Alberta Wheat Commission and Canadian International Grains Institute certainly are doing their part to find consistent markets for the minor classes of wheat. And for his part, Randhawa continues pushing ahead to develop better cultivars for western Canadian growers. He believes new and improved technologies will help in that regard, but having "boots on the ground" on a day-by-day basis is still highly important in the plant breeding field.

"New technologies certainly offer some advantages, such as grains in efficiencies, new genomics tools and artificial intelligence," he says. "Some of those things will tweak and change and help us, but it won't happen overnight. There are many things we have to do the hard way, there's no easy way or shortcut."

"Plant breeding is an interaction with everything — the growing environment, the diseases, the climate, the drought, rain, fertilizer. You can predict things with your computer models, but you can't predict everything, and you can miss something you never thought of."

"We have to face these challenges and tackle them one at a time, to understand how it works. There is no magic bullet in plant breeding." **Janet Kanters**



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<b>NEW InVigor L234PC</b>	<ul style="list-style-type: none"> <li>Pod Shatter Reduction</li> <li>NEW 2<sup>nd</sup> generation multi-genetic clubroot resistant** traits</li> <li>Excellent yield performance</li> <li>Early maturity</li> <li>Medium height</li> </ul>	<b>104%</b> of checks (InVigor 5440 and Pioneer® 45H29) in 2017 WCC/RRC trials	All growing zones	Strong	Pod Shatter Reduction 2 <sup>nd</sup> Generation Multi-Genetic Clubroot Resistance Blackleg Resistance LibertyLink system
<b>InVigor L255PC</b>	<ul style="list-style-type: none"> <li>Pod Shatter Reduction &amp; Clubroot Resistance**</li> <li>Top yield performer</li> <li>Harvest flexibility</li> <li>Medium height</li> </ul>	<b>109%</b> of checks (InVigor 5440 and Pioneer® 45H29) in 2016 WCC/RRC trials	Mid- to long-growing zones	Very Strong	Pod Shatter Reduction Clubroot Resistance Blackleg Resistance LibertyLink system
<b>InVigor L241C</b>	<ul style="list-style-type: none"> <li>Clubroot Resistance**</li> <li>Winner of the 2016 Canola 100 at <b>81.43 bu./ac.</b></li> <li>Strong yield performance</li> <li>Mid maturity</li> <li>Medium height</li> </ul>	<b>102%</b> of checks (InVigor 5440 and Pioneer® 45H29) in 2012-2013 WCC/RRC trials	All growing zones	Very Strong	Clubroot Resistance Blackleg Resistance LibertyLink system
<b>InVigor L135C</b>	<ul style="list-style-type: none"> <li>Clubroot Resistance**</li> <li>Solid performance</li> <li>Early maturity</li> <li>Medium height</li> <li>Available in Alberta only</li> </ul>	<b>138%</b> of checks (Pioneer® 46A65 and Q2) in 2010 WCC/RRC trials	All growing zones	Strong	Clubroot Resistance Blackleg Resistance LibertyLink system
<b>InVigor L252</b>	<ul style="list-style-type: none"> <li>#1 hybrid canola grown in Canada in 2016 &amp; 2017***</li> <li>Winner of the 2017 Canola Performance Trials (CPTs) for the 5<sup>th</sup> straight year (average of all growing zones)</li> <li>Top yield performance</li> <li>Medium height</li> </ul>	<b>110%</b> of checks (InVigor 5440 and Pioneer® 45H29) in 2011-2012 WCC/RRC trials	All growing zones	Strong to Very Strong	Blackleg Resistance LibertyLink system
<b>InVigor L230</b>	<ul style="list-style-type: none"> <li>Strong yield performance</li> <li>Early maturing</li> <li>Medium height</li> </ul>	<b>103.9%</b> of checks (InVigor 5440 and Pioneer® 45H29) in 2014-2015 WCC/RRC trials	All growing zones	Strong to Very Strong	Blackleg Resistance LibertyLink system

\*2018 BPI (Business Planning Information) Data

\*\*To predominant clubroot pathotypes identified in Canada at the time of product registration. NEW InVigor L234PC has the same resistance profile as InVigor L255PC, InVigor L135C and InVigor L241C, plus it contains 2<sup>nd</sup> generation multi-genetic clubroot resistance to additional clubroot pathotypes to help combat evolving clubroot pathotypes

\*\*\*2016 & 2017 BPI Data



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treated right from the bin and onto the grower's truck. Hanson is currently organizing the installation of seed growers' storage bins at the new plant. "It's so much more convenient for them," he says.

### Increased Demand

There were several reasons for the increased demand of the co-op's services, but one of the biggest factors was the area's pedigreed seed production. Pedigreed seed cleaning accounts for 30 to 50 per cent of the business or up to 800,000 bushels, depending on the year.

Part of the reasoning behind opening the second location was to provide local pedigreed seed growers — who produce wheat, hemp, coriander, barley, peas, chickpeas and triticale — easier access to services.

"Our Grassy Lake facility is a little closer to some of our pedigreed seed growers. They're not travelling as far to get to us, so that helps them out. Without pedigreed seed growers, we wouldn't have the need for a new plant," says Hanson. "We're thankful they put their trust in us."

Hanson believes demand for pedigreed seed will continue to increase, especially once hybrid wheat becomes a reality for western Canadian farmers.

"In time, we're going to see more hybrid cereals, which will have to be pedigreed seed. As soon as hybrid wheat is released, it'll be a pedigreed status," says Hanson.

In addition to pedigreed seed, as a certified organic facility, the Grassy Lake plant also processes organic crops. Other specialty crops the new facility processes are coriander, dill, caraway and hemp. Hanson believes the demand for specialty crops, including pedigreed seed, will continue to increase.

To carry out the clean-up between pedigreed crops, or those headed for organic or human consumption markets, it can take from six to eight hours. "Changeovers are a fact of life, but I've got a pretty good crew. It takes a little time, but that's how you keep the seed pure," says Hanson.

Hemp companies have also played a large role in the co-op's growth and success. It all started with one hemp grower who saw Hanson's ad claiming: "You grow it; we clean it."

And he stands by that motto: it doesn't matter what the crop is, Hanson says he'll figure out a way to clean it. "Without the hemp growers in our area, we wouldn't have the need [for a second plant]." That hemp grower also brought him some dill and coriander to clean.

"As with any business, if you stop growing, you stagnate. If the need is there, you must fulfil it," he says.

Another reason Hanson pushed for a second facility also addressed a challenge many businesses are facing in the industry. Attracting and retaining qualified labour continues to be an obstacle many in the sector must overcome. Hanson focuses on quality of life to retain his employees, which has created for him a loyal, lasting team.



Hanson focuses on quality of life to retain his employees. From left to right: Taber Seed Cleaning Co-op's team members Peter, Joe and Jacob.

**"As with any business,  
if you stop growing, you  
stagnate. If the need is there,  
you must fulfil it."**

— Joe Hanson

"I don't believe in running [the plants] 24 hours a day, seven days a week. If you can keep your employees happy, it makes it simpler for everybody," he says.

Although Hanson runs a tight ship, he maintains keeping good people is essential to the plants' success, and he does this by making sure his workers get time to themselves and their families on weekends and evenings. However, for a few weeks during the spring, it's all hands on deck. "Without our staff, we wouldn't be where we are today," he says.

With the new plant up and running, Hanson can focus his attention on the future — which he thinks looks pretty good. "For farming, as a whole, there's a bright future there. In our area, many crops are irrigated. The crops we can grow will amaze you. More new crops are going to be introduced, and they're not going to be the typical wheat and barley," says Hanson.

"Irrigated land in our area is selling for one to two million dollars a quarter. You can't grow wheat and barley and pay for that. I think there are going to be some big changes ahead and more diverse crops."

Hanson says now that the Grassy Lake plant has boosted seed processing capacity in the area, there's no way they will need to expand.

Never say never.

**Kari Belanger**



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# Looking for Win-Win Scenarios

Alan Hall focuses on the positive and draws on another country's experiences while the winds of change continue to blow in Western Canada.

**FROM THE FUTURE** of variety development and regional variety trials to the importance of applied research groups in Alberta, Alan Hall, Agricultural Research and Extension Council of Alberta's executive director, shares his thoughts with Alberta Seed Guide on the shifts taking place within the province and the country.

**ASG: Do you see any shifts occurring in seed variety development or regional seed trialing?**

**AH:** Over time, we're seeing more varieties being developed by private companies as opposed to government or university breeding programs — that's an evolution. We've already seen this happen in canola. It's beginning to happen in pulses, and we're seeing it in cereals. We're going to see more of that, particularly in the wheat area.

With that, will come changes to how variety trial work is financed. Right now, it's financed from fees paid by variety owners or those who have distribution rights. To some degree, the trials are subsidized. For example, the applied research groups that I'm involved with, they don't get full cost recovery on the trial work they do, but they still do it because it's very useful to farmers in their areas, and these associations are owned and operated by farmers. However, I suspect over time they'll want to move to a more self-sufficient business model.

Farmers want reliable, comparative data to help them select varieties. They want to see head-to-head data about different varieties from public and private breeding programs, to determine how they perform under the same conditions, relative to each other — that helps farmers with their selection process. Farmers value this consumer reports style where there are neutral third parties doing the testing.

**ASG: Why are the protocols put in place for regional variety trials so important?**

**AH:** Protocols are important to keep the data that's being collected consistent — so that you're comparing apples with

apples. For example, if organization number one designed their own trials and organization number two designed their trials differently, and company number three did them differently yet again, we wouldn't be able to roll that data together and get anything meaningful out of it in terms of statistical analysis.

Having common protocols is critical for solid, dependable data that can be pulled together and analysed. It ramps up the quality and confidence in the results, otherwise all you've got is a collection of anecdotal information.

Every year a breeder science committee reviews the process and what adjustments need to be made, whether that's protocol design or the operations of the program. There is scientific oversight to maintain quality.

**ASG: How do you see the future shaping up with more varieties developed by private companies? What have other countries experienced having undergone similar shifts?**

**AH:** If we look at the canola industry in Canada, what it has done is it has given farmers considerably more choices. The number of varieties available to them will be significantly larger than what's currently there, which will increase the need for regional testing.

If we look at Australia, they have what's called the National Variety Testing Program. Australia has university-, government-, and privately-generated varieties, which is a similar mix to what we have here. The program involves more than 600 sites across the country where varieties are trialed. What they have found is microclimates affect a variety's performance. For example, when the same variety is grown at two different sites, say, 40 miles apart, that variety may perform better at one site simply because of changes in soil or the agroclimate.

From this, they have found niche opportunities for varieties in Australia. Having many varieties available improve the odds that farmers will find one that fits their niche. This is highly valued by Australian farmers, and they say is most helpful to their bottom lines in the variety selection process.

In Canada, we have a limited number of sites, and for some farmers they can be a hundred miles away. As private companies



come on board with more breeding, in a perfect world, we will see a more robust regional variety trialing process than what we have in the province today, which is in the neighborhood of 20 to 25 sites. Perhaps in the future that might be 300 to 400 sites in Western Canada. I have a suspicion it could be a growth area in terms of trialing. How do you finance something like that? It takes more money. It takes more in-field delivery capacity to run the plots.

In Australia, the national variety testing program is funded through the Grains Research and Development Corporation. Farmers support the organization with a one per cent of sales levy, which is sort of like our checkoff system in Canada.

This farmer-run organization takes in about \$150 million per year in checkoff money as well as another \$40 million from the Australian government and \$10 million generated from intellectual property. The organization funds a lot of research and development in various areas, such as agronomy, cropping practices and genetics, but one of the key benefits it provides is the regional variety trial testing. Farmers in Australia love it.

I'm not sure if, over time, something like this will emerge in Western Canada. There has been lots of coffee talk about that sort of an approach, but I don't see any evidence that western Canadian farmers are moving in that direction at this point.

#### **ASG: Where are farmers getting value for their money with respect to research in Alberta?**

**AH:** The applied research groups in the province are filling a very critical piece. These groups are adapting and applying varieties and technologies so they work at the local level, bridging the gap between regional farm needs and the materials released by research stations and universities. The groups also work with farmers to develop better practices to deal with issues farmers are facing, like disease or drought.

Those organizations are owned by farmers and run by farmers and are providing some solid information back to farmers to incorporate into their operations.

The applied research groups are active on two fronts — on the crop front and the forage and beef front. Those organizations

**“The applied research groups are active on two fronts — on the crop front and the forage and beef front. Those organizations are running on nickels and dimes. We need to get behind these groups because they’re doing excellent work.”**

— Alan Hall

are running on nickels and dimes. We need to get behind these groups because they're doing excellent work, especially in remote locations, such as Oyen, Falher and Fort Vermilion. And it could only get better if they have more resources to work with.

Those groups, such as the MacKenzie Applied Research Association and SARDA Ag Research, exist in various forms right across the province. Information, varieties or technologies from research stations or universities don't always work in these regions without some adaptations.

For instance, these regions experience different climate conditions and have five or six hours of extra daylight in summertime — they've got more in common with northern Russia than they do the southern Prairies. Those research groups are developing information that's very useful to farmers in those areas.

Farmers need to keep the foot on the gas directing these groups to make sure they're working on the problems, barriers, or opportunities that affect their farm businesses. If they're doing the right work for farmers, and they do it well, it seems to me we have a win-win situation. **Kari Belanger**

*Editor's Note: For the full Q & A, visit [seed.ab.ca](http://seed.ab.ca).*

# Varieties of Cereal and Oilseed Crops for Alberta

**THIS** annual publication provides information on cereal and oilseed variety performance in Alberta and northeastern British Columbia. Important agronomic characteristics and disease resistance information is provided for varieties of wheat, barley, oat, rye, triticale, flax and canola. The Alberta Regional Variety Testing program for cereals and flax is coordinated by the Alberta Regional Variety Advisory Committee (ARVAC) and Alberta Agriculture and Forestry (AAF). Funding for the program is provided by:

- Alberta Agriculture & Forestry
- Alberta Wheat Commission
- Alberta Barley Commission
- Alberta Oat Growers Association
- Alberta Seed Growers
- Alberta Seed Processors
- Prairie Oat Growers Association
- Entry fees for the varieties being tested

Data for this publication come from various sources, including:

- Ag-Quest
- Agriculture & Agri-Food Canada
- Alberta Agriculture & Forestry
- Alberta Innovates Technology Futures
- British Columbia Grain Producers
- Farming Smarter
- Lakeland College
- Nutrien Ag Solutions
- SARDA Ag Research
- University of Alberta
- Battle River Research Group (BRRG)
- Chinook Applied Research Association (CARA)
- Gateway Research Organization (GRO)
- Lakeland Applied Research Association (LARA)
- McKenzie Applied Research Association (MARA)
- Prairie Grain Development Committee

The following individuals are the 2018 Regional Variety Trial and crop specific coordinators:

- Alex Fedko, Regional Variety Trial Coordinator
- Spring wheat, Drs. H. Randhawa, D. Spaner & S. Strydom
- Barley, J. Anderson
- Oat, Dr. J. Mitchell-Fetch
- Triticale, Dr. H. Randhawa
- Winter Wheat, Dr. R. Graf
- Fall Rye, Dr. J. Larsen
- Winter Triticale, Dr. J. Larsen
- Flax, M. Hartman

Sincere thanks are extended to all individuals and organizations who contribute to this publication.

## Yield Results and Reporting

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

## New Format for Reporting Yield

Continuing for 2019, the yield data for CWRS wheat are reported in two ways. The first method is the traditional manner that has been used since 2010 (see page 71). New in 2018 was an alternative method that reports head-to-head comparisons of all varieties on the annual trials within a five-year timeframe. This new method retains low and high yield test categories based on the average yield of the Carberry (67 bu/ac), the long-term check in the Regional Variety Trials. The advantage of this method is that all comparisons within a column are statistically valid, rather than only to the check. The Overall Yield is also reported using all data that are available, but since this is a dataset with varying numbers of comparisons over different years, the only valid comparison is to the check, as has been the case in the older method. We welcome your comments on this new format.

Producers have often asked for additional checks in the regional variety trials that reflect more commonly grown varieties. Starting in 2018, two additional varieties are grown as “benchmark” checks and reflect the two most popular varieties for the crop or within a market class during the previous year, based on crop insurance data. These checks will change as the popularity of varieties change.

## Traditional Yield Reporting Method

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

At least six station-years of yield data collected over two years are required prior to reporting the figures in this publication. For new varieties, Overall Yield is often the first indication of yield potential relative to the check. As additional data become available, yield performance is also expressed on the basis of environmental



productivity (Yield Test Categories of Low, Medium, High and Very High). Yield rankings among varieties can change substantially due to growing conditions. To reflect these differences, results from a test site that produced high yield in a particular year are placed into the database for 'high' yielding environments. The same site may contribute to the 'low' yield category in a drought year, when yields are low. Consistent performance over all Yield Test Categories indicates that a variety has environmental responses similar to the check and may have good yield stability over a wide range of environments. Scientific studies conducted on variety performance in Western Canada have shown that Yield Test Category analysis provides a more reliable indication of yield performance than results organized by geographic region.

The yield comparison tables have several features:

- Overall actual yield of the check (bushels/acre) based on all data available to the testing program is provided along with the number of station years of testing.
- The range in yield for each Yield Test Category is defined.
- Actual yield of the check in each Yield Test Category is reported.
- For varieties with sufficient data, the Overall Yield and performance in each Yield Test Category is expressed relative to the check.

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

## Maturity Ratings

As is the case for yield, growing conditions have a tremendous influence on the date of maturity. For example, a variety of CWRS wheat may mature in 98 days in Lethbridge, but take 103 days in Edmonton. Likewise, a two day difference in maturity between varieties in southern Alberta may amount to a five day difference in a more northerly location. To take this into account, maturity is expressed using a six category scale: Very Early, Early, Medium, Late, Very Late, and in rare instances Extremely Late. To aid producers with this relative scale, the average number of days to maturity for the check is reported. Note that this scale is different for each crop type. For example, an early barley variety will mature much earlier than an early flax variety.

## Seed Size and Plant Populations

Seed size within a crop kind will vary from variety to variety, requiring adjustment of seeding volumes to achieve desired plant populations. Some of the tables provide an average 1000 kernel weight (TKW) which can be used as a guide for variety differences. The best

approach is to determine the 1000 kernel weight of the seed to be planted, germination rate, emergence mortality, and in the case of fall seeded crops, an estimate of winterkill. For more information and user-friendly seeding rate calculators that take into account these and other considerations, please see [www.agric.gov.ab.ca/app21/ldcalc](http://www.agric.gov.ab.ca/app21/ldcalc).

## Plant Breeders' Rights

Plant Breeders' Rights (PBR) are a form of intellectual property rights by which plant breeders can protect new varieties in the same way an inventor protects a new invention with a patent. In 2015, Canada amended the PBR Act to bring it into conformity with UPOV 91. Varieties protected under the previous legislation (UPOV 78) are indicated with the logo , whereas those protected under the new legislation that are shown with a new logo . The use of the  logo indicates that an application for PBR has been accepted and the variety has provisional protection. For more information on Plant Breeders' Rights, please see [www.pbrfacts.ca](http://www.pbrfacts.ca) or the Canadian Food Inspection Agency website at [www.inspection.gc.ca](http://www.inspection.gc.ca).



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## Canola

The Alberta Regional Variety Advisory Committee (ARVAC) does not take any responsibility for accuracy or validity of the canola performance data.

## Diseases, Seed Treatment and Seed Testing

- Disease ratings are compiled from various data sources in Alberta and other prairie provinces.
- Treat rye and flax seed to control seedling blight, cereal seed for smuts and fusarium, canola seed to control flea beetle, seedling blight and the seed borne phase of virulent blackleg.
- Wheat with Moderately Susceptible (MS) or Susceptible (S) ratings for common bunt should be treated with a systemic fungicide as low levels of infection will restrict marketability.
- Refer to labels for maximum storage periods of treated seed.
- Treated seed must not be fed to livestock, poultry or wildlife, and cannot be sold for feed.
- Leaf spot ratings in the wheat tables are a combination of resistance to tan spot and septoria leaf disease complex.
- Fusarium head blight (FHB), caused by *Fusarium graminearum* and other species, is an increasing problem in Alberta. The relative ranking of crops from most susceptible to least susceptible is durum wheat, spring and winter wheat, triticale, barley and oat. Corn is a host of *F. graminearum* and can serve as a source of infection when residue is left on the ground. FHB infection is highly influenced by the environment and heading date. A resistant (R) tolerance rating for FHB does not equate to immunity. Under severe epidemics, all varieties will sustain damage. All seed should be tested for the presence of FHB and treated with an appropriate seed treatment. Producers are advised to choose varieties with the best FHB tolerance whenever possible and always use best management practices to slow the spread of this disease (please see [http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/agdex5210](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/agdex5210)).
- Seed used in the Alberta Regional Variety Testing program comes with a “fusarium-free” certificate and trials are inspected for FHB during the growing season.

## Laboratories participating in the FHB testing program:

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

## Agronomic Practices Used in Small Plot Trials

Small plot trials are conducted using the following best agronomic practices:

- N, P, K and S fertilizer rates are based on soil test results for 1.25x the area average yield goal of the past 4 years, as reported in the AFSC Yield Alberta publication.
- All wheat, barley and oat seed is treated with Cruiser Maxx Vibrance Cereals. Triticale is treated with Dividend XL RTA. Flax seed is not treated.
- Seeding rates are adjusted for TKW and germination to reach the following target plant populations listed in Table 1.0.

Crop	Wheat						Winter Wheat
Class	CWRS	CPSR	CNHR	CWSP	Durum	CWSWS	
Target Plant Population (plants/sqft)	31	31	31	31	28	31	33

Crop	Barley		Oat	Triticale	Flax	
Class	2 row	6 row			Brown	Yellow
Target Plant Population (plants/sqft)	25	25	28	29	75	84

**Table 1.0 Target Plant Populations used to determine Seeding Rates**

- Foliar fungicides are not applied to the trials which allows for testing genetic differences between cultivars for their disease resistance. The application of a foliar fungicide under conditions for disease development could significantly increase yields on some cultivars.

## Abbreviations and Rating Scales

- TKW = Thousand kernel weight.
- XX = Insufficient data to describe.
- Maturity: VE = Very Early, E = Early, M = Medium, L = Late, VL = Very Late, XL = Extremely Late.
- Resistance Ratings: VP = Very Poor, P = Poor, F = Fair, G = Good, VG = Very Good, EX = Excellent.
- Disease Tolerance Ratings: R = Resistant, MR = Moderately Resistant, I = Intermediate, MS = Moderately Susceptible, S = Susceptible.
- Kernel Type (winter wheat): HR = Hard Red, SR = Soft Red, HW = Hard White, SW = Soft White.
- Awns (wheat): Y = Yes (bearded), N = No (awnless).
- Awn Type (barley): R = Rough, S = Smooth, SS = Semi-smooth.
- Seed Size (flax): S = Small, M = Medium, L = Large.

## Other Variety Information

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

## Fact sheet information and tables prepared, reviewed and approved by:

Alberta Regional Variety Advisory Committee (ARVAC)

## Data preparation and fact sheet coordination by:

Alex Fedko  
Coordinator RVT/Crop Research Technologist  
Alberta Agriculture and Rural Development



# Cereal and Flax Breeding Institutions and Seed Distributors

New for 2018 we are pleased to offer readers a quick reference tool to look up cereal varieties by class, breeding institution and distributor.

## DISTRIBUTOR CONTACT INFORMATION

Alliance Seed.....	1-877-270-2890 / allianceseed.com
CANTERRA SEEDS .....	204-988-9750 / canterra.com
Cargill.....	cargillgrows.ca
Corns Brothers.....	403-380-9586 / cornsbros.com
Crop Development Centre – University of Saskatchewan .....	306-966-5855 / agbio.usask.ca/research/centres-and-facilities/crop-development-centre.php
FP Genetics .....	1-877-791-1045 / fpgenetics.ca
Haney Farms .....	403-738-4517 / haneyfarms.com
La Coop fédérée.....	(514) 384-6450 / lacoop.coop
Lefsrud Seed .....	780-336-2500 / telusplanet.net/public/lefsrud/
Mastin Seeds.....	403-556-2609 / mastinseeds.com
Progressive Seeds Ltd. ....	403-347-4925
Proven Seed/Nutrien Ag Solutions, Inc. ....	1-888-569-9444 / provenseed.ca
Richardson International .....	1-866-217-6211 / richardson.ca
SeCan .....	1-800-764-5487 / secan.com
Seed Depot .....	204-825-2000 / seeddepot.ca
Solick Seeds Ltd. ....	403-884-2358
SeedNet Inc.....	403-715-9771 / seednet.ca
Syngenta Canada .....	1-877-964-3682 / syngenta.ca
Wagon Wheel Seed Corporation.....	306-896-2236 / wagonwheelseeds.sk.ca

## BREEDING INSTITUTIONS AND SEED DISTRIBUTORS OF VARIETIES LISTED IN THIS PUBLICATION

Variety	Breeding Institution	Distributor
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### FEED and FOOD BARLEY

#### Two-Row

Altorado	Highland Specialty Grains	Proven Seed/Nutrien Ag Solutions, Inc
Brahma	Westbred, LLC.	Proven Seed/Nutrien Ag Solutions, Inc
Busby	FCDC (Lacombe)	Mastin Seeds
Canmore	FCDC (Lacombe)	CANTERRA SEEDS
CDC Austenson	U of S - CDC	SeCan Members
CDC Coalition	U of S - CDC	CANTERRA SEEDS
CDC Cowboy	U of S - CDC	SeCan Members
CDC Maverick	U of S - CDC	SeCan Members
CDC Trey	U of S - CDC	FP Genetics
Champion	Westbred, LLC.	Proven Seed/Nutrien Ag Solutions, Inc
Claymore	Highland Specialty Grains	Proven Seed/Nutrien Ag Solutions, Inc
CONLON	NDSU	Seed Depot
Gadsby	FCDC (Lacombe)	SeCan Members
Oreana	Highland Specialty Grains	Proven Seed/Nutrien Ag Solutions, Inc
Ponoka	FCDC (Lacombe)	SeCan Members
Seebe	FCDC (Lacombe)	SeCan Members

#### Six-Row

AC Ranger	AAFC (Brandon)	FP Genetics
AC Rosser	AAFC (Brandon)	SeCan Members
Amisk	FCDC (Lacombe)	SeCan Members
Chigwell	FCDC (Lacombe)	SeCan Members
Muskwa	FCDC (Lacombe)	SeedNet Inc.
Sundre	FCDC (Lacombe)	Mastin Seeds
Trochu	FCDC (Lacombe)	SeCan Members

### HULLESS - FOOD AND FEED BARLEY

CDC Ascent	U of S - CDC	SeCan Members
Falcon	FCDC (Lacombe)	Progressive Seeds Ltd

## MALTING BARLEY

#### Two-Row

AAC Connect	AAFC (Brandon)	CANTERRA SEEDS
AAC Synergy	AAFC (Brandon)	Syngenta Canada
AC Metcalfe	AAFC (Brandon)	SeCan Members
Bentley	FCDC (Lacombe)	CANTERRA SEEDS
CDC Bow	U of S - CDC	SeCan Members
CDC Clear (hulless)	U of S - CDC	SeCan Members
CDC Copeland	U of S - CDC	SeCan Members
CDC Fraser	U of S - CDC	SeCan Members
CDC Goldstar	U of S - CDC	CANTERRA SEEDS
CDC Kindersley	U of S - CDC	SeCan Members
CDC Meredith	U of S - CDC	SeCan Members
CDC PlatinumStar	U of S - CDC/Sapporo/PML	CANTERRA SEEDS
CDC PolarStar	U of S - CDC/Sapporo/PML	CANTERRA SEEDS
Cerveza	AAFC (Brandon)	Mastin Seeds
Lowe	FCDC (Lacombe)	SeCan Members
Major	AAFC (Brandon)	Alliance Seed
Merit 57	Busch Ag Res. Inc.	CANTERRA SEEDS
Newdale	AAFC (Brandon)	FP Genetics
Sirish	Syngenta AG	Syngenta Canada

#### Six-Row

Legacy	Busch Ag Res. Inc.	Proven Seed/FP Genetics
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## OAT

#### Milling

AAC Justice	AAFC (Winnipeg)	FP Genetics
AC Juniper	AAFC (Lacombe)	Mastin Seeds
AC Morgan	AAFC (Lacombe)	SeCan Members
Akina	Lantmannen SW Seed	La Coop fédérée
CDC Arborg	U of S - CDC	FP Genetics
CDC Dancer	U of S - CDC	FP Genetics/Cargill

CDC Minstrel	U of S - CDC	FP Genetics
CDC Norseman	U of S - CDC	SeCan Members
CDC Orrin	U of S - CDC	FP Genetics/Cargill
CDC Ruffian	U of S - CDC	FP Genetics
CDC Seabiscuit	U of S - CDC	CANTERRA SEEDS
CS Camden	Lantmannen SW Seed	CANTERRA SEEDS
Derby	U of S - CDC	Proven Seed/Mastin Seeds
Kara	Lantmannen SW Seed	La Coop Fédérée
ORe3541M	Oat Advantage	SeCan Members
ORe3542M	Oat Advantage	SeCan Members
Triactor	Lantmannen SW Seed	CANTERRA SEEDS

### Feed

AC Mustang	AAFC (Lacombe)	Mastin Seeds
CDC Nasser	U of S - CDC	T & L Seeds

### Forage

CDC Baler	U of S - CDC	FP Genetics
CDC Haymaker	U of S - CDC	SeCan Members
Murphy	AAFC (Lacombe)	SeCan Members

## FALL RYE

Brasetto	KWS Lochow GMBH	FP Genetics
Guttino	KWS Lochow GMBH	SeedNet Inc.
KWS Bono	KWS Lochow GMBH	FP Genetics
KWS Daniello	KWS Lochow GMBH	SeedNet Inc.
KWS Gatano	KWS Lochow GMBH	FP Genetics
Hazlet	AAFC (Swift Current)	SeCan Members
Prima	AAFC (Swift Current)	SeCan Members

## TRITICALE - SPRING

AAC Delight	AAFC (Lethbridge)	Fabian Seeds Ltd.
AC Ultima	AAFC (Swift Current)	FP Genetics
Brevis	AAFC (Swift Current)	Wagon Wheel Seed Corp
Bumper	AAFC (Swift Current)	SeCan Members
Bunker	FCDC (Lacombe)	FP Genetics
Pronghorn	FCDC (Lacombe)	Progressive Seeds
Sunray	AAFC (Lethbridge)	SeedNet Inc.
Taza	FCDC (Lacombe)	Solick Seeds
Tyndal	FCDC (Lacombe)	SeCan Members

## TRITICALE - WINTER

Bobcat	FCDC (Lacombe)	Corns Brothers Farm
Louma	FCDC (Lacombe)	Corns Brothers Farm
Metzger	FCDC (Lacombe)	Haney Farms Ltd.

## FLAX

AAC Bravo	AAFC (Morden)	FP Genetics
AAC Marvelous	AAFC (Morden)	FP Genetics
AAC Prairie Sunshine	AAFC (Morden)	SeCan Members
CDC Bethune	U of S - CDC	SeCan Members
CDC Buryu	U of S - CDC	SeCan Members
CDC Glas	U of S - CDC	SeCan Members
CDC Neela	U of S - CDC	CANTERRA SEEDS
CDC Plava	U of S - CDC	SeCan Members
CDC Rowland	U of S - CDC	SeCan Members
CDC Sanctuary	U of S - CDC	SeCan Members
CDC Sorrel	U of S - CDC	SeCan Members
Prairie Sapphire	AAFC (Morden)	Alliance Seed
Prairie Thunder	AAFC (Morden)	CANTERRA SEEDS
Topaz	Nutrien Ag Solutions (Canada)	Alliance Seed
VT50	Nutrien Ag Solutions (Canada)	Proven Seed/Nutrien Ag Solutions, Inc
WestLin 60	Nutrien Ag Solutions (Canada)	Proven Seed/Nutrien Ag Solutions, Inc
WestLin 61	Nutrien Ag Solutions (Canada)	Proven Seed/Nutrien Ag Solutions, Inc
WestLin 71	Nutrien Ag Solutions (Canada)	Proven Seed/Nutrien Ag Solutions, Inc

## CANADA WESTERN AMBER DURUM

AAC Cabri	AAFC (Swift Current)	SeCan Members
AAC Congress	AAFC (Swift Current)	CANTERRA SEEDS

AAC Current	AAFC (Swift Current)	Alliance Seed.
AAC Marchwell VB	AAFC (Swift Current)	SeCan Members
AAC Raymore	AAFC (Swift Current)	SeCan Members
AAC Spitfire	AAFC (Swift Current)	SeCan Members
AAC Stronghold	AAFC (Swift Current)	SeCan Members
AAC Succeed VB	AAFC (Swift Current)	FP Genetics
AC Navigator	AAFC (Swift Current)	Proven Seed/Nutrien Ag Solutions, Inc
Brigade	AAFC (Swift Current)	Proven Seed/Nutrien Ag Solutions, Inc
CDC Alloy	U of S - CDC	FP Genetics
CDC Carbide VB	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
CDC Credence	U of S - CDC	CANTERRA SEEDS
CDC Desire	U of S - CDC	Syngenta Canada
CDC Dynamic	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
CDC Fortitude	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
CDC Verona	U of S - CDC	Alliance Seed.
CDC Vivid	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
Enterprise	AAFC (Swift Current)	CANTERRA SEEDS
Strongfield	AAFC (Swift Current)	SeCan Members
Transcend	AAFC (Swift Current)	FP Genetics

## CANADA WESTERN RED SPRING

5604HR CL	Syngenta Seeds Canada Inc.	Proven Seed/Nutrien Ag Solutions, Inc
AAC Alida VB	AAFC (Swift Current)	SeCan Members
AAC Brandon	AAFC (Swift Current)	SeCan Members
AAC Cameron VB	AAFC (Brandon)	CANTERRA SEEDS
AAC Connery	AAFC (Swift Current)	CANTERRA SEEDS
AAC Elie	AAFC (Swift Current)	Alliance Seed
AAC Jatharia VB	AAFC (Swift Current)	SeCan Members
AAC Pervail VB	AAFC (Winnipeg)	Alliance Seed
AAC Redberry	AAFC (Swift Current)	Alliance Seed
AAC Redwater	AAFC (Winnipeg)	SeCan Members
AAC Tisdale	AAFC (Swift Current)	SeCan Members
AAC Viewfield	AAFC (Swift Current)	FP Genetics
AC Barrie	AAFC (Swift Current)	SeCan Members
AC Intrepid	AAFC (Swift Current)	CANTERRA SEEDS
AC Splendor	AAFC (Winnipeg)	SeCan Members
Carberry	AAFC (Swift Current)	SeCan Members
Cardale	AAFC (Winnipeg)	Seed Depot
Coleman	U of Alberta	Lefsrud Seed
CDC Adamant VB	U of S - CDC	FP Genetics
CDC Abound	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
CDC Bradwell	U of S - CDC	SeCan Members
CDC Go	U of S - CDC	Public release U of S - CDC
CDC Hughes VB	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
CDC Landmark VB	U of S - CDC	FP Genetics
CDC Plentiful	U of S - CDC	FP Genetics
CDC Stanley	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
CDC Titanium VB	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
CDC Utmost VB	U of S - CDC	FP Genetics
CDC VR Morris	U of S - CDC	Proven Seed/Nutrien Ag Solutions, Inc
Glenn	NDSU	CANTERRA SEEDS
Go Early	U of Alberta	Mastin Seeds
Parata	U of Alberta	SeCan Members
Muchmore	AAFC (Swift Current)	FP Genetics
Shaw VB	AAFC (Winnipeg)	SeCan Members
Stettler	AAFC (Swift Current)	SeCan Members
Superb	AAFC (Winnipeg)	SeCan Members
SY433	Syngenta Seeds Canada Inc.	Syngenta Canada



SY479 VB	Syngenta Seeds Canada Inc.	Alliance Seed
SY Chert	Syngenta Seeds Canada Inc.	Syngenta Canada
SY Obsidian	Syngenta Seeds Canada Inc.	Richardson Intl
SY Slate	Syngenta Seeds Canada Inc.	Syngenta Canada
SY Sovite	Syngenta Seeds Canada Inc.	Syngenta Canada
Thorsby	U of Alberta	CANTERRA SEEDS
WR859CL	Syngenta Seeds Canada Inc.	Richardson Intl

### CANADA WESTERN HARD WHITE SPRING

AAC Cirrus	AAFC (Swift Current)	FP Genetics
AAC Iceberg	AAFC (Winnipeg)	Alliance Seed
CDC Whitewood	U of S - CDC	SeCan Members
Snowbird	AAFC (Winnipeg)	FP Genetics
Snowstar	AAFC (Winnipeg)	SeCan Members
Whitehawk	AAFC (Winnipeg)	SeCan Members

### CANADA PRAIRIE SPRING RED

5700PR	Syngenta Seeds Canada Inc.	Proven Seed/Nutrien Ag Solutions, Inc
AAC Crossfield	AAFC (Winnipeg)	CANTERRA SEEDS
AAC Entice	AAFC (Winnipeg)	Proven Seed/Nutrien Ag Solutions, Inc
AAC Foray VB	AAFC (Winnipeg)	SeCan Members
AAC Goodwin	AAFC (Swift Current)	SeCan Members
AAC Penhold	AAFC (Swift Current)	SeCan Members
AAC Ryley	AAFC (Swift Current)	SeCan Members
AAC Tenacious VB	AAFC (Winnipeg)	Alliance Seed
CDC Terain	U of S - CDC	FP Genetics
SY985	Syngenta Seeds Canada Inc.	Proven Seed / Richardson Intl
SY995	Syngenta Seeds Canada Inc.	Syngenta Seeds Canada Inc.
SY Rowyn	Syngenta Seeds Canada Inc.	Alliance Seed

### CANADA WESTERN SPECIAL PURPOSE

AAC Awesome VB	AAFC (Lethbridge)	SeCan Members
AAC Innova	AAFC (Lethbridge)	Alliance Seed
AAC NRG097	AAFC (Swift Current)	CANTERRA SEEDS
Alderon	KWS-UK	SeCan Members
CDC NRG003	U of S - CDC	CANTERRA SEEDS

Charing VB	KWS-UK	SeCan Members
Pasteur	Wiersum Plant Breeding	SeCan Members
Sparrow VB	KWS-UK	SeCan Members
SY087	Syngenta Seeds Canada Inc.	Syngenta Canada

### CANADA WESTERN SOFT WHITE SPRING

AAC Chiffon VB	AAFC (Lethbridge)	SeedNet Inc.
AAC Indus VB	AAFC (Lethbridge)	SeCan Members
AAC Paramount VB	AAFC (Lethbridge)	SeCan Members
AC Andrew	AAFC (Lethbridge)	SeCan Members
Sadash VB	AAFC (Lethbridge)	SeCan Members

### CANADA NORTHERN HARD RED

AAC Concord	AAFC (Swift Current)	CANTERRA SEEDS
AC Foremost	AAFC (Swift Current)	SeCan Members
CDC Cordon CLPlus VB	U of S - CDC	
Conquer VB	AAFC (Winnipeg)	CANTERRA SEEDS
Elgin ND	NDSU	FP Genetics
Harvest	AAFC (Winnipeg)	FP Genetics
Lillian	AAFC (Swift Current)	SeCan Members

### CANADA WESTERN RED WINTER

AAC Elevate	AAFC (Lethbridge)	SeCan Members
AAC Gateway	AAFC (Lethbridge)	Seed Depot
AAC Goldrush	AAFC (Lethbridge)	FP Genetics
AAC Wildfire	AAFC (Lethbridge)	SeCan Members
AC Tempest	AAFC (Lethbridge)	SeCan Members
CDC Buteo	U of S - CDC	SeCan Members
CDC Chase	U of S - CDC	CANTERRA SEEDS
Emerson	AAFC (Lethbridge)	CANTERRA SEEDS
Flourish	AAFC (Lethbridge)	SeCan Members
Moats	U of S - CDC	SeCan Members

### CANADA WESTERN EXPERIMENTAL WINTER WHEAT

AAC Icefield	AAFC (Lethbridge)	FP Genetics
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### CANADA WESTERN SPECIAL PURPOSE WINTER WHEAT

Pintail	FCDC (Lacombe)	Mastin Seeds
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# FEED AND FOOD BARLEY

Variety	2 or 6 row	Awn Type	Over- all Station Years of Test- ing	Overall Yield	Yield Category (% AC Metcalfe):				Agronomic Characteristics:					Disease Tolerance:						
					Low < 75 (bu/ ac)	Medium 75 100 (bu/ac)	High 100 125 (bu/ ac)	V. High > 125 (bu/ ac)	Mat. Rating	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resis. to Ldg.	Loose Smut	Other Smuts	Root Rot	Scald	Net Blotch:		
																		Spot form	Net form	FHB
GENERAL PURPOSE																				
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to AC Metcalfe)																				
AC Metcalfe (bu/ac)				100	59	88	110	137												
AC Metcalfe	2	R	538	100	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
Altorado ☺	2	R	54	113	XX	119	109	114	M	52	49	75	G	MR	MR	MR	S	MR	S	I
CDC Austenson ☺	2	R	92	113	110	113	111	115	L	53	47	79	G	S	R	I	S	R	MS	I
Claymore ☺	2	R	69	114	106	114	111	117	L	52	47	79	G	S	R	I	S	I	S	I
Oreana ☺	2	R	69	111	105	110	114	112	L	53	51	67	VG	S	R	I	S	MR	S	S
Previously tested varieties																				
AC Metcalfe	2	R		100	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
Brahma ☺	2	R	87	111	112	109	113	111	M	53	47	74	G	MS	R	MR	S	I	I	I
Busby ☺	2	R	45	104	107	103	106	103	M	53	49	78	G	S	MR	S	I	MR	MS	I
CDC Coalition ☺	2	R	57	110	107	112	108	109	L	53	47	74	G	R	R	I	S	MR	S	I
CDC Cowboy ☺	2	R	75	95	107	94	93	96	L	52	55	103	F	MS	MR	I	MS	MR	I	MR
CDC Maverick ☺	2	S	43	95	XX	90	97	96	M	54	55	98	F	S	R	I	MS	MR	I	MR
CDC Trey	2	R	106	103	101	105	101	105	M	52	50	80	G	MS	R	MR	MS	R	I	I
Champion † ☺	2	R	178	112	120	111	111	111	M	53	49	76	G	S	R	MR	S	I	S	I
Canmore ☺	2	R	40	107	XX	104	111	108	M	52	49	73	G	R	R	I	MR	MR	MS	I
CONLON ☺	2	S	63	94	97	93	93	96	VE	52	52	80	G	I	I	MR	S	MR	I	MR
Gadsby ☺	2	R	45	112	XX	114	114	108	M	53	51	83	F	R	R	I	R	MR	MS	I
Ponoka † ☺	2	R	120	108	101	107	110	109	L	51	46	80	G	R	R	I	MR	MR	MS	I
Seebe †	2	R	229	101	97	100	102	100	VL	52	50	86	G	S	R	I	MR	MS	S	MR
AC Ranger	6	S	48	107	101	99	118	107	L	49	43	74	F	MS	I	MR	MS	MR	I	S
AC Rosser †	6	S	166	108	101	102	109	113	M	48	41	82	G	MS	R	MR	S	MR	I	S
Amisk ☺	6	SS	40	105	XX	105	104	108	M	49	46	69	VG	S	MS	MS	I	MR	I	S
Chigwell ☺	6	S	43	104	XX	98	106	111	M	49	41	76	G	MS	MR	MS	MR	MR	I	S
Muskwa † ☺	6	S	44	105	XX	103	105	110	M	50	42	73	G	MS	R	MS	MR	MR	MS	S
Sundre ☺	6	S	72	110	100	105	112	117	L	51	43	86	G	MS	R	MS	R	I	MS	S
Trochu ☺	6	S	136	107	101	102	109	112	M	49	41	78	G	MS	MR	MR	I	MR	S	I
Vivar ☺	6	R	175	109	97	105	109	115	M	49	44	73	VG	I	R	MR	I	MR	R	S
HULLLESS																				
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to AC Metcalfe)																				
CDC Ascent ☺	2	R	42	97	XX	108	93	94	M	60	44	82	G	MR	MR	I	MS	MR	S	MR
Previously tested varieties																				
Falcon †	6	S	181	83	72	83	91	89	E	58	35	68	VG	MS	MR	I	I	I	I	S

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for AC Metcalfe is 95 days and is rated as Medium (M). Varieties rated Intermediate (I) to Susceptible (S) for smuts should be treated with a systemic seed treatment to reduce the potential for infection. Hullless varieties leave the hull in the field and thus grain yields comparable to hulled varieties are 9 - 12% lower. Handling of hullless varieties should be minimized to avoid seed damage. Falcon is a normal starch barley suitable for food use. New registrations: AB Cattlelac (SR14501) and AB Advantage (SR16511), insufficient data to describe: AB Cattlelac and AB Advantage. XX Insufficient data to describe. † Flagged for possible removal in 2020.



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CDC Ruffian

**Barley**  
CDC Copeland  
CDC Bow

**HR Wheat**  
AAC Ellie  
AC Muchmore  
CDC Landmark VB (Midge)  
AAC Viewfield  
AAC Redberry (Early)

**CPS Wheat**  
AAC Foray VB (Midge)

**Faba Beans**  
F-B 94

**Yellow Peas**  
CDC Amarillo  
AAC Lacombe  
AAC Carver  
CDC Inca

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## BARLEY - FEED SIX ROW

### AB CATTLELAC

**BI: FCDC (Lacombe), DIST: Alliance Seed**

Friedel, Brock / Fairview / (780) 201-7425  
Holmstrom, Darrell / Killam / (780) 385-3574  
Sim, Darwin & Derek / Ponoka / (780) 372-2111  
Stamp Seeds / Enchant / (403) 739-2233

### AC ALBRIGHT

**BI: N/A, DIST: SeCan Members**

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

### AC RANGER

**BI: AAFC (Brandon), DIST: FP Genetics**

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

### AC ROSSER

**BI: AAFC, Dist: SeCan Members**

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

### AMISK

**BI: FCDC (Lacombe), DIST: SeCan Members**

Beamish, Dale / Jarvie / (780) 954-2166  
Benci, Dennis / Carmangay / (403) 643-2294  
Dallas, Bradley C. / Bowden / (403) 224-2162  
Dewindt, Harry & Hoyme, Renee / Thorhild / (780) 398-2377  
Feenstra, Lloyd / Barons / (403) 757-3737  
Jones, Greg Thomas & Tristan / Ponoka / (403) 783-6495  
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535  
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617  
Webber, Curtis / Parkland County / (780) 963-6897  
Wiebe, Paul & Julie / Acme / (403) 510-9260  
Wildeman, Russell / Clive / (403) 470-8528

### CHIGWELL

**BI: FCDC (Lacombe), DIST: SeCan Members**

Anderson, Ken & Evelyn / Barrhead / (780) 674-5670  
Feenstra, Lloyd / Barons / (403) 757-3737

### SUNDRE

**BI: FCDC (Lacombe), DIST: Mastin Seeds**

Feenstra, Lloyd / Barons / (403) 757-3737  
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072

Jones, Danny / Beaverlodge / (780) 354-8089  
Lyster, Norman / Stettler / (403) 742-4456  
Mastin, Robert B. / Sundre / (403) 556-2609

### TROCHU

**BI: FCDC (Lacombe), DIST: SeCan Members**

Kittle, James William & Andrew / Viking / (780) 336-2583  
Webber, Curtis / Parkland County / (780) 963-6897

### VIVAR

**BI: FCDC (Lacombe), DIST: SeCan Members**

McDonald, Grant / Didsbury / (403) 335-8188

## BARLEY - FEED TWO ROW

### BRAHMA

**BI: Westbred LLC., DIST: Nutrien Ag Solutions/Proven Seed**

Massey, Derwin & Kirby / Stettler / (403) 883-2503  
Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

### BUSBY

**BI: FCDC (Lacombe), DIST: Mastin Seeds**

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

### CANMORE

**BI: FCDC (Lacombe), DIST: Canterra Seed**

Benci, Dennis / Carmangay / (403) 643-2294  
Haney Farms Ltd. / Picture Butte / (403) 738-4517  
Lindholm Seed Farm / New Norway / (780) 352-3240  
King, Harold & Webb, David Gordon / Three Hills / (403) 443-3333  
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736  
Rasmussen, Brian Dale & Joel Trevor / Standard / (403) 644-3800  
Rix, Graham / Wetaskiwin / (780) 360-9234  
Sendziak Seed Farm / Edmonton / (780) 434-1322  
Shultz, Shawn / Didsbury / (403) 335-3694  
Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228  
Solick Seeds Ltd. / Halkirk / (403) 884-2358

### CDC AUSTENSON

**BI: CDC, DIST: SeCan Members**

Alect Seeds / Three Hills / (403) 443-9599  
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670  
Benci, Dennis / Carmangay / (403) 643-2294

# SIRISH

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**Contact: 403-556-2890**

**Email: brianellisseed@gmail.com**

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Brummelhuis, Mitchell & Mack / Vauxhall / (403) 654-7515				C
Card, Gordon B. & Rhett / Magrath / (403) 758-3444				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900		F		C
Clark, Todd / Edmonton / (780) 499-5060				C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456			R	C
Dyck, Heinz W. & Colin & Alan & Kelton / Rosemary / (403) 378-3321	S			C
Fabian, Patrick V. / Tilley / (403) 377-2000				C
Feenstra, Lloyd / Barons / (403) 757-3737				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Hadland, Edward / Baldonnel / (250) 793-9746			R	C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072				C
Hoff, Peter Edward / Gleichen / (403) 734-2140	S	F	R	C
Huvenaars, Carl / Hays / (403) 725-2213				C
Jones, Greg Thomas & Tristan / Ponoka / (403) 783-6495	S			C
Kemp, Richard L. / Red Deer County / (403) 227-4836				C
Klapstein, Dallas / Calmar / (780) 819-4993				C
Limoges, Richard / McLennan / (780) 324-2335				C
Markert Seeds Ltd. / Vulcan / (403) 485-6708		F		C
Massey, Derwin & Kirby / Stettler / (403) 883-2503				C
McDonald, Gerald / Co. of Grande Prairie #1 / (780) 538-3868				C
McNelly, Bevin / Clyde / (780) 348-5749				C
Meinczinger, Matthew Jr. / Busby / (780) 349-2456				C
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736				C
Metzger, Don / Carbon / (403) 572-3284				C
Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713	S	F	R	C
Nemetz, Charlie, Jerritt & Lewis / Stettler / (403) 742-0436				C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Oatway's Seed Farm Ltd. / Clive / (403) 784-3001				C
Pare, Raymond A. / Wainwright / (780) 842-2073	S	F	R	C
Penwest Seeds / Three Hills / (403) 443-2577			R	C
St. Paul Municipal Seed Cleaning Assoc. Ltd. / St. Paul / (780) 645-3939				C
Schmermund, Donnie / Sturgeon County / (780) 967-2850				C
SeCan Association / Kanata / (613) 592-8600				C
Selte, Donald / Vermilion / (780) 853-2484				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Stamp Seeds / Enchant / (403) 739-2233			R	C
Templeton, Doran & Brant / Lethbridge / (403) 345-4144				C

Webber, Curtis / Parkland County / (780) 963-6897				C
Witdoud, Dale / Iron Springs / (403) 738-4395			R	C
<b>CDC COALITION</b> ☼				
<b>BI: CDC, DIST: Canterra Seeds</b>				
Cross, Douglas / Westlock / (780) 349-2587			R	C
Haney Farms Ltd. / Picture Butte / (403) 738-4517				C
Lindholm Seed Farm / New Norway / (780) 352-3240		S		C
Meinczinger, Matthew Jr. / Busby / (780) 349-2456				C
Plante, Jacques / St. Paul / (780) 645-4604				C
<b>CDC COWBOY</b> ☼				
<b>BI: CDC, DIST: SeCan Members</b>				
Airth, Jock & Linda / Brooks / (403) 362-4372				C
Degenhardt, Keith L. / Terry Lee & Kerry / Hughenden / (780) 856-2383			R	C
Jonk, Nicholas / Westlock / (780) 349-5458			R	C
Selte, Donald / Vermilion / (780) 853-2484			R	C
Stewart, E. Wilbur & Eldon / Big Valley / (403) 876-2784			R	C
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617	S	F		C
Webber, Curtis / Parkland County / (780) 963-6897				C
<b>CDC MAVERICK</b> ☼				
<b>BI: CDC, DIST: SeCan Members</b>				
Card, Gordon B. & Rhett / Magrath / (403) 758-3444		F		C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Degenhardt, Keith L. / Terry Lee & Kerry / Hughenden / (780) 856-2383			R	C
Hadland, Edward / Baldonnel / (250) 793-9746			R	C
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072				C
McDonald, Gerald / Co. of Grande Prairie #1 / (780) 538-3868			R	C
Metzger, Don / Carbon / (403) 572-3284				C
Mueller, Darcy / Three Hills / (403) 820-4115				C
St. Paul Municipal Seed Cleaning Assoc. Ltd. / St. Paul / (780) 645-3939				C
Selte, Donald / Vermilion / (780) 853-2484	S			C
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617		F		C
Webber, Curtis / Parkland County / (780) 963-6897			R	C
<b>CDC THOMPSON</b>				
<b>BI: CDC, DIST: N/A</b>				
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036			R	C
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535				C*
Trueblood, Brian G. / Dapp / (780) 954-3745			R	C
<b>CDC TREY</b>				
<b>BI: CDC, DIST: FP Genetics</b>				
Wood, Robert, Patricia & Marshall / Bowden / (403) 588-3548	S	F	R	C
<b>CLAYMORE</b> ☼				
<b>BI: Highland Specialty Grains, DIST: Nutrien Ag Solutions/Proven Seed</b>				
Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011			R	C
<b>CONLON</b> ☼				
<b>BI: NDSU, DIST: Seed Depot</b>				
Airth, Jock & Linda / Brooks / (403) 362-4372				C
Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228				C
<b>GADSBY</b> ☼				
<b>BI: FCDC (Lacombe) , DIST: SeCan Members</b>				
Harris, William P., Linda, Thomas & Alexander / Beaverlodge / (780) 354-2823	S	F		C
Schmermund, Donnie / Sturgeon County / (780) 967-2850				C
Stewart, E. Wilbur & Eldon / Big Valley / (403) 876-2784				C
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617	S*	F*		C
Webber, Curtis / Parkland County / (780) 963-6897				C
<b>OREANA</b> ☼				
<b>BI: Highland Specialty Grains, DIST: Nutrien Ag Solutions/Proven Seed</b>				
Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011		F	R	C
<b>SEEBE</b>				
<b>BI: FCDC (Lacombe) , DIST: SeCan Members</b>				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670				C
Webber, Curtis / Parkland County / (780) 963-6897			R	C

## BARLEY - TWO ROW HULLESS

<b>CDC ASCENT</b> ▲				
<b>BI: CDC, DIST: SeCan Members</b>				
Sim, Darwin & Derek / Ponoka / (780) 372-2111	S	F		
<b>CDC HILOSE</b> ☼				
<b>BI: CDC, DIST: N/A</b>				
Sendziak Seed Farm / Edmonton / (780) 434-1322			R	



### Fairview Co-operative Seed Cleaning Plant

Box 1510 Fairview, Alberta T0H 1L0

Phone: 780-835-2478 email: fcseedplant@gmail.com

Manager: Ernie Newman

Seed Cleaning • Color Sorting • Ergot Cleaning

Feed Sales • Bagging • Grain Testing

Certified Organic Facility

### Pedigreed Seed Available

#### OUR VARIETIES:

- Barley** • CDC Maverick
- Wheat** • HRS Varieties, Thorsby, Viewfield, AAC Brandon, CPS AAC Penhold
- Oats** • CDC Ruffian, CS Camden
- Peas** • AAC Carver Yellow, CDC Meadows
- Winter Wheat** • Pintail
- Canola** • CS2000, CS2200 CL, Canterra 1918, CS2400, Polish

We pride ourselves on Service





# 2019-2020 Recommended Malting Barley Varieties

**THE** Canadian Malting Barley Technical Centre (CMBTC) recommended list is designed to provide producers with an indication of which malting barley varieties have the greatest potential for selection and marketing. Each variety on the recommended list has been pilot scale tested at the CMBTC and all exhibit good malting and brewing characteristics. All varieties on the list are registered with the Canadian Food Inspection Agency (CFIA).

## Recommended Varieties

VARIETY	TYPE	MARKET COMMENTS	SEED DISTRIBUTOR
CDC COPELAND	2 ROW	ESTABLISHED DEMAND	SECAN
AC METCALFE	2 ROW	ESTABLISHED DEMAND	SECAN
AAC SYNERGY	2 ROW	GROWING DEMAND	SYNGENTA
AAC CONNECT	2 ROW	GROWING DEMAND	CANTERRA SEEDS
CDC BOW	2 ROW	GROWING DEMAND	SECAN
LEGACY	6 ROW	LIMITED DEMAND	FP GENETICS

- Marketing opportunities remain for Newdale (FP Genetics) and Bentley (CANTERRA SEEDS) in certain regions. Contact Canada Malting in Calgary for contracting opportunities.
- CDC PlatinumStar (CANTERRA SEEDS) is a closed-loop variety. Contact Prairie Malt/Cargill in Biggar for contracting opportunities.
- Demand for six-row malting barley is limited. Contact Viterra in Regina for Legacy contracting opportunities. Contact Malteurop in Winnipeg for Tradition (FP Genetics) and Celebration (CANTERRA SEEDS) contracting opportunities.
- In Eastern Canada, AC Metcalfe, Newdale and AAC Synergy have had the greatest success in selection in recent years.

## Varieties In Development

VARIETY	TYPE	MARKET COMMENTS	SEED DISTRIBUTOR
CDC FRASER	2 ROW	UNDERGOING SEED PROPAGATION	SECAN
LOWE	2 ROW	UNDERGOING SEED PROPAGATION	SECAN


- These newly registered varieties are undergoing seed propagation and commercial market development. Contact the seed distributor for opportunities to trial these promising new varieties.

## The CMBTC and its members recommend:

- Talk with your grain company representative, local elevator operators, malting companies, or the representative seed company about opportunities in your area to grow and market two-row and six-row malting barley varieties.
- Use certified seed to ensure varietal purity, reduce disease incidence and increase the likelihood of selection for malt.

## Questions?

For inquiries please contact the CMBTC by email at [cmbtc@cmbtc.com](mailto:cmbtc@cmbtc.com) or call 204-984-4399.



**Kittle Farms Ltd.**  
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**Andrew Kittle | Bill Kittle**  
 Phone: **780-336-2583**  
 Cell: **780-385-4900**  
 Box 296, Viking, Alberta T0B 4N0

**VICTOOR**  
**Seed Farm Inc.**



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


Rene (780) 499-3387  
Jamie (780) 914-6027

# MALTING BARLEY

Variety	2 or 6 row	Awn Type	Overall Station Years of Testing	Yield Category (% AC Metcalfe):					Agronomic Characteristics:					Disease Tolerance:						
				Overall Yield	Low	Med.	High	V. High	Mat. Rating	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resist- ance to Lodging	Loose Smut	Other Smuts	Root Rot	Scald	Net Blotch:		
					< 75	75 - 100	100 - 125	> 125										Spot	Net	FHB
					(bu/ ac)	(bu/ac)	(bu/ac)	(bu/ac)										form	form	
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to AC Metcalfe)																				
AC Metcalfe (bu/ac)				100	59	88	110	137												
AC Metcalfe	2	R	538	100	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
AAC Connect ☺	2	R	42	104	XX	108	102	104	M	51	50	79	G	S	R	MS	S	MR	I	MR
AAC Synergy ☹	2	R	69	114	121	114	112	114	M	51	49	78	F	S	I	I	S	R	MR	MS
CDC Copeland ☹	2	R	137	103	98	104	104	104	M	51	48	81	F	MS	I	I	S	I	I	I
CDC Goldstar ▲	2	R	27	111	XX	XX	106	112	M	52	49	84	G	I	R	XX	S	MR	I	MS
Lowe ▲	2	R	42	111	XX	113	117	106	L	51	50	87	F	R	R	XX	MR	MR	I	MR
Sirish ▲	2	R	42	112	XX	114	110	113	M	51	49	69	G	S	R	XX	MR	MS	MS	MS
Previously tested varieties																				
AC Metcalfe	2	R		100	100	100	100	100	M	52	46	79	F	R	I	I	S	I	S	I
Bentley ☹	2	R	77	105	109	102	105	106	M	52	47	81	G	MS	MR	MR	S	R	MS	MS
CDC Bow	2	R	42	104	XX	106	105	104	M	51	48	77	VG	S	I	MS	MS	MR	S	MS
CDC Clear (hullless)	2	R	43	95	XX	92	100	XX	L	62	47	85	G	R	R	I	S	R	MS	MR
CDC Fraser	2	R	39	109	XX	114	110	108	M	51	49	76	G	R	MR	MS	MS	MR	MR	I
CDC Kindersley ☹	2	R	47	104	XX	102	104	104	E	53	43	78	G	S	R	I	S	MR	MS	I
CDC Meredith † ☹	2	R	65	107	102	108	108	107	L	51	46	76	F	R	MR	MR	S	R	S	I
CDC PlatinumStar ▲	2	R	42	106	XX	108	107	102	M	53	49	82	F	R	R	S	S	MR	I	MR
CDC PolarStar † ☹	2	R	43	101	XX	103	105	97	M	52	44	79	G	S	R	MS	S	MR	S	MR
Cerveza ☺	2	R	49	109	XX	109	108	109	M	51	46	74	F	R	R	I	S	MR	MS	I
Major ☹	2	R	72	107	104	108	107	106	M	51	45	73	G	R	MR	I	MS	MR	I	I
Merit 57 †	2	R	87	109	110	108	109	111	VL	51	44	79	F	MS	S	I	MS	MR	MS	MS
Newdale ☺	2	R	94	105	106	104	105	106	M	52	46	73	F	S	MR	MR	MS	MR	I	I
Legacy	6	SS	122	99	93	95	102	103	M	49	39	82	G	I	MR	MR	S	MR	S	MS

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for AC Metcalfe is 95 days and is rated as Medium (M). Varieties rated Intermediate (I) to Susceptible (S) for smuts should be treated with a systemic seed treatment to reduce the potential for infection. The Canadian Malting Barley Technical Centre (CMBTC) evaluates and recommends malting barley varieties for industry acceptance. Please refer to the 2018-2019 CMBTC Recommended Malt Barley Variety List for more information. CDC Clear is a hullless malting variety. New registrations: CDC Copper (TR14150), TR15155 and TR16629, insufficient data to describe: CDC Copper, TR15155 and TR16629. XX - Insufficient data to describe. † - Flagged for possible removal in 2020.

## Alberta and British Columbia Pedigreed Seed Growers Directory of Varieties Produced in 2018

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

## WILDEMAN SEED FARMS

Specializing in

- CDC Copeland 2 row Malt
- Amisk 6-row seed
- AC Morgan Milling Oats
- AAC Brandon Wheat
- CDC Spectrum Peas

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**Eliason**  
FARMS LTD.  
WRENTHAM, AB

Malt Barley Varieties:

AAC Connect  
AAC Synergy  
AC Metcalfe  
CDC Copeland  
CDC Bow

Durum Varieties:

AAC Spitfire  
AAC Stronghold

Yellow Peas:

CDC Inca

Wrentham, AB • P: 403 222 2258 • E: eliasonfarms@gmail.com



## BARLEY - MALTING SIX ROW

### LEGACY

**BI: Busch Ag Res. Inc., DIST: Nutrien Ag Solutions/Proven Seed**  
Wood, Robert, Patricia & Marshall / Bowden / (403) 588-3548

## BARLEY - MALTING TWO ROW

### AAC CONNECT ▲

**BI: AAFC (Brandon), DIST: Canterra Seeds**

Cross, Douglas / Westlock / (780) 349-2587  
Eliason, Bruce W. / Wrentham / (403) 222-2258  
Ellis, Brian / Olds / (403) 556-2890  
Haney Farms Ltd. / Picture Butte / (403) 738-4517  
Penwest Seeds / Three Hills / (403) 443-2577  
Rasmussen, Brian Dale & Joel Trevor / Standard / (403) 644-3800  
Richards, Dan / Sexsmith / (780) 766-2266  
Rix, Graham / Wetaskiwin / (780) 360-9234  
Sendziak Seed Farm / Edmonton / (780) 434-1322  
Solick Seeds Ltd. / Halkirk / (403) 884-2358  
Wuthrich, David / Cecil Lake / (250) 781-3527  
XSeed Ag / Lacombe / (403) 896-2992

### AAC SYNERGY ☼

**BI: AAFC (Brandon), DIST: Syngenta Seeds**

Eliason, Bruce W. / Wrentham / (403) 222-2258  
Gatz, Blaine Gerald / Crossfield / (403) 946-3994  
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268  
Lindholm Seed Farm / New Norway / (780) 352-3240  
Markert Seeds Ltd. / Vulcan / (403) 485-6708  
Strathmore Seed Cleaning Plant / Strathmore / (403) 934-3421

### AC METCALFE

**BI: AAFC (Brandon), DIST: SeCan Members**

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
Cornish, Bob / Airdrie / (403) 948-3070  
Dueck, Ralph E. & Brent / Olds / (403) 556-2602  
Eliason, Bruce W. / Wrentham / (403) 222-2258  
Foster's Seed & Feed Limited / Beaverlodge / (780) 354-2107  
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500  
Limoges, Richard / McLennan / (780) 324-2335  
McNelly, Bevin / Clyde / (780) 348-5749  
Murray, Bruce & Wesley / Lethbridge County / (403) 327-9389  
Stamp Seeds / Enchant / (403) 739-2233  
Svean, Alan Carl & Scott / Rivercourse / (780) 745-2578  
Webber, Curtis / Parkland County / (780) 963-6897  
Wheatcrest Farms / Lomond / (403) 792-3696

### BENTLEY ☼

**BI: FCDC (Lacombe), Dist: Canterra Seeds**

Solick Seeds Ltd. / Halkirk / (403) 884-2358

### CDC BOW ☼

**BI: CDC, DIST: SeCan Members**

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
Eliason, Bruce W. / Wrentham / (403) 222-2258  
Goldstrom, David / Red Deer County / (403) 227-2133  
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929  
Huvenaars, Carl / Hays / (403) 725-2213  
Knight, William, Craig & Brian / Tees / (403) 784-3633  
Kopjar, Gerald M. / Rowley / (403) 368-2409  
Metzger, Don / Carbon / (403) 572-3284  
Nisbet, Andrew E. & Diane E. / Mountain View County / (403) 224-3788  
Shultz, Shawn / Didsbury / (403) 335-3694  
Sim, Darwin & Derek / Ponoka / (780) 372-2111  
Solick Seeds Ltd. / Halkirk / (403) 884-2358  
Stamp Seeds / Enchant / (403) 739-2233  
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535  
True Seeds Ltd. / Redwater / (780) 777-5885  
Wagner, Terry & Loree / Lacombe / (403) 782-2107  
Wheatcrest Farms / Lomond / (403) 792-3696  
Witdouch, Dale / Iron Springs / (403) 738-4395

### CDC CLEAR (HULLESS) ☼

**BI: CDC, DIST: SeCan Members**

Sendziak Seed Farm / Edmonton / (780) 434-1322

### CDC COPELAND ☼

**BI: CDC, DIST: SeCan Members**

Alect Seeds / Three Hills / (403) 443-9599  
Benci, Dennis / Carmangay / (403) 643-2294  
Bright, David / New Norway / (780) 855-2240  
Carlson, David / Gwynne / (780) 352-6871  
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
Dallas, Bradley C. / Bowden / (403) 224-2162  
Dueck, Ralph E. & Brent / Olds / (403) 556-2602  
Dyck, Ernie / La Crete / (780) 821-9445  
Eliason, Bruce W. / Wrentham / (403) 222-2258  
Forward Seed Farm / County of Barrhead / (780) 674-3822  
Goldstrom, David / Red Deer County / (403) 227-2133  
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929  
Harris, William P., Linda, Thomas & Alexander / Beaverlodge / (780) 354-2823  
Hartzler, Leonard / Carstairs / (403) 337-2416  
Kemp, Richard L. / Red Deer County / (403) 227-4836  
King, Harold & Webb, David Gordon / Three Hills / (403) 443-3333  
Kittle, James William & Andrew / Viking / (780) 336-2583  
Knight, William, Craig & Brian / Tees / (403) 784-3633  
Kopjar, Gerald M. / Rowley / (403) 368-2409  
Lindholm Seed Farm / New Norway / (780) 352-3240  
MacFarquhar, Bill / Cremona / (403) 337-2910  
Macy, Tim / Radway / (780) 699-4073  
Massey, Derwin & Kirby / Stettler / (403) 883-2503  
McNelly, Bevin / Clyde / (780) 348-5749  
Moffitt, Kenneth & Raymond / Radway / (780) 818-6550  
Mueller, Darcy / Three Hills / (403) 820-4115  
Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713  
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645  
Nisbet, Andrew E. & Diane E. / Mountain View County / (403) 224-3788  
Penwest Seeds / Three Hills / (403) 443-2577  
Richards, Dan / Sexsmith / (780) 766-2266  
Schmermund, Donnie / Sturgeon County / (780) 967-2850  
Sim, Darwin & Derek / Ponoka / (780) 372-2111  
Solick Seeds Ltd. / Halkirk / (403) 884-2358  
Svean, Alan Carl & Scott / Rivercourse / (780) 745-2578  
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253  
Wagner, Terry & Loree / Lacombe / (403) 782-2107  
Wiebe, Paul & Julie / Acme / (403) 510-9260  
Wildeman, Russell / Clive / (403) 470-8528  
Zwack, Thomas / Daysland / (780) 374-2450

### CDC COPPER

**BI: CDC, DIST: FP Genetics**

King, Harold & Webb, David Gordon / Three Hills / (403) 443-3333

### CDC FRASER ▲

**BI: CDC, DIST: SeCan Members**

Hadway, W. Tom & Carol / Didsbury / (403) 335-4929  
Jones, Greg Thomas & Tristan / Ponoka / (403) 783-6495  
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645  
Sayer, Roger / Carstairs / (403) 337-5847  
Stamp Seeds / Enchant / (403) 739-2233

### CDC GOLDSTAR ☼

**BI: CDC, DIST: Canterra Seeds**

Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268

### CDC KINDERSLEY ☼

**BI: CDC, DIST: SeCan Members**

Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645

### CDC MEREDITH ☼

**BI: CDC, DIST: SeCan Members**

Foster, Norman R. / Beaverlodge / (780) 354-2107  
Harris, William P., Linda, Thomas & Alexander / Beaverlodge / (780) 354-2823  
Wheatcrest Farms / Lomond / (403) 792-3696

### LOWE ▲

**BI: FCDC (Lacombe), DIST: SeCan Members**

Mueller, Darcy / Three Hills / (403) 820-4115

### MAJOR ☼

**BI: AAFC (Brandon), DIST: Alliance Seed**

Wood, James / Elnora / (496) 596-4189

### SIRISH ▲

**BI: Syngenta Ag, DIST: Syngenta Canada**

Ellis, Brian / Olds / (403) 556-2890

# OATS

Variety	Overall Station Years of Testing	Yield Category (% CDC Dancer):					Agronomic Characteristics:					
		Overall Yield	Low < 70 (bu/ac)	Medium 70 - 100 (bu/ac)	High 100 - 130 (bu/ac)	V. High > 130 (bu/ac)	Maturity Rating	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to Lodging	Tolerance to Smuts
MILLING												
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Dancer)												
CDC Dancer (bu/ac)		97	48	84	110	146						
CDC Dancer 🌾	162	100	100	100	100	100	E	41	37	96	G	R
AC Morgan	86	113	114	110	117	114	M	40	41	93	VG	I
CDC Arborg ▲	24	120	XX	115	127	115	M	41	42	97	VG	R
CDC Ruffian 🌾	51	111	110	110	116	107	M	40	40	88	G	R
CS Camden	40	111	XX	109	112	109	L	40	39	89	VG	I
Kara	33	111	XX	102	116	110	M	41	41	86	VG	MR
ORe3541M	24	102	XX	95	107	103	M	41	41	90	VG	R
ORe3542M	24	108	XX	103	113	105	M	40	42	89	VG	R
Previously tested varieties												
CDC Dancer 🌾		100	100	100	100	100	E	41	37	96	G	R
AAC Justice	28	104	XX	99	109	XX	M	42	36	91	G	R
AC Juniper	80	104	102	104	106	105	E	41	38	94	VG	I
Akina	30	109	XX	103	114	111	M	40	39	90	VG	R
CDC Minstrel 🌾	61	104	103	103	105	105	M	39	38	88	VG	R
CDC Norseman	27	101	XX	100	101	XX	E	41	38	94	G	MS
CDC Orrin 🌾	52	109	113	107	107	XX	M	41	40	84	G	R
CDC Seabiscuit 🌾	30	111	124	106	108	108	M	39	41	101	G	MR
Derby	79	101	103	102	96-	105	L	41	39	103	G	MS
Triactor 🌾	47	110	109	108	114	110	M	38	38	89	G	R
FEED												
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Dancer)												
AC Mustang	49	115	120	112	112	113	L	42	37	102	G	I
Previously tested varieties												
CDC Nasser	31	116	132	107	115	110	L	39	36	98	G	MR
FORAGE												
Previously tested varieties												
CDC Dancer 🌾		100	100	100	100	100	E	41	37	96	G	R
CDC Baler	42	99	96	106	96	XX	L	40	43	99	XX	S
CDC Haymaker	28	104	XX	103	105	XX	L	39	40	100	F	MR
Murphv † 🌾	51	95-	93	96	97	94	M	39	36	108	XX	S

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for CDC Dancer is 98 days and rated as Early (E). Varieties rated Intermediate (I) to Susceptible (S) for the smuts should be treated with a systemic seed treatment to reduce the potential for infection. New registrations: OT3087, insufficient data to describe: OT3087. † - Flagged for possible removal in 2020.



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## OATS - FEED

### AC MUSTANG

**BI: AAFC (Lacombe), DIST: Mastin Seeds**

King, Harold & Webb, David Gordon / Three Hills / (403) 443-333  
Mastin, Robert B. / Sundre / (403) 556-2609  
Richard, Gerald / Spirit River / (780) 864-2339  
Shultz, Shawn / Didsbury / (403) 335-3694  
Tolway, Wilfred / Clairmont / (780) 567-2422

### CDC NASSER

**BI: CDC, DIST: T & L Seeds**

King, Harold & Webb, David Gordon / Three Hills / (403) 443-3333  
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251

### WALDERN

**BI: AAFC (Lacombe), DIST: SeCan Members**

Airth, Jock & Linda / Brooks / (403) 362-4372  
Foster, Norman R. / Beaverlodge / (780) 354-2107  
Richard, Gerald / Spirit River / (780) 864-2339

## OATS - FORAGE

### CDC BALER

**BI: CDC, DIST: FP Genetics**

Airth, Jock & Linda / Brooks / (403) 362-4372  
Sim, Darwin & Derek / Ponoka / (780) 372-2111  
Wood, Robert, Patricia & Marshall / Bowden / (403) 588-3548

### CDC HAYMAKER

**BI: CDC, DIST: SeCan Members**

Archer, Nathan / Didsbury / (403) 556-0693  
Hadland, Edward / Baldonnel / (250) 793-9746  
Hadway, Walter Thomas / Didsbury / (403) 335-4929  
Herzog, Greg / Delia / (403) 364-2114  
Jonk, Nicholas / Westlock / (780) 349-5458  
McDonald, Gerald / Co. of Grande Prairie #1 / (780) 538-3868  
Selte, Donald / Vermilion / (780) 853-2484  
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617

### MURPHY

**BI: AAFC (Lacombe), DIST: SeCan Members**

Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617  
Webber, Curtis / Parkland County / (780) 963-6897

## OATS - MILLING

### AC MORGAN

**BI: AAFC (Lacombe), DIST: SeCan Members**

Amyotte, Phillip / Mallaig / (780) 635-4010  
Benci, Dennis / Carmangay / (403) 643-2294  
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
Corns, Bryan / Taber / (403) 223-1614  
Felstad, Colin / Dapp / (780) 349-9505  
Hill, Gordon P. & Blair / Taylor / (250) 789-3469  
Jonk, Nicholas / Westlock / (780) 349-5458  
Kemp, Richard L. / Red Deer County / (403) 227-4836  
Klapstein, Dallas / Calmar / (780) 819-4993

Kopjar, Gerald M. / Rowley / (403) 368-2409  
McDonald, Gerald / Co. of Grande Prairie #1 / (780) 538-3868  
Meinczinger, Matthew Jr. / Busby / (780) 349-2456  
Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713  
Ohm, Norman / Thorsby / (780) 985-2263  
Schmermund, Donnie / Sturgeon County / (780) 967-2850  
Selte, Donald / Vermilion / (780) 853-2484  
Stamp Seeds / Enchant / (403) 739-2233  
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253  
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617  
Webber, Curtis / Parkland County / (780) 963-6897  
Wildeman, Russell / Clive / (403) 470-8528

### CDC ARBORG ▲

**BI: CDC, DIST: FP Genetics**

Stamp Seeds / Enchant / (403) 739-2233

### CDC RUFFIAN ☺

**BI: CDC, DIST: FP Genetics**

Laliberte, Adam / Fairview / (780) 835-4632  
Stamp Seeds / Enchant / (403) 739-2233  
True Seeds Ltd. / Redwater / (780) 777-5885

### CS CAMDEN ☺

**BI: Lantmannen SW Seed, DIST: Canterra Seeds**

Beaulieu, Emery / Fairview / (780) 835-8525  
Fairview Seed Cleaning Co-op / Fairview / (780) 835-2478  
Jonk, Nicholas / Westlock / (780) 349-5458  
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500  
Plante, Jacques / St. Paul / (780) 645-4604  
Sekulic, Nick / Rycroft / (780) 814-2849  
Sendziak Seed Farm / Edmonton / (780) 434-1322  
Solick Seeds Ltd. / Halkirk / (403) 884-2358  
True Seeds Ltd. / Redwater / (780) 777-5885  
Unrau, George / La Crete / (780) 928-0096  
Wuthrich, David / Cecil Lake / (250) 781-3527

### CDC SEABISCUIT

**BI: CDC, DIST: Canterra Seeds**

Sendziak Seed Farm / Edmonton / (780) 434-1322

### ORE3542M

**BI: Oat Advantage, DIST: SeCan Members**

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
Hill, Gordon P. & Blair / Taylor / (250) 789-3469  
Sekulic, John Jr. / Rycroft / (780) 765-2280  
Selte, Donald / Vermilion / (780) 853-2484  
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617

## SPELT

### CDC EVOLVE

**BI: CDC, DIST: SeedNet Inc.**

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
Stamp Seeds / Enchant / (403) 739-2233

## ECHO RIDGE SEEDS

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Tel: (403) 883-2503

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Kirby's Cell: (403) 741-5641

Derwin's Cell: (403) 741-6464

E-mail: kirby.massey@gmail.com

echoridge-seeds.com

### VARIETIES

#### Peas:

CDC Meadow

#### Barley:

CDC Austenson, CDC Copeland

#### Wheat:

AAC Brandon, AAC Viewfield Wheat



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Fax 403-655-2543

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#### Triticale

Tyndal, Ultima,  
Taza, Bunker

#### Oats

Morgan

#### Barley

Austenson

Email bryancorns@gmail.com  
www.cornsbrosfarm.ca  
Box 729 Grassy Lake AB T0K 0Z0

# SPRING TRITICALE

Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% Brevis):				Agronomic Characteristics:							Disease Tolerance:			
			Low < 70 (bu/ac)	Medium 70 - 100 (bu/ac)	High 100 - 130 (bu/ac)	V. High > 130 (bu/ac)	Maturity Rating	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to:			Ergot	Stripe Rust	Bunt	FHB
											Ldg.	Shat.	Sprt.				
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Brevis)																	
Brevis (bu/ac)		104	61	89	124	159											
Brevis	69	100	100	100	100	100	M	60	46	92	G	G	F	MR	MR	R	I
AAC Delight	34	97	86	104	97	96	M	58	53	97	G	G	XX	MR	R	R	I
Previously tested varieties																	
Brevis		100	100	100	100	100	M	60	46	92	G	G	F	MR	MR	R	I
AC Ultima	142	79	89	95	94	92	E	57	45	96	G	G	F	MS	MR	R	I
Bumper †	41	82	101	95	93	88	E	59	45	90	VG	G	F	XX	MR	R	MS
Bunker	49	71	78	88	87	XX	VL	57	48	107	F	G	F	XX	MR	R	I
Pronghorn	120	80	89	96	97	93	M	55	43	98	G	G	F	I	MR	R	MR
Sunray	48	90	91	90	88	XX	M	57	45	94	VG	G	F	MR	MR	R	MS
Taza	48	89	90	91	88	XX	M	57	47	100	G	G	F	I	MR	R	S
Tyndal	55	80	92	94	92	88	L	57	44	97	G	G	P	XX	MR	R	MS

**Remarks:** The long term average maturity for Brevis is 112 days and rated as Medium (M). Brevis yields about 25% more than Carberry (CWRS wheat) in areas of adaptation. AAC Delight, Bunker, Taza, and Tyndal have heads with reduced-awns which may be beneficial when harvested as forage or silage. XX - Insufficient data to describe. † - Flagged for possible removal in 2020.

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[gseed@telusplanet.net](mailto:gseed@telusplanet.net)





# TRITICALE - SPRING

## AAC DELIGHT ▲

BI: AAFC (Lethbridge), DIST: Fabian Seeds Ltd.

Fabian, Patrick V. / Tilley / (403) 377-2000

Hoffmann, Curtis / Oyen / (403) 664-9617

## AC ULTIMA

BI: AAFC, Dist: FP Genetics

Solick Seeds Ltd. / Halkirk / (403) 884-2358

## BREVIS

BI: AAFC (Swift Current), DIST: Wagon Wheel Seed Corp.

Sim, Darwin & Derek / Ponoka / (780) 372-2111

Webber, Curtis / Parkland County / (780) 963-6897

## BUNKER ☼

BI: FCDC (Lacombe), DIST: FP Genetics

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

Solick Seeds Ltd. / Halkirk / (403) 884-2358

## CIRCUIT

BI: N/A, DIST: Seed-Link Inc.

Kerschbaumer, John A. / Fairview / (780) 835-4508

## PRONGHORN

BI: FCDC (Lacombe), DIST: Progressive Seeds

Mans, John / Nobleford / (403) 824-3585

## SUNRAY

BI: AAFC (Lethbridge), DIST: SeedNet Inc.

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

## TAZA ☼

BI: FCDC (Lacombe), DIST: Solick Seeds Ltd.

Solick Seeds Ltd. / Halkirk / (403) 884-2358

## TYNDAL ☼

BI: FCDC (Lacombe), DIST: SeCan Members

Card, Gordon B. & Rhett / Magrath / (403) 758-3444

Corns, Bryan / Taber / (403) 223-1614

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- AAC Elie
- AAC Brandon
- CDC Go

#### CNHR: Faller — **NEW!**

#### HRSW:

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- CDC Terrain — **NEW!**
- Penhold

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#### Durum

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- CDC Alloy — **NEW!**
- AAC Succeed — **NEW!**
- AAC Spitfire

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- Vertigo — **NEW!**
- FB 9-4
- Snowbird

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- CDC Austenson Feed
- AC Metcalfe Malt
- CDC Frasier Malt
- CDC Bow Malt

#### OAT:

- CDC Ruffian
- CDC Arborg

### MAPLE PEA:

- AAC Liscard — **NEW!**

### YELLOW PEA:

- CDC Inca — **NEW!**
- CDC Chrome — **NEW!**
- AAC Lacombe

### GREEN PEA:

- CDC Greenwater — **NEW!**

### LENTIL: CDC Proclaim CL

### FLAX:

- Topaz — **NEW!**
- AAC Prairie Sunshine — **NEW!**
- CDC Dorado - Yellow — **NEW!**
- Prairie Sapphire
- CDC Plava — Short Season

### HYBRID FALL RYE:

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- Guttino

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- AAC Elevate

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- Ryegrass
- Hybrid Brassica
- Millet
- Sorghum
- Turnip

# CANADA WESTERN AMBER DURUM

Variety	Overall Station Years of Testing	Yield Category (% Strongfield):				Agronomic Characteristics:							Disease Tolerance:					
		Over- all Yield	Low < 45 (bu/ac)	Medium 45 - 70 (bu/ac)	High > 70 (bu/ac)	Maturity Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
											Ldg.	Sprt.						
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Strongfield)																		
Strongfield (bu/ac) ☼		64	34	59	94													
Strongfield	158	100	100	100	100	M	14.3	63	45	84	F	F	S	I	MR	MS	S	
AAC Stronghold ☼	13	99	XX	XX	102	L	-0.3	62	47	79	VG	G	R	I	MR	I	MS	
AAC Succeed VB ▲	15	105	108	XX	98	M	0.5	63	45	80	F	F	R	R	I	MS	MS	
Brigade ☼	84	103	105	103	101	L	-0.6	63	47	87	G	F	MS	R	MR	I	MS	
CDC Alloy ☼	21	102	110	96	99	M	0.2	63	43	83	F	F	I	R	R	MS	MS	
CDC Credence ▲	15	104	106	XX	102	M	-0.1	63	42	84	F	F	MR	R	MR	I	MS	
CDC Dynamic ☼	21	96	94	97	96	M	0.6	62	43	81	F	F	I	R	MR	I	MS	
Transcend ☼	50	100	100	102	99	M	0.8	63	45	87	F	F	S	R	R	I	MS	
Previously tested varieties																		
Strongfield ☼		100	100	100	100	M	14.3	63	45	84	F	F	S	I	MR	MS	S	
AAC Cabri ☼	25	94	98	93	XX	M	0.1	62	45	86	G	P	MR	R	R	I	MS	
AAC Congress ▲	23	104	109	100	104	M	-0.3	63	44	81	F	P	MR	R	R	MS	MS	
AAC Current † ☼	30	99	104	98	XX	M	0	62	44	85	F	F	MS	MR	MR	I	MS	
AAC Marchwell VB ☼	32	99	107	96	98	M	-0.1	63	46	83	F	F	MR	R	R	MS	MS	
AAC Raymore ☼	34	97	99	98	94	M	0.8	62	47	82	F	F	MS	MR	MR	I	S	
AAC Spitfire	25	97	100	96	XX	M	-0.4	61	46	82	G	P	MS	R	R	MS	S	
AC Navigator	65	95	102	93	93	M	XX	63	45	77	G	G	S	R	R	S	S	
CDC Carbide VB	25	100	104	100	XX	M	0	62	45	85	G	P	MS	R	R	MS	MS	
CDC Desire ▲	34	102	106	101	101	E	0	62	44	83	F	G	MS	R	MR	I	S	
CDC Fortitude ☼	32	102	102	102	103	M	-0.6	63	45	81	G	F	MS	R	R	MS	MS	
CDC Verona † ☼	46	102	103	103	99	M	XX	62	46	82	G	F	MS	R	R	MS	MS	
CDC Vivid ▲	34	100	104	99	98	M	0.1	62	45	83	G	F	I	R	MR	I	S	
Enterprise † ☼	48	101	104	100	102	M	XX	63	44	83	G	F	MS	I	R	I	MS	

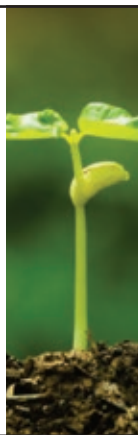
**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Generally, durum wheat is best adapted to southern Alberta. Outside of this area, durum tends to be late maturing and often subject to quality loss. The long term average maturity for Strongfield is 105 days and is rated as Medium (M). Durum varieties are generally more susceptible to Fusarium Head Blight than CWRS wheat varieties. AAC Cabri, AAC Raymore, AAC Stronghold and CDC Fortitude have a solid stem that confers resistance to the wheat stem sawfly. VB - designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene. XX - Insufficient data to describe. † - Flagged for possible removal in 2020.

## FORWARD SEED FARM



**HRS: Viewfield**  
**CPS: Rowyn, Goodwin**  
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BI: AAFC (Swift Current), DIST: Canterra Seeds

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Croymans, John, Joseph & Andrew / Bow Island / (403) 545-6333  
Haney Farms Ltd. / Picture Butte / (403) 738-4517  
Huvenaars, Carl / Hays / (403) 725-2213  
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736  
Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228

## AAC RAYMORE

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

Huvenaars, Carl / Hays / (403) 725-2213  
Stamp Seeds / Enchant / (403) 739-2233

## AAC SPITFIRE

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

Benci, Dennis / Carmangay / (403) 643-2294  
Brummelhuis, Mitchell & Mack / Vauxhall / (403) 654-7515  
Catherwood, James / Calgary / (403) 836-9699  
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
Eliaison, Bruce W. / Wrentham / (403) 222-2258  
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347  
Kiffiak, Nathan John & Anderson, Tim / Foremost / (403) 867-2338  
Klassen, Ethan / Coaldale / (403) 345-3770  
Klassen, Ken / Rosemary / (403) 378-4408  
Penwest Seeds / Three Hills / (403) 443-2577  
Specialty Seeds Ltd. / Bow Island / (403) 545-6018  
Stamp Seeds / Enchant / (403) 739-2233  
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434  
Witdouch, Dale / Iron Springs / (403) 738-4395

## AAC STRONGHOLD

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

Benci, Dennis / Carmangay / (403) 643-2294  
Croymans, John, Joseph & Andrew / Bow Island / (403) 545-6333  
Eliaison, Bruce W. / Wrentham / (403) 222-2258  
Huvenaars, Carl / Hays / (403) 725-2213  
Penwest Seeds / Three Hills / (403) 443-2577

## AC NAVIGATOR

BI: AAFC (Swift Current), DIST: Nutrien Ag Solutions/Proven Seed

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

## BRIGADE

BI: AAFC (Swift Current), DIST: Nutrien Ag Solutions/Proven Seed

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

## CDC ALLOY

BI: CDC, DIST: FP Genetics

Benci, Dennis / Carmangay / (403) 643-2294  
Quattro Ventures / Bow Island / (403) 545-2222  
Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228  
Stamp Seeds / Enchant / (403) 739-2233

## CDC CREDENCE

BI: CDC, DIST: Canterra Seeds

Huvenaars, Carl / Hays / (403) 725-2213  
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

## CDC PRECISION

BI: CDC, DIST: Alliance Seed

Croymans, John, Joseph & Andrew / Bow Island / (403) 545-6333  
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347  
Hoffmann, Curtis / Oyen / (403) 664-9617  
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## CDC VIVID

BI: CDC, DIST: Nutrien Ag Solutions/Proven Seed

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

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BI: AAFC (Swift Current), DIST: FP Genetics

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# CANADA WESTERN RED SPRING

Variety	Overall Station Years of Testing	Yield Category (% Carberry):				Agronomic Characteristics:								Disease Tolerance:					
		Overall Yield	Low < 55 (bu/ ac)	Medium 55 – 80 (bu/ac)	High > 80 (bu/ ac)	Mat. Rating	Pro- tein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Ldg.	Sprrt.						
																			Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Carberry)
Carberry (bu/ac)	67	45	65	92															
Carberry - check 🌾	112	100	100	100	100	L	14.0	63	39	79	Y	VG	F	MR	R	MR	MS	MR	
AAC Alida VB ▲	31	103	XX	106	102	M	0.2	63	42	86	Y	VG	VG	R	I	MR	MS	MR	
AAC Brandon 🌾	21	106	XX	103	110	M	-0.2	63	40	80	Y	VG	P	MR	S	MR	I	MR	
AAC Jatharia VB 🌾	31	106	XX	111	103	M	-0.1	64	43	93	Y	F	G	S	MS	I	I	I	
AAC Tisdale ▲	45	101	100	101	102	M	0.4	63	42	88	Y	F	F	MR	MR	S	MS	MR	
AAC Viewfield 🌾	59	110	108	108	114	L	-0.3	64	40	76	Y	VG	G	S	MR	R	I	I	
CDC Adamant VB ▲	45	104	97	106	104	M	-0.1	63	39	83	Y	P	F	S	S	MS	MS	I	
CDC Go	59	102	95	105	105	M	0	62	43	80	Y	G	VP	MS	I	MS	S	MS	
CDC Hughes VB ▲	45	103	102	103	103	M	0	63	44	83	Y	G	G	MR	MS	I	I	I	
CDC Landmark VB 🌾	45	105	100	107	106	M	0	63	44	84	Y	VG	VG	MR	MS	MR	I	I	
Parata ▲	31	97	XX	98	96	E	0.7	64	39	87	Y	F	F	MS	S	MR	I	I	
Stettler	82	105	105	105	104	M	0	63	39	85	Y	G	G	R	MR	I	MS	MS	
SY Chert ▲	31	102	XX	107	100	M	-0.1	63	40	87	Y	F	F	R	R	R	MS	I	
SY Obsidian ▲	31	103	XX	107	100	M	-0.1	63	42	84	Y	VG	F	R	MS	MR	I	MS	
SY Sovite 🌾	45	97	98	100	95	M	0.2	62	43	89	Y	F	F	R	MS	R	MR	MR	
Previously tested varieties																			
Carberry - check 🌾		100	100	100	100	L	0	63	39	79	Y	VG	F	MR	R	MR	MS	MR	
5604HR † CL 🌾	76	93	90	94	95	E	-0.7	63	33	87	Y	G	G	MS	I	XX	MS	I	
AAC Cameron VB 🌾	42	109	100	118	107	M	-0.6	62	44	94	Y	G	F	S	R	S	I	I	
AAC Connery 🌾	42	99	93	103	102	E	0	62	40	81	N	VG	G	MR	I	R	I	MR	
AAC Elie 🌾	41	107	104	113	105	M	-0.1	64	38	81	Y	G	F	I	I	MR	I	I	
AAC Prevail 🌾	42	99	94	103	102	L	-0.6	62	39	96	Y	G	G	S	S	R	MS	I	
AAC Redberry 🌾	42	101	98	105	99	M	-0.1	63	41	84	Y	G	G	R	I	R	MS	I	
AAC Redwater*🌾	41	96	91	101	98	E	0	64	35	87	Y	G	VG	MS	I	MR	MS	I	
AC Barrie †	320	93	91	96	93	M	14.0	63	37	89	N	G	G	MR	I	S	MS	I	
AC Intrepid †	107	95	88	98	99	E	0	62	39	90	N	G	P	I	MR	MR	MS	MS	
AC Splendor †	153	89	85	90	93	VE	0.9	61	37	89	N	F	F	I	I	I	I	MS	
Cardale 🌾	41	98	95	100	98	M	-0.3	63	37	84	Y	G	G	I	S	MS	MS	MR	
Coleman	43	94	88	99	93	M	0	64	37	93	Y	F	P	S	S	MR	I	MR	
CDC Abound 🌾	88	103	99	107	105	M	-0.1	63	40	82	Y	G	F	I	I	MS	MS	S	
CDC Bradwell 🌾	42	101	97	105	101	L	-0.3	63	38	84	Y	VG	F	MR	R	MS	MS	I	
CDC VR Morris 🌾	41	102	97	107	100	M		65	37	84	N	G	P	I	I	XX	I	MR	
CDC Plentiful 🌾	41	99	95	104	99	M	-0.2	64	35	87	N	VG	P	R	I	MR	I	MR	
CDC Stanley 🌾	76	106	103	109	107	M	-0.8	63	34	87	N	G	G	MR	S	I	I	MS	
CDC Titanium VB 🌾	41	101	99	106	96	E	0.5	65	41	87	Y	G	P	MS	I	R	MS	MR	
CDC Utmost VB 🌾	53	105	105	105	107	M	-0.2	64	36	85	N	G	G	MS	S	I	I	MS	
Glenn 🌾	61	97	96	96	101	L	-0.2	65	36	85	Y	VG	F	I	I	MR	I	I	
Go Early 🌾	42	97	93	103	95	VE	0.3	61	40	93	Y	G	P	I	MR	I	S	I	
Muchmore* 🌾	53	103	104	102	107	L	-0.9	63	37	75	Y	VG	G	MR	R	MR	MS	MS	
Shaw VB 🌾	53	105	104	105	107	M	-0.9	63	37	92	N	G	G	S	MR	I	MS	MS	
Superb 🌾	184	105	101	109	109	L	-0.4	62	42	85	Y	G	F	I	MR	S	S	MS	
SY433 🌾	44	97	92	101	98	M		64	39	95	Y	G	G	I	S	XX	I	MR	
SY479 VB †🌾	42	91	88	94	89	M	0.8	62	40	94	Y	VG	VG	MS	R	S	MS	I	
SY637 🌾	42	96	89	100	97	L	0.8	62	39	91	Y	G	XX	MS	MR	MR	I	MR	
SY Slate 🌾	42	101	98	106	99	M	0.2	62	41	85	Y	F	P	MS	S	MR	MS	I	
Thorsby 🌾	43	99	90	106	99	E	-0.5	64	38	89	N	G	F	I	S	R	MS	I	
WR859 CL †🌾	79	99	95	101	103	M	-0.4	64	34	81	Y	G	G	R	R	I	MS	MR	

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Several CWRS varieties were reclassified to the new CNHR wheat class, effective August 1, 2018. The varieties affected are AC Abbey, AC Cora, AC Eatonia, AC Majestic, AC Michael, AC Minto, Alvena, Alikat, CDC Makwa, CDC Osler, Columbus, Conway, Harvest, Kane, Katcpwa, Leader, Lillian, McKenzie, Neepawa, Park, Pasqua, Pembina, Thatcher, Unity VB and 5603HR. \* Effective August 1, 2021 the Canadian Grain Commission will designate AAC Redwater and Muchmore to the CNHR wheat class. For more information see the Canadian Grain Commission website [www.grainscanada.gc.ca](http://www.grainscanada.gc.ca). The long term average maturity for Carberry is 108 days and rated as Late (L). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. CDC Adamant VB, CDC Landmark VB and CDC Hughes VB have a solid stem that confers resistance to the wheat stem sawfly. 5604HR CL, 5605HR CL, CDC Abound, CDC Imagine, CDC Thrive and WR589 CL are tolerant to the CLEARFIELD® herbicides Adrenalin SC and Altitude FX. VB - designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene. New CWRS registrations: AAC Magnet (BW1045), AAC LeRoy (BW1049), AAC Starbuck (BW5011), AAC Warman (BW1025), AAC Wheatland (BW5013), Parata (PT772), SY Chert (BW5005) and SY Obsidian (BW5007). Insufficient data to describe: AAC Magnet, AAC LeRoy, AAC Starbuck, AAC Warman, AAC Wheatland, BW1041, PT596, PT782 and PT785. XX - Insufficient data to describe. † - Flagged for possible removal in 2020.




# CANADA WESTERN RED SPRING

Yield: Annual Means by Productivity Environment \*

Variety	Low Yield Sites (< 65 bu/ac)				High Yield Sites (> = 65 bu/ac)				Overall Yield	Station Years of testing
	2015	2016	2017	2018	2015	2016	2017	2018		
<b>Carberry (bu/ac)</b>	<b>48</b>	<b>51</b>	<b>53</b>	<b>51</b>	<b>73</b>	<b>80</b>	<b>82</b>	<b>82</b>	<b>70.2</b>	
<b>Carberry (% check) ☼</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>59</b>
<b>AAC Brandon (check) ☼</b>				<b>106</b>				<b>107</b>	<b>106</b>	<b>17</b>
5605HR CL	99				102				101	14
CDC VR Morris	108				104				105	14
CDC Titanium VB ☼	104				98				101	12
Coleman	89				95				93	14
Thorsby ☼	97				103				101	14
AAC Connery ☼	98	103			103	109			104	28
AAC Prevail ☼	98	103			102	109			104	28
Go Early ☼	100	99			103	102			102	28
SY479 VB ☼	93	97			92	96			94	28
SY637 ☼	94	94			98	103			98	28
AAC Cameron VB ☼	105	111	93		112	117	113		111	42
AAC Redberry ☼	102	104	95		105	103	99		102	42
AC Barrie	95	98	89		95	100	93		95	42
CDC Bradwell ☼	99	108	94		99	112	101		103	42
SY Slate ☼	102	103	97		100	104	104		102	42
AAC Viewfield ☼	111	113	97	107	109	117	109	108	110	59
AAC Tisdale ▲		103	92	105		107	99	99	101	45
CDC Adamant VB ▲		104	86	103		110	107	100	104	45
CDC Hughes VB ▲		107	95	101		108	105	97	103	45
CDC Landmark VB ▲		107	92	100		111	109	102	105	45
SY Sovite ☼		101	94	98		102	98	93	97	45
AAC Alida VB ▲			100	104			107	101	103	31
AAC Jatharia VB ☼			96	108			107	106	106	31
Parata ▲			87	99			95	100	97	31
SY Chert ▲			91	104			109	97	102	31
SY Obsidian ▲			102	100			108	100	103	31
<b>CDC Go (benchmark)</b>			<b>98</b>	<b>100</b>			<b>106</b>	<b>106</b>	<b>104</b>	<b>31</b>
<b>Stettler ☼ (benchmark)</b>			<b>95</b>	<b>107</b>			<b>103</b>	<b>105</b>	<b>104</b>	<b>31</b>
<b>Number of Sites</b>	<b>5</b>	<b>5</b>	<b>3</b>	<b>6</b>	<b>9</b>	<b>9</b>	<b>11</b>	<b>11</b>		


\* Please see the INTRODUCTION for an explanation of this new yield format



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**Malt:** AAC Connect  
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**Peas:** CDC Amarillo • CDC Limerick  
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Email: sendseed@telusplanet.net  
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Don & Krystyna, Stephen & Tasha Sendziak

## WHEAT - CWRS

## 5605HR-CL ☼

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Holmstrom, Darrell / Killam / (780) 385-3574  
Howard, Fred / Wanham / (780) 694-2427  
King, Harold & Webb, David Gordon / Three Hills / (403) 443-3333  
Konieczny, Scott / Mannville / (780) 581-5693  
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736  
Sich, Louis John & Ivan & Martin / Trochu / (403) 442-2112  
Specialty Seeds Ltd. / Bow Island / (403) 545-6018  
Stamp Seeds / Enchant / (403) 739-2233



True Seeds Ltd. / Redwater / (780) 777-5885				C
Wheatcrest Farms / Lomond / (403) 792-3696				C
Wood, James / Elnora / (496) 596-4189			R	
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Friedel, Brock / Fairview / (780) 201-7425				C
Hadway, Walter Thomas / Didsbury / (403) 335-4929				C
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347	S	F	R	C
Holmstrom, Darrell / Killam / (780) 385-3574	S	F	R	C
Howard, Fred / Wanham / (780) 694-2427				C
Klassen, Ken / Rosemary / (403) 378-4408				C
Pare, Raymond A. / Wainwright / (780) 842-2073	S	F		C
Sich, Louis John / Trochu / (403) 442-2112			R	
Stamp Seeds / Enchant / (403) 739-2233				C*
True Seeds Ltd. / Redwater / (780) 777-5885				C
Wood, James / Elnora / (496) 596-4189				C
Zwack, Bryan / Daysland / (780) 608-9426				C
<b>AAC REDWATER</b> ☺				
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Foster, Norman R. / Beaverlodge / (780) 354-2107				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036			R	
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Harris, William P., Linda, Thomas & Alexander / Beaverlodge / (780) 354-2823	S	F		C
Hegland, David Olaf / Wembley / (780) 766-2450				C
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Maisonneuve, Andre / Guy / (780) 925-3074				C
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Oatway's Seed Farm Ltd. / Clive / (403) 784-3001				C
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Trueblood, Brian G. / Dapp / (780) 954-3745			R	C
Webber, Curtis / Parkland County / (780) 963-6897				C
Witdouch, Dale / Iron Springs / (403) 738-4395				C

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Strain, Arthur George / Foremost / (403) 867-2227				C
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Benci, Dennis / Carmangay / (403) 643-2294				R
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
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Haney Farms Ltd. / Picture Butte / (403) 738-4517				C
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Hoff, Peter Edward / Gleichen / (403) 734-2140	S	F		C
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Massey, Derwin & Kirby / Stettler / (403) 883-2503				C
Quattro Ventures / Bow Island / (403) 545-2222	S	F		C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				R
Sekulic, Nick / Rycroft / (780) 814-2849				R
Sim, Darwin & Derek / Ponoka / (780) 372-2111			F	C
Solick Seeds Ltd. / Halkirk / (403) 884-2358				F
Stamp Seeds / Enchant / (403) 739-2233	S	F	R*	C
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535				R
True Seeds Ltd. / Redwater / (780) 777-5885				R*
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253	S	F	R	C
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# CANADA WESTERN HARD WHITE SPRING

Variety	Overall Station Years of Testing	Yield Category (% Carberry):				Agronomic Characteristics:							Disease Tolerance:					
		Overall Yield	Low < 55 (bu/ ac)	Medium 55 – 80 (bu/ac)	High > 80 (bu/ac)	Matu- rity Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FH
												Ldg.	Sprt.					
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Carberry)																		
Carberry (bu/ac)		67	45	65	92													
Carberry - check 🌾	112	100	100	100	100	L	14.0	63	39	79	Y	VG	F	MR	R	MR	MS	MR
AAC Cirrus ▲	31	101	XX	102	102	L	0.2	63	36	83	Y	G	F	MR	I	R	R	I
Previously tested varieties																		
Carberry - check 🌾		100	100	100	100	L	14.0	63	39	79	Y	VG	F	MR	R	MR	MS	MR
AAC Iceberg ☺	39	97	92	101	102	M	-0.7	64	39	86	Y	G	P	MS	I	MR	MS	I
CDC Whitewood	43	100	95	106	96	M	-0.9	64	38	87	Y	G	G	S	S	I	MS	I
Snowbird 🌾	94	94	91	97	94	M	-0.2	62	36	89	N	G	G	MR	MS	MS	S	I
Snowstar †	58	94	92	99	95	M	-0.8	64	30	82	N	G	G	MS	S	MS	I	MS
Whitehawk 🌾	42	100	99	101	100	E	-0.9	63	33	90	N	G	G	I	MS	MS	MS	I

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for Carberry is 108 days and rated as Late (L). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. New CWHWS registrations: AAC Cirrus (HB388). XX - Insufficient data to describe. † - Flagged for possible removal in 2020.

## WHEAT - CWHWS

### AAC CIRRUS

BI: AAFC, DIST: FP Genetics

Stamp Seeds / Enchant / (403) 739-2233

### AAC ICEBERG

BI: AAFC, DIST: Alliance Seed

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

Stamp Seeds / Enchant / (403) 739-2233

### AC WHITEHAWK (PBR)

BI: AAFC (Winnipeg), DIST: SeCan Members

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## CANADA PRAIRIE SPRING RED

Variety	Overall Station Years of Testing	Yield Category (% Carberry):				Agronomic Characteristics:								Disease Tolerance:					
		Over-all Yield	Low < 55 (bu/ac)	Medium 55 - 80 (bu/ac)	High > 80 (bu/ac)	Maturity Rating	Pro-tein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Ldg.	Sprt.						
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Carberry)																			
Carberry (bu/ac) ☼		69	41	63	90														
Carberry	60	100	100	100	100	L	13.9	63	40	79	Y	VG	F	MR	R	MR	MS	MR	
AAC Entice ☺	47	108	102	108	111	M	-0.7	62	41	78	Y	G	P	MS	S	R	MS	I	
AAC Goodwin ☺	48	115	112	116	117	M	-0.5	63	41	83	Y	VG	G	MS	MS	R	I	I	
AAC Penhold ☺	47	113	110	111	116	M		63	44	71	Y	VG	G	I	R	MR	I	MR	
CDC Terrain ▲	47	115	120	114	115	M	-1.4	61	44	87	Y	G	G	MR	MR	R	I	MS	
SY Rowyn ☺	47	106	102	109	105	M	-0.9	62	36	77	Y	G	F	I	S	MR	I	MR	
Previously tested varieties																			
Carberry ☼		100	100	100	100	L	13.9	63	40	79	Y	VG	F	MR	R	MR	MS	MR	
5700PR ☼	117	110	108	113	109	L	-1.8	62	42	75	Y	VG	F	MS	R	MS	MS	MS	
AAC Crossfield ☺	43	115	115	113	118	M	-1.1	62	42	80	Y	G	P	MS	I	R	I	I	
AAC Foray VB ☺	41	121	117	123	123	M	-1.6	63	51	85	Y	G	G	MS	I	MR	MS	I	
AAC Ryley ☼	37	111	108	112	110	M	-0.5	60	48	82	Y	G	G	I	R	S	MS	MS	
AAC Tenacious VB † ☺	40	102	102	101	104	M	-1.2	62	39	97	Y	P	VG	R	R	MR	MS	R	
SY985 ☼	51	106	105	107	105	M	0	61	44	78	Y	G	P	R	MR	XX	I	I	
SY995 ☼	41	112	111	113	114	M	-1.8	63	45	79	Y	G	P	S	MR	MR	MS	MS	

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Several CPSR varieties will be reclassified to the CNHR wheat class. AC Foremost, AC Taber, Conquer and Oslo were reclassified on August 1, 2018 and AC Crystal will be reclassified on August 1, 2019. For more information see the Canadian Grain Commission website [www.grainscanada.gc.ca](http://www.grainscanada.gc.ca). The long term average maturity for Carberry is 108 days and rated as Late (L). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene. New CPSR registrations: AAC Castle VB (HY2021), insufficient data to describe: AAC Castle VB. XX - Insufficient data to describe. † - Flagged for possible removal in 2020.

## WHEAT - CPSR

## 5700PR ☼

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Goldstrom, David / Red Deer County / (403) 227-2133  
Hadland, Edward / Baldonnel / (250) 793-9746  
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Hoff, Peter Edward / Gleichen / (403) 734-2140  
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Limoges, Richard / McLennan / (780) 324-2335

Lindholm Seed Farm / New Norway / (780) 352-3240

Lindholm, Luke & Stevan / Camerose / (780) 781-6077

Lopushinsky, Julian / Bruderheim / (780) 796-2048

Macyk, Don / Waskatenau / (780) 358-2411

Macyk, Tim / Radway / (780) 699-4073

Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713

Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645

Nisbet, Andrew E. & Diane E. / Mountain View County / (403) 224-3788

Oatway's Seed Farm Ltd. / Clive / (403) 784-3001

Ohrn, Norman / Thorsby / (780) 985-2263

Pare, Raymond A. / Wainwright / (780) 842-2073

Radke, Bryan Victor / Barrhead / (780) 674-5715

St. Paul Municipal Seed Cleaning Assoc. Ltd. / St. Paul / (780) 645-3939

Sand, Ron W. & David R. / McLaughlin / (780) 745-2251

Sayer, Roger / Carstairs / (403) 337-5847

Schmermund, Donnie / Sturgeon County / (780) 967-2850

Sendziak Seed Farm / Edmonton / (780) 434-1322

Shaw, Tom / Country of Grande Prairie No.1 / (780) 882-7766

Shultz, Shawn / Didsbury / (403) 335-3694

Stamp Seeds / Enchant / (403) 739-2233

Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535

Wierenga, Brad, Bruce & Clayton / County of Barrhead / (780) 674-4624

Wood, Robert, Patricia & Marshall / Bowden / (403) 588-3548

Zwack, Thomas / Daysland / (780) 374-2450

## CDC TERRAIN

**CI: CDC, Dist: FP Genetics**

Stamp Seeds / Enchant / (403) 739-2233

## SY ROWYN ☼

**BI: Syngenta Seeds Canada Inc, DIST: Alliance Seed**

Ellis, Brian / Olds / (403) 556-2890

Forward Seed Farm / County of Barrhead / (780) 674-3822

Holmstrom, Darrell / Killam / (780) 385-3574

Klassen, Ken / Rosemary / (403) 378-4408

Sich, Louis John & Ivan & Martin / Trochu / (403) 442-2112

Stamp Seeds / Enchant / (403) 739-2233

Wood, James / Elnora / (496) 596-4189

Zwack, Bryan / Daysland / (780) 608-9426



# CANADA NORTHERN HARD RED

Variety	Overall Station Years of Testing	Yield Category (% Carberry):					Agronomic Characteristics:							Disease Tolerance:				
		Overall Yield	Low < 55 (bu/ ac)	Medium 55 - 80 (bu/ac)	High > 80 (bu/ac)	Matu- rity Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
												Ldg.	Sprt.					
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Carberry)																		
Carberry (bu/ac)		69	41	60	90													
Carberry ☼	60	100	100	100	100	L	13.9	63	39	79	Y	VG	F	MR	R	MR	MS	MR
AC Foremost ☼	34	113	111	111	115	L	-1.4	62	42	73	Y	VG	F	I	R	S	MS	S
CDC Cordon CLPlus VB	34	111	103	113	112	M	-0.5	61	41	78	Y	VG	F	MR	R	MS	MS	I
Previously tested varieties																		
Carberry ☼		100	100	100	100	L	13.9	63	39	79	Y	VG	F	MR	R	MR	MS	MR
AAC Concord ☼	45	103	103	104	103	M	-0.8	62	41	87	N	F	F	I	MR	R	I	MS
AC Crystal *	278	108	106	110	108	L	XX	62	42	79	Y	G	P	I	R	S	I	S
Conquer VB †☼	51	114	112	115	115	M		62	45	84	Y	F	P	MS	R	MR	I	MS
Elgin ND ☼	43	110	112	112	107	M	-0.8	63	38	87	Y	G	F	XX	S	MR	I	I
Harvest ☼	118	96	92	96	100	M	-0.3	62	36	84	N	VG	VG	MR	S	MR	MS	S
Lillian †☼	87	98	104	93	100	M	0.0	61	37	86	N	F	G	I	MR	R	MR	S

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Several CWRS and CPSR varieties were reclassified to this new CNHR class, effective August 1, 2018. The CWRS varieties are AC Abbey, AC Cora, AC Eatonia, AC Majestic, AC Michael, AC Minto, Alvena, Alikat, CDC Makwa, CDC Osler, Columbus, Conway, Harvest, Kane, Katepwa, Leader, Lillian, McKenzie, Neepawa, Park, Pasqua, Pembina, Thatcher, Unity VB and 5603HR. The CPSR varieties are AC Foremost, AC Taber, Conquer and Oslo. \* AC Crystal will be reclassified on August 1, 2019. For more information see the Canadian Grain Commission website [www.grainscanada.gc.ca](http://www.grainscanada.gc.ca). The long term average maturity for Carberry is 108 days and rated as Late (L). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. AAC Concord has a solid stem that confers resistance to the wheat stem sawfly. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the Sm1orange wheat blossom midge tolerance gene. New CNHR registrations: CDC Cordon CLPlus VB (HY2003). Insufficient data to describe: Faller, Prosper. XX - Insufficient data to describe. † - Flagged for possible removal in 2020.

## WHEAT - CNHR

### AC FOREMOST

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

Cyre, Clifford & Greg / Barrhead / (780) 307-4332

Radke, Bryan Victor / Barrhead / (780) 674-5715

### FALLER

BI: NDSU, Dist: Seed Depot

Stamp Seeds / Enchant / (403) 739-2233

### PARK

BI: AAFC, DIST: N/A

Lyster, Norman / Stettler / (403) 742-4456

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Web: [www.thscp.ca](http://www.thscp.ca)

[thscp@telusplanet.net](mailto:thscp@telusplanet.net)

# CANADA WESTERN SPECIAL PURPOSE

Variety	Overall Station Years of Testing	Yield Category (Carberry):				Agronomic Characteristics:								Disease Tolerance:					
		Overall Yield	Low < 55 (bu/ac)	Medium 55 - 80 (bu/ac)	High > 80 (bu/ac)	Maturity Rating	Pro-tein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Ldg.	Sprt.						
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Carberry)																			
Carberry (bu/ac)		71	37	58	83														
Carberry - check ☼	54	100	100	100	100	L	14	63	40	79	Y	VG	F	MR	R	MR	MS	MR	
AAC Awesome VB ☼	41	135	XX	134	139	L	-2.5	62	44	89	Y	G	P	I	I	R	I	I	
Alderon	41	135	XX	122	143	XL	-2.8	58	41	74	N	VG	F	XX	MS	MR	I	XX	
Charing VB ▲	41	138	XX	135	143	XL	-2.5	60	41	79	N	VG	G	XX	XX	R	MR	XX	
Sparrow VB	41	136	XX	130	141	XL	-2.6	60	41	79	N	VG	G	XX	I	MR	I	XX	
Pasteur	30	131	XX	127	135	XL	-3	63	40	81	N	VG	G	MS	S	MR	I	I	
Previously tested varieties																			
Carberry - check ☼		100	100	100	100	L	14	63	40	79	Y	VG	F	MR	R	MR	MS	MR	
AAC Innova ☼	38	128	XX	126	130	L	-3.4	60	41	82	Y	G	P	S	S	R	I	S	
AAC NRG097 † ☼	41	118	122	113	119	L	-3.2	63	47	80	Y	G	F	I	R	S	I	I	
CDC NRG003 † ☼	51	114	111	117	113	M	-2.1	61	43	80	Y	G	F	MS	R	XX	MS	S	
SY087 ☼	41	114	117	115	113	M	-1.6	63	40	82	Y	G	F	MS	MR	MR	I	MR	

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for Carberry is 108 days and rated as Late (L). Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB all varieties will sustain damage. Moderately Resistant (MR) and Resistant (R) ratings for FHB do not equate to immunity. Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the Sm<sup>1</sup> orange wheat blossom midge tolerance gene. XX - Insufficient data to describe. † - Flagged for possible removal in 2020.

## TONY CROOYMANS SONS

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**Durum:** AAC Spitfire, CDC Fortitude, CDC Precision, AAC Congress, AAC Stronghold  
**HRSW:** CDC Go, AAC Brandon, AAC Connery, AAC Viewfield  
**HRWW:** AAC Wildfire  
**SWSW:** AC Sadash VB  
**Barley:** CDC Austenson  
**Flax:** CDC Glas  
**Peas:** CDC Inca

\* We can source other varieties \*

Dealers for:

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**Pickseed:** Alfalfa, Grasses, Forages, Corn

**Canterra Seeds:** Cereals, Pulses, Canola, Inoculants

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Alberta, T0K 0G0

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

## WHEAT - CWSP

S F R C

### ALDERON

**BI: KWS-UK, DIST: SeCan Members**

Stamp Seeds / Enchant / (403) 739-2233

Templeton, Doran & Brant / Lethbridge / (403) 345-4144

Witdouch, Dale / Iron Springs / (403) 738-4395

### PASTEUR

**BI: Wiersum Plant Breeding, DIST: SeCan Members**

Sim, Darwin & Derek / Ponoka / (780) 372-2111

Witdouch, Dale / Iron Springs / (403) 738-4395



Pedigreed Seed Growers

**Barley:** Amisk, CDC Austensen

**Peas:** 4010 (Forage), CDC Saffron, CDC Meadows

**Triticale:** Pronghorn

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**BARLEY:**

CDC BOW  
CDC COPELAND  
CDC FRASER

CDC HAYMAKER OATS

**PEAS:**

CDC INCA  
AAC LACOMBE  
CDC MEADOW






**WHEAT:**

AAC BRANDON  
AAC PENHOLD  
AAC REDBERRY  
AAC REDWATER

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



## CANADA WESTERN SOFT WHITE SPRING

Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% AC Andrew):			Agronomic Characteristics:										Disease Tolerance:				
			Low < 65 (bu/ ac)	Medium 65 - 100 (bu/ac)	High > 100 (bu/ ac)	Matu- rity Rating	Pro- tein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Awns (Y/N)	Resistance to:			Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Lodg.	Shat.	Sprt.						
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to AC Andrew)																				
AC Andrew (bu/ac)		86	54	86	121															
AC Andrew	152	100	100	100	100	L	11.0	62	40	80	Y	VG	VG	P	S	S	I	MS	I	
Carberry - check 	54	78	80	82	74	L	3	63	40	79	Y	VG	XX	F	MR	R	MR	MS	MR	
AAC Paramount VB 	30	104	XX	105	103	L	0.1	62	41	86	Y	VG	VG	P	MR	S	R	I	MS	
Sadash VB 	76	106	110	105	104	L	-0.1	63	40	82	Y	VG	VG	P	I	S	R	I	S	
Previously tested varieties																				
AAC Chiffon VB 	39	104	106	105	101	L	-0.4	62	46	88	Y	G	VG	P	S	S	MR	I	S	
AAC Indus VB 	39	104	96	108	105	VL	-0.2	61	42	87	Y	VG	VG	P	S	MS	R	MS	MS	

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. In addition to traditional markets, SWS wheat varieties may have demand as a feedstock for ethanol production. The long term average maturity for AC Andrew is 110 days and rated as Late (L). Varieties rated Intermediate (I) to Susceptible (S) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. VB - designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene.

## WHEAT - CWSWS

## AC ANDREW

BI: AAFC (Lethbridge), DIST: SeCan Members

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

Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036

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

Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

## WHEAT - MIDGE TOLERANT

## AAC ALIDA VB

BI: N/A, DIST: SeCan Members

Huvenaars, Carl & Crooymann, John / Hays / (403) 725-2213

Limoges, Richard / McLennan / (780) 324-2335

## AAC AWESOME VB

BI: N/A, DIST: SeCan Members

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

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

Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

## AAC CAMERON VB

BI: N/A, DIST: Canterra Seeds

Boisvert, Marc / Girouxville / (780) 618-4724

Huvenaars, Carl / Hays / (403) 725-2213

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

Penwest Seeds / Three Hills / (403) 443-2577

Solick Seeds Ltd. / Halkirk / (403) 884-2358

## AAC CHIFFON VB

BI: N/A, DIST: SeedNet Inc.

Moffitt, Kenneth & Raymond / Radway / (780) 818-6550

Stamp Seeds / Enchant / (403) 739-2233

Witdouch, Dale / Iron Springs / (403) 738-4395

## AAC FORAY VB

BI: N/A, DIST: SeCan Members

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

Huvenaars, Carl / Hays / (403) 725-2213

Lopushinsky, Julian / Bruderheim / (780) 796-2048

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

True Seeds Ltd. / Redwater / (780) 777-5885

## AAC INDUS VB

BI: N/A, DIST: SeCan Members

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

## AAC LEROY VB

BI: AAFC (Brandon), DIST: Alliance Seed

Stamp Seeds / Enchant / (403) 739-2233

## AAC PARAMOUNT VB

BI: N/A, DIST: SeCan Members

Stamp Seeds / Enchant / (403) 739-2233

Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

## AAC SUCCEED VB

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

Quattro Ventures Inc. / Bow Island / (403) 545-2222

Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228

Stamp Seeds / Enchant / (403) 739-2233

## AAC WARMAN VB

BI: N/A, DIST: SeCan Members

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

Hoffmann, Curtis / Oyen / (403) 664-9617

## AAC WHEATLAND

BI: N/A, DIST: SeCan Members

SeCan Association / Kanata / (613) 592-8600

## AAC SADASH VB

BI: N/A, DIST: SeCan Members

Stamp Seeds / Enchant / (403) 739-2233

Zwack, Thomas / Daysland / (780) 374-2450

## AAC SHAW VB

BI: N/A, DIST: SeCan Members

Maisonnette, Andre / Guy / (780) 925-3074

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

## CDC ADAMANT VB

BI: N/A, DIST: FP Genetics

Quattro Ventures / Bow Island / (403) 545-2222

Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228

## CDC CARBIDE VB

BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

## CDC HUGHES VB

BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed

Hartzler, Leonard / Carstairs / (403) 337-2416

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

## CDC LANDMARK VB

BI: N/A, DIST: FP Genetics

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900

Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036

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

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

Sand, Ron W. & David R. / McLaughlin / (780) 745-2251

Sekulic, Nick / Rycroft / (780) 814-2849

Stamp Seeds / Enchant / (403) 739-2233

True Seeds Ltd. / Redwater / (780) 777-5885

## CDC TITANIUM VB

BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

## KWS CHARING VB

BI: N/A, DIST: SeCan Members

Forward Seed Farm / County of Barrhead / (780) 674-3822





# CANADA WESTERN RED WINTER

Variety	Overall Station Years of Testing	Overall Yield (bu/ ac)	Yield Category (% Radiant)				Agronomic Characteristics:							Disease Tolerance:				
			Low < 45 (bu/ ac)	Medium 45 - 75 (bu/ac)	High 75 - 105 (bu/ac)	V. High > 105 (bu/ ac)	Winter Sur- vival	Matu- rity Rating	Protein %	Test Weight (lb/bu)	TKW (g)	Height (cm)	Resist- ance to Ldg.	Stripe Rust	Leaf Rust	Stem Rust	Bunt	FHB
Varieties tested in 2018 (Yield and agronomic data only directly comparable to Radiant)																		
Radiant (bu/ac)	76	37	63	87	113													
Radiant	100	100	100	100	100	VG	L	12.0	63	36	90	VG	S	S	S	S	S	S
AAC Elevate	77	107	106	107	107	102	G	M	+0.3	63	39	84	VG	MS	I	MR	MR	I
AAC Gateway	80	100	XX	99	103	XX	F	M	+0.9	63	33	77	VG	MR	I	MR	S	I
AAC Goldrush	34	102	XX	99	105	XX	VG	M	+0.5	63	34	86	G	I	R	MR	S	I
AAC Wildfire	48	114	XX	116	114	XX	VG	VL	+0.3	64	38	86	G	R	I	S	MR	MR
AC Tempest †	117	97	96	97	96	99	P	VL	+1.5	63	37	91	VG	MR	S	S	MS	I
CDC Buteo †	203	96	94	97	95	101	VG	M	+0.3	65	34	91	F	S	I	I	S	MR
Emerson	79	98	96	95	100	XX	G	M	+0.7	64	30	86	G	MR	I	R	S	R
Flourish †	119	100	99	98	102	104	F	E	+0.6	63	35	80	VG	I	I	I	MR	S
Moats	90	104	91	102	107	108	G	M	+0.7	64	33	91	F	MR	MR	R	MS	S

## CANADA WESTERN EXPERIMENTAL

Varieties tested in 2018 (Yield and agronomic data only directly comparable to Radiant)

AAC Icefield	44	104	XX	97	111	XX	F	M	-0.6	63	32	82	VG	MR	MR	R	S	I
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## CANADA WESTERN SPECIAL PURPOSE

Varieties tested in 2018 (Yield and agronomic data only directly comparable to Radiant)

Pintail	79	108	XX	109	109	XX	VG	L	-1.4	61	29	88	F	MR	MS	MS	S	S
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**Remarks:** Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before September 15) and if there is adequate snow-fall. Varieties with poor (P) winter survival are generally not suitable outside of southern Alberta. The long term average maturity for Radiant is August 10 and is rated as late (L). Fusarium head blight infection may be reduced if varieties with Intermediate (I) resistance or better are used and when recommended seeding dates are followed. Radiant and AAC Elevate have tolerance to the wheat curl mite, the vector for Wheat Streak Mosaic Virus. To preserve the effectiveness of the wheat curl mite tolerance gene, agronomic practices that eliminate the "green bridge" of plant material that serves as a reservoir for mites should be followed whenever possible. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. AAC Wildfire expresses tolerance to some biotypes of Russian wheat aphid. AC Tempest, Radiant and AAC Wildfire have bronze chaff at maturity. AAC Icefield, a hard white winter wheat now fully registered, is eligible for experimental grades to facilitate market research under an Identity Preserved system. AAC Icefield expresses high milling yield of very white flour and good gluten strength at lower protein concentrations that may be of interest in some niche markets. For more information contact FP Genetics. Pintail has an awnless head which may improve palatability when harvested for forage or silage. AAC Goldrush and AAC Icefield will be available in 2019.

† Flagged for possible removal in 2020.

## WHEAT - CWRW

### AAC ELEVATE ☺

BI: AAFC (Lethbridge), DIST: SeCan Members

Kiffiak, Nathan & Mercer, Ryan / Foremost / (403) 867-2338

Kiffiak, Nathan John & Anderson, Tim / Foremost / (403) 867-2338

Stamp Seeds / Enchant / (403) 739-2233

### AAC GATEWAY ☺

BI: AAFC (Lethbridge), DIST: Seed Depot

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

Stamp Seeds / Enchant / (403) 739-2233

Witdouch, Dale / Iron Springs / (403) 738-4395

### AAC GOLDRUSH ▲

BI: AAFC (Lethbridge), DIST: FP Genetics

Quattro Ventures Inc. / Bow Island / (403) 545-2222

### AAC WILDFIRE ▲

BI: AAFC (Lethbridge), DIST: SeCan Members

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900

Croymans, John, Joseph & Andrew / Bow Island / (403) 545-6333

Klassen, Ethan / Coaldale / (403) 345-3770

Penwest Seeds / Three Hills / (403) 443-2577

Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228

Stamp Seeds / Enchant / (403) 739-2233

Templeton, Doran & Brant / Lethbridge / (403) 345-4144

Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

Witdouch, Dale / Iron Springs / (403) 738-4395

### CDC CHASE

BI: CDC, Dist: Canterra Seeds

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

### RADIANT ☺

BI: AAFC (Lethbridge), DIST: Canterra Seeds

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

## WHEAT - CWEW

### AAC ICEFIELD

BI: AAFC (Lethbridge), DIST: FP Genetics

Quattro Ventures / Bow Island / (403) 545-2222

## WHEAT - CWSPWW

### PINTAIL

BI: FCDC (Lacombe), DIST: Mastin Seeds

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

# 2018 Canola Variety Information

**CANOLA PERFORMANCE TRIALS** (CPT) have been conducted since 2011 to provide variety evaluation for western Canadian canola growers. The trials were designed to provide:

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

The CPT trials are conducted under the guidance of a governance committee that approves participating varieties, protocol design, data collection, analyses, reports and finance management. The 2018 CPT program was funded by Alberta Canola Producers Commission, SaskCanola and the Manitoba Canola Growers Association, with contributions from the BC Grain Producers Association. The Canola Council of Canada delivers the program on their behalf. You can learn more about the CPT program and the CPT Technical and Governance Committee in the Canola Variety Selection Guide, available at [www.canolaperformancetrials.ca/](http://www.canolaperformancetrials.ca/).

The CPT summaries provided here are based on successful trials that did not show confounding factors during field inspections. The combination of drought and other factors resulted in only 18 successful small plot trials in 2018. The small trial sites were regionally distributed based on seeded acres in Manitoba, Saskatchewan and Alberta. There were 42 locations of large scale trial data accepted in 2018.

Small plot trials included a limited selection of popular and newly introduced varieties. The small plot system ensures that:

- All varieties are treated with appropriate commercially associated herbicides and seed treatments;
- An independent third party representative inspected all trials; and,
- Harvest occurred at the most appropriate time to minimize harvest losses due to maturity differences. A separate small scale straight cut test is also included to compare varieties marketed for straight cutting.

Field scale comparisons add extra perspective for assessing variety performance. Starting in 2015 large scale comparisons were added and they must meet standard protocols. In 2018 there were 3 large scale comparison tests: shatter tolerant varieties under swath (standard) or straight cut harvest systems; and comparison of selected clubroot resistant varieties (but not on clubroot infested land).

To ensure quality data and statistical analysis, the CPT technical committee established protocols and developed research plot designs. Performance objectives were established to provide guidelines on timely field operations and data collection. All small plot sites were inspected to verify that guidelines were followed for fair comparisons among the varieties tested. Audits of field scale projects give growers the confidence that the protocol was conducted in a scientifically sound manner and that comparisons are appropriate. Qualified professionals with extensive background in conducting field scale research trials performed the audits.

Small yield differences can easily be due to random variation and thus are unlikely to be real effects of varieties. When comparing average zone yields for varieties in the small plot data, the least significant difference (LSD) ranged from 6 to 13% in 2018. This is based on a confidence level that similar differences would occur by chance less than 5% of the time. Comparisons between many varieties or between different herbicide systems are valid but the LSD would be larger. More importantly, comparisons between varieties within the same herbicide system reveal only genetic differences, whereas variety comparisons from different herbicide systems involve the net effect of both genetic and herbicide effects (weed control + crop tolerance).

When comparing variety yields in the field scale summaries, an asterisk (\*) indicate yields that are statistically different (5% level) using the paired t-test.

As you combine results from more sites, the statistical power



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

#### Where are CPT results available?

Averages from zones with less than three sites of data are not shown in this publication due to limited reliability. Results including data from individual locations and previous years are available through an online interactive tool at [www.canolaperformancetrials.ca](http://www.canolaperformancetrials.ca). The interactive tool allows growers to explore many agro-economic factors and to search for trial data in specific geographic areas near their farming operations. Details on management, operations and environmental data for each individual site will be reported online. The online tool has an economic calculator that includes the costs associated with growing the selected variety to assist growers in determining potential profitability.

NOTE: *Brassica rapa* (Polish Canola) and canola quality *Brassica juncea* – no varieties were tested under PCT in 2012 through 2018.



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## Large Scale Standard Swathed Variety Trials

Variety	Growing Season Zone		
	Long (3 locations)	Mid (9 locations)	Overall (13 locations)
	Yield (% of L252)		
L252	100 (47)	100 (58)	100 (55)
75-65 RR	95	95*	95*
L230	92	94*	94*

\* indicates statistically significant different yield (5% level) from L252 in each zone

L252 average yield bu/ac in parentheses

Only 1 location in short season zone so an average is not shown

## Large Scale Clubroot Resistant Variety Trials

Variety	Growing Season Zone		
	Mid (5 locations)	Short (4 locations)	Overall (9 locations)
	Yield (% of L241C)		
L241C	100 (57)	100 (60)	100 (58)
75-42 CR	97	99	98

Note: there were no statistically significant yield differences detected

L241C average yield bu/ac in parentheses

## Large Scale Straight Cut Variety Trials

Variety	Growing Season Zone		
	Long (7 locations)	Mid (13 locations)	Overall (20 locations)
	Yield (% of L233P)		
L233P	100 (55)	100 (55)	100 (55)
45M35	98	97	97*
75-65 RR	96*	96*	96*
L255PC	97*	99	98

\* indicates statistically significant different yield (5% level) from L233P in each zone

L233P average yield bu/ac in parentheses

**Editor's Note:** For a chart of disease resistance of the varieties in the 2018 CPT Trials visit [seed.ab.ca](http://seed.ab.ca) and go to Canola under the Variety Trials section.



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# Small Plot Straight Cut Trials

Distributor	Variety	Long Season (4 locations)			Short Season (4 locations)			Overall (9 locations)		
		Yield (% L233P)	Days to maturity	Height (In.)	Yield (% L233P)	Days to maturity	Height (In.)	Yield (% L233P)	Days to maturity	Height (In.)
Liberty Link										
BASF - InVigor	L255PC	93	87	47	94	110	51	95	97	49
BASF - InVigor	L233P	100 (59)	84	44	100 (57)	104	49	100 (60)	92	46
	LSD	13			12			12		
Roundup Ready										
BrettYoung	6090 RR	74	88	54	107	107	53	92	96	53
CANTERRA SEEDS	CS2100	88	86	47	96	110	50	92	96	48
DEKALB	75-65 RR	90	84	44	101	106	48	95	93	46
Pioneer	45M35	91	84	45	105	108	50	98	94	47
Proven/Nutrien Ag Solutions	540 G	87	86	47	102	108	51	94	95	48
	LSD	7			13			9		

Note: only 1 mid season zone trial which did not meet minimum 3 locations to show an average

L233P average yield in bu/ac shown in parentheses

LSD is the least significant difference (5% level)

Average lodging scores are not shown; individual site lodging scores can be viewed at [canolaperformancetrials.ca](http://canolaperformancetrials.ca)

# Small Plot Standard Harvest Trials

Distributor	Variety	Long Season (6 locations)			Mid Season (8 locations)			Short Season (4 locations)			Overall (18 locations)		
		Yield (% L252)	Days to maturity	Height (In.)	Yield (% L252)	Days to maturity	Height (In.)	Yield (% L252)	Days to maturity	Height (In.)	Yield (% L252)	Days to maturity	Height (In.)
Clearfield													
BrettYoung	5545 CL	88	86	47	90	91	48	90	107	52	90	92	49
CANTERRA SEEDS	CS2500CL	88	86	47	84	90	47	91	108	52	87	92	48
DL Seeds	DL1745CL	87	88	48	86	93	49	95	108	52	88	94	49
Pioneer	46H75	87	87	46	88	94	47	92	107	53	89	94	48
Proven/Nutrien Ag Solutions	PV 200 CL	91	85	46	90	91	46	86	106	49	89	92	47
	LSD	10			9			12			10		
Liberty Link													
BASF - InVigor	L252	100 (61)	85	45	100 (64)	91	46	100 (68)	108	50	100 (64)	92	47
BASF - InVigor	L230	95	84	45	95	89	44	95	103	50	95	90	46
BASF - InVigor	L241C	94	85	45	94	90	45	101	105	51	96	91	46
	LSD	16			15			12			14		
Roundup Ready													
BrettYoung	6090 RR	84	89	51	89	93	51	98	107	58	89	94	53
BrettYoung	6076 CR	87	87	48	90	92	48	99	108	54	91	93	49
BrettYoung	6074 RR	91	86	45	94	92	45	96	109	51	93	93	46
CANTERRA SEEDS	CS2300	90	86	48	94	93	49	100	109	55	94	93	50
CANTERRA SEEDS	CS2000	88	85	45	90	90	46	90	106	52	89	91	47
CANTERRA SEEDS	CS2100	92	86	44	88	93	44	86	110	51	89	94	46
Cargill	16RH5088	83	87	46	90	93	49	93	110	53	88	94	49
Cargill - VICTORY	V14-1 *	86	87	47	91	92	47	93	112	51	90	94	48
Cargill - VICTORY	V12-3 *	85	85	44	93	91	44	88	107	48	89	92	45
DEKALB	75-65 RR	92	83	43	88	89	44	91	107	51	90	90	45
DEKALB	74-44 BL	92	84	43	94	90	44	92	108	50	93	91	45
DEKALB	75-42 CR	87	85	44	88	90	45	89	106	51	88	91	46
DL Seeds	DL1634RR	86	88	49	96	93	50	101	110	55	93	95	51
Pioneer	45H33	89	85	45	93	91	49	94	105	53	92	91	49
Pioneer	45M35	92	84	44	99	91	45	96	107	50	96	91	46
Pioneer	45CS40	92	85	47	90	91	48	96	106	54	92	91	49
Brevant	D3155C	93	85	46	93	91	49	97	106	54	94	92	49
Proven/Nutrien Ag Solutions	540 G	91	86	44	94	92	46	94	108	52	93	93	46
Nutrien Ag Solutions	581 GC	89	87	46	94	93	48	91	108	53	92	93	49
	LSD	13			11			12			13		

L252 average yield in bu/ac shown in parentheses

LSD is the least significant difference (5% level)

Average lodging scores are not shown; individual site lodging scores can be viewed at [canolaperformancetrials.ca](http://canolaperformancetrials.ca)

\*Indicates varieties with specialty oil profiles and premiums associated with pricing

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## ADDITIONAL RESOURCES:

Canola Council of Canada / 1-866-834-4378 / [www.canolacouncil.org](http://www.canolacouncil.org)

Alberta Agriculture and Rural Development / 310-FARM (3276) / [www.agriculture.alberta.ca](http://www.agriculture.alberta.ca)

Alberta Canola Producers Commission / 1-800-551-6652 / [www.canola.ab.ca](http://www.canola.ab.ca)

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### 46H75

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### 5535 CL

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### 6074 RR

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### 75-42CR

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### 75-45 RR

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# FLAX

Variety	Overall Station Years of Testing	Yield Category (% CDC Bethune):					Agronomic Characteristics:					Disease Tolerance:		Quality:		
		Overall Yield	Low < 20 (bu/ac)	Medium 20 30 (bu/ac)	High 30 37 (bu/ac)	V. High > 37 (bu/ac)	Maturity Rating	Seed Colour	Seed Size	Height (cm)	Resistance to Ldg.	Fusarium Wilt	Powdery Mildew	Oil Content (%)	ALA Content (%)	Iodine Value
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Bethune)																
CDC Bethune (bu/ac)		32	14	26	33	47										
CDC Bethune ☼	128	100	100	100	100	100	L	brown	M	58	G	MR	MR	46	55	189
AAC Marvelous ▲	19	107	XX	XX	XX	105	L	brown	M	63	G	MR	MR	47	56	192
AAC Prairie Sunshine ☼	16	99	XX	XX	100	97	L	brown	M	65	VG	MR	MR	48	57	193
CDC Glas ☼	32	107	XX	XX	105	107	L	brown	M	64	G	MR	MR	46	57	192
CDC Rowland ▲	19	112	XX	XX	XX	110	L	brown	L	64	G	MR	MR	45	59	195
Previously tested varieties																
CDC Bethune ☼		100	100	100	100	100	L	brown	M	58	G	MR	MR	46	55	189
AAC Bravo ☼	23	104	XX	XX	XX	105	L	brown	L	64	G	MR	MR	45	60	194
CDC Buryu ☼	26	100	97	104	99	97	L	brown	L	57	G	MR	MR	46	56	193
CDC Neela ☼	24	109	108	116	108	XX	L	brown	M	55	G	MR	MR	46	59	194
CDC Plava ☼	34	101	98	109	101	93	M	brown	M	53	G	MR	XX	47	57	196
CDC Sanctuary † ☼	27	106	112	99	XX	104	VL	brown	M	64	G	MR	MR	46	57	191
CDC Sorrel ☼	32	104	112	104	100	99	L	brown	L	61	F	MR	MR	45	58	193
Prairie Sapphire ☼	23	96	XX	XX	XX	100	L	brown	M	64	G	MR	MR	48	57	193
Prairie Thunder † ☼	40	100	106	95	XX	99	M	brown	M	55	G	R	MR	45	58	195
Topaz ☼	26	101	104	100	97	105	L	brown	M	55	G	MR	MR	47	55	189
VT50 ☼	24	103	XX	109	104	97	VL	yellow	S	51	VG	MR	XX	47	68	209
WestLin 60 † ☼	24	100	100	105	XX	98	M	brown	M	50	G	MR	XX	46	60	198
WestLin 71 † ☼	25	95	99	91	XX	94	L	brown	M	56	G	MR	MS	48	61	198
WestLin 72 ☼	26	100	96	106	103	94	VL	brown	S	53	VG	MR	MR	47	57	193

**Remarks:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. The long term average maturity for CDC Bethune in Alberta is 110 days and rated as Late (L). All varieties are immune to flax rust. New registrations: AAC Bright (FP2422); AAC Marvelous (FP2401); CDC Dorado (FP2432) and CDC Rowland (FP2513). Insufficient data to describe: AAC Bright and CDC Dorado. AAC Bright and CDC Dorado are yellow seeded varieties. XX - Insufficient data to describe. † Flagged for possible removal in 2020.



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Soft White Wheat – * Sadash VB	Peas – * CDC Inca / CDC Meadow / AAC Lacombe
Winter Wheat – * CDC Chase / Moats / Wildfire	Barley – Canmore / Copeland / Austenson / Amisk
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BI: AAFC (Morden), DIST: FP Genetics

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Stamp Seeds / Enchant / (403) 739-2233

## AAC PRAIRIE SUNSHINE ▲

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BI: CDC, DIST: SeedNet Inc.

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Mercer Seeds Ltd. / Lethbridge / (403) 327-9736  
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Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

## CDC NEELA

BI: CDC, DIST: Canterra Seeds

Huvenaars, Carl / Hays / (403) 725-2213

## CDC PLAVA ☼

BI: CDC, DIST: SeCan Members

Klassen, Ken / Rosemary / (403) 378-4408  
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500  
Maisonnette, Andre / Guy / (780) 925-3074  
SeCan Association / Kanata / (613) 592-8600  
Skaley, Wayne / Rycroft / (780) 765-2175  
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Stamp Seeds / Enchant / (403) 739-2233

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## WESTLIN 70

BI: Nutrien Ag Solutions, DIST: Nutrien Ag Solutions/Proven Seed

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## WESTLIN 71 ☼

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# FLAX - RECONSTITUTED

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Hoff, Peter Edward / Gleichen / (403) 734-2140  
Holmstrom, Darrell / Killam / (780) 385-3574  
Huvenaars, Carl / Hays / (403) 725-2213  
Mueller, Darcy / Three Hills / (403) 820-4115  
Stamp Seeds / Enchant / (403) 739-2233

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BI: CDC, DIST: SeCan Members

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# 2018 Regional Silage Variety Trials

**AN** important component of the annual feed supply for Alberta's cattle producers comes in the form of silage, green feed and swath grazing. The selection of annual crop varieties that produce high forage yield and/or nutritional quality can be a significant factor influencing profitability.

## Participating Organizations

- Battle River Research Group, Forestburg, Alta. (780) 582-7308
- Chinook Applied Research Association, Oyen, Alta. (403) 664-3777
- Gateway Research Organization, Westlock, Alta. (780) 349-4546
- Lakeland Agricultural Research Association, Bonnyville, Alta. (780) 826-7260
- Mackenzie Applied Research Association, Fort Vermilion, Alta. (780) 927-3776
- North Peace Applied Research Association, Manning, Alta. (780) 836-3354
- Peace Country Beef and Forage, Fairview, Alta. (780) 836-3354
- Smoky Applied Research and Demonstration Association, Falher, Alta. (780) 837-2900
- West Central Forage Association, Entwistle, Alta. (780) 727-4447

## Major Sponsors

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- A & L Canada Laboratories Inc.
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## Trial Information

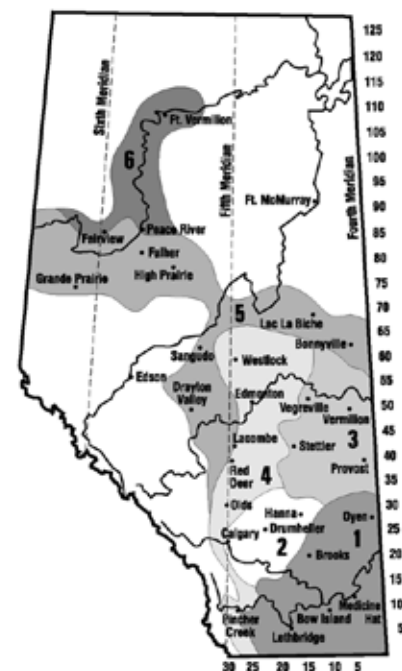
Silage yield and nutritional information has been collected by several applied research associations at sites from Oyen in the south to Fort Vermilion in the north of Alberta. Varieties of barley, oats and triticale commonly used for silage, green feed and swath grazing were included in the trial. Pea/cereal mixes and spring/fall cereal mixes have also been evaluated. Growing conditions at the trial sites in 2018 ranged from below average to excessive moisture.

The cereal trials, (barley, oats & triticale), were planted at recommended seeding density rates with recommended fertility. The pulse mixture trial looked at increasing the nutritional value of silage, with a potential side benefit of decreasing future nitrogen costs. The pulse mix plots were seeded with 50 pounds of 11-52-0-0. Peas were seeded at 75 per cent of their recommended seeding rate and cereals at 50 per cent when in mixtures. The spring/fall cereal mixes were included in 2018 to evaluate options

for fall grazing, as the winter cereal growth continues after silage harvest. It also remains vegetative, resulting in forage with high protein content late in the year. Target seeding rate of the spring component of the mix was 75 per cent of the recommended rate while the winter cereal was seeded at 50%. These mixes were harvested at soft dough of the spring cereal.

Data submitted in 2018

has been summarized by crop in the following tables Information collected since 2012 has been included in a separate summary below each crop table. The information is presented as compared to the control variety (in bold). Yield of the test varieties are expressed as wet tons/acre (ie. 65% moisture which is typical of silage production). Data sets which did not meet minimum quality standards and variance levels were excluded.



## Test Yield Categories

The defined range for each Test Yield Category is provided in tons per acre. Variety yields are reported as average yields in Low, Medium and High Test Yield Categories. This allows for comparison with the check when growing conditions, management regimes and/or target yields are anticipated to be of low, medium or high productivity. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested. It should also be noted that the indicated yield levels are those from small plot trials, which can be 15 to 20 per cent higher than yields expected under commercial production. As yield is not the only factor that affects net return, other important agronomic and disease resistance characteristics should also be considered. The genetic yield potential of a variety can be influenced by various management and environmental factors.

## Nutritional Analysis

Nutrition was assessed using NIRS for macro-nutrient assessments and wet chemistry for the micro-nutrients. Full nutritional analysis was done on two sub-samples from each variety or mix from each location. Only six key nutritional categories are reported: crude protein (CP), total digestible nutrients (TDN) which is an estimation of energy, calcium (Ca), phosphorus (P), potassium (K) and magnesium (Mg).



# BARLEY

Variety	Overall Station Years of Testing	Over-all Yield	Area:					Yield Category:			Nutritional Data:					
			2	3	4	5	6	Low < 9.0 (t/ac)	Medium 9.1 12.0 (t/ac)	High > 12.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Austenson)																
CDC Austenson (t/ac)		10.6	9.3	12.1	11	11.3	8.7	7.1	11.4	14.7	10.3	67	0.3	0.2	1.4	0.2
CDC Austenson	45	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
AB Cattlelac	4	102	XX	XX	XX	99	109	106	XX	89	109	97	172	85	133	126
Altorado	26	102	102	92	99	103	103	106	98	101	100	99	102	101	102	93
Amisk	33	92	100	92	91	90	89	92	91	91	104	102	134	103	104	109
CDC Coalition	37	94	97	93	92	90	100	97	91	93	101	100	103	107	106	100
Canmore	26	100	101	99	93	102	100	104	95	100	99	99	120	101	98	103
Champion	26	102	103	97	100	103	102	106	99	101	99	101	105	99	104	99
Chigwell	23	92	80	95	87	91	96	94	91	88	102	100	158	99	105	118
Claymore	26	100	105	102	97	102	94	101	93	104	94	97	124	97	99	101
Conlon	31	87	83	95	86	85	89	84	88	90	98	102	129	112	99	104
Ranger	23	94	101	99	XX	94	88	93	96	87	100	99	157	104	121	126
Sundre	37	93	97	93	87	91	98	93	94	94	101	99	134	103	113	113
Previously tested varieties																
Busby	19	93	91	98	71	96	88	86	95	97	105	99	128	100	100	103
CDC Cowboy	33	101	101	103	98	102	101	105	99	100	96	99	117	110	108	117
Gadsby	33	99	95	106	94	99	100	101	101	98	96	100	127	100	96	101
CDC Maverick	35	104	105	96	96	104	107	110	102	102	96	99	122	108	95	116
CDC Meredith	22	100	108	106	93	98	103	101	102	100	95	98	99	101	102	94
Muskwa	13	90	101	93	XX	86	91	86	91	91	114	100	167	107	121	127
Ponoka	19	96	90	100	100	96	95	96	94	97	101	99	148	103	104	115
Ranger	13	95	104	99	XX	96	88	85	97	99	109	98	171	101	128	131
Seebe	19	96	95	103	92	95	95	95	96	97	109	96	136	109	113	103
Trochu	18	88	XX	91	73	91	85	82	89	92	103	101	139	107	109	119
Vivar	19	93	95	99	78	92	93	90	98	93	108	100	144	99	104	123
Xena	19	95	87	101	84	92	101	96	90	95	106	99	111	105	102	106

**Remarks:** For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.



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# SPRING-FALL CEREAL MIXTURES

Variety	Overall Station Years of Testing	Overall Yield	Area		Yield Category:			Nutritional Data:						
			3	5	Low < 8.0 (t/ac)	Medium 8.1 10.0 (t/ac)	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)	
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Austenson)														
CDC Austenson (t/ac)		11.5	8.6	14.4	8.6	XX	14.4	8.3	60.4	0.3	0.1	2.1	0.1	
CDC Austenson	2	100	100	100	100	100	100	100	100	100	100	100	100	
CDC Baler	2	93	95	91	95	XX	91	124	101	104	121	112	124	
Taza	2	68	43	94	43	XX	94	149	109	109	227	152	130	
AC Radiant/CDC Austenson	2	110	115	104	115	XX	104	111	102	91	140	104	106	
AC Radiant/CDC Baler	2	86	82	89	82	XX	89	116	103	98	141	113	118	
AC Radiant/CDC Taza	2	100	106	94	106	XX	94	112	100	69	156	94	90	
Metzger/CDC Austenson	2	97	106	89	106	XX	89	105	104	96	134	94	100	
Metzger/CDC Baler	2	89	74	105	74	XX	105	110	101	86	131	105	106	
Metzger/Taza	2	86	82	90	82	XX	90	119	104	78	144	96	96	
Prima/CDC Austenson	2	95	82	107	82	XX	107	110	101	115	136	104	133	
Prima/CDC Baler	2	81	64	99	64	XX	99	111	98	96	121	115	116	
Prima/CDC Taza	2	103	112	94	112	XX	94	118	103	69	142	93	104	

**Remarks:** For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.

## OAT

Variety	Overall Station Years of Testing	Overall Yield	Area:					Yield Category:			Nutritional Data:						
			2	3	4	5	6	Low < 8.0 (t/ac)	Medium 8.1 10.0 (t/ac)	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mn (%)	
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Baler)																	
CDC Baler (t/ac)		10.6	9.6	9.6	14.4	11.2	8.2	6	10	14.8	9.5	61.4	0.3	0.2	1.9	0.2	
CDC Baler	43	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
AC Juniper	33	93	96	94	94	86	103	103	81	91	101	101	95	107	101	105	
AC Morgan	42	100	105	100	94	96	109	104	95	100	99	101	100	112	99	97	
CDC Haymaker	38	99	106	98	99	97	100	103	97	98	99	100	100	103	101	99	
CDC Seabiscuit	16	99	88	103	107	98	101	97	97	102	99	101	96	99	96	98	
CDC SO1	43	96	88	103	90	95	98	99	93	95	102	102	97	102	98	103	
Murphy	37	102	104	105	101	102	102	104	101	102	93	96	96	98	101	98	
ORe3542M	4	99	XX	97	96	84	119	97	119	90	110	103	100	118	89	98	
Waldern	36	102	98	104	98	100	110	104	106	99	95	99	107	101	95	99	
Previously tested varieties																	
AC Mustang	39	98	99	97	95	99	99	96	99	99	101	99	99	103	101	99	
Derby	6	96	100	XX	106	89	94	89	93	101	89	100	98	99	100	110	
Everleaf	5	94	XX	113	106	72	XX	108	76	67	96	98	105	97	110	92	
Foothills	21	99	103	95	101	99	103	99	96	102	99	98	103	103	102	100	
Jordan	20	100	107	92	88	100	121	102	102	96	97	100	96	105	97	112	

**Remarks:** For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.



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# PULSE MIXTURES

Variety	Overall Station Years of Testing	Overall Yield	Area:			Yield Category:			Nutritional Data:					
			2	5	6	Low < 8.0 (t/ac)	Medium	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
							8.1 10.0 (t/ac)							
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Austenson)														
CDC Austenson (t/ac)		8.6	5.3	9.4	8.4	6.1	8.9	11.6	10.3	65.3	0.3	0.2	1.5	0.2
CDC Austenson	12	100	100	100	100	100	100	100	100	100	100	100	100	100
CDC Baler	12	108	111	102	114	101	114	97	96	96	107	107	117	114
Taza	12	106	110	96	117	107	109	94	96	96	76	113	96	83
CDC Austenson/CDC LeRoy	7	88	XX	88	89	104	87	82	124	98	186	119	114	129
CDC Austenson/CDC Meadow	12	100	105	98	102	102	102	92	113	90	172	106	110	140
CDC Baler/CDC LeRoy	7	97	XX	97	98	75	107	90	105	96	136	108	121	111
CDC Baler/CDC Meadow	12	103	105	99	108	96	110	87	107	98	153	108	114	131
Taza/CDC LeRoy	7	96	XX	89	106	96	104	80	114	96	171	112	98	118
Taza/CDC Meadow	12	100	99	94	107	100	107	78	109	97	183	111	102	129
Previously tested varieties														
CDC Austenson/CDC Horizon	5	105	109	100	107	108	102	XX	101	97	156	102	111	133
CDC Baler/CDC Horizon	5	101	111	102	96	113	94	XX	109	94	173	101	123	145
Taza/CDC Horizon	5	108	96	105	119	104	111	XX	116	96	179	106	106	137

**Remarks:** For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.

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# TRITICALE

Variety	Overall Station Years of Testing	Overall Yield	Area:				Yield Category:				Nutritional Data:						
			2	3	4	5	6	Low	Medium	High	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)	
								< 10.0 (t/ac)	10.1 12.5 (t/ac)	> 12.6 (t/ac)							
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Taza)																	
Taza (t/ac)		10.9	11	11.7	13.2	10.6	9.8	7.3	11.3	15.4	9.1	62.6	0.2	0.2	1.4	0.1	
Taza	49	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Bunker	41	100	100	91	107	101	101	103	98	99	102	99	109	96	96	115	
Sunray	42	101	99	99	103	102	103	102	102	100	103	103	105	103	103	109	
T256	5	102	XX	98	96	105	XX	105	XX	98	95	100	107	107	90	127	
Tyndal	48	100	101	102	107	99	98	102	99	100	103	100	101	103	96	106	
Previously tested varieties																	
94I043057	7	100	103	XX	110	93	101	89	103	100	106	102	91	102	90	108	
AAC Chiffon	15	104	119	111	118	92	107	108	103	103	107	100	87	94	109	111	
AAC Innova	8	104	121	119	123	83	102	95	107	107	108	100	87	106	109	107	
AAC Ryley	8	97	108	104	87	87	110	86	100	101	103	100	95	106	89	117	
AC Ultima	7	103	104	98	120	100	XX	109	100	104	110	100	101	93	97	122	
Pasteur	8	94	110	96	97	84	103	91	99	91	107	103	96	99	107	117	
Pronghorn	21	102	107	103	114	99	101	108	99	103	103	100	102	99	109	106	
Sadash	8	102	111	102	109	91	121	101	108	97	99	99	88	91	110	105	

**Remarks:** For explanations on data summarization methods and other information, please see the comments at the beginning of this publication. The yield comparison is expressed in several ways. First, overall actual yield of the standard check in t/ac along with the number of station years of testing. Second, actual yield of the standard check in each growing area. Third, average yield of each variety is expressed in % relative to the standard check. And finally, yield performance is also expressed on the basis of environmental productivity (Yield Test Categories of Low, Medium and High). Consistent performance over all Yield Test Categories indicates that a variety may have good yield stability over a wide range of environments. XX - Insufficient data to describe.



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## Forage references:

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

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

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

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

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Faba Beans	- CDC Copeland
- Snowbird	Feed Barley
HRS Wheat	- CDC Coalition
- AAC Viewfield	- Canmore
- AAC Brandon	
- AAC Connery	
- Muchmore	

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## PEAS:

CDC Meadows  
CDC Amarillo  
CDC Raezer  
AAC Carver

## WHEAT:

Stettler  
CDC NRG 003  
CDC Plentiful  
Muchmore  
AAC Brandon  
AAC Viewfield

## BARLEY:

AC Metcalfe

## OATS:

CS Camden

**NORGOLD**

**BI: N/A, DIST: BrettYoung Seeds Ltd.**

BrettYoung Seeds Limited / St. Norbert / (204) 261-7932

C

**WILDCAT**

**BI: N/A, DIST: BrettYoung Seeds Ltd.**

BrettYoung Seeds Limited / St. Norbert / (204) 261-7932

C

**FESCUE**

S F R C

**BOREAL**

**BI: AAFC (Beaverlodge), DIST: Nutrien Ag Solutions/Proven Seed**

Carlstad, Tyler / Bear Canyon / (780) 835-0505

DLF Moore Seed Inc / Debolt / (780) 957-3964

Jones, Danny / Beaverlodge / (780) 354-8089

Richard, Gerald / Spirit River / (780) 864-2339

Richard, Michel / Spirit River / (780) 864-4220

C

C

C

F

F

R

S

S

**ORACLE**

**BI: AAFC (Beaverlodge), DIST: N/A**

Foster's Seed & Feed Limited / Beaverlodge / (780) 354-2107

Hegland, David Olaf / Wembley / (780) 766-2450

Longson, A. Keith / Beaverlodge / (780) 831-7998

C

C

C

**PRADEL**

**BI: N/A, DIST: Speare Seeds**

Dynamic Seeds Ltd. / Fairview / (780) 835-5435

C

**ORCHARDGRASS**

S F R C

**AC KILLARNEY**

**BI: AAFC, DIST: N/A**

Card, Gordon B. & Rhett / Magrath / (403) 758-3444

C

**EARLY ARCTIC**

**BI: N/A, DIST: Northstar Seed Ltd.**

Northstar Seed Ltd. / Neepawa / (204) 476-5241

C

**TUNDRA**

**BI: N/A, DIST: Northstar Seed Ltd.**

Northstar Seed Ltd. / Neepawa / (204) 476-5241

C

**TUNDRA LATE**

**BI: N/A, DIST: Northstar Seed Ltd.**

Kerschbaumer, John A. / Fairview / (780) 835-4508

C

**REED CANARY GRASS**

S F R C

**RIVAL**

**BI: N/A, DIST: SeCan Members**

Dirks, Aaron Jonathan / Cecil Lake / (250) 781-3346

C

**SAINFOIN**

S F R C

**AAC GLENVIEW**

**BI: AAFC (Lethbridge), DIST: N/A**

McNaughton, Brian / Lethbridge / (403) 308-9914

F

**AAC MOUNTAINVIEW**

**BI: AAFC (Lethbridge), DIST: Northstar Seed Ltd.**

Northstar Seed Ltd. / Neepawa / (204) 476-5241

C

**TIMOTHY**

S F R C

**ALMA**

**BI: N/A, DIST: Moore Seed Processors Inc.**

DLF Moore Seed Inc / Debolt / (780) 957-3964

C

**BARPENTA**

**BI: N/A, DIST: Moore Seed Processors Inc.**

DLF Moore Seed Inc / Debolt / (780) 957-3964

C

**CATAPULT**

**BI: N/A, DIST: BrettYoung Seeds Ltd.**

BrettYoung Seeds Limited / St. Norbert / (204) 261-7932

F

C

**CLIMAX**

**BI: N/A, DIST: DLF Pickseed**

General Feed & Grain Inc. / Bonners Ferry / (208) 267-3185

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## COMER

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DLF Pickseed / Winnipeg / (204) 633-0088

## CREST

**BI: N/A, DIST: BrettYoung Seeds Ltd.**  
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932

## DERBY

**BI: N/A, DIST: BrettYoung Seeds Ltd.**  
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932  
General Feed & Grain Inc. / Bonners Ferry / (208) 267-3185

## PROMESSE

**BI: N/A, DIST: BrettYoung Seeds Ltd.**  
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932  
Dirks, Aaron Jonathan / Cecil Lake / (250) 781-3346

## SUMMERGRAZE

**BI: N/A, DIST: BrettYoung Seeds Ltd.**  
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932  
Danyliuk, Jeff / Sunset House / (780) 524-2039

## TENHO

**BI: N/A, DIST: Moore Seed Processors Inc.**  
DLF Moore Seed Inc / Debolt / (780) 957-3964

## TITAN

**BI: N/A, DIST: Northstar Seed Ltd.**  
Hill, Gordon P. & Blair / Taylor / (250) 789-3469

## TUUKKA

**BI: N/A, DIST: Moore Seed Processors Inc.**  
DLF Moore Seed Inc / Debolt / (780) 957-3964

# WHEATGRASS

S F R C

## AC GOLIATH

**BI: AAFC, DIST: N/A**  
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932

## AC SALTLANDER

**BI: AAFC (Swift Current), DIST: SeCan Members**  
Miller, Kenneth F. / Milk River / (403) 647-2127

## ELBEE

**BI: AAFC (Lethbridge), DIST: SeCan Members**  
Limoges, Daniel / Girouxville / (780) 833-1287

## FAIRWAY

**BI: N/A, DIST: N/A**  
Hostettler, Fritz / Bluesky / (780) 835-4761

## GREENLEAF

**BI: N/A, DIST: SeCan Members**  
Card, Gordon B. & Rhett / Magrath / (403) 758-3444

## KIRK

**BI: AAFC (Saskatoon), DIST: SeCan Members**  
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932  
Limoges, Daniel / Girouxville / (780) 833-1287  
Meiers, Mark / Charlie Lake / (250) 827-3843

## NEWKIRK

**BI: AAFC, DIST: N/A**  
Limoges, Daniel / Girouxville / (780) 833-1287

## REVENUE

**BI: N/A, DIST: SeCan Members**  
Nutrien Ag Solutions (Canada)/Proven Seed / Carrot River / (306) 768-3335

## WALSH

**BI: AAFC (Lethbridge), DIST: SeCan Members**  
Card, Gordon B. & Rhett / Magrath / (403) 758-3444



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# Special Crops

**THIS** publication provides information on pulse variety performance within Alberta and northeastern British Columbia. Important agronomic characteristics and disease resistance information is provided for varieties of field pea, chickpea, lentil, fababean, dry bean and soybean.

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

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

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

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

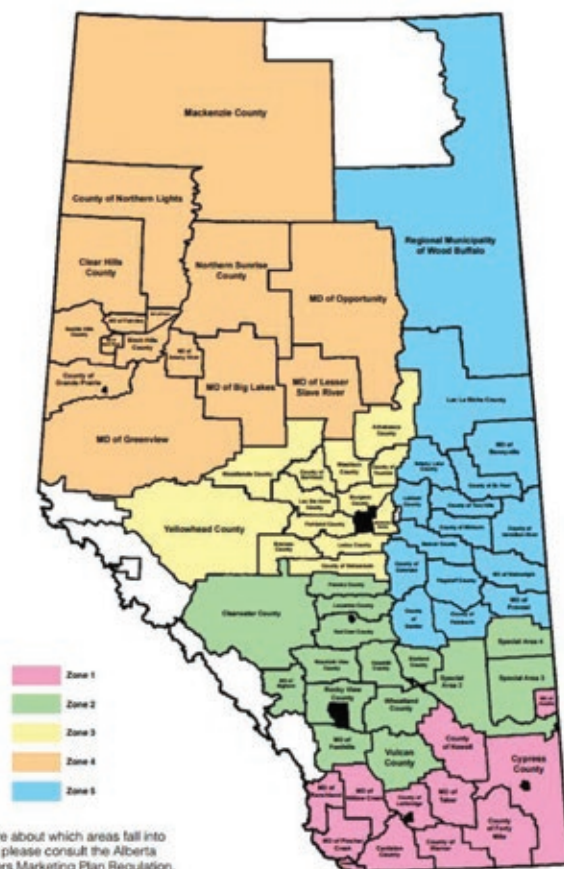
Yields that are statistically higher (+) or lower (-) than the check are indicated. No symbol after the yield figure indicates that there is no statistical difference from the check. Pay particular attention to data on new varieties that have not been fully tested. If a large difference from the check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

years of testing, the reported yield differences will become more accurate.

The following regional trials were grown in 2018:

- Nineteen green and yellow pea trials in Alberta and two sites in British Columbia;
- Twelve fababean trials;
- Nine lentil trials;
- Three wide row dry bean trials at Bow Island, Lethbridge and Vauxhall;
- A narrow row dry bean in Lethbridge, and;
- Eight soybean.

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



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# FABA BEAN

Variety	Type	Overall Yield	Overall Station Years of Testing	Relative Maturity <sup>1</sup>	Plant Height (cm)	Thousand Seed Weight (g)	Flower Colour <sup>2</sup>
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to Snowbird)							
<b>CDC Snowbird (kg/ha)</b>		<b>5722</b>					
<b>CDC Snowbird</b> ☼	<b>Zero Tannin</b>	<b>100</b>	<b>54</b>	<b>E</b>	<b>89</b>	<b>478</b>	<b>W</b>
CDC 219-16 NR	Zero Tannin	101	10	E	83	358	W
DL Tesoro NR	Zero Tannin	107	10	M	89	571	W
Fabelle▲	Tannin	115+	20	M	94	534	C
Malik NR * NR	Tannin	96-	42	M	83	632	C
Previously tested varieties: 2013 - 2015 (Yield and agronomic data only directly comparable to Snowbird)							
Snowdrop	Zero Tannin	88-	23	E	87	351	W
Tabasco ☼	Zero Tannin	85-	15	M	86	374	W

**Remarks:** All coloured flower types have seed coats that contain tannins and may be suitable for export food markets if seed size and quality match customer demand. Varieties tested for a minimum three years are considered fully tested. ▲ = Applied for Plant Breeder's Rights protection (PBR). ☼ = Protected by PBR (UPOV 78). ☼ = Protected by PBR (UPOV 91). NR = Variety not registered with CFIA. \* Contract Varieties. Varieties removed from the table: Athena, Rodeo and Vertigo.

<sup>1</sup>Maturity: E = early, M = medium, ML = medium late, L = late; <sup>2</sup>Flower Colour: W = white flower, zero tannin; C = colored flower, tannin.

# FABA BEAN

## CDC SNOWDROP

BI: CDC, DIST: N/A

Kittle, James William & Andrew / Viking / (780) 336-2583  
Penwest Seeds / Three Hills / (403) 443-2577  
Sim, Darwin & Derek / Ponoka / (780) 372-2111  
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617

## FABELLE

BI: DL Seeds, DIST: N/A

Stamp Seeds / Enchant / (403) 739-2233

## FB 9-4 (MALIK)

BI: N/A, DIST: N/A

Stamp Seeds / Enchant / (403) 739-2233

## SNOWBIRD ☼

BI: Innoseeds, DIST: Limagrain Cereals Research Canada

Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036  
Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268  
Lindholm Seed Farm / New Norway / (780) 352-3240  
Plante, Jacques / St. Paul / (780) 645-4604  
Stamp Seeds / Enchant / (403) 739-2233  
Alect Seeds / Three Hills / (403) 443-9599

## VERTIGO

BI: DL Seeds, DIST: N/A

Stamp Seeds / Enchant / (403) 739-2233

# HEMP

## CANMA

BI: N/A, DIST: Natural Emphasis

Fresh Hemp Foods Ltd. / Ste. Agathe / (204) 882-2480

## CFX-2

BI: N/A, DIST: Hemp Genetics International Inc.

Hemp Genetics International Inc. / Saskatoon / (604) 882-4936

## CRS-1

BI: N/A, DIST: Hemp Genetics International Inc.

Hemp Genetics International Inc. / Saskatoon / (604) 882-4936

## FINOLA ☼

BI: N/A, DIST: Hemp Oil Canada

Fresh Hemp Foods Ltd. / Ste. Agathe / (204) 882-2480  
Mercer Seeds Ltd. / Lethbridge / (403) 327-9736  
Witdouch, Dale / Iron Springs / (403) 738-4395

## GRANDI

BI: N/A, DIST: Hemp Genetics International Inc.

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

## KATANI

BI: N/A, DIST: Hemp Genetics International Inc.

Hemp Genetics International Inc. / Saskatoon / (604) 882-4936

## PICOLO ☼

BI: Hemp Genetics International, DIST: SeedNet Inc.

Pepneck, David / Vauxhall / (403) 424-0096  
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# LENTILS

Market Class	Variety	Overall Yield	Overall Station Years of Testing	Area:						Agronomic Characteristics:					Disease Tolerance: <sup>6</sup>	
				1		2		5		TSW <sup>2</sup> (g)	Plant Height (cm)	Maturity Rating <sup>3</sup>	Coty-ledon Colour <sup>4</sup>	Seed Coat Colour <sup>5</sup>	Asco- chyta	Anthra- cnose
				Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years							
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Maxim)																
	CDC Maxim (kg ha <sup>-1</sup> )	2938		2859		2878		3933								
Small Red	CDC Maxim (CL) <sup>1</sup>	100	37	100	31	100	4	100	2	40	34	E/M	R	GR	G	G
Extra Small Red	CDC Roxy ▲	99	17	97	11	104	4	103	2	28	33	E/M	R	GR	G	G
Small Red	IBC-978 (CL) (A)▲NR	96	8	89	4	115	2	92	2	31	32	E/M	R	GR	G	G
	CDC Impulse (CL) ☹	104	17	100	11	107	4	119	2	47	36	E/M	R	GR	G	G
	CDC Proclaim (CL) ☹	103	14	102	8	109	4	99	2	40	35	E/M	R	GR	G	G
Small Green	CDC Kermit ☹	103	8	92	4	127	2	103	2	31	32	E/M	Y	G	G	G
Large Green	CDC IBC-937 (CL) (A)▲NR	93	8	84	4	113	2	93	2	67	34	M/L	Y	G	G	VP
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Maxim)																
Extra Small Red	CDC Impala (CL)	93-	20	93-	20	XX	XX	XX	XX	31	35	E	R	GR	G	G
	CDC Imperial (CL)	82-	17	82-	17	XX	XX	XX	XX	30	35	E	R	GR	G	G
	CDC Rosie	97	19	102	17	76	2	XX	XX	30	35	E/M	R	GR	G	G
Small Red	CDC Dazil (CL)	94	25	93	23	98	2	XX	XX	34	35	E/M	R	GR	G	F
	CDC Imax (CL)	100	19	100	19	XX	XX	XX	XX	46	37	E/M	R	GR	G	F
	CDC Redberry	96	17	96	17	XX	XX	XX	XX	44	37	E	R	GR	G	G
	CDC Redcliff	110+	14	110+	14	XX	XX	XX	XX	39	36	E/M	R	GR	G	F
	CDC Scarlet	102	19	105	17	86	2	XX	XX	38	35	E/M	R	GR	G	F
Large Red	CDC KR-1	104	23	104	21	103	2	XX	XX	52	39	M	R	GR	G	G
Small Green	CDC Invincible (CL)	96	28	96	26	90	2	XX	XX	33	35	E	Y	G	G	G
Medium Green	CDC Imigreen (CL)	79-	14	79-	14	XX	XX	XX	XX	61	43	M	Y	G	G	VP
	CDC Impress (CL)	85-	14	85-	14	XX	XX	XX	XX	52	38	M	Y	G	G	P
Large Green	CDC Greenland	88-	14	88-	14	XX	XX	XX	XX	67	39	M/L	Y	G	G	VP
	CDC Greenstar	92	9	XX	XX	XX	XX	XX	XX	63	37	M/L	Y	G	G	F
	CDC Impower (CL)	81	23	81	21	83	2	XX	XX	67	41	M/L	Y	G	G	VP
	CDC Improve (CL)	84	23	84	21	83	2	XX	XX	71	38	M	Y	G	F	VP

**Remarks:** Weight, diameter and thickness of lentil seeds were dependent upon environmental conditions and agronomic factors. Four trials were grown in Zone 1: Bow Island, Brooks, Lethbridge, Medicine Hat; two trials in Zone 2: Oyen and Strathmore; and three trials in Zone 5: Stettler, Vegreville and Vermillion. ▲ = Applied for Plant Breeder's Rights protection (PBR). ☉ = Protected by PBR (UPOV 91). CL = Clearfield variety. NR = not registered with CFIA. A = First year entries (2018). XX = Insufficient data to describe. <sup>1</sup>Yields are reported relative to CDC Maxim (CL). CDC Maxim belongs to Small Red Market Class. <sup>2</sup>Thousand Seed Weight. <sup>3</sup>Maturity: E = Early, M = Medium, L = Late, VL = Very Late. <sup>4</sup>Cotyledon Color: R = Red, Y = Yellow, G = Green; <sup>5</sup>Seed Coat Color/Patterns: G = Green, GR = Grey, BR = Brown, FG = French Green, T = Tan, MRB = Marbled. <sup>6</sup>Disease tolerance: VP = Very Poor, P = Poor, F = Fair, G = Good.



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Mannville, Alberta  
Scott cell: 780-581-5693  
Greg cell: 780-787-1246  
Email: scokon@gmail.com



## LENTILS

### CDC GREENSTAR

BI: CDC, DIST: N/A

Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

### CDC IMPOWER

BI: CDC, DIST: N/A

Quattro Ventures / Bow Island / (403) 545-2222

Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

### CDC IMPULSE ▲

BI: CDC, DIST: SeCan Members

Huvenaars, Carl / Hays / (403) 725-2213

Kiffiak, Nathan John & Anderson, Tim / Foremost / (403) 867-2338

Quattro Ventures / Bow Island / (403) 545-2222

### CDC LIMA

BI: CDC, DIST: SeCan Members

SeCan Association / Kanata / (613) 592-8600

### CDC MAXIM

BI: CDC, DIST: N/A

Catherwood, James / Calgary / (403) 836-9699

Richard, Gerald / Spirit River / (780) 864-2339

### CDC PROCLAIM ☺

BI: CDC, DIST: N/A

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

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

Sleepy Hollow Seeds Ltd. / Milk River / (403) 647-2228

Stamp Seeds / Enchant / (403) 739-2233

## MUSTARD

### AAC ADAGIO ▲

BI: AAFC (Saskatoon), DIST: N/A

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

### AC VULCAN

BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

### ANDANTE

BI: AAFC (Saskatoon), DIST: N/A

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

### CENTENNIAL

BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed

Mercer Seeds Ltd. / Lethbridge / (403) 327-9736

Nutrien Ag Solutions (Canada)/Proven Seed / High River / (403) 603-6011

### FORGE

BI: N/A, DIST: Nutrien Ag Solutions/Proven Seed

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# FIELD PEA – GREEN

Variety	Overall Yield	Overall Station Years of Testing	Area:										Agronomic Characteristics:			
			1		2		3		4		5		Vine			
			Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Maturity Rating <sup>1</sup>	Length (cm)	TSW <sup>2</sup> (g)	Standability <sup>3</sup> (1 - 9)
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Limerick)																
CDC Limerick (kg/ha)	4852		3571		4567		6160		4807		6061					
CDC Limerick	100	106	100	18	100	33	100	17	100	30	100	8	M	78	211	3
AAC Comfort ☺	100	30	104	6	98	9	104	5	98	7	98	3	M - L	78	253	3.3
CDC Forest ☺	109+	30	121+	6	109+	9	108	5	102	7	108+	3	M	81	236	2.2
CDC Spruce ☺	105+	30	104	6	107+	9	108+	5	99	7	108	3	M	81	254	2.3
LRP1424 NR	103	30	112	6	103	9	102	5	99	7	101	3	M	81	214	2.6
Previously tested varieties																
AAC Radius	92-	44	94	8	90-	10	88-	6	94-	16	88	4	M	76	217	3.6
AAC Royce	96-	40	106	8	92	8	92	6	98	14	87	4	M	67	247	4.1
CDC Greenwater	106+	42	106	8	109	10	105	6	106+	14	97	4	L	74	230	2.8
Varieties tested in 2013 - 2014 (Yield and agronomic data only directly comparable to CDC Patrick)																
CDC Patrick (kg/ha)	4732		5083		4543		5591		4305		5060					
CDC Patrick	100	109	100	16	100	34	100	12	100	32	100	14	M	79	186	4.4
CDC Pluto	96-	52	101	8	98	17	81-	5	100	16	87-	6	M	82	170	6
CDC Raezer	105	52	91	8	107	17	94	5	107	16	118	6	M	89	227	4.2
CDC Tetris	106	52	102	8	105	17	93	5	110+	16	116+	6	L	91	215	4.4
Varieties tested in 2004 - 2012 (Yield and agronomic data only directly comparable to Cooper)																
Cooper (kg/ha)	4724		4947		4316		5435		4835		4244					
Cooper ☺	100	121	100	18	100	34	100	14	100	36	100	19	L	76	270	3.6
CDC Sage	82-	31	79	3	80-	6	84-	6	84-	13	78	3	M	75	197	3.3
CDC Striker	96-	39	92	3	115	7	107	4	89-	21	92	4	M	72	255	3
Mendel	91-	38	75-	3	97	11	87-	4	91-	15	89	5	M	78	205	3.9
Remarks: CDC Tetris is an Espace type with blocky seed shape. All the green pea varieties listed in the table are Powdery Mildew resistant except CDC Striker that is susceptible. ▲ = Applied for Plant Breeder's Rights protection (PBR). ☺ = Protected by PBR (UPOV 78). ☹ = Protected by PBR (UPOV 91). NR = Variety not registered with CFIA. XX = Insufficient data to describe. <sup>1</sup> Maturity: E = Early, M = Medium, L = Late; <sup>2</sup> Thousand Seed Weight; g; <sup>3</sup> Standability: 1 = Erect, 9 = Flat; <sup>4</sup> Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good; <sup>5</sup> Seed Coat Dimpling; VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).																

**Remarks:** CDC Tetris is an Espace type with blocky seed shape. All the green pea varieties listed in the table are Powdery Mildew resistant except CDC Striker that is susceptible. ▲ = Applied for Plant Breeder's Rights protection (PBR). ☺ = Protected by PBR (UPOV 78). ☹ = Protected by PBR (UPOV 91). NR = Variety not registered with CFIA. XX = Insufficient data to describe. \*Maturity: E = Early, M = Medium, L = Late; \*Thousand Seed Weight: g; \*Standability: 1 = Erect, 9 = Flat; \*Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good; \*Seed Coat Dimpling: VG = Very Good (0 - 5%), G = Good (6 - 20%), F = Fair (21 - 50%).

## PEAS - FORAGE

### CDC HORIZON

**BI: CDC, DIST: Mastin Seeds**

Foster, Norman R. / Beaverlodge / (780) 354-2107  
Hadland, Edward / Baldonnel / (250) 793-9746  
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617

### CDC LEROY

**BI: CDC, DIST: N/A**

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900

### DL DELICIOUS

**BI: DL Seeds, DIST: FP Genetics**

Quattro Ventures Inc. / Bow Island / (403) 545-2222

## PEAS - GREEN

### AAC COMFORT ▲

**BI: AAFC, DIST: Canterra Seeds**

Huvenaars, Carl / Hays / (403) 725-2213  
Lindholm Seed Farm / New Norway / (780) 352-3240

### BLUEMAN

**BI: DL Seeds, DIST: SeedNet Inc.**

Stamp Seeds / Enchant / (403) 739-2233  
Wheatcrest Farms / Lomond / (403) 792-3696

### CDC DAKOTA

**BI: CDC, DIST: N/A**

Klempnauer, Joerg / Vauxhall / (403) 330-5480

### CDC FOREST ▲

**BI: CDC, DIST: SeCan Members**

Hoff, Peter Edward / Gleichen / (403) 734-2140  
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535

### CDC GREENWATER

**BI: CDC, DIST: Saskatchewan Pulse Growers**

Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036  
Solick Seeds Ltd. / Halkirk / (403) 884-2358  
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434

### CDC LIMERICK

**BI: CDC, DIST: Saskatchewan Pulse Growers**

Archer, Nathan / Didsbury / (403) 556-0693  
Ellis, Brian / Olds / (403) 556-2890  
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036  
Hallett, Dale R. & Richard / Carstairs / (403) 337-3072  
Lindholm Seed Farm / New Norway / (780) 352-3240  
Sekulic, John Jr. / Rycroft / (780) 765-2280  
Sendziak Seed Farm / Edmonton / (780) 434-1322  
Shultz, Shawn / Didsbury / (403) 335-3694  
Thompson, M. Ellwood & Kelly / Red Deer County / (403) 728-3535  
Warkentin, Harold K. & Errol / Beaver County / (780) 662-2617

### CDC RAEZER

**BI: CDC, DIST: N/A**

Baier, Bill & Dean / Clyde / (780) 348-5791  
Kapitski, Lawrence / Andrew / (780) 365-2134  
Krywko, Ronald / Sturgeon County / (780) 939-1719  
Shultz, Shawn / Didsbury / (403) 335-3694

### CDC SPRUCE ☺

**BI: CDC, DIST: SeCan Members**

Baier, Bill & Dean / Clyde / (780) 348-5791  
Dewindt, Harry & Hoyme, Renee / Thorhild / (780) 398-2377

### CDC STRIKER

**BI: CDC, DIST: N/A**

Sim, Darwin & Derek / Ponoka / (780) 372-2111

### COOPER ☺

**BI: Innoseeds, DIST: Canterra Seeds**

Cyre, Clifford & Greg / Barrhead / (780) 307-4332

### GARDE

**BI: N/A, DIST: Bob Park**

Hegland, David Olaf / Wembley / (780) 766-2450  
Lohner, Kevin / Daysland / (780) 679-6309



## FIELD PEA – GREEN — CONT.

Variety	Disease Tolerance: <sup>4</sup>				
	Mycos- phae-rella Blight	Fusar- ium Wilt	Bleaching	Seed Coat Break- age	Seed Coat Dimpling <sup>5</sup>
<b>Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Limerick)</b>					
<b>CDC Limerick (kg/ha)</b>					
<b>CDC Limerick</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>VG</b>	<b>G</b>
AAC Comfort ☺	F	F	G	XX	F
CDC Forest ☺	F	F	G	G	G
CDC Spruce ☺	F	F	G	G	F
LRP1424 NR	F	F	G	G	G
<b>Previously tested varieties</b>					
AAC Radius	F	F	G	G	G
AAC Royce	F	F	G	F	F
CDC Greenwater	F	G	G	F	F
<b>Varieties tested in 2013 - 2014 (Yield and agronomic data only directly comparable to CDC Patrick)</b>					
<b>CDC Patrick (kg/ha)</b>					
<b>CDC Patrick</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>
CDC Pluto	F	F	G	G	G
CDC Raezer	F	G	G	G	G
CDC Tetris	F	G	G	G	G
<b>Varieties tested in 2004 - 2012 (Yield and agronomic data only directly comparable to Cooper)</b>					
<b>Cooper (kg/ha)</b>					
<b>Cooper ☺</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>F</b>	<b>G</b>
CDC Sage	F	G	G	VG	G
CDC Striker	F	G	G	G	G
Mendel	F	F	G	F	G



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**CPS Wheat:** AAC Ryley

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# FIELD PEA – YELLOW

Variety	Overall Yield	Overall Station Years of Test- ing	Area:										Agronomic Characteristics:			
			1		2		3		4		5		Mat. Rating <sup>1</sup>	Vine Length (cm)	TSW <sup>2</sup> (g)	Stand- ability <sup>3</sup> (1 - 9)
			Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years				
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Amarillo)																
CDC Amarillo (kg/ha)	5277		3842		4674		6866		5394		6471					
CDC Amarillo	100	106	100	18	100	30	100	17	100	25	100	16	M	81	227	2.4
AAC Barrhead ☼	99	43	96	7	96	10	98	8	103	11	98	7	E	82	233	2.5
AAC Carver ☺	105+	43	105	7	103	10	104	8	108+	11	103	7	E	84	243	2.9
AAC Chrome ▲	110+	29	116+	5	110+	8	108	5	108	6	105	5	M - L	72	240	2.9
AAC Lacombe ☼	104+	76	106+	13	101	23	106+	10	105+	20	102	10	M	76	258	2.2
CDC Athabasca ☺	95-	29	92	5	94	8	99	5	95	6	91-	5	M	80	284	2
CDC Canary ☺	104	29	106	5	104	8	98	5	101	6	101	5	E	80	241	2.6
CDC Inca ☺	104	43	101	7	97	10	110+	8	103	12	101	6	M	79	231	2.1
CDC Lewochko (A) ▲	106	15	102	2	98	4	104	3	100	3	105	3	M	89	233	1.6
CDC Meadow	97-	92	98	15	100	26	90-	13	96-	25	94-	13	M	81	205	3.6
CDC Spectrum ☺	106+	29	103	5	99	8	106+	5	100	6	109+	5	M	78	242	2.1
Previously tested varieties																
AAC Peace River	92-	49	89-	8	94	15	90	5	97	16	82	5	VE	68	217	3.8
Abarth ☺	98-	49	101	8	104	16	83-	5	94	14	102	6	M	77	249	3.6
LN4228 ☺	93-	45	90-	8	94	11	89	7	95	14	97	5	M	69	254	2.1
Varieties tested in 2012 - 2014 (Yield and agronomic data only directly compared to CDC Meadow)																
CDC Meadow (kg/ha)	4982		3793		4567		6266		5189		5175					
CDC Meadow	100		100		100		100		100		100		M	81	207	3.6
CDC Saffron	103	47	110	8	104	15	99	5	101	13	99	6	M	84	236	4.3
Hugo ☼	93-	47	104	7	92	13	92	6	96	14	75-	7	M	73	210	5.2
Stella ☼ NR F	80-	45	75-	7	81-	13	83-	6	80-	12	80-	7	M	95	213	3.9
Varieties tested in 2003 - 2011 (Yield and agronomic data only directly comparable to Cutlass)																
Cutlass (kg/ha)	4485		3388		4267		5111		4816		3718					
Cutlass †	100		100		100		100		100		100		M	71	228	4.1
Agassiz ☼	103	43	99	5	102	8	100	6	104	19	106	5	M	77	237	2.9
CDC Hornet	107+	43	99	6	111+	11	106+	6	102	13	119	7	M	89	215	3.7
CDC Prosper	97-	44	90	4	98	9	93-	6	99	18	97	7	E	73	150	3.9
CDC Treasure	100	44	96	4	104	9	96	6	100	18	105	7	E	80	217	3.4
Thunderbird	97	37	88	5	99	8	98	6	98	13	102	5	M	76	229	2.1
Varieties tested in 2000 - 2005 (Yield and agronomic data only directly comparable to Carrera)																
Carrera (kg/ha)	4126		2913		2779		5248		4681		4016					
Carrera	100		100		100		100		100		100		E	54	257	4.7
CDC Golden	105	36	99	5	109	12	99	7	105	11	XX	XX	M	70	223	3.5

**Remarks:** Stella is a silage type pea. All the yellow pea varieties listed in the table are Powdery Mildew resistant except Carrera that is susceptible. ▲ = Applied for Plant Breeder's Rights protection (PBR). ☼ = Protected by PBR (UPOV 78). ☼ = Protected by PBR (UPOV 91). A = First year entries (2018). NR = Variety not registered with CFIA. F = Forage type. XX = Insufficient data to describe. LGPN 4903 removed from the table. <sup>1</sup>Maturity: E = early, M = medium, L = Late; <sup>2</sup>Thousand Seed Weight: g; <sup>3</sup>Standability: 1 = erect, 9 = flat; <sup>4</sup>Tolerance to: P = poor, F = fair, G = good, VG = very good; <sup>5</sup>Seed Coat Dimpling: VG = very good (0 - 5%), G = good (6 - 20%), F = fair (21 - 50%); <sup>6</sup>Green Seed Coat: G = good (0 - 10%), F = fair (11 - 25%).



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## FIELD PEA – YELLOW — *CONT.*

Disease Tolerance:<sup>4</sup>

Variety	Mycosphaerella Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling <sup>5</sup>	Green Seed Coat <sup>6</sup>
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to CDC Amarillo)					
<b>CDC Amarillo (kg/ha)</b>					
<b>CDC Amarillo</b>	<b>F</b>	<b>G</b>	<b>F</b>	<b>F</b>	<b>G</b>
AAC Barrhead	F	F	G	G	XX
AAC Carver	F	F	G	G	G
AAC Chrome	F	P	G	F	G
AAC Lacombe	F	P	G	F	G
CDC Athabasca	F	F	F	F	G
CDC Canary	F	F	G	F	G
CDC Inca	F	F	G	G	F
CDC Lewochko (A)	F	F	G	G	G
CDC Meadow	F	F	G	G	G
CDC Spectrum	F	F	G	G	F
Previously tested varieties					
AAC Peace River	F	F	F	G	G
Abarth	F	F	F	G	G
LN4228	F	F	F	F	G
Varieties tested in 2012 - 2014 (Yield and agronomic data only directly comparable to CDC Meadow)					
<b>CDC Meadow (kg/ha)</b>					
<b>CDC Meadow</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>G</b>
CDC Saffron	F	F	G	F	G
Hugo	F	F	G	F	F
Stella NR F	F	F	G	G	F
Varieties tested in 2003 - 2011 (Yield and agronomic data only directly comparable to Cutlass)					
<b>Cutlass (kg/ha)</b>					
<b>Cutlass †</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>G</b>
Agassiz	F	F	G	VG	G
CDC Hornet	F	F	F	F	G
CDC Prosper	F	G	G	F	G
CDC Treasure	F	F	G	F	F
Thunderbird	F	F	G	VG	XX
Varieties tested in 2000 - 2005 (Yield and agronomic data only directly comparable to Carrera)					
<b>Carrera (kg/ha)</b>					
<b>Carrera</b>	<b>P</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>XX</b>
CDC Golden	F	F	G	G	G

## PEAS - MAPLE

S F R C

### AAC LISCARD

BI: AAFC (Lacombe), DIST: N/A

Stamp Seeds / Enchant / (403) 739-2233

### CDC BLAZER

BI: CDC, DIST: SeCan Members

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CWRS: AAC Redwater, AAC Connery, Parata

### PEAS

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Yellow: AAC Lacombe

### BARLEY

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CDC Austenson, CDC Maverick, Sundre

Malt: CDC Copeland

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## PEAS - YELLOW

## AAC ARDILL

## BI: AAFC (Lacombe), DIST: N/A

Hartzler, Leonard / Carstairs / (403) 337-2416  
 Penwest Seeds / Three Hills / (403) 443-2577  
 Sand, Ron W. & David R. / McLaughlin / (780) 745-2251

## AAC BARRHEAD ☼

## BI: AAFC (Lacombe), DIST: N/A

Hadland, Edward / Baldonnel / (250) 793-9746  
 Konieczny, Scott / Mannville / (780) 581-5693  
 Meinczinger, Matthew Jr. / Busby / (780) 349-2456  
 Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713

## AAC CARVER ☼

## BI: AAFC, DIST: Canterra Seeds

Berge, James Garnet / Dawson Creek / (250) 759-4773  
 Boisvert, Marc / Girouxville / (780) 618-4724  
 Canterra Seeds Ltd. / Winnipeg / (204) 988-9750  
 Ellis, Brian / Olds / (403) 556-2890  
 Fairview Seed Cleaning Co-op / Fairview / (780) 835-2478  
 Goode, Tim / Lacombe / (403) 506-9424  
 Haney Farms Ltd. / Picture Butte / (403) 738-4517  
 Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268  
 Jonk, Nicholas / Westlock / (780) 349-5458  
 Kapitski, Lawrence / Andrew / (780) 365-2134  
 King, Harold & Webb, David Gordon / Three Hills / (403) 443-3333  
 Penwest Seeds / Three Hills / (403) 443-2577  
 Plante, Jacques / St. Paul / (780) 645-4604  
 Richards, Dan / Sexsmith / (780) 766-2266  
 Rix, Graham / Wetaskiwin / (780) 360-9234  
 Sekulic, Nick / Rycroft / (780) 814-2849  
 Solick Seeds Ltd. / Halkirk / (403) 884-2358  
 True Seeds Ltd. / Redwater / (780) 777-5885  
 Unrau, George / La Crete / (780) 928-0096  
 Wuthrich, David / Cecil Lake / (250) 781-3527

## AAC CHROME ▲

## BI: AAFC (Lacombe), DIST: FP Genetics

Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
 Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036  
 Harbin, Clifford Thomas & Bruce Clifford / Rivercourse / (780) 745-2268  
 King, Harold & Webb, David Gordon / Three Hills / (403) 443-3333  
 Quattro Ventures Inc. / Bow Island / (403) 545-2222  
 Sim, Darwin & Derek / Ponoka / (780) 372-2111  
 Stamp Seeds / Enchant / (403) 739-2233

## AAC DELHI

## BI: AAFC (Lacombe), DIST: N/A

Specialty Seeds Ltd. / Bow Island / (403) 545-6018  
 Stamp Seeds / Enchant / (403) 739-2233

## AAC LACOMBE ☼

## BI: AAFC, DIST: SeedNet Inc.

Alect Seeds / Three Hills / (403) 443-9599  
 Benci, Dennis / Carmangay / (403) 643-2294  
 Dewindt, Harry & Hoyme, Renee / Thorhild / (780) 398-2377  
 Dyck, Ernie / La Crete / (780) 821-9445  
 Ellis, Brian / Olds / (403) 556-2890  
 Forward Seed Farm / County of Barrhead / (780) 674-3822  
 Huvenaars, Carl / Hays / (403) 725-2213  
 Jonk, Nicholas / Westlock / (780) 349-5458  
 Macyk, Tim / Radway / (780) 699-4073  
 Mercer Seeds Ltd. / Lethbridge / (403) 327-9736  
 Moffitt, Kenneth & Raymond / Radway / (780) 818-6550  
 Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-6713  
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 Stamp Seeds / Enchant / (403) 739-2233  
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## AAC PEACE RIVER

## BI: AAFC, DIST: FP Genetics

Hadland, Edward / Baldonnel / (250) 793-9746  
 Mastin, Robert B. / Sundre / (403) 556-2609  
 Richard, Gerald / Spirit River / (780) 864-2339

## ABARTH ☼

## BI: Limagrain, DIST: FP Genetics

Quattro Ventures / Bow Island / (403) 545-2222

## CDC AMARILLO

## BI: CDC, DIST: Saskatchewan Pulse Growers

Alect Seeds / Three Hills / (403) 443-9599  
 Bell, D. Leslie / Drumheller / (403) 823-9462  
 Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456  
 Degenhardt, Keith L. / Terry Lee & Kerry / Hughenden / (780) 856-2383  
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 Sand, Ron W. & David R. / McLaughlin / (780) 745-2251  
 Sendziak Seed Farm / Edmonton / (780) 434-1322  
 Shaw, Tom / Country of Grande Prairie No.1 / (780) 882-7766  
 Solick Seeds Ltd. / Halkirk / (403) 884-2358  
 True Seeds Ltd. / Redwater / (780) 777-5885

## CDC ATHABASCA ☼

## BI: CDC, DIST: SeCan Members

Harris, William P. Linda, Thomas & Alexander / Beaverlodge / (780) 354-2823

## CDC CANARY ▲

## BI: CDC, DIST: SeCan Members

Degenhardt, Keith L. / Terry Lee & Kerry / Hughenden / (780) 856-2383  
 Kittle, James William & Andrew / Viking / (780) 336-2583  
 Pare, Raymond A. / Wainwright / (780) 842-2073

## CDC INCA ☼

## BI: CDC, DIST: N/A

Benci, Dennis / Carmangay / (403) 643-2294  
 Chin Ridge Seeds Ltd. / Taber / (403) 223-3900  
 Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-6333  
 Dewindt, Harry & Hoyme, Renee / Thorhild / (780) 398-2377  
 Eliason, Bruce W. / Wrentham / (403) 222-2258  
 Hoff, Peter Edward / Gleichen / (403) 734-2140  
 Hoffmann, Curtis / Oyen / (403) 664-9617  
 Holmstrom, Darrell / Killam / (780) 385-3574  
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<b>BI: Monsanto Canada ULC., Dist: DEKALB Canada</b>				
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# SOYBEANS

Variety	Overall Yield	Overall Station years of Testing	Irrigation:		Area 5		Agronomic Characteristics:					
			Yield (%)	Site Years	Yield (%)	Site Years	Days to Flowering	Pod Clearance² (cm)	Plant Height (cm)	Relative Days to Maturity³	TSW⁴ (g)	Seeds per Pound
Varieties tested in the 2018 trials (Yield and agronomic data only directly comparable to McLeod)												
McLeod (kg ha-1)	3305		3602		2432							
McLeod	100	28	100	23	100	2	55	6	63	123	159	2855
22-60	100	17	100	16	101	1	53	4	52	0	147	3088
Akras	109	28	112+	23	89	2	57	9	63	2	147	3088
CBZ916A2 (A)	92	5	93	4	86	1	56	4	57	-3	153	2967
CFS18.01 (A)	90	5	93	4	75	1	56	4	58	0	147	3088
CFS18.02 (A)	98	5	100	4	91	1	56	3	57	-3	154	2948
CFS18.06 (A)	89	5	93	4	74	1	56	4	70	4	149	3047
CFS18.07 (A)	94	5	92	4	100	1	54	3	57	-5	141	3220
Dario	88-	9	89	8	79	1	53	4	53	-4	138	3290
Dayo (A)	74-	5	76-	4	68	1	57	2	41	-6	140	3243
DKB0005-44 (A)	90	5	91	4	87	1	57	4	54	-4	145	3131
DKB009-89 (A)	97	5	96	4	99	1	56	3	58	-2	164	2768
Nocoma	90-	9	90-	8	85	1	54	6	55	-6	162	2802
NSC Leroy	83-	9	84-	8	79	1	54	4	53	-11	150	3027
NSC Melfort (A)	93	5	94	4	88	1	53	3	57	-5	120	3783
NSC Newton	88-	9	90-	8	67	1	55	5	61	1	158	2873
NSC Redvers (A)	89-	5	93	4	72	1	56	3	57	0	133	3414
NSC Watson	91-	13	90-	12	103	1	53	4	51	-11	156	2910
S0007-B7X (A)	82-	5	81-	4	86	1	55	2	52	-9	138	3290
S0009 - D6	87-	9	87-	8	88	1	53	4	51	-9	132	3439
S0009 - M2	97	17	98	16	82	1	52	5	56	-10	151	3007
S003	103	13	103	12	105	1	53	5	55	-7	174	2609
S006-M4X (A)	98	5	99	4	93	1	55	3	57	0	123	3691
S006-W5	108+	13	109+	12	95	1	52	4	54	-5	133	3414
S007	108+	17	108+	16	116	1	52	5	58		150	3027
S008	107+	9	108+	8	98	1	53	5	59	1	166	2735
TH33003	102	24	101	19	113	2	52	6	68		140	3243
TH87000 (A)	85-	5	84-	4	90	1	53	3	54	-6	122	3721
TH890005 (A)	87-	5	89-	4	82	1	57	3	51	-6	143	3175
Torro	91-	13	90-	12	97	1	52	5	64	-4	149	3047
Previously tested varieties (Yield and agronomic data only directly comparable to McLeod)												
900Y61 🌱	XX	XX	90-	11	XX	XX	54	7	56	1	150	3024
NSC Moosomin	XX	XX	78-	11	XX	XX	53	6	49	-4	138	3287
NSC Reston	XX	XX	103	11	XX	XX	54	8	61	-2	128	3544
NSC Vito	XX	XX	89-	11	XX	XX	53	7	71	0	132	3436
P001T34 🌱	XX	XX	65-	11	XX	XX	53	5	46	-9	136	3335
Pekko	XX	XX	102	11	XX	XX	57	9	65	0	130	3489

**Remarks:** Straight combining is commonly used method of harvest. Swathing soybean can result in excessive field losses (up to 25%) due to shattering. Approximately four beans or one to two pods per square foot represent a yield loss of one bushel per acre. New names: Mani (CFS17.1.04); NSC Newton (NSC Belmont); Nocoma (CFS17.1.03). Varieties removed from the table: Dylano; DKB0008-39; DKB003-29; Lono; Marduk; NSC Star City; S001; TH37004; TH87003 and TH88005. Four trials: Bow Island, Brooks Lethbridge and Medicine Hat were grown under irrigation. And one dry land site in Stettler, Area 5. A - first year entries (2018). <sup>1</sup>Yields are reported relative to McLeod, yields that are statistically higher (+) or lower (-) than the check are indicated. <sup>2</sup>Distance from the ground level to lowest pod tip. <sup>3</sup>Maturity is reported as +/- days relative to McLeod - averaged across the Brooks, Bow Island and Medicine Hat trials. <sup>4</sup>TSW: Thousand Seed Weight.





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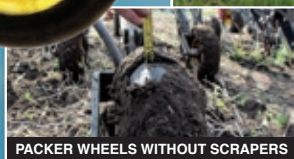


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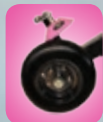


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solickseeds@syban.net / 69

### Lethbridge

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rmercerc@mercerseeds.ca / 104

### Lomond

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doug@wheatcrest.com / 89

### Manville

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scokon@gmail.com / 106

### New Norway

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lindholmseed@xplornet.com / 99

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john@phoenixfarms.ca / 78

### Olds

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briannellisseed@gmail.com / 43 & 59

### Oyen

Sounding Creek Seeds / 403.664.9617 /  
soundingcreekseeds@gmail.com / 91

### Picture Butte

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shaney@realagriculture.com / 68

### Red Deer County

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kempfarmsltd@gmail.com / 92

Thompson Family Seed Farms /  
403.728.3535 / 86

### Redwater

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sales@trueseeds.ca / 58

### Rivercourse

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### Stettler

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### Sturgeon County

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### Taber

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kelly@chinridge.com / 110

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### Three Hills

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sarahweigum@gmail.com / 88

King's Seed Farm Ltd. / 403.443.7330 /  
kingsseedfarm@gmail.com / 106

Mueller Farms / 403.820.4115 /  
pricing@muellerfarms.ca / 75

Penwest Seeds / 403. 443.2577 /  
tanya@penwestcanada.ca / 109

### Viking

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andrewkittle@hotmail.com / 61

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

Markert Seeds Ltd. / 403.485.6708 /  
rmarkert@markertseeds.com / 97

### Westlock

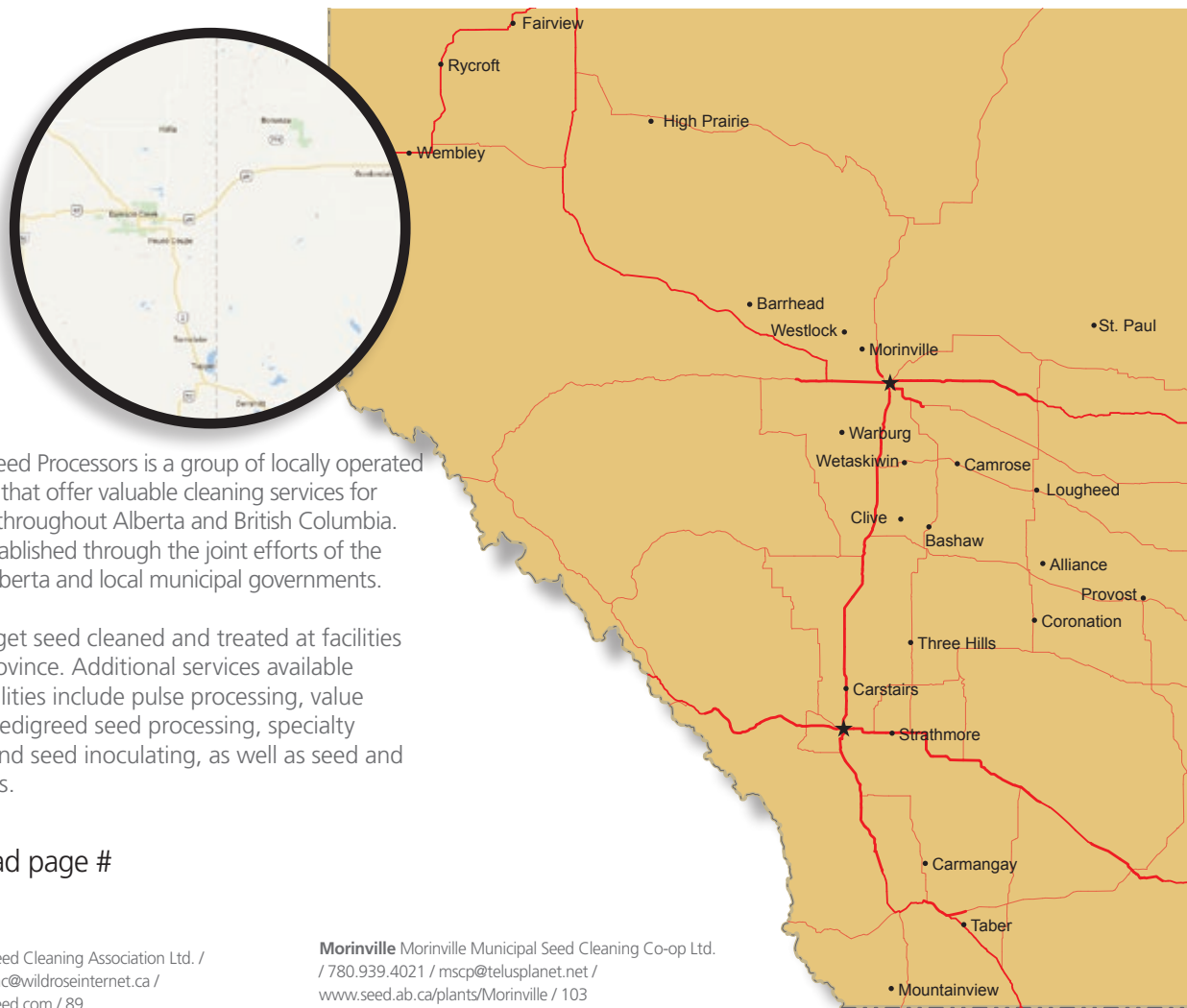
Cyre Seed Farms / 780.349.2516 /  
gcyre@xplornet.com / 80

### Wrentham

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

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

### Location / ad page #

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**Barrhead** Barrhead District Seed Cleaning Co-op Ltd. / 780.674.2569 / [barrseed@telus.net](mailto:barrseed@telus.net) / 89

**Bashaw** Bashaw Seed Cleaning Co-op Association Ltd. / 780.372.3868 / [bashawsc@xplornet.com](mailto:bashawsc@xplornet.com) / [www.bashawseeds.com](http://www.bashawseeds.com) / 95

**Camrose** Camrose County Seed Cleaning Plant / 780.672.2371 / [mvanpetter@county.camrose.ab.ca](mailto:mvanpetter@county.camrose.ab.ca) / 71

**Carmangay** Carmangay Seed Cleaning Plant Association Ltd. / 403.643.3656 / [carseed@wildroseinternet.ca](mailto:carseed@wildroseinternet.ca) / 107

**Carstairs** Mountain View Seed Cleaning Plant Ltd. / 403.337.3155 / [mvsclpl@hotmail.com](mailto:mvsclpl@hotmail.com) / [www.seed.ab.ca/plants/MountainView](http://www.seed.ab.ca/plants/MountainView) / 107

**Clive** Clive Seed Cleaning Co-op Ltd. / 403.784.3777 / [cliveseed@platinum.ca](mailto:cliveseed@platinum.ca) / 97

**Coronation** Coronation Seed Cleaning Co-op Ltd. / 403.578.3810 / [coroseed@xplornet.com](mailto:coroseed@xplornet.com) / [www.coronationseedplant.com](http://www.coronationseedplant.com) / 69

**Fairview** Fairview Co-op Seed Cleaning Plant Ltd. / 780.835.2478 / [fcseedplant@gmail.com](mailto:fcseedplant@gmail.com) / 60

**Loughheed** Loughheed Co-op Seed Cleaning Plant Ltd. / 780.386.3771 / [lscpl@xplornet.com](mailto:lscpl@xplornet.com) / [www.loughheedprocessing.ca](http://www.loughheedprocessing.ca) / 68, 113

**Mountain View County** Mountain View Seed Cleaning Plant / 403.337.3155 / 107

**Morinville** Morinville Municipal Seed Cleaning Co-op Ltd. / 780.939.4021 / [mscp@telusplanet.net](mailto:mscp@telusplanet.net) / [www.seed.ab.ca/plants/Morinville](http://www.seed.ab.ca/plants/Morinville) / 103

**Provost** Provost Co-op Seed Cleaning Plant / 780.753.2657 / [proseed@xplornet.com](mailto:proseed@xplornet.com) / 101

**Rycroft** Central Peace Seed Cleaning Association / 780.765.3821 / [cpsca@abnorth.com](mailto:cpsca@abnorth.com) / [www.seed.ab.ca/plants/Rycroft](http://www.seed.ab.ca/plants/Rycroft) / 92

**St. Paul** St. Paul Municipal Seed Cleaning Association Ltd. / 780.645.3939 / [ron.wirsta@stpaulseedcleaning.com](mailto:ron.wirsta@stpaulseedcleaning.com) / [www.stpaulseedcleaning.com](http://www.stpaulseedcleaning.com) / 73

**Strathmore** Strathmore Seed Cleaning / 403.934.3421 / [admin@strathmoreseed.ca](mailto:admin@strathmoreseed.ca) / [www.strathmoreseed.ca](http://www.strathmoreseed.ca) / 82

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**Westlock** Westlock Seed Cleaning Co-op / 780.349.3944 / [wscpl@telus.net](mailto:wscpl@telus.net) / [westlockseed.ca](http://westlockseed.ca) / 11

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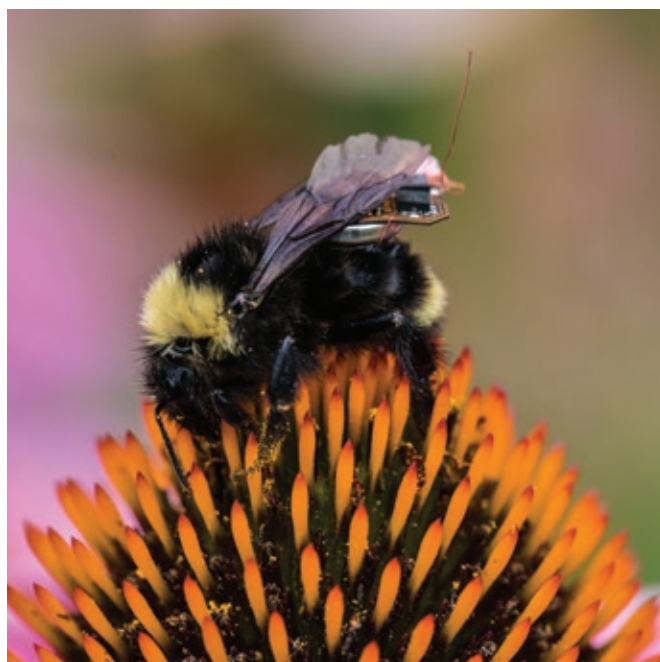
### Scientists Develop New 'Climate Proof' Crops with Help of Nuclear Technology

To help protect crop-based food sources, a group of plant breeders, plant physiologists, agronomists and plant biotechnologists and experts from the International Atomic Energy Agency (IAEA), in cooperation with the Food and Agriculture Organization of the United Nations (FAO), teamed up to develop new "climate proof" crop varieties through a five-year IAEA coordinated research project.

The team began by studying how rice and common bean plants react to normal and aberrant — meaning any climate condition to which a variety of crop is not normally adapted to — climate conditions, and identifying genes related to heat tolerance and higher yields. With this information, they targeted plants with desired traits and bred for these traits using irradiation to speed up the natural process of mutation in plants. This breeding process increases diversity of plants' traits, allowing scientists to more quickly test and select plants with the desired characteristics. The result was a series of 'climate proof' rice and common bean plants that can tolerate high temperature conditions better while producing higher yields compared to local varieties.

### It's Like GoPro with the Bees!

Researchers at the University of Washington created a sensor package that is small enough to ride aboard a bumblebee. Because insects can fly on their own, the package requires only a tiny rechargeable battery that could last for seven hours of flight and then charge while the bees are in their hive at night. "Drones can fly for maybe 10 or 20 minutes before they need to charge again, whereas our bees can collect data for hours," said senior author Shyam Gollakota, an associate professor in the UW's Paul G. Allen School of Computer Science and Engineering. "We showed for the first time that it's possible to actually do all this computation and sensing using insects in lieu of drones."



After the bees have finished their day of foraging, they return to their hive where the backpack can upload any data it collected via a method called backscatter, through which a device can share information by reflecting radio waves transmitted from a nearby antenna.

### A 'Bran' New Way to Preserve Healthy Food

A natural antioxidant found in grain bran could preserve food longer and replace synthetic antioxidants currently used by the food industry, according to researchers at Penn State. "Currently, there's a big push within the food industry to replace synthetic ingredients with natural alternatives, and this is being driven by consumers," says Andrew S. Elder, doctoral candidate in food science. "Consumers want clean labels — they want synthetic chemical-sounding ingredients removed because of the fact that they don't recognize them, and that some of them (the ingredients) have purported toxicity." The Penn State researchers studied a class of compounds called alkylresorcinols (AR). Plants such as wheat, rye and barley produce ARs naturally to prevent mold, bacteria and other organisms from growing on the grain kernels. The researchers wondered if ARs could also preserve food in the same way from a chemical standpoint. "Bran is often a waste stream," said Elder. "We're taking something that's usually discarded in a waste stream and turning it into something useful."



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