

# Alberta Seed Guide

ADVANCING SEED IN ALBERTA

SPRING 2016

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**5 Questions**  
with Canada's  
**New Ag**  
**Minister**

**Unlocking**  
**CANOLA'S**  
**Genetic Secrets**

**GETTING PRECISE**  
with **PRECISION**  
**SEEDING**

**Bill C-18**  
*How Will it Affect*  
*Your Farm?*

**Where**  
**New Varieties**  
**Come From**

**NEW PESTS ON**  
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up on your farm and globally.



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**ON THE COVER:** The Spring 2016 issue of the *Alberta Seed Guide* looks at seed from the ground-up on your farm and globally. On page 4 we look at the process from which seeds result — plant breeding. On page 12 we shed some light on canola and what sequencing its genome means for the future of the crop. We also look at new seeding techniques and how they work, and what they mean for you and your farm. There's a lot more to discover as well, including the latest on Bill C-18 and how it might affect you now that it's law. Enjoy, and be sure to let us know what you think — visit [seed.ab.ca](http://seed.ab.ca) and use the handy contact form to reach us.





MINISTER CARLIER

**AS** Minister of Agriculture and Forestry, it is my pleasure to extend greetings to the readers of the *Alberta Seed Guide* for the 2016 spring edition.

This guide is an important resource, providing a wealth of information for our producers to help them stay connected and up-to-date on the latest developments in crop science and agricultural practices.

Our government recognizes the importance of agriculture to our rural communities and a strong and diversified provincial economy. We will continue to invest in strategic programs that position the agriculture sector and rural Alberta for responsible and sustainable growth. The long-term success of the industry relies on our ongoing commitment to research and innovation, improved market access, value-added industry development and environmental stewardship.

Our government envisions a province that is the best place in the country to start a new business and to get a new idea off the ground. We will be a good partner to this province's job creators, entrepreneurs and visionaries.

Thank you to the Alberta Seed Processors and Alberta Seed Growers' Association for their continued work on behalf of the agriculture industry. Best wishes for the continued success of our producers.

**Oneil Carlier**  
Minister

# Alberta Seed Guide

Spring 2016



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DAVID BISHOP



GLENN LOGAN

**GREETINGS** from the 67 member plants of the Alberta Seed Processors.

How the wheels of the seed industry turn is the theme of this edition, and it raises a lot of questions: Who makes the wheels turn? And what direction and speed are those wheels moving?

Canada is a net exporter of agricultural goods because somewhere in the world, there is a need for our products. Breaking this down in steps and processes can be a daunting task, but it really shows just how interdependent we are upon each other in the ag industry.

Here in Canada, the urban voting public and the grain transportation system are examples of outside factors having major influence on our Industry. Globally, currency stability, embargos, MRLs and phytosanitary rules are just a few of the factors that affect us.

Historically, the direction and speed of Canadian agriculture has sometimes slowed down and has occasionally got off course in one way or another, but has never completely stopped — and nor has it totally crashed. Currently, our industry is thriving, with lots of innovation and opportunity.

Soon it will be time to turn the wheels on a new crop. The main ingredient for success is starting with high-quality seed that has been tested by an accredited lab, and cleaned to the highest standard by a licensed facility like all of the 67 seed plant co-ops in Alberta.

Best wishes for a safe and successful crop year.

**David Bishop**  
**President**

Alberta Seed Processors  
Email: bisdvd@aol.com

**WHAT** you sow, so shall you reap.

It's a very old saying, but is the reason you're probably reading the spring issue of the *Alberta Seed Guide*. We have once again compiled information from the Alberta Regional Variety Trials to help you select the best seed varieties for your farm.

This magazine will help provide you with important information on the latest varieties. It all starts with the seed and choosing Certified seed ensures you are getting the true genetic potential of that particular variety.

Seed is the foundation of your farm that everything else rests on, and it's why the theme of this spring edition is How the Wheels Turn. We look at seed on your farm and globally, how it gets there, and what you need to know once you purchase it.

From plant breeding and how it works, to important new pests you should be on the lookout for, to crucial new policy that comes in the form of the Agricultural Growth Act, and also an interview with our new federal agriculture minister, this issue looks at many aspects of seed and the processes that create it and directly affect its performance once you put it into the soil.

Visit [seed.ab.ca](http://seed.ab.ca) and use the contact form to let us know what you think of this issue, and best wishes for a successful planting season.

**Glenn Logan**  
**President**

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# Seeds of the Future

Plant breeding matters, and a robust regulatory framework is needed to make it happen. This is how those two processes work together to ensure success.

**THE** value of the global seed industry is increasing. In 2011, the commercial global seed market was estimated at US\$45 billion. According to Markets and Markets, the global seed market will be worth US\$85.2 billion by the year 2018.

While the United States leads the global seed trade, Canada's contribution to the development and registration of new varieties is significant, and the seed industry is a significant driver of the Canadian economy. According to the Canadian Seed Trade Association, the Canadian seed industry contributes \$1.6 billion annually in domestic seed sales, and over \$300 million annually in export seed sales.

Agriculture and Agri-Food Canada (AAFC) estimates the Canadian seed industry's total economic impact at \$5.61 billion. In 2012/2013, Canadian seed exports were valued at roughly \$450 million.

Innovation — the development of new varieties — is key to the continued growth of Canada's seed sector. But just how do new varieties get from the lab to farmers' fields and beyond?

## Variety Development

In Canada, research, variety development and plant breeding are all performed within both public and private institutions.

Dean Spaner, professor in the Agricultural, Food & Nutritional Science department at the University of Alberta, has been developing new wheat varieties for a decade.

Spaner and his research group developed BW947, Coleman and PT769, three high-yielding Canada Western Red Spring (CWRS) wheat lines with resistance to stripe rust.

He says the process of breeding a new variety starts with a solid understanding of breeding priorities. "You have an objec-

tive, and then you figure out which parent lines might have qualities you want," he says. "Say you want to breed for stripe rust resistance. You find a line that has stripe rust resistance, and then you cross it with a well-adapted plant. So you cross two lines: one confers resistance and one has another quality you want."

Plant breeding always involves the creation of new genotypes, or genetic combinations, from which breeders select the most superior combinations — usually combining multiple desired qualities, such as disease resistance as well as desirable agronomic qualities.

This process used to be slow; with the adoption of genomic sequencing, plant breeders have been able to speed up the process by identifying regions of plant genomes responsible for desired traits.

In Spaner's program, once a variety has been backcrossed five or six times to strengthen desired qualities, the seed is multiplied and then grown in replicated trials in multiple locations to test its performance.

"Then we grow it again in seven environments all over Western Canada and then they're sent to registration trials, which take three years," says Spaner. Three Canadian Food Inspection Agency (CFIA) committees — dealing with quality, disease and agronomy — assess the variety on its performance. "In the case of Hard Red Spring Wheat, if the committee doesn't like it in relation to the checks, it gets kicked out. So it has to pass all committees to be registered," he explains.

Once the seed has passed performance trials, it has to be multiplied, then sold to a company who will enlist seed growers to grow the seed out until it is finally certified. The entire process takes between five and 10 years.



"Plant breeding is a major commitment," says Spaner.

It's an even greater commitment when the new variety in question is a genetically modified variety — once developed, the variety is subject to rigorous regulatory requirements, and the process takes at least 13 to 15 years, from start to finish, according to Ian Affleck, managing director of regulatory affairs for plant biotechnology with CropLife Canada.

According to Affleck, 28 countries grow biotech crops around the world, and up to 40 trade in those crops. Affleck says the process for developing a new biotech variety is roughly the same in different countries, with some differences in regulatory requirements. "Where the systems differ between countries is what regulations are required and what the review looks like. The lead-up to the regulation is similar," he says.

To obtain variety registration for a single variety in another country, both countries' regulatory requirements must be met. Within Canada, over 100 biotech traits have been approved, says Affleck, and most of these traits have also been approved in multiple countries around the world.

Meeting regulatory requirements at home and abroad takes both time and money, which means it's a process that relies on industry collaboration.

#### Public and Private

Bryan Harvey, a professor emeritus at the University of Saskatchewan, says both public and private breeding programs are necessary for the success of the Canadian seed industry, and public-private partnerships can be key.

Harvey is the creator of Harrington barley, the first superior two-row malting barley variety. His program, while a public breeding program, has always benefited from industry investment. "I support a balance," he says. "I think there are some things the private sector can and does do better — money helps you do things you might not otherwise be able to do." He cites private investments in the development of the canola industry as an example.

In 2012, the private sector invested roughly \$110 million in plant breeding, research and new variety development in Canada — largely focused on canola, corn and soybeans. By 2017, the Canadian Seed Trade Association expects that number to increase to \$116 million, with a focus broadening to include cereals and other crops, according to AAFC.

But Harvey believes public breeding programs contribute something essential to the industry. "Because the public sector is not driven directly by profit, they can do riskier things, and have a much longer horizon," he says. "A lot of the breakthroughs that are made in plant breeding occur in public sector institutions. And usually this work is done in universities where you have medical people, philosophers and lawyers working, and you have regular contact with a much broader spectrum of scientists and ideas than you would in a private company."

Affleck says public and private breeding should be spoken of in the same breath.

"I think it's important to talk about private and public breeding sectors at the same time — both systems are geared toward the same goal, which is to provide new and better varieties for farm-



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ers," he says. "It takes both approaches for agriculture to move forward in this country."

Affleck says public and private breeders are both moving toward the "same goal," but the private company can sometimes take on projects that have a larger initial cost. Genetically engineered varieties each cost roughly \$130 million dollars to develop. "That's where the private sector can leverage initial funding," he says, "while the public sector can leverage collaborations in public research and institutions around the world."

### Intellectual Property Protection

New varieties are expensive. Once they are developed, public breeders and private companies alike seek to protect their investments by applying for intellectual property (IP) protection. In Canada, the Plant Breeders' Rights Office (PBRO) of the CFIA is responsible for granting intellectual property protection to plant breeders.

According to Anthony Parker, commissioner of the PBRO, breeders can seek IP protection for a new variety if the variety meets fundamental eligibility criteria — namely, that the variety is new and distinct from other varieties, and that it is uniform (replicable) and stable. "So if you meet these requirements, you're granted IP protection," he says. "That gives you the right to certain activities in the marketplace — sale, for production and reproduction, import and export, et cetera."

In late 2013, Canada introduced a bill committing the country to the international plant breeding convention known as UPOV 91. UPOV 91 provides a framework for intellectual property pro-

**"I think it's important to talk about private and public breeding sectors at the same time — both systems are geared toward the same goal, which is to provide new and better varieties for farmers."**

— Ian Affleck

tection for plant breeding, including plant breeders' rights (PBR). UPOV 91 is intended to encourage new variety development.

The international protocol allows seed companies to collect royalties at any stage of production, and extends PBR protection from 15 to 20 years.

"As you strengthen the IP protection framework it creates a more secure environment for investment," says Parker. He says the move has already shown a positive impact on the Canadian seed sector.

Prior to the amendments being introduced in Parliament, the Canadian Plant Breeders Rights Office received approximately 80 new applications for agricultural varieties annually, he says.

"As the amendments moved through Parliament, this number almost doubled to 148, and the upward trend still continues today. In the first nine months since the Plant Breeders' Rights Act/UPOV 91 amendments have come into force, the PBR Office has received 90 new applications for agricultural crop varieties."

Parker also says the move seems to have precipitated an increase in the diversity of crops for which breeders are seeking protection. In the past, Canada has seen a large number of applications for wheat, soybean, canola and potato. These days, the PBRO is also processing applications for beans, peas, lentils, faba beans, chickpeas, canarygrass, mustard and hemp.

Affleck also believes UPOV 91 has been a positive development for both the private and public plant breeding sectors, because of its strengthened protection of plant breeders' rights. "The climate for investment in plant breeding benefits from having strong UPOV and PBR in existence, because it allows a plant breeder to know that if they're providing resources they can recoup those costs," he says.

"Any plant breeder — public or private — needs to be confident that they know the lay of the land as they develop varieties."

Julienne Isaacs



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# TKW DELIVERS MORE BANG FOR YOUR BUCK

Rising input costs are encouraging more and more growers to incorporate thousand kernel weight into their precision farming strategy.

**AS** input costs continue to rise for growers, the need to ensure those resources are being effectively utilized has climbed as well.

Shane Thomas, a Lethbridge-based agronomist with Richardson Pioneer, says one of the simplest and most effective ways for growers to make sure they are getting the most bang for their buck is by adopting thousand kernel weight (TKW) as part of any precision farming strategy.

TKW is a measure of seed size and is based on the weight of 1,000 seeds as calculated in grams. Because seed size and TKW of a crop can vary from year to year, the number of seeds and plants in a pound or bushel of seed can likewise vary. By using TKW, a grower can gain a much better understanding of what their seeding needs are.

"We're moving into a time in agriculture where precision is a word that is thrown around a lot. [TKW], in my opinion, is one of the easier ins to begin playing around with precise measurements and more precise practices on your farm... and it's just a strong agronomic practice to take up," Thomas says.

"I've done trials with guys... that hadn't heard of it before. Suddenly they were getting decreased times in maturity, some yield bumps, decreases in disease. There's just a lot of potential there and it's a good way to do something simple and have a big impact on your operation."

## A More Precise Measurement

Using TKW to determine seeding rate provides a far more precise measure than other more traditional measurements such as bushels per acre, because it takes



Agronomists say one of the simplest and most effective ways for growers to make sure they are getting the most bang for their buck is by adopting thousand kernel weight (TKW) as part of any precision farming strategy.

into account variations in seed size. By using TKW along with a seedling survival rate and setting a desired plant density target, it removes much of the uncertainty growers have to deal with, says Murray Hartman, an oilseed specialist with the Food and Bio-Industrial Crops Branch of Alberta Agriculture and Forestry.

"You know exactly how many seeds you are putting into the ground and therefore how many plants will come up, and if it is the target you are after," Hartman says. "If you just go by five pounds per acre and you don't worry about seed size, you could be really low or you could be using

more [seed] than you need to."

Determining the TKW of a particular seed can reduce some of the anxiety growers might end up feeling in the spring, Hartman says.

Growers often have to purchase canola and other seed before Christmas when it has yet to be harvested or cleaned, meaning they are often guessing how much seed they will require. By checking the thousand kernel weight when they pick up the seed, they can then determine whether or not they have enough or should order more prior to planting, he says.

Using TKW to determine a more

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**"You know exactly how many seeds you are putting into the ground and therefore how many plants will come up, and if it is the target you are after."**

—Murray Hartman



Observers expect the use of thousand kernel to become increasingly common as a result of higher seed prices.

precise seeding rate can also provide a boost to weed control efforts, according to Thomas.

"If you understand how many plants you're going to have there and understand that you're going to want to have a higher seeding rate... your herbicides aren't going to have to work as hard to kill those weeds, because your crop is already competing strongly with it," he says.

Thomas says his advice to growers who have just begun to use the TKW measurement is to make sure they set their plant density target high enough, around 28 to 30 plants per square foot to begin with. Setting the target too low could mean a low plant stand that is more vulnerable to disease, while setting it too high might mean unnecessarily high seed costs, he says.

"What I try to do is ease guys into it. Target that 28 to 30 plants per square foot, see how you like it, see how many tillers you are getting per plant, and see how you like the maturity. Then you can start to tweak it from there," he says.

While TKW is commonly used when it comes to calculating seeding rates for canola and a number of cereal crops, it's also beneficial when it comes to seeding



malt barley, according to Lorne Campbell, grower relations coordinator for Rahr Malting Canada Ltd. in Alix, Alta.

Campbell says because TKW tends to promote a more even plant stand, crops tend to mature more evenly. It also provides a far more accurate germination rate than a simple weight measurement.

### Asking the Right Questions

TKW numbers for some seeds are included in the product's information label. That's not usually the case with bulk seed sales. Thomas recommends asking the seed grower for that information or taking your seed to a lab for testing.

"It's one of the questions they should be asking," he says. "Everybody asks price, everybody asks about disease and all that, but thousand kernel weight is [just as important] because it plays into how much seed you need."

### Read the Label

Hartman says he can't stress enough how important it is for growers to read the label on seed packaging before they start planting in the spring.



It is important for growers to read the label on seed packaging before they start planting in the spring.

"Check the bags so you don't get any surprises on the thousand kernel weight. Don't just throw it in there and look at the seed bags later and go, 'Wow, I didn't know this was such a big seed,' and suddenly you need to get more seed," he says.

Hartman expects the use of TKW to become increasingly common as a result of higher seed prices. When hybrid seed sold for about \$3 a bag in the early 2000s, growers didn't give much thought to what it was costing them, he says. Now that it can cost as much as \$12 or \$13 a bag they are much more interested in what they can do to trim their costs, he adds.

"If you said the average seeding rate for canola was four to five pounds back in 2000, that was about \$15 to \$20 pounds per acre. Now you are talking about \$12 per pound and five pounds is \$60," he says.

"All of a sudden it makes a big difference on how much you're spending on input costs per acre. From that standpoint, the economics of how much seed you are paying for is [more] important."

**Jim Timlick**

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Current work at the University of Alberta is focused on broadening genetic diversity in canola through the introduction of new genes and alleles from different brassica species and germplasms.

Photo courtesy Habibur Rahman

# Unlocking Canola's Genetic Secrets

How a Canadian researcher assisted the huge international effort to sequence the canola genome, and what the development means for the future of canola breeding.

**MAPPING** genomes — the entire package of genetic information found within the cells of living organisms such as plant and animal species — is certainly no easy feat. Unlocking the secrets of the canola genome, for example, took years and the dedicated efforts of leading scientists from around the world, including Isobel Parkin, an Agriculture and Agri-Food Canada research scientist specializing in plant genomics based in Saskatoon, Sask.

Working in collaboration with domestic and international researchers, Parkin was part of the international team that recently deciphered the complex genome of *Brassica napus*, which is extensively cultivated as canola in Canada. Composed of scientists from dozens of research institutes from every region where canola is produced, the team was led by Boulos Chalhouh from the National Institute for Agricultural Research in France. Its research results were published in the prestigious journal *Science*.

The development is seen as major breakthrough with broad implications for canola breeding, a first step in what many expect will lead to speedier research and development into producing improved traits and better canola varieties. According to Chalhouh, "Canada's contribution was an essential component of the research, assisting with the complicated task of assembling the canola genome and providing access to the genome for one of the ancestral parental species."

Assembling the canola genome involved a process called sequencing, which refers to the identification, by location within a genetic package, of all of the component genes in that package. Parkin says the contribution of her research team at the AAFC Saskatoon Research Centre was essentially twofold. "We were helping with sequencing the progenitors of canola, and then also helping put this big jigsaw puzzle together."

Developed through collaboration between scientists at AAFC, National Research Council Canada and the University of Manitoba in the 1970s, canola is now the most important oilseed crop in not only Canada, but also in Europe, Asia and Australia. It continues to be a mainstay of Canadian agriculture, contributing \$19 billion annually to the national economy.



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Canola is also one of the most recent plant species, with a very unique origin. The first *Brassica napus* plants originated just a few thousand years ago from unintentional crosses between European cabbages and Asian turnips. Because all flowering plants originated from such events (but in most cases millions of years ago), the canola genome provides unique insight into the early formation of new species in plants.

Unlike many other plants, canola has retained almost all of the genes of its two parental species, likely as a result of breeding efforts. These multiple gene copies provide novel material for further adaptation of the crop. With more than 100,000 genes, canola contains one of the highest gene densities of any sequenced organism; humans, in comparison, have fewer than 30,000 genes in their genetic makeup.

### Unique Challenge

Parkin says the plant's multiple gene copies did provide a unique challenge for researchers piecing the canola sequence together. "It means that effectively, for every single part of your genome, you've got another piece of it that is almost exactly the same. You have very similar bits of the genome that you're trying to separate," she explains.

"If it's like a jigsaw puzzle, you've got an awful lot of blue sky and it's very difficult to work out which bit of sky goes where, especially when they look so similar to each other."

According to Parkin, the project produced groundbreaking knowledge about the origins of the species that will help provide researchers with unique evolutionary insights and new tools for plant breeders.

"The genome sequence of canola has uncovered the complexities which define this important crop. This knowledge will prove invaluable for making future agronomic improvements," Parkin says.

The insights gained through the canola genome sequencing project will not only enable plant breeders to be much more specific and focused in terms of the traits they're looking to develop, she adds, but they will now be able to perform this work in much less time.

"It means that you can do things more quickly, in theory. You have a better idea of how many genes or regions of the

genome are controlling your trait. You can follow them all at the same time and you can be much more targeted in all your profiles, changing things just purely by the way you cross lines," Parkin explains.

"You can follow things like fatty acid profiles in the lab, so you don't actually have to put thousands of lines in the field and then do the quality analysis after the fact."

According to Parkin, knowledge gained through the canola genome sequencing project will also help address one of the main challenges facing canola breeders.

"The limitations in canola breeding at the moment are really the fact that there's been a reduction in the variation that's been used," she explains. "There's been a fair amount of selection and breeding particularly for quality traits... but in doing that [breeders] tend to select for the same regions over and over again, so you reduce your variation in your germplasm."

Parkin says having a map of the canola gene sequence will enable scientists to precisely target those areas of the genome where variation would be best introduced.



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Habibur Rahman, a canola breeder at the University of Alberta, agrees that increasing the diversity in breeding materials is vital.

"Research has shown that genetic diversity in canola is low, and this needs to be broadened, especially for breeding improvements ... and for developing good hybrid cultivars," he says.

### Producing Better Hybrids

Much of Rahman's current work is focused on broadening genetic diversity in canola through the introduction of new genes and alleles from different brassica species and germ-plasms. The goal, he says, is to broaden the genetic base of Canadian canola over the long term and to create good parents for producing better hybrids.

Rahman, who uses conventional breeding methods as well as molecular marker and other genetic techniques, is also helping lead the fight against clubroot, an increasing threat for canola producers across the Prairies.

Rahman says the integration of clubroot resistance into canola and the development of clubroot-resistant parent lines for hybrids is another important aspect of his research program at the University of Alberta.

Back in 2012, the university began collaborating with a company called Crop Production Services (a subsidiary of Agrium Inc.) in a private-public initiative aimed at delivering clubroot resistance genes to the market in competitive canola hybrids.

In this way, Rahman helped develop CPS's multigenic clubroot-resistant canola variety called PV 580 GC, which was officially registered in October 2015 and is purported to have high levels of resistance to multiple clubroot pathotypes. That's

because the new Genuity Roundup Ready canola hybrid carries two clubroot resistance genes, unlike "most clubroot resistance cultivars in the market that carry a single resistance gene," Rahman says.

In a media release announcing the PV 580 GC launch, Ryan McCann, director of seed for CPS Canada, said the company's R&D team has invested heavily in discovering and breeding new hybrids that will provide canola growers with increased levels of clubroot resistance. "Our hybrid program includes incorporation and testing of novel genes that offer a high level of resistance to multiple clubroot pathotypes," noted McCann.

Curtis Rempel, vice-president of the Canadian Canola Council, sees partnerships between private industry and public institutions (like the canola initiative involving CPS and the University of Alberta) as a strong trend in canola breeding in Canada.

During a podcast called "The past, present and future of canola" released during the International Rapeseed Congress held in Saskatoon, Sask. in July, Rempel said, "The opportunity for public/private partnerships is resurfacing again. With the investment that's needed in genomics now and all of the new technologies, some things have a direct return to the seed company and the life science companies and they're going to bring that [to market] commercially as rapidly as possible.

"In order to introduce the technology, they need to work with the public sector in a coordinated fashion," Rempel said, adding that forums like the International Rapeseed Congress provide industry stakeholders with "all the impetus to build these public/private partnerships. They were part of the landscape 30 years ago, but now to ... reinvent them at a conference like this really helps." **Mark Halsall**

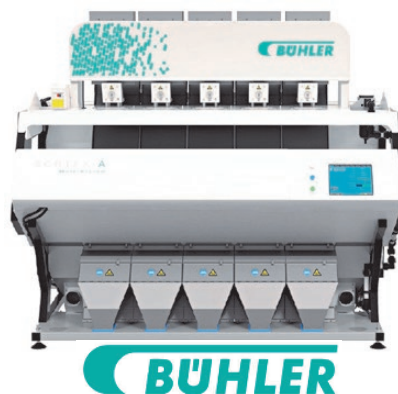


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# Bringing You Up-to-Speed on Bill C-18

We chat with two industry experts on what changes they think farmers will see coming down the pipe now that the Agricultural Growth Act is in force.

**THE** Agricultural Growth Act — Bill C-18 — caused quite a stir when it was tabled in December of 2013 by the former federal Conservative government. It received Royal Assent in February of 2015 and is now law.

The Act brings in a slew of changes to the suite of statutes that the Canadian Food Inspection Agency (CFIA) uses to regulate the agricultural sector, and is designed to:

- Strengthen intellectual property rights for plant varieties in Canada through the ratification of UPOV 91 — the 1991 Act of the International Convention for the Protection of New Varieties of Plants
- Create a regulatory environment that benefits from the latest scientific research
- Reduce red tape and regulatory burden on producers
- Increase consistency across CFIA regulations
- Provide the CFIA with stronger tools to fulfill its mandate to protect Canada's plant and animal resource base
- Align Canada with its international trading partners and expand global market opportunities

Opinions on whether or not it will do all of those things vary, but now that the Act is in force, we consulted a couple of industry experts about what it means for farmers as we move into the 2016 growing season.

**Alberta Seed Guide: What is CSTA's official stance on the Agricultural Growth Act as far as the Canadian seed trade goes? What benefits do you feel it will bring for plant breeders and also farmers in terms of regulatory efficiency?**

**Scott Horner:** CSTA was a strong proponent of Bill C-18, the Agricultural Growth Act, from the very beginning. The Act puts Canada on the same footing as other UPOV-member countries, unlocks doors for development of new and improved seed varieties within Canada and internationally, and brings access to new and improved varieties that would keep Canada competitive in the domestic and international markets.

CSTA also favoured the regulatory efficiencies that would come with Bill C-18 such as incorporation by reference, which means that rather than including something in regulation in its entirety, it is a standalone document to which regulation refers.

Elements of the seed system that are currently in regulation, including the list of crops subject to variety registration



**Scott Horner**

President

Canadian Seed Trade Association

Horner became CSTA president in July of 2015. He has been a member of the board of directors since 2008, and represents CSTA on the board of directors of the Seed Association of the Americas. He has been chairman of both the International Committee and the Hybrid Canola Seed Production Sub-Committee.

like the Weed Seeds Order and the Seed Grade Tables, must evolve quickly to meet the needs of farmers and changing markets. Removing these elements from regulation could ensure that where there is the rationale and sufficient value chain consensus, change could be effected in a more timely manner. Incorporation by reference could also help to prevent disconnects between regulations.

**ASG: What about new varieties of crops? Do you think the Act will bring new products to farmers more quickly?**

**SH:** Farmers can expect increased investment — from within Canada and abroad — in variety development in a wide range of crop kinds and access to new varieties that best meet their needs on-farm. The Plant Breeders' Rights Office (PBRO) reports that PBR protection is now being sought for a greater diversity of crop species. In addition to the traditional agricultural crops like wheat, barley, oats, soybean and canola, the PBRO is receiving applications for triticale, faba bean, chickpea, lentil, hemp, and mustard.

In 2012, the private sector invested \$110 million in plant breeding and variety development in Canada. However, nearly 90 per cent of that investment was in three crop kinds: canola, corn and soybeans. These three crops all benefit from other forms of intellectual property protection (like hybridity, contracts, gene patents and technology use agreements) that allow breeders and developers to generate a return on their investment.



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Breeders of crops like cereals, flax, pulse crops and special crops only have access to Plant Breeders' Rights to protect their new varieties. For these crops, private sector investment has been very low. In 2012, six per cent of private sector investment was in wheat breeding, 1.2 per cent in flax breeding and only 0.2 per cent in pulse crops. Now that UPOV 91 is in place, breeders will have the confidence to introduce new varieties, knowing they will receive a fair return on their investment.

In anticipation of the new PBR legislation being passed, the industry witnessed new investments in breeding, the formation of new partnerships, and increased interest from foreign breeders to release their varieties into Canada. The ratification of UPOV 91 has signaled that Canada is open for business.

### **ASG: Have there been any misconceptions surrounding this?**

**SH:** One common misconception has been around the ability to save seed under the Act. The new PBR Act enshrines in legislation, for the first time, the ability to save seed of PBR-protected varieties. Farmers can also condition and plant/store/stock grain of PBR-protected varieties to use as seed on farms. The selling of farm-saved (common) seed of PBR-protected varieties has always been illegal and continues to be illegal.

Also, as has always been the case, if the seed is of a variety that carries other intellectual property protection, such as patents or use agreements, farmers need to be aware that the agreements may prohibit seed saving.

### **ASG: One common concern about the Act is the belief that it will result in higher seed costs for farmers. Is this accurate from CSTA's point of view? What such effects could farmers expect to see moving into 2016?**

**SH:** The introduction of UPOV 91 should have no effect on seed prices — it does not in any way influence the royalty a breeder attaches to a new seed variety. Additionally, farmers have and will continue to have a choice in the seed they purchase. Just as plant breeders can choose whether or not to protect their inventions (new varieties) with PBR, or to require royalties, farmers have the choice to not use PBR-protected varieties.

While UPOV 91 and PBR will see new varieties introduced, it is important to note that the Act is not retroactive. It does not impact varieties registered prior to the passage of Bill C-18.

### **ASG: End-point royalties have become a topic of discussion in recent months. What is CSTA's position on the issue and what do you see coming down the pipe in regard to the possibility?**

**SH:** CSTA supports mechanisms that help fund variety development and investment in innovation. Certified seed is the best mechanism for returning revenue to plant breeders with which they in turn re-invest in research, development and new variety innovations. The canola industry is a good example of how certified seed use can support breeding innovation. However, with the low rates of certified seed use in some crop kinds, end-point royalties provide a reasonable mechanism for generating funds that can be re-invested in variety development.



**Kent Erickson**

Chairman  
Alberta Wheat Commission

Erickson is a fourth generation farmer in Irma, Alta. He graduated from the University of Alberta with a degree in agricultural economics in 2004. Currently, he and his father farm 4,500 acres of grains and oilseeds including hard red spring wheat, winter wheat, oats, peas, flax, barley and canola.

**Alberta Seed Guide: Despite it being early in the game, what does the Agricultural Growth Act being in force mean for farmers?**

**Kent Erickson:** There's lot of potential for future investment. UPOV 91 will bring a re-investment in the plant breeding going on right now. It gives a few more opportunities for public and private institutions to capture some investment. We're seeing that right now with the Alberta Wheat Commission's 4P partnerships, our agreement with Canterra Seeds to improve Canada Prairie Spring Red (CPSR) wheat varieties for farmers, and our recent investment of \$970,000 over five years in 13 wheat-related research projects focusing on agronomic and genetic improvements.

**ASG: The Agricultural Growth Act might be good for plant breeders, but how does that benefit farmers?**

**KE:** It's going to help protect property rights on these varieties and give breeders the ability to take royalties off of that. If growers start using them, those royalties go back into plant breeding programs, which will increase investment in more plant breeding.

**ASG: What long-term effects are farmers going to begin noticing?**

**KE:** The two things we'll see down the road are an increase in varieties and a turnover of varieties, and because we'll have increased investment from all players, we'll see better varieties, better quality, better yield coming in, and at the end of the day it will give growers an increased value crop and more dollars for what they're growing.

**ASG: What effects could it have on seed costs?**

**KE:** Obviously you'll never see a decrease in seed cost, but the legislation will help manage royalties and breeders will be able to capture more royalties, which should help keep seed costs on a relatively level playing field. The more certified seed that gets used, that will increase the pot of money going back into plant breeding.

Marc Zienkiewicz

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# Best is Yet to Come

The South Peace Grain Cleaning Co-op is moving into the future with exciting new projects.

**DIVERSIFICATION.** It's a big topic of discussion in the agriculture industry these days, and the seed cleaning sector is no exception. Morinville. Sexsmith. Wembley. Numerous seed cleaning plants are branching out to include other services such as shipping and retail.

British Columbia's South Peace Grain Cleaning Co-op is continuing this trend. After decades of having all its eggs in one basket, the cooperative — located in Dawson Creek, near the Alberta border and just 134 kilometres north-west of Grande Prairie — is changing. Big time.

"The co-op was started in 1963 the same way most of them were, with a bit of farmer money and a bunch of government money," says Shaun Grant, who took over as manager four years ago.

"A new plant was built in 1987, so our existing facility is coming up on 30 years. The co-op itself has been around for 52 years. It was time for some change. You have to make yourself relevant, and being a one-trick pony stuck in a 50-year rut is not a good business strategy."

Born and raised in the Dawson Creek area, Grant comes from an agriculture background that includes livestock production and marketing. He started at the seed plant in October 2005 as plant operator. He's dedicated himself to expanding the cooperative's ability to meet today's changing agricultural needs.

"We're experiencing a pretty big growth spurt, because we opened ourselves up to new opportunities that presented themselves. We're taking advantage of what our customers are asking for," he says. "Actual seed cleaning is only about a third of our revenue."

South Peace Grain Cleaning Co-op has, since its formation, served its approximately 200 members by cleaning seed. It currently cleans between 400,000 and 500,000 bushels of wheat, oats, barley and peas annually. The facility is located on the east side of Dawson Creek, adja-



South Peace Grain Cleaning Co-op is located on the east side of Dawson Creek, B.C., adjacent to a Canadian National Rail line that services the community.

cent to a Canadian National Rail line that services the community.

According to Grant, South Peace Grain Cleaning Co-op has tripled its revenue in four years, and is nearly over the million-dollar mark now in terms of annual revenue. Although it still cleans wheat, oats, peas, barley and a few other assorted crops, the majority of its revenue now comes from other sources besides good old-fashioned seed cleaning.

It now offers a full slate of market services including seed sales, dockage cleaning, export cleaning, wholesale feed grain, and organic grain. It's now offering whole and rolled feed grains to Dawson Creek and surrounding areas in the Peace Country. In addition, it offers a line of livestock gates and panels, including round bale feeders.

"We serve hundreds now. We have a lot of feed customers, retail and bulk feed, and cereal seed," Grant notes. "Cereals are a big focus, and we want to be able to offer nice, clean, disease-free cereals to areas that are struggling due to fusarium. We haven't detected it here yet, so we think that's an advantage."

## Best is Yet to Come

South Peace Grain Cleaning Co-op has diversified a lot in recent years, but perhaps its most ambitious project yet is just on the horizon. With recent changes to the Canadian grain marketing system, the co-op has identified an opportunity to help both buyers and sellers of Canadian grain by pursuing the installation of rail service at its cleaning facility, thanks to its close proximity to the CN rail line.

This new service will give producers and buyers ready access to markets outside of the Peace Region, Grant says. The business plan and feasibility study have been completed, and the financing process is underway, with the service expected to begin in 2017.

"It's a big chance for our customers to move themselves up the chain," Grant says. "We always talk about value chains, and this is a play on that. Producers will be a lot closer to the buyers of their products — there will be a lot fewer people in the middle. That's where we think we'll gain extra revenue for the members."

The co-op's property is a bit too small to support the rail project and any future

growth in that regard, so the co-op is exploring a lease arrangement with the provincial government to use some nearby property that the rail line runs through.

"It's going to be a simple design, and gives us huge opportunity in terms of growth," Grant says.

While there are many options available to the co-op in terms of the size, scope and business operations around rail siding and marketing grain, an initial concept has been developed that will serve as a starting point for discussions with its members and with CN.

The recommendation of the feasibility study is to develop an eight-car site, built on the existing co-op location, that would allow for the expansion of parallel tracks in the future, which would eventually expand the entire site to 30 cars. The handling system would be best built with efficiency and expandability in mind, the study notes. This includes efficient handling of incoming grain from producers through a pit receiving area and leg, and an efficient loading system for rail cars via a high-throughput conveyor.

It needs to allow for careful handling of products like peas, which can split and crack easily, allow for the ability to create blended loads to maximize value for producers, allow for handling of organic product, and limit the labour to operate the facility.

The total cost of investment in an optimal eight-car loading site is estimated at \$1.8 million. This system would allow the co-op to ship between 200 and 350 rail cars of grain per year.

While Grant notes that South Peace is not the first seed cleaning co-op to build a rail service, he says the co-op's geographical location means it will have a leg-up over others that have done so.

"What we're doing is similar to what the Morinville and Sexsmith and Wembley co-ops in Alberta have done. There's a host of seed plants already doing this," he says. "What we hope gives us an edge is the fact that — being located in B.C. — we're the closest one to port. Our longer-term play on the rail is going to be containerization. That gives us instant access to export markets."

According to Grant, there's already been significant interest from potential buyers for the co-op's grain, and members are excited about the opportunities they see coming.

"We were approached by a Chinese delegation, and the numbers they put forward are very encouraging. We need to get this rail project up and running," he says. "We have half a dozen value-added projects we'd like to act on, but they're completely dependent on us being able to ship the product. We need this first basic piece in place. You have to be able to access the market. That's key."

But first things first. Once financing is secured, the rail service must be started and markets established. It's a daunting task, but considering the major changes it has seen in just a few short years, Grant is confident South Peace Grain Cleaning Co-op will continue to see continued success in diversification.

"In 10 years we'll look back and this will be a very different co-op," he says. "It's all about growth, change, doing more all the time, and providing value to the members." **Marc Zienkiewicz**

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# Seed Growing a Family Tradition

Alfalfa seed grower Don Petersen comes from a long line of seedsmen, and he's continuing the tradition.

**TO** say Don Petersen has alfalfa seed and agriculture in his blood would be putting it mildly.

Petersen, 55, is a third generation pedigreed seed grower whose father, Peter, was one of the first alfalfa seed growers in Canada to make use of leafcutter bees.

Before that, his grandfather was an award-winning grass seed grower.

"The alfalfa seed business is evolving, and it has changed a lot," Petersen says.

He now runs Don Petersen Farms Ltd., located 20 miles southeast of Brooks, Alta. Alfalfa seed production has come a long way since his father collaborated with federal government scientist Gordon Hobbs in the 1960s to help make leafcutter bees commonplace on the Prairies.

Hobbs and a team of researchers at Lethbridge Research Centre were the first to domesticate leafcutter bees for the pollination of alfalfa crops, which they did in 1964. Hobbs literally wrote the book on leafcutter bees in Canada when he published *Alfalfa Leafcutter Bees for Pollinating Alfalfa in Western Canada* the year prior.

"In the old days you just put the bees out there and let them do their thing, and now we actually ensure the alfalfa plants are healthy," Petersen says.

Like all modern seed growers, technology plays a big role on Petersen's farm. He relies a lot on modern inputs like micronutrient fertilizer to ensure his alfalfa plants are healthy. It's a change in mindset from past ways of doing things, he says.

"It's really evolved from having a five-acre field to what we have now — my smallest field is 100 acres."

And with land going up in value — combined with the alfalfa seed industry quickly becoming more lucrative — he adds that it's crucial to do the most he can with what he has.

"Land is getting more expensive out here, between \$800,000 and \$1 million per quarter section. People have seen the money that can be made with alfalfa seed. Most of it used to be grown in the county of Newell, but more is being grown in Bow Island and Enchant. A lot more producers are coming into it."

## Growing an Industry

Petersen knows firsthand how important a crop alfalfa has become. He's seen Alberta's forage seed industry gain in stature,



Don Petersen is a third generation pedigreed seed grower whose father, Peter, was one of the first alfalfa seed growers in Canada to make use of leafcutter bees.

having been on the founding board of the Alberta Alfalfa Seed Commission six years ago. The organization initiates and promotes activities that enhance the viability of the alfalfa seed and leafcutter bee industries in the province, and operates under the authority of the Alberta Agricultural Products Marketing Council.

"A lot more people are getting into alfalfa seed now, and we needed a strong voice for the alfalfa seed industry in Alberta. With land as expensive as it is, we need to maximize yield — but it's hard to do that when there's no research dollars," he says.

"At the time we only had around 7,000 acres of alfalfa in the province, and there was no money to do any research. We used to have an organization called the Alberta Irrigated Alfalfa Seed Producers, and everyone put in \$100 a year and we had maybe 100 members. Ten-thousand dollars a year to work with isn't much."

Now, because of the Alberta Alfalfa Seed Commission, stakeholders in the province take part in fungicide and seeding trials, working to improve production practices and access to new chemicals. According to the Canadian Seed Growers' Association, alfalfa was the province's fourth-largest pedigreed seed crop in 2015, with almost 36,000 acres planted. That's up from less than 28,000 the year before.

"We have a government researcher in Lethbridge now, and people really see the value in promoting the alfalfa seed industry, [due to the work of] the Alfalfa Seed Commission. It used to be you could have our annual meeting in a phone booth, but now we get a lot of people come out," Petersen says.

Despite the alfalfa seed industry rising in the province, there are challenges ahead, Petersen notes. One is the possible future introduction of genetically modified (GM) alfalfa to the market.

Although Roundup Ready alfalfa has been approved for sale in Canada, Forage Genetics International — the company that markets the product — is holding off on a Canadian commercial release. Although some small-scale trials are underway in Ontario, Forage Seed Canada — a national forage seed industry

## "The alfalfa seed business is evolving, and it has changed a lot."

—Don Petersen

group of which the Alberta Alfalfa Seed Commission is a member — wants to keep Western Canada free of GM alfalfa until export markets are more accepting of the technology.

"It's a bit of a Pandora's box. Once we open it, we can't go back to where we were," Petersen says. "We're all working together to figure out a strategy that makes the most sense."

Marc Zienkiewicz

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The 2015 drought was so area-specific that even within drought zones, some crops were decimated while others out-yielded the previous year.

Photo courtesy Harry Brook

# Own this Dry Cycle

No one can call the weather. However, indicators already point to a warmer, drier spring for 2016. Here are 10 suggestions to turn a dry cycle in your favour.

**THE** outcomes of last summer's drought in Alberta are all over the map. Literally. The drought was so area-specific that even within drought zones, some crops were decimated while others out-yielded the previous year.

"There was a huge disparity between how people did, depending on time and where the clouds were. Sometimes it only took a half inch of rain in that dry spell to carry the crop enough to produce very well once it rained again," says Harry Brook, a crop specialist with Alberta Agriculture and Forestry.

"In one county, there were crops that were severely affected because they were seeded early... Those [producers] who seeded late seemed to have really good crops. It's not something where you can pinpoint this area was dry and this area wasn't. Within each of those areas, there were people who did very well with their yields."

Moving into 2016, it's understandable that the D-word is top-of-mind for Alberta producers, especially those in the province's Peace River, central and southern regions. However, some areas have already recovered lost soil moisture.

According to Trevor Hadwen, an Agriculture and Agri-Food Canada agroclimate specialist, Alberta's central region received a lot of rainfall in August and September, while southern areas recovered even earlier, alleviating some of the province's soil moisture needs. That being said, October was a dry month throughout the central and southern regions.

"We're still showing most of Alberta in abnormally dry conditions, in terms of our drought monitor. We do have some areas

that are still in a Level 1 drought. When we look at the forecast through the winter, it gives us a bit of concern for conditions going into next spring," says Hadwen.

If the forecast continues the way it is going, Hadwen says there will be less stored moisture during the spring season. "Likely, we'll have a little less run-off and we'll have less availability for moisture replenishment in the soil," he says.

A layer of snow on the ground would be nice to maintain moisture and provide insulation for fall-seeded crops, however, chances are good Western Canada will see a warmer and drier winter this year because of El Nino, says Hadwen. However, it's not all bad news.

"There's nothing to be greatly alarmed about at this point. There is decent soil moisture in the ground because of those late summer and early fall rain periods. Crops and grasslands were able to recover a fair bit during that period and recharge. However, there are certainly areas in the province, especially in the northern and central regions, that we're watching more closely, and have more concern about."

Subsoil moisture levels will likely weigh heavily on producers' decisions in 2016, says Brook.

## Nitrogen Management

"If we are into a dry cycle, producers may not want to invest the same amount of money as in a wet year by putting in lots of fertilizer. You want to make sure all those dollars are producing. That's why you don't want to over-apply the nitrogen," says Brook.



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One option is to wait and see what Mother Nature has in store for spring, as it's possible to top dress nitrogen if there's good moisture to take it down to the roots.

It would be a mistake, though, to assume nutrients put down last year didn't get used up. "We did get rain, and we did have some fairly significant yields coming off," says Brook. Base fertilizer requirement decisions on fall soil sample results, or those taken this spring, he says.

Brian Beres, an AAFC research scientist, also stresses the importance of determining soil nitrogen levels.

"The question is, will it be available and continue mineralizing to be available for this growing season. It might not be a bad idea to utilize something simplistic like the Plant Root Simulator by Western Ag Innovations, to give producers a snapshot of their N status, because they probably won't have to plan for the nitrogen budget they had to plan for in 2015."

There's also Fertilizer Canada's 4R Nutrient Stewardship model. 4R Nutrient Stewardship works to increase production/profitability for farmers while enhancing environmental protection and improving sustainability. To achieve those goals, the 4Rs incorporate the right source of fertilizers that are in — or are easily converted to — compounds best used by the target crop. Apply the right rate of fertilizer to match nutrient supply with crop requirements. Apply fertilizer at the right time so nutrients will be available when crop demand is high. Apply or maintain fertilizer in the right place where the crop can access the nutrients most effectively.

4R Nutrient Stewardship requires the implementation of site-specific BMPs that optimize the efficiency of fertilizer use. The goal of fertilizer BMPs is to match nutrient supply with crop

requirements and to minimize nutrient losses from fields. Selection of BMPs varies by location, and those chosen for a given farm are dependent on local soil and climatic conditions, crop, management conditions and other site-specific factors.

Other agronomic and conservation practices, such as no-till farming and the use of cover crops, play a valuable role in supporting 4R Nutrient Stewardship. As a result, fertilizer BMPs are most effective when applied with other agronomic and conservation practices.

## Consider Cropping Choices

Soil moisture could also have a bearing on cropping choices, says Beres. Before making decisions, reflect and review rotations so crops able to withstand a prolonged period of below-average precipitation are seeded. Monitoring soil temperatures and getting out in the fields as early as possible in the spring may also help producers get a jump on a dry cycle.

For example, producers may choose to plant wheat over canola because wheat tends to be more drought tolerant than canola, says Brook. In addition, mustards tend to be much more resistant to dry conditions than canola. "Mustards don't produce as well as canola in a [moister] year, but in a dry year, they tend to out-produce canola," he says.

However, economics is the huge driver. "It's the elephant in the room," Brook says. Despite dry conditions, producers may go ahead with plans to seed canola in 2016 because it's one of the "few areas you can actually pencil out profitability," says Brook.

## Herbicide Carryover and Seeding Rates

Before seed hits soil in the spring, another issue that may have to be addressed after a drought year is herbicide carryover. Dry conditions will often exacerbate the residual effect of some herbicide products in soil. Hilltops, or any regions with low organic matter which tend to hold onto herbicides longer, are particularly prone to carryover issues. A simple bioassay should determine if soil contains residual herbicide, says Brook.

For example, once the frozen soil has thawed, take some soil samples indoors and grow a few plants (of the intended crop) in the soil samples. Any symptoms of herbicide carryover should show up in the plant samples.

Within a crop, variety selection can also play a vital role in attaining good yields with below-average precipitation. "Some of the varieties that are longer maturing in wheat, canola and pulses, do a lot better with a longer season that has higher, or at least above-average, precipitation, whereas some of the ones with shorter maturity requirements might be better suited to a dry cycle," says Beres. "I don't think we need to upset the apple cart, but I think variety selection is key on the cropping side."

## Changing Pest Dynamics

Watch for changing weed and pest dynamics moving into the post-drought growing season, says Beres. "Any of those insect pests that like a dry cycle as opposed to a wet cycle could become more prevalent in 2016," he says.

Whereas wheat midge might be a big concern in a wet cycle, the populations and areas of distribution of insect pests that thrive in drier conditions, such as the wheat stem sawfly, could increase, says Beres. These changing pest dynamics, in turn, may influence producers' variety choices.



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"You could start to see elevated infestation levels with insect pests like wheat stem sawfly. Right now, it's isolated to localized hot spots, but that could change. If I was a durum grower, there's some really nice solid-stemmed durum varieties that might be available in 2016 that growers may want to look at."

On the CWRS side, producers in a wheat stem sawfly hotspot may want to review management practices and think about planting a solid-stemmed variety, says Beres, after due consideration of historical data, such as infestation severity during the last dry cycle (from 2000 to 2006).

Agencies and researchers monitoring pests will also be watching grasshopper populations closely this spring, says Jennifer Otani, an AAFC pest management biologist. "In many respects, we already saw some real grasshopper problems in 2015, plus that later fall for most of us in the province. It is going to be an insect we are all watching for," she says.

In addition, dry or late springs, or very early warm springs, followed by cooler temperatures, can often fool producers into

thinking the weather is to blame for late-emerging crops, when the issue is really cutworms or wireworms, says Otani.

Another pest to watch for, especially in faba bean crops, is pea leaf weevil, she says, which is expanding its distribution north into central Alberta from the south. "Pea leaf weevil has certainly changed in this past year with the faba bean issue. They're not characteristically drought-related insects, but they're certainly insects that changed this past year because we had less moisture," says Otani.

If they're thick enough, says Brook, the pea leaf weevil larvae will eat all the nitrogen-fixing nodules on plant roots. "You put in a pulse crop thinking it'll provide its own nitrogen and save you some money, but it ends up you need to apply nitrogen to substitute for the nodules eaten by the larvae," he says.

**Kari Belanger**



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# New Pests in Town

One of the nation's leading soil ecologists warns that two pathogens not before seen in Alberta may be wriggling their way to a field near you.

**THERE'S** a new pest wriggling its way west. As soybean acres continue to grow in Alberta, soybean cyst nematode (SCN) is sure to follow, says the University of Manitoba's Mario Tenuta, Canada research chair in applied soil ecology.

"From the experience in Ontario and Quebec, soybean cyst nematode moves very readily and expands its region of presence with the expansion of soybean," says Tenuta. "We have to be prepared. We know this is coming, but there's no reason to panic. It's not going to cause any regulatory issues, or the stoppage of grain or product movement. It's just a matter of education and awareness so we can jump on the problem as soon as it occurs, and growers can manage it."

So far, SCN has not been detected in Prairie soils, and Alberta's geographic situation could further impede invasion.

"Alberta is fortunate in that it's not surrounded by an area that already has soybean cyst nematode. It's going to have to move in a lot further and will have to be transferred on soil, et cetera. Whereas in Manitoba, floodwater from the Red River, birds moving across the border, wind, or soil on equipment or people's shoes — all of these things can easily move SCN into the province," says Tenuta.

Although no SCN has been found in Manitoba to date, Tenuta and his team have been raising awareness and preparing for the pest's eventual arrival in the province and across the West. Work being done by the researchers includes two years of surveys targeting fields with three or more years of soybean cropping, gearing up for tools to identify SCN, as well as pest awareness and outreach at all levels, from growers to crop consultants.

For example, being able to tell a soybean cyst nematode from a sugar beet cyst nematode, or, for that matter, any nematode at the species level, presents a significant challenge — one Tenuta has taken on. From five different methods, the team is determining what molecular techniques are best for identifying SCN.

"We're trying to develop good, robust methods for identification," says Tenuta.

Currently time consuming and laborious, the researchers would also like to develop a process that identifies and quantifies a sample within 24 hours. These methodologies will then be passed on to commercial laboratories. "What I envision is we improve the ability of existing laboratories, or new laboratories would take on the analysis as a service to growers," he says.

Tenuta is also training and liaising with crop consultants, crop input specialists, commodity groups, scouts and growers. "We're trying to get the word out. People don't often know what to look for, and it carries on for years until yields are dramatically reduced. Then, as a last resort, they think about nematodes."

And that is the problem with nematodes — they slowly, persistently rob yields. "They are generally not devastating to yields in a



Low-temperature scanning electron micrograph of soybean cyst nematode and its egg. Magnified 1,000 times.

Source: USDA ARS

particular year. What they cause over a number of years is declining yield. If it goes unrecognized for, say, decades, we're talking 50 or 60 per cent yield loss."

Yield losses are directly related to the number of nematodes present in the soil as well as the length of time before diagnosis.

Often symptoms are misdiagnosed; for example, yellowed plants may lead to a diagnosis of iron chlorosis, or a field may look like it's short on nitrogen or waterlogged when that is not the case. Other symptoms include stunted plants with uneven height and fewer pods, a slow and persistent reduction of yield, white cysts that are lemon-shaped may be present on roots, and often crop damage shows up earlier on sandy soils.

Nematode feeding disrupts water and nutrient uptake, interferes with nodulation and damages roots. Once a field has nematodes, they can't be eliminated, but the problem can be managed. Smart rotations, such as one in three or one in four, using SCN-resistant soybean varieties, and, most importantly, biosecurity, are all part of effective SCN management, says Tenuta.

"When moving equipment onto fields, have it cleaned. Try not to drive trucks between fields; keep them on the side. The key thing is to wash soil off of implements and tractor tires — washing with water goes a long way to protect against SCN, and a pressure washer does a great job," says Tenuta.

Cleaning equipment and implements will be second nature to Alberta growers already practicing biosecurity to keep clubroot out of their fields.

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## CCN on its Way

With SCN a far-off blip on Alberta's pest management radar, a closer-to-home nematode threat may be approaching from the south. SCN's close relative, cereal cyst nematode (CCN), has been confirmed in both wheat and barley crops in Montana. SCN and CCN share many commonalities including crop damage, symptomology, and pest management. However, because CCN-resistant cultivars have not been fully explored in Canada, crop rotation and biosecurity, at present, are the primary management practices.

"How much resources [put into CCN breeding efforts] is proportional to the risk or threat. It's on the radar, but what's probably going to happen is germplasm will come from other places [around the world]," says Tenuta.

When it comes to SCN, resistant cultivar development is another story altogether. Over decades, millions of dollars have been invested in resistant cultivars; however, although extremely effective until now, there's evidence the durability of the resistance genes the industry relies on is breaking down.

"In the United States, the resistance gene is breaking down and the nematode has been able to overcome it. We're not seeing as much effectiveness of the particular resistant varieties we have now," says Tenuta.

There's a movement, he says, to combine SCN-resistant varieties with nematicide. "The nematicide helps rebound those resistant lines. From what I've seen, the nematicides don't seem to work on their own. They need the help of the resistant varieties."

Additionally, there's a flurry of activity on the breeding front to develop new resistance genes for soybean varieties. "I'm ever hopeful, in particular with the molecular technologies, that we're going to start seeing over the next five to 10 years, new resistance genes in our soybean varieties," says Tenuta.

One misconception western Canadian growers often harbour is the cold winters protect them from nematode invasion. Not so, says Tenuta. So far, the West's geographic isolation and low soybean acres have protected Prairie growers from CCN and SCN, but forewarned is forearmed.



Photo: Keith Weller/USDA

The bodies of female soybean cyst nematodes feeding in plant roots form bulbous, egg-filled nodules from which young will hatch the following spring.

"Understand about nematodes; learn about them. We think in Canada we're immune to nematode problems because of our cold winters — I'd like growers not to believe that. I think it will be more and more on our radar as we move forward in the next few decades with cereals, with soybean, and, I suspect, with canola as well."

**Kari Belanger**

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# PRECISION SEEDING A GROWING TREND

As input costs rise and the demand for food continues to increase, more growers are turning to precision seeding to boost revenue and yield.

**PRECISION** agriculture is hardly a new idea. In fact, growers across the province have had access to precision planting technology for several decades now.

Still, an increasing number of growers have begun turning to this technology as they investigate ways of increasing yield and revenues in these challenging economic times.

Geoff Doell, an agronomist with Westlock, Alta.-based Growth Agronomics Inc., says one of the main reasons for that is the fact that precision seeding, or variable rate seeding, offers far greater accuracy than more traditional methods.

Whereas canola seeds are often randomly distributed through the airline of an older, more traditional planter, a precision vacuum corn planter offers far better seed singulation and much more precise placement.

## More Precise Placement

"It means plants aren't fighting each other as much because they're not in such close proximity to each other. They have their own little happy zone they're pulling nutrients from," Doell says.

"They'll still compete against weeds and other stuff, but they're not competing directly against each other and therefore the stock tends to get a little bigger because you have [more] space between them. The thicker the stock and the better the stock, not only am I [building] disease and insect resistance, but I'm also storing more nutrients for greater potential yield."

Another major factor for the increasing interest in precision seeding, according to Doell, is that it can significantly reduce seed costs for growers.

Typically, the average seeding rate in most parts of the country has been about five pounds per acre, he says. By using a corn planter that rate can be reduced to as low as one pound per acre, which translates into a savings of about 80 per cent on seed costs.

"If you are looking at the cost of seed and let's say it's \$10 and I'm saving \$40 an acre in seed costs alone, that's pretty significant," Doell says.

In addition to producing better stocks and less tillering, precision seeding can also lead to more even maturing in canola and other crops as well as more optimal plant counts. Such an increase in density can provide better moisture conservation in the ground and far better protection against disease, says Remi Schmaltz, CEO of Irricana, Alta.-based Decisive Farming.

"It's all about having a better density of crop which allows growers to have better competition with the weed," Schmaltz says. "You are better able to handle disease pressure."



Photo courtesy Geoff Doell

Trash clearing tools designed to "sweep aside" the previous year's residue to allow an even penetration of the disc planting tool behind.

Despite all of these benefits, precision seeding does pose some challenges for growers.

In some cases, growers might have to juggle with the openers of planters to make sure they provide the proper row width required.

## Fertilizer Challenge

Another challenge, according to Doell, is being able to place the right amount of fertilizer in the right spot.

"You don't want to be five or 10 centimetres away and have it take two or three weeks for the root to find the band [of fertilizer]. You want to be able to place it precisely below where the seed germinates and within 48 hours you have a root developing," he says.

Doell says one of the best ways of meeting that challenge is using GPS-enabled equipment with real time kinematic (RTK) navigation that allows growers to put the entire band right below where the seed is going to grow.

Weed control is another factor growers should consider when it comes to precision planting. Because there are fewer plants, it

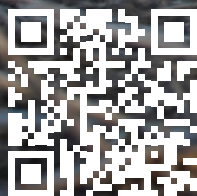


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can take longer for a plant to canopy over its competitive weeds leaving it potentially more vulnerable to disease pressure.

"When you have fewer plants...you must be on top of your game [with weed control]," Doell adds.

All the recent interest in precision planting hasn't gone unnoticed by ag manufacturers and retailers.

Decisive Farming recently began working with FP Genetics, one of the bigger certified seed companies in Western Canada. FP customers who use the company's certified seed products will receive a free variable rate seeding prescription for their acreage. Schmaltz says the aim of the new program is to increase awareness of the benefits of precision planting technology.

"We're really excited about this partnership, and the fact it enables the guys who are going out to get new seed varieties on their farm to make sure they're really optimizing that performance in the field with the right fertility and seed rates in those areas of their fields," he says.

It was the growing interest in precision seeding that prompted Mark Stolk and his two brothers to expand their farm operation in 2011 to include a retail component. Central Alberta Precision Seeding now offers everything from seed drills and harrows to conveyors and high-speed discs from a number of manufacturers including SeedMaster, Madara and Elmer's.

### A Tailor-Made Solution

Stolk says one of the things he's most excited about is the plug-and-play product tanks featured on most SeedMaster products, which provide individual metering for seed and fertilizer.



Photo courtesy Geoff Doell

A custom-built disc for a corn planter for trials of seeding rates from 32,000 up to 120,000 seeds per acre.

"This way you have the scales underneath the seed tank and the fertilizer tank, so that as you seed the field you know how much product [you're] putting on, whereas up until a couple of years ago you just calibrated it manually and hoped for the best," he says.

Another recent development was the introduction of zone command technology in SeedMaster seed drills. Stolk says the 60-foot drill has 10 different sections which can be individually turned on or off at any given time and prevent wasting seed or fertilizer.

Clean Seed Capital Group has been garnering some serious attention in Western Canada because of its CX-6 Smart Seeder which allows growers to micro manage as little as half a foot per opener and deploy up to six different products at a time.

"The really unique part of it is that it actually meters the input products directly over every single opener in the ground," says Clean Seed CEO Graeme Lempriere.

"You are getting precisely the delivery rate and the seed rate and other product rate directly over every opener, which means you are putting exactly what you need on every foot of your field. We call it the world's largest printer. Instead of utilizing ink, it utilizes inputs."

Stolk believes precision planting is here to stay and says customer demand for newer, more precise planting equipment will spur future innovation.

"I think the next push here from guys is going to be wanting to get more accurate with your seed and fertilizer distribution," he says.

Doell agrees, adding the rising price of seed and equipment is forcing growers to continually look at ways of keeping a handle on their costs.

**Jim Timlick**

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# Battling Clubroot

Two varieties offer hope to Alberta canola producers in the fight against clubroot.

**CLUBROOT** continues to spread in Alberta, predominantly in the province's central region. Since 2009, clubroot-resistant canola varieties have played an important role in clubroot management. However, the efficacy of this vital tool is being challenged.

In 2013, several Alberta fields planted with clubroot-resistant varieties exhibited a high incidence of clubroot infection. University of Alberta researchers determined a pathotype shift had taken place, and the new pathotype, called 5X, had overcome the resistance trait in existing clubroot-resistant varieties. In addition, although it has similar traits to the previously identified pathotype 5, the 5X pathotype is much more virulent and poses a significant threat to the canola industry.

According to a number of Canola Council of Canada Canola Watch reports, soil samples analyzed by U of A researchers from 27 Alberta fields seeded to resistant varieties in 2014 also showed more than expected levels of gall formation. Of those fields, 16 had clubroot pathotypes, suggesting the clubroot in those fields had overcome the resistance trait. Preliminary testing indicated more than one different pathotype was responsible, as scientists were not able to confirm all pathotypes were 5X.

This population shift may be occurring independently in individual fields. Due to intense canola rotations and the pathogen's genetic diversity, within a few years' time, pathotypes not controlled by the resistance trait have been selected, leaving canola crops vulnerable to the disease.

However, the development of two new clubroot-resistant varieties could be significant in curbing clubroot spread and damage.

In January 2015, Canterra Seeds announced the launch of CS2000, a clubroot-resistant hybrid with a resistance rating to conventional pathotypes 2, 3, 5, 6 and 8 and an intermediate reaction to the new 5X pathotype.

According to Shaan Tsai, oilseed and pulse product development manager at Canterra Seeds, both Canola Performance Trial results and field-scale demonstration trials of the mid-season, clubroot-resistant variety exhibited high yields in clubroot zones across Alberta.

"All corners of the province, from the Peace through the clubroot zones of central Alberta and down to southern Alberta, have reported very strong yields from CS2000," says Tsai.

Up until this point, only a single gene mechanism was known to confer clubroot resistance in canola varieties. However, there may be more than one resistance gene at work in CS2000, says Tsai.

"According to the breeding team at DL seeds, who we partnered with on this variety, there is more than one clubroot-resistant gene at work. Right now, they're working hard to better characterize this resistance."

Seed that is rated resistant to clubroot disease exhibits less than 30 per cent infection, whereas seed rated susceptible will show more than 70 per cent infection. Seed given an intermediate reaction rating will have a level of resistance between 30 and 69 per cent.

This means, when seed rated intermediate reaction is planted in a field infected with 5X, clubroot galls may still form. Therefore, Tsai recommends a different approach to these fields.

"Canterra Seeds, along with the authorities tasked to manage the disease, do not recommend this product for 5X-infected fields. A minimum four-year rotation is needed in this situation. Rather, CS2000 is recommended prophylactically on fields where 5X hasn't yet been detected to reduce the likelihood that the 5X pathotype will gain a foothold in those fields," he says.

In 2015, CS2000 was put into the hands of growers who needed it most — those in the clubroot zones of Alberta. However, the new variety will be released across the province as well as the remaining western provinces this year, Tsai says.

## Another Significant Tool

Last October, Crop Production Services announced the launch of another significant tool for clubroot management for the 2016 growing season. According to Ryan McCann, CPS' director of

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seed, Proven Seed PV 580 GC offers high levels of resistance to multiple clubroot pathotypes, including conventional and 5X pathotypes, via multigenic mechanisms.

"PV 580 has two genes, or a multigenic approach, which gives a much wider spread of resistance in terms of the current clubroot pathotypes as well as some of the newly discovered 5X pathotypes. Based on our research, it has high levels of resistance to the known 5X pathotypes," says McCann.

"With multigenic resistance, you're covering your bases; if the pathotype overcomes one gene, you have backup with the other. In combination, they'll work together to be a lot more resistant to pathotypes in the field."

In terms of performance, PV 580 substantially out-yielded the check in Alberta's clubroot zones, says McCann. The PV 580 GC Genuity Roundup Ready hybrid was tested in more than 100 field-scale, producer-managed sites. The hybrid was also tested successfully against the 5X pathotype last summer. The new variety will be available to growers in central, north central and central Alberta in 2016.

While PV 580 seed can be planted in fields known to contain the 5X pathotype, McCann warns there is no substitute for responsible rotations.

"Ultimately, your best form of combat to any clubroot situation is a responsible canola rotation. Growing canola once every four years is the best tool in your toolbox to combat this disease," he says.

Using PV 580 preventatively in fields at high risk of clubroot infection will also help support sustainable clubroot management.

Although a multigenic approach to clubroot-resistant varieties

**"With multigenic resistance, you're covering your bases; if the pathotype overcomes one gene you have backup with the other. In combination, they'll work together to be a lot more resistant to pathotypes in the field."**

—Ryan McCann

could lengthen the durability of the resistance trait when compared with single gene-resistant varieties, clubroot pathotypes continue to evolve, and seed companies continue to work with novel genes to create new hybrids to mitigate clubroot damage and spread.

"It's our job as seed companies and breeders to stay ahead of the 5X pathotypes. This is just the first step in terms of battling clubroot and providing new varieties on the market," says McCann.

Kari Belanger



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# Varieties of Cereal and Oilseed Crops for Alberta

**THIS** annual publication provides information on cereal and oilseed variety performance within Alberta and northeastern British Columbia. Important agronomic characteristics and disease resistance information is provided for varieties of wheat, barley, oat, rye, triticale, flax and canola.

The Alberta Regional Variety Testing program is coordinated by the Alberta/British Columbia Grain Advisory Committee (ABCGAC) and Alberta Agriculture and Forestry (AAF). Funding for the program is provided by AAF, the Alberta Seed Growers' Association, the Alberta Seed Processors and entry fees for the varieties being tested.

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

## Yield Results and Reporting

Variety choice should never be based solely on yield performance, as it is only one factor that affects net return. The genetic yield

potential of a variety is often masked by numerous factors, some of which can be controlled through variety choice and others through astute agronomic management. Producers are encouraged to consider other characteristics such as maturity, plant height, lodging and disease/pest resistance when deciding which varieties to grow. Long-term satisfaction with a variety is often related to non-yield characteristics.

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



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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.
- Significant statistical differences relative to the check are indicated.

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

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

## Maturity Ratings

As is the case for yield, growing conditions have a tremendous influence on the date of maturity. For example, a variety of CWRS wheat may mature in 98 days in Lethbridge, but take 103 days in Edmonton. Likewise, a two day difference in maturity between varieties in southern Alberta may amount to a five day difference in a more northerly location. To take this into account, maturity is expressed using a five-category scale: Very Early, Early, Medium, Late and Very Late. To aid producers with this relative scale, the

average number of days to maturity for the check is reported. Note that this scale is different for each crop type. For example, an early barley variety will mature much earlier than an early flax variety.

## 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 (see p.8). The best approach is to determine the TKW 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 are shown with a new  logo. The use of the  logo indicates that PBR has been applied for. For more information on Plant Breeders' Rights, please see [www.pbrfacts.ca](http://www.pbrfacts.ca) or the Canadian Food Inspection Agency web-site at [www.inspection.gc.ca](http://www.inspection.gc.ca).

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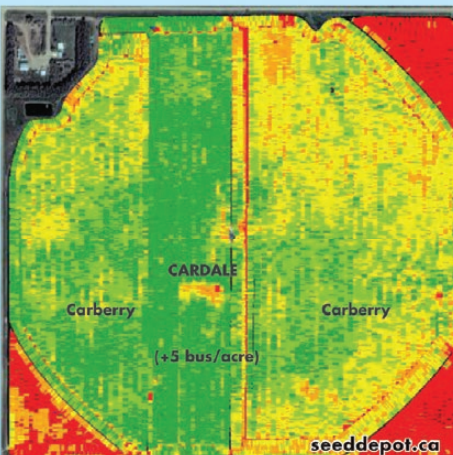
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## Canola

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

## Diseases, Seed Treatment and Seed Testing

- Disease ratings are compiled from various data sources in Alberta and other Prairie provinces.
- 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, common wheat, triticale, barley and oat. Corn is a host of *F. graminearum* and can serve as a source of infection when residue is left on the ground. 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 if required. Producers are advised to choose varieties with the best FHB tolerance whenever possible and always use best management practices to slow the spread of this disease.
- Seed used in the Alberta Regional Variety Testing program comes with a "fusarium-free" certificate and trials are inspected for FHB during the growing season.

## Laboratories participating in the FHB testing program:

- 20/20 Seed Labs Ltd., Nisku, 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

## Abbreviations and Rating Scales

- TSW = Thousand seed weight
- XX = Insufficient data to describe
- Maturity: VE = Very Early, E = Early, M = Medium, L = Late, VL = Very 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 Forestry 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/British Columbia Grain Advisory Committee

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Alberta Agriculture and Forestry



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# MALTING BARLEY

Variety	2 or 6 row	Awn Type	Overall Station Years of Testing	Overall Yield	Yield Category (% AC Metcalfe)				Maturity Rating	Agronomic Characteristics:			
					Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)		Test Weight (lb/bu)	TSW (g)	Height (cm)	Resistance to Lodging
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
AC Metcalfe (bu/ac)				99	47	78	103	133					
AC Metcalfe ☼	2	R		100	100	100	100	100	M	51	46	79	G
CDC Bow ▲	2	R	27	103	XX	106	104	101	M	51	49	73	VG
CDC Platinum Star ▲	2	R	27	105+	XX	103	107+	103	M	50	49	78	F
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
AAC Synergy ☼	2	R	42	114+	XX	115+	115+	113+	M	51	48	75	F
Bentley ☼	2	R	77	105+	109	102	105+	106+	M	52	47	81	G
CDC Clear ☼	2	R	43	95-	XX	92-	100	XX	L	62	47	85	G
CDC Copeland ☼	2	R	137	103+	96	101	106+	104+	M	51	47	81	F
CDC Kindersley ☼	2	R	47	104+	XX	102	104	104+	E	53	43	78	G
CDC Meredith ☼	2	R	65	107+	102	108+	108+	107+	L	51	46	76	F
CDC PolarStar ☼	2	R	43	101	XX	103	105+	97	M	52	44	79	G
Cerveza ☼	2	R	49	109+	XX	109+	108+	109+	M	51	46	74	F
Harrington †	2	R	284	93-	96-	94-	93-	91-	M	51	44	78	F
Major ☼	2	R	72	107+	104	108+	107+	106+	M	51	45	73	G
Merit 57 ☼	2	R	87	109+	110+	108+	109+	111+	VL	51	44	79	F
Newdale ☼	2	R	94	105+	106	104+	105+	106+	M	52	46	73	F
CDC Anderson ☼ †	6	R	44	96	XX	96	92	100	M	50	39	80	G
CDC Mayfair ☼ †	6	R	56	97	XX	93-	96	104	E	49	40	76	G
LEGACY ☼	6	SS	122	99	93	95-	102	103	M	49	39	82	G
Tradition ☼ †	6	SS	121	98	90-	95-	101	103	E	50	40	81	G

**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 2016-2017 CMBTC Recommended Malt Barley Variety List for more information. CDC Clear is a hulless malting variety. New registrations: CDC Platinum Star and CDC Bow (TR11127). †-Flagged for possible removal in 2017.

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

Grower listings were prepared by the Canadian Seed Growers' Association for varieties eligible for sale in Canada and crops issued certificates at the time of publication. Breeding institution and distributor listings were prepared by the publisher. 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.



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# MALTING BARLEY — *CONTINUED*

Disease Tolerance:

Net Blotch:

Variety	Loose Smut	Other Smuts	Root Rot	Scald	Spot Form	Net Form	FHB
<b>Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)</b>							
<b>AC Metcalfe (bu/ac)</b>							
<b>AC Metcalfe</b> ☼	<b>R</b>	<b>I</b>	<b>I</b>	<b>S</b>	<b>I</b>	<b>S</b>	<b>I</b>
CDC Bow ▲	S	I	MS	MS	MR	S	MS
CDC Platinum Star ▲	R	R	S	S	MR	I	MR
<b>Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)</b>							
AAC Synergy ☼	S	I	I	S	R	MR	MS
Bentley ☼	MS	MR	MR	S	R	MS	MS
CDC Clear ☼	R	R	I	S	R	MS	MR
CDC Copeland ☼	MS	I	I	S	I	I	I
CDC Kindersley ☼	S	R	I	S	MR	MS	I
CDC Meredith ☼	R	MR	MR	S	R	S	I
CDC PolarStar ☼	S	R	MS	S	MR	S	MR
Cerveza ☼	R	R	I	S	MR	MS	I
Harrington †	MS	MS	I	S	MS	S	MR
Major ☼	R	MR	I	MS	MR	I	I
Merit 57 ☼	MS	S	I	MS	MR	MS	MS
Newdale ☼	S	MR	MR	MS	MR	I	I
CDC Anderson ☼ †	MR	R	I	MS	MR	MS	I
CDC Mayfair ☼ †	S	MR	I	S	MR	MS	MS
LEGACY ☼	I	MR	MR	S	MR	S	MS
Tradition ☼ †	S	MR	MR	S	I	S	S

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**W.A. GRAIN & PULSE SOLUTIONS**



# FEED AND FOOD BARLEY

Variety	2 or 6 row	Awn Type	Overall Station Years of Testing	Overall Yield	Yield Category (% AC Metcalfe)				Ma-turity Rating	Agronomic Characteristics:			
					Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)		Test Weight (lb/bu)	TSW (g)	Height (cm)	Resistance to Lodging
GENERAL PURPOSE - HULLED													
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
AC Metcalfe (bu/ac)				99	47	78	103	133					
AC Metcalfe ☼	2	R		100	100	100	100	100	M	51	46	79	F
Canmore ☼	2	R	40	107+	XX	104	111+	108+	M	52	49	73	G
Champion ☼	2	R	151	113+	124+	113+	112+	110+	M	52	49	76	G
Amisk ☼	6	SS	40	105+	XX	105	104	108+	M	49	46	69	VG
Vivar ☼	6	R	160	109+	97	105+	110+	115+	M	50	44	73	VG
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
Brahma ☼	2	R	87	111+	112+	109+	113+	111+	M	53	47	74	G
Busby ☼	2	R	45	104+	107	103	106	103	M	53	49	78	G
CDC Austenson ☼	2	R	65	112+	108	113+	111+	112+	L	54	46	78	G
CDC Bold †	2	R	77	106+	111+	107+	106+	102	M	53	48	72	VG
CDC Coalition ☼	2	R	57	110+	107	112+	108+	109+	L	53	47	74	G
CDC Cowboy ☼	2	R	75	95-	107	94-	93-	96-	L	52	55	103	F
CDC Dolly †	2	R	184	101	97	100	103+	100	M	53	49	74	F
CDC Maverick ☼	2	S	43	95-	XX	90-	97	96	M	54	55	98	F
CDC Trey ☼	2	R	106	103+	101	105+	101	105+	M	52	50	80	G
CONLON ☼	2	S	63	94-	97	93-	93-	96-	VE	52	52	80	G
Gadsby ☼	2	R	45	112+	XX	114+	114+	108+	M	53	51	83	F
Ponoka ☼	2	R	120	108+	101	107+	110+	109+	L	51	46	80	G
Seebe	2	R	229	101	97	100	102	100	VL	52	50	86	G
XENA ☼	2	R	271	112+	111+	109+	114+	112+	M	52	49	77	G
AC Harper ☼	6	SS	166	103+	95	96-	102	111+	M	48	40	80	G
AC Ranger	6	S	48	107+	101	99	118+	107+	L	49	43	74	F
AC Rosser ☼ †	6	S	166	108+	101	102	109+	113+	M	48	41	82	G
Breton ☼ †	6	S	42	107+	97	108	106+	110+	M	49	45	80	F
Chigwell ☼	6	S	43	104	XX	98	106	111+	M	49	41	76	G
Muskwa ☼	6	S	44	105+	XX	103	105	110+	M	50	42	73	G
Sundre ☼	6	S	72	110+	100	105	112+	117+	L	51	43	86	G
Trochu ☼	6	S	136	107+	101	102	109+	112+	M	49	41	78	G
HULLESS													
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)													
CDC Carter ☼	2	R	45	97-	97	99	94-	XX	M	62	39	77	VG
CDC McGWire ☼ †	2	R	107	93-	88-	93-	99	XX	M	61	39	80	VG
Falcon ☼	6	S	181	83-	72-	83-	91-	89	E	58	35	68	VG
Tyto †	6	S	72	81-	79-	84-	96	96	M	55	40	73	VG

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. In hullless varieties the hull is left in the field, thus grain yields comparable to hulled varieties are 9-12% lower. Handling of hullless varieties should be minimized to avoid seed damage. CDC Carter, CDC McGwire, Falcon and Tyto are normal starch barleys suitable for food use. †-Flagged for possible removal in 2017.

# FEED AND FOOD BARLEY— CONTINUED

Variety	Disease Tolerance:						
	Loose Smut	Other Smuts	Root Rot	Scald	Net Blotch:		FHB
					Spot Form	Net Form	
GENERAL PURPOSE - HULLED							
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
AC Metcalfe (bu/ac)							
AC Metcalfe ☼	R	I	I	S	I	S	I
Canmore ☼	R	R	I	MR	MR	MS	I
Champion ☼	S	R	MR	S	I	S	I
Amisk ☼	S	MS	MS	I	MR	I	S
Vivar ☼	I	R	MR	I	MR	R	S
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
Brahma ☼	MS	R	MR	S	I	I	I
Busby ☼	S	MR	S	I	MR	MS	I
CDC Austenson ☼	S	R	I	S	R	MS	I
CDC Bold †	MS	MR	MR	S	I	S	S
CDC Coalition ☼	R	R	I	S	MR	S	I
CDC Cowboy ☼	MS	MR	I	MS	MR	I	MR
CDC Dolly †	S	I	I	I	MS	S	MR
CDC Maverick ☼	S	R	I	MS	MR	I	I
CDC Trey ☼	MS	R	MR	MS	R	I	I
CONLON ☼	I	I	MR	S	MR	I	MR
Gadsby ☼	R	R	I	R	MR	MS	I
Ponoka ☼	R	R	I	MR	MR	MS	I
Seebe	S	R	I	MR	MS	S	MR
XENA ☼	MS	MS	MR	S	I	S	MR
AC Harper ☼	MS	I	I	I	I	I	MS
AC Ranger	MS	I	MR	MS	MR	I	S
AC Rosser ☼ †	MS	R	MR	S	MR	I	S
Breton ☼ †	MS	MR	I	I	MR	I	S
Chigwell ☼	MS	MR	MS	MR	MR	I	S
Muskwa ☼	MS	R	MS	MR	MR	MS	S
Sundre ☼	MS	R	MS	R	I	MS	S
Trochu ☼	MS	MR	MR	I	MR	S	I
HULLLESS							
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Metcalfe)							
CDC Carter ☼	R	R	S	MS	MR	I	I
CDC McGwire ☼ †	MS	MR	MR	I	MR	I	MR
Falcon ☼	MS	MR	I	I	I	I	S
Tyto †	S	R	I	MS	I	S	MS

# BARLEY

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Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696				C
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<b>CDC TREY</b> ☼				
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<b>CDC YORKTON</b>				
<b>BI: CDC, Dist: N/A</b>				
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<b>BI: AAFC (Brandon), Dist: Mastin Seeds</b>				
Mastin, Robert B. / Sundre / AB / (403) 556-2609	S			R
<b>CHAMPION</b> ☼				
<b>BI: Highland Speicalty Grains, Dist: CPS (Canada) Inc.</b>				
Schermund, Donnie / Sturgeon County / AB / (780) 967-2850				R
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<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>				
Anderson, Ken & Evelyn / Barrhead / AB / (780) 674-5670				C
Feenstra, Lloyd / Barons / AB / (403) 757-3737				C
McDonald, Grant / Didsbury / AB / (403) 335-8188				C
Webber, Curtis / Stony Plain / AB / (780) 963-6897				C
<b>CONLON</b> ☼				
<b>BI: NSDU, Dist: Seed Depot</b>				
Airth, Jock & Linda / Brooks / AB / (403) 362-4372				C
<b>GADSBY</b> ☼				
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>				
Harris, William & L., Thomas & A. / Beaverlodge / AB / (780) 354-2823	S	F		C
Ohm, Norman / Thorsby / AB / (780) 985-2263				C
Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617			F*	C
Webber, Curtis / Stony Plain / AB / (780) 963-6897				R C
<b>LEGACY</b> ☼				
<b>BI: Busch Ag Res., Dist: CPS (Canada) Inc./FP Genetics</b>				
Wood, Robert & Patricia & Marshall / Bowden / AB / (403) 224-3928	S			C
<b>MERIT 57</b> ☼				
<b>BI: Busch Ag Res., Dist: Canterra Seeds</b>				
Haney, Shaun / Picture Butte / AB / (403) 738-4517				C
Sendziak, Don P. & Stephen / Edmonton / AB / (780) 434-1322			F*	C
Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358			F	C
<b>NEWDALE</b> ☼				
<b>BI: AAFC (Brandon), Dist: FP Genetics</b>				
Dalton, Dennis / Wainwright / AB / (780) 842-2361				C
King, Harold & Webb, David Gordon / Three Hills / AB / (403) 443-7330				R
<b>PONOKA</b> ☼				
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- Flax:** CDC Sorrel
- Peas:** CDC Raezer, CDC Tetris, CDC Amarillo

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## SUNDRE

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

Feenstra, Lloyd / Barons / AB / (403) 757-3737  
Hallett, Dale R. & Richard / Carstairs / AB / (403) 337-3072  
Jones, Danny / Beaverlodge / AB / (780) 354-8089  
Lyster, Norman / Stettler / AB / (403) 742-4456  
Mastin, Robert B. / Sundre / AB / (403) 556-2609

## TROCHU

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

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Smith, Gary W. / Eckville / AB / (403) 746-5878  
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## VIVAR

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

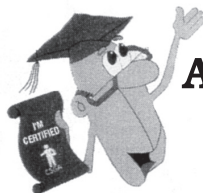
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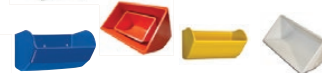
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## OATS

Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% CDC Dancer)				Agronomic Characteristics					Tolerance to Smuts
			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)	TSW (g)	Height (cm)	Resistance to Lodging	
MILLING												
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to CDC Dancer)												
CDC Dancer (bu/ac)		93	49	84	112	145						
CDC Dancer 🌾		100	100	100	100	100	E	40	37	93	G	R
AAC Justice 🌾	28	104	XX	99	109+	XX	M	42	36	91	G	R
Bia 🌾	18	102	XX	104	XX	XX	M	40	34	87	G	XX
CDC Norseman ▲	18	100	XX	100	XX	XX	E	40	38	84	G	MS
CS Camden ▲	18	110+	XX	109+	XX	XX	L	40	39	81	G	I
Nice	18	99	XX	98	XX	XX	M	41	38	87	G	XX
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to CDC Dancer)												
AC Juniper	80	104+	102	104	106+	105+	E	41	38	94	VG	I
AC Morgan	95	111+	110+	110+	111+	115+	M	40	40	92	VG	I
Bradley 🌾	31	104+	XX	103	108	106	M	39	39	92	VG	R
CDC Boyer	89	102	103	102	100	105	M	39	42	101	G	MS
CDC Minstrel 🌾	61	104+	103	103	105	105+	M	39	38	88	VG	R
CDC Orrin 🌾	52	109+	113+	107+	107+	XX	M	41	40	84	G	R
CDC Ruffian 🌾	28	110+	110	105	116+	XX	M	40	39	94	G	R
CDC Seabiscuit 🌾	30	111+	124	106	108	108	M	39	41	101	G	MR
CDC Weaver 🌾	44	104	108+	103	100	100	M	40	43	91	F	R
Derby	79	101	103	102	96-	105	L	41	39	103	G	MS
Jordan 🌾	36	112+	112+	109+	117+	XX	VL	38	44	87	G	R
Souris 🌾	28	110+	120+	103	111	XX	M	41	34	91	VG	R
Stride 🌾	30	104+	101	102	107	106	M	42	35	104	G	R
Triactor 🌾	47	110+	109	108+	114+	110+	M	38	38	89	G	R
FEED												
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to CDC Dancer)												
AC Mustang *	108	114+	118+	112+	110+	116+	L	42	37	103	G	I
CDC Nasser	31	116+	132	107	115+	110	L	39	36	98	G	MR
Lu *	58	100	99	98	99	108	VE	41	39	85	G	R
FORAGE												
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to CDC Dancer)												
CDC Haymaker	28	104	XX	103	105	XX	L	39	40	100	F	MR
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)												
CDC Baler *	42	99	96	106	96	XX	L	40	43	99	XX	S
Murphy 🌾 *	51	95-	93	96	97	94	M	39	36	108	XX	S

**REMARKS:** 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: Akina (CFA1112), CDC Norseman (OT3066). Insufficient data to describe: Akina. \* Yield figures based on direct and indirect comparisons with CDC Dancer.



## OATS

## AC JUNIPER

BI: AAFC (Lacombe), Dist: Mastin Seeds

Tolway, Wilfred / Clairmont / AB / (780) 567-2422

## AC LU

BI: N/A, Dist: SeCan Members

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

## AC MORGAN

BI: AAFC (Lacombe), Dist: SeCan Members

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

Hill, Gordon P. &amp; Blair / Taylor / BC / (250) 789-3469

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

Kalinsky, Dwayne / Iron River / AB / (780) 826-4452

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

Knight, William, Craig &amp; Brian / Tees / AB / (403) 784-3633

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

McDonald, Gerald / Co. Of Grande Prairie #1 / AB / (780) 538-3868

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

Nemetz, Charlie &amp; Jerritt &amp; Lewis &amp; Brandon / Stettler / AB / (403) 742-0436

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

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

Selte, Donald / Vermilion / AB / (780) 853-2484

Tomlinson, Chelsea / Redwater / AB / (780) 777-5885

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

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

Webber, Curtis / Stony Plain / AB / (780) 963-6897

## AC MUSTANG

BI: AAFC (Lacombe), Dist: Mastin Seeds

Feenstra, Lloyd / Barons / AB / (403) 757-3737

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## CDC BALER

BI: CDC, Dist: FP Genetics

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

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

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

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## CDC HAYMAKER

BI: CDC, Dist: SeCan Members

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

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## CDC NASSER

BI: CDC, Dist: N/A

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

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Gibson, Donald / Sangudo / AB / (780) 785-2214

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

## CDC SEABISCUIT

BI: CDC, Dist: Canterra Seeds

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

Sendziak, Don P. &amp; Stephen / Edmonton / AB / (780) 434-1322

## CS CAMDEN

BI: Lantmannen SW Seed AB, Dist: Canterra Seeds

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

## DERBY

BI: CDC, Dist: Mastin Seeds

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

## MURPHY

BI: AAFC, Dist: SeCan Members

Webber, Curtis / Stony Plain / AB / (780) 963-6897

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

## STRIDE

BI: AAFC (Winnipeg), Dist: SeCan Members

Jones, Greg Thomas / Ponoka / AB / (403) 783-6495

## TRIACOR

BI: SW Seed Ltd., Dist: Canterra Seeds

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

## WALDERN

BI: N/A, Dist: SeCan Members

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# TRITICALE

## AC ULTIMA

BI: AAFC, Dist: FP Genetics

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## BREVIS

BI: AAFC, Dist: N/A

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

## BUNKER

BI: FCDC (Lacombe), Dist: FP Genetics

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

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

## PRONGHORN

BI: AARD, Dist: No Rep

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

## SUNRAY

BI: AAFC, Dist: N/A

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

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

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

Markert Seeds / Vulcan / AB / (403) 485-6708

## TAZA

BI: FCDC (Lacombe), Dist: Solick Seeds

Corns, Bryan & Gary / Grassy Lake / AB / (403) 655-2464

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

## TYNDAL

BI: FCDC (Lacombe), Dist: SeCan Members

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

Dyck, Heinz W. & Colin & Alan & Kelton / Rosemary / AB / (403) 378-3321

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# CANADA WESTERN AMBER DURUM

Variety	Overall Station Years of Testing	Yield Category (% Strongfield)				Agronomic Characteristics:								Disease Tolerance:				
		Overall Yield	Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Mat. Rating	Prot. %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
											Ldg.	Sprt.						
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to Strongfield)																		
Strongfield (bu/ac)		63	36	61	96													
Strongfield 🌾		100	100	100	100	M	14	62	45	84	F	F	S	I	MR	MS	S	
AAC Cabri ▲	19	96-	98	93-	XX	M	0.1	63	44	84	G	P	MR	R	R	I	MS	
AAC Current 🌾	30	99	104	98	XX	M	0	62	44	85	F	F	MS	MR	MR	I	MS	
AAC Durafield ▲	22	99	XX	99	XX	M		64	46	76	F	F	S	R	XX	I	S	
AAC Spitfire ▲	19	99	100	97	XX	M	-0.2	62	44	80	G	P	MS	R	R	MS	S	
CDC Carbide VB ▲	19	101	104	100	XX	M	-0.2	63	42	84	G	P	MS	R	R	MS	MS	
CDC Fortitude ▲	32	102	102	102	103	M	-0.6	63	45	81	G	F	MS	R	R	MS	MS	
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to Strongfield)																		
AAC Marchwell VB 🌾	23	101	XX	97	99	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	
AC Navigator 🌾	65	95-	102	93-	93-	M	XX	63	45	77	G	G	S	R	R	S	S	
Brigade 🌾	69	103	105	103	102	L	XX	63	48	88	G	F	MS	R	MR	I	MS	
CDC Desire 🌾	34	102	106	101	101	E	0	62	44	83	F	G	MS	R	MR	I	S	
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	MR	R	I	MS	
Eurostar 🌾	47	102	100	105+	99	L	XX	64	47	88	G	F	MS	R	R	I	MS	
Transcend 🌾	35	102	103	101	100	M	XX	62	47	89	F	F	S	R	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). Strongfield yields about 10% higher than AC Barrie in areas of best adaptation. Durum varieties are generally more susceptible to Fusarium Head Blight than CWRS wheat varieties. AAC Cabri, AAC Raymore 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. New CWAD registrations: AAC Congress (DT856), CDC Precision (DT577), CDC Dynamic (DT578) and CDC Alloy (DT579). Insufficient data to describe AAC Congress, CDC Precision, CDC Dynamic, and CDC Alloy. XX-Insufficient data to describe. †-Flagged for possible removal in 2017.

## WHEAT - DURUM

	S	F	R	C
<b>AAC CONGRESS</b> 🌾*				
BI: AAFC (Swift Current), Dist: N/A				
Welsh, Donald Alan / Milk River / AB / (403) 647-2228	S			
<b>AAC CURRENT</b> 🌾				
BI: AAFC (Swift Current), Dist: Alliance Seed				
Hierath, Michael Wayne & Philip / Milk River / AB / (403) 647-2347			R	C
Stamp Seeds / Enchant / AB / (403) 739-2233				C*
<b>AAC RAYMORE</b> 🌾				
BI: AAFC (Swift Current), Dist: SeCan Members				
Brummelhuis, Tara / Vauxhall / AB / (403) 654-2734				C
Hierath, Michael Wayne & Philip / Milk River / AB / (403) 647-2347				C
Hoffmann, Curtis / Oyen / AB / (403) 664-9617				C
Kiffiak, Nathan John / Foremost / AB / (403) 867-2338			R	C
Mercer Seeds Ltd. / Lethbridge / AB / (403) 327-9736				C
Welsh, Donald Alan / Milk River / AB / (403) 647-2228		F		
Willms, Kevin J. / Grassy Lake / AB / (403) 655-2450	S	F	R	C
<b>AAC SPITFIRE</b> 🌾*				
BI: AAFC (Swift Current), Dist: N/A				
Kiffiak, Nathan John / Foremost / AB / (403) 867-2338	S		R	
Stamp Seeds / Enchant / AB / (403) 739-2233		F	R	
Welsh, Donald Alan / Milk River / AB / (403) 647-2228			R	
Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434	S	F	R	
<b>CDC BRIGADE</b> 🌾				
BI: CDC, Dist: CPS (Canada) Inc.				
Willms, Kevin J. / Grassy Lake / AB / (403) 655-2450		F		
<b>CDC ALLOY</b>				
BI: CDC, Dist: N/A				
Benci, Dennis / Carmangay / AB / (403) 643-2294	S			
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900	S			
Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696	S			
<b>CDC FORTITUDE</b> 🌾*				
BI: CDC, Dist: CPS (Canada) Inc.				
Willms, Kevin J. / Grassy Lake / AB / (403) 655-2450				F
<b>CDC PRECISION</b>				
BI: CDC, Dist: N/A				
Mercer Seeds Ltd. / Lethbridge / AB / (403) 327-9736				S
<b>CDC VIVID</b> 🌾				
BI: CDC, Dist: CPS (Canada) Inc.				
Mercer Seeds Ltd. / Lethbridge / AB / (403) 327-9736				F
Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434				R
Willms, Kevin J. / Grassy Lake / AB / (403) 655-2450				C
<b>ENTERPRISE</b> 🌾				
BI: AAFC (Swift Current), Dist: Canterra Seeds				
Van Roessel, William & Jean / Bow Island / AB / (403) 545-6018				R
Welsh, Stuart Jason / Milk River / AB / (403) 647-2228				C
<b>STRONGFIELD</b> 🌾				
BI: AAFC (Swift Current), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900				C
Crooymans, John, Joseph & Andrew / Bow Island / AB / (403) 580-7264				C
Hierath, Michael Wayne & Philip / Milk River / AB / (403) 647-2347				C
Huvenaars, Carl / Hays / AB / (403) 725-2213				C
Willms, Kevin J. / Grassy Lake / AB / (403) 655-2450				C
<b>TRANSCEND</b> 🌾				
BI: AAFC (Swift Current), Dist: FP Genetics				
Benci, Dennis / Carmangay / AB / (403) 643-2294				R
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900				C
Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696				C
Markert Seeds / Vulcan / AB / (403) 485-6708				C
Sim, Darwin & Derek / Ponoka / AB / (780) 372-2111				C
Strain, Arthur George / Foremost / AB / (403) 867-2227				C
Welsh, Donald Alan / Milk River / AB / (403) 647-2228				C



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# CANADA WESTERN RED SPRING

Variety	Overall Station Years of Testing	Yield Category (% AC Barrie)				Agronomic Characteristics:								Disease Tolerance:					
		Overall Yield	Low < 45 (bu/ac)	Medium 45-70 (bu/ac)	High > 70 (bu/ac)	Mat. Rating	Protein %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Ldg.	Sprt.						
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																			
AC Barrie (bu/ac)		59	34	55	78														
AC Barrie ☼		100	100	100	100	M	14.1	64	37	87	N	G	G	MR	I	S	MS	I	
5605HR CL ☼	43	109+	XX	114+	106+	M	-0.2	64	38	91	Y	G	XX	R	MR	I	MS	MR	
AAC Connery ▲	28	105	XX	105	107	E	0	62	39	78	N	VG	G	MR	I	R	I	MR	
AAC Prevail	28	105+	XX	106	105	L	-0.5	64	37	91	Y	G	G	S	S	R	MS	I	
Carberry ☼	91	107+	116+	105	106+	L	-0.1	64	39	77	Y	VG	F	MR	R	MR	MS	MR	
CDC VR Morris ☼	41	109+	105	111+	107	M		65	37	84	N	G	P	I	I	XX	I	MR	
CDC Titanium VB ▲	41	108+	XX	112+	103	E	0.5	65	41	87	Y	G	P	MS	I	R	MS	MR	
Coleman	43	101	XX	105	98	M	0.0	64	37	93	Y	F	P	S	S	MR	I	MR	
Go Early ▲	28	105+	XX	106	104	VE	0.2	63	38	90	Y	G	P	I	MR	I	S	I	
Thorsby ▲	43	106+	XX	110	105	E	-0.5	64	38	89	N	G	F	I	S	R	MS	I	
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																			
5603HR ☼	63	105+	104	107+	104+	L	-0.5	63	33	87	Y	G	VG	MS	I	MS	MR	I	
5604HR CL ☼	76	99	102	98	99	E	-0.7	63	33	87	Y	G	G	MS	I	XX	MS	I	
AAC Bailey ☼	58	103	102	104	103	M	-0.6	63	37	92	N	G	G	MS	I	I	I	I	
AAC Brandon ▲	41	114+	106	117+	113+	M	-0.2	64	38	81	Y	VG	P	MR	S	MR	I	MR	
AAC Elie ▲	41	115+	107	120+	112+	M	-0.1	64	38	81	Y	G	F	I	I	MR	I	I	
AAC Redwater ▲	41	103	96	106	104	E	0.0	64	35	87	Y	G	VG	MS	I	MR	MS	I	
AC Eatonia ☼ †	78	94-	87-	97	92-	M	0.4	62	35	92	N	P	G	I	MR	I	MS	XX	
AC Elsa ☼ †	110	103+	99	105	104	M	0.2	62	35	89	N	G	F	MR	I	I	I	MS	
AC Intrepid ☼	107	102	98	103	105+	E	0.0	62	39	90	N	G	P	I	MR	MR	MS	MS	
AC Splendor †	153	95-	93-	96-	98	VE	0.9	61	37	89	N	F	F	I	I	I	I	MS	
Alvena ☼	68	101	100	101	103	E	0.1	63	37	90	N	G	P	MR	MR	I	XX	MS	
Cardale ☼	41	105+	100	106+	105	M	-0.3	63	37	84	Y	G	G	I	S	MS	MS	MR	
CDC Abound ☼	88	110+	108+	110+	112+	M	-0.1	63	40	82	Y	G	F	I	I	MS	MS	S	
CDC Go	92	110+	103	111+	116+	M	-0.1	61	42	83	Y	G	VP	MS	I	MR	S	MS	
CDC Imagine ☼ †	76	104+	102	104	109+	M	0.1	61	37	83	N	G	F	MR	MR	I	MS	S	
CDC Kernen ☼ †	61	107+	110	102	110+	M	-0.3	63	37	92	Y	G	F	R	I	I	MS	I	
CDC Osler †	74	106+	103	106+	108+	E	0.0	61	35	85	N	G	F	MR	MR	I	I	S	
CDC Plentiful ☼	41	106+	100	108+	106+	M	-0.2	64	35	87	N	VG	P	R	I	MR	I	MR	
CDC Stanley ☼	76	113+	114+	114+	113+	M	-0.8	63	34	87	N	G	G	MR	S	I	I	MS	
CDC Thrive ☼	66	108+	107	107+	110+	M	-0.4	63	36	88	N	G	P	MR	I	I	I	MS	
CDC Utmost VB ☼	53	112+	115+	112+	111+	M	-0.2	64	36	85	N	G	G	MS	S	I	I	MS	
Fieldstar VB ☼ †	50	102	102	102	102	M	-0.4	63	33	88	Y	F	VG	I	I	MS	I	I	
Glenn ☼	61	104	110+	100	104	L	-0.2	65	36	85	Y	VG	F	I	I	MR	I	I	
Goodeve VB ☼	96	105+	107+	103	104	M	-0.1	62	36	88	N	VG	G	MR	MS	I	MS	S	
Harvest ☼	118	102	98	103	104	M	-0.1	62	36	84	N	VG	VG	MR	S	MR	MS	S	
Infinity ☼ †	74	104+	104	104+	106+	M	-0.4	62	33	89	N	G	G	MR	MR	MS	MS	S	
Kane ☼ †	51	99	95-	98	102	M	0.4	64	36	85	Y	G	VG	MS	I	I	I	I	
Katepwa	342	98-	97-	98-	98-	E	-0.2	62	35	93	N	F	F	MR	MR	MS	MS	I	
Lillian ☼	87	104+	111+	100	104	M	0.2	61	37	86	N	F	G	I	MR	R	MR	S	
Muchmore ☼	53	111+	119+	107	110	L	-0.9	63	37	75	Y	VG	G	MR	R	MR	MS	MS	
Park †	45	97	91-	98	102	VE	-0.2	62	35	92	N	F	G	MR	XX	MS	MS	S	
Peace	53	100	100	97	103	M	0.1	63	37	92	N	G	P	R	R	MR	XX	S	
Shaw VB ☼	53	112+	116+	109+	113+	M	-0.9	63	37	92	N	G	G	S	MR	I	MS	MS	
Stettler ☼	69	112+	119+	109+	111+	M	-0.3	63	37	84	Y	G	G	R	I	I	S	MS	
Superb ☼	184	112+	110+	112+	115+	L	-0.4	62	42	85	Y	G	F	I	MR	S	S	MS	
SY433 ☼	44	104	101	104	104	M		64	39	95	Y	G	G	I	S	XX	I	MR	
Unity VB ☼	71	110+	111+	110+	111+	M	-0.7	64	36	89	Y	F	G	MS	R	MS	MS	I	
Vesper VB ☼	45	106+	106	108+	104	M	-1.5	63	37	90	Y	F	F	I	S	S	I	I	
Waskada ☼ †	67	100	101	98	102	M	0.1	64	37	92	Y	F	VG	MR	R	MS	MS	MR	
WR859 CL ☼	79	106+	110+	103	107+	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 will be reclassified to a new milling wheat class, effective August 1, 2018. The varieties affected are AC Abbey, AC Cora, AC Eatonina, 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. For more information see the Canadian Grain Commission website [www.grainscanada.gc.ca](http://www.grainscanada.gc.ca). The varieties Elgin ND, Faller and Prosper (insufficient data to describe) have been granted interim registration and placed in the Canada Western Interim Wheat class. A permanent class designation is expected later in 2016. The long-term average maturity for AC Barrie is 106 days and rated as Medium (M). 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. AC Eatonina and Lillian have a solid stem that confers resistance to the wheat stem sawfly. 5604HR CL, 5605HR CL, CDC Abound, CDC Imagine, CDC Thrive and WR859 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 Cameron VB (BW485), AAC Connery (PT245), AAC Jatharia VB (BW483), AAC Prevail (BW462), CDC Bradwell (BW472), Go Early (PT769). Insufficient data to describe: AAC Cameron VB, CDC Bradwell, AAC Whitefox. †-Flagged for possible removal in 2017.

# CANADA WESTERN HARD WHITE SPRING

Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% AC Barrie)			Agronomic Characteristics:										Disease Tolerance:			
			Low < 45 (bu/ac)	Medium 45-70 (bu/ac)	High > 70 (bu/ac)	Mat. Rating	Protein %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Ldg.	Sprt.						
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																			
CDC Whitewood ▲	43	107+	XX	110	105	M	-0.9	64	38	87	Y	G	G	S	S	I	MS	I	
Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)																			
AAC Iceberg ▲	39	104	96	106	107	M	-0.7	64	39	86	Y	G	P	MS	I	MR	MS	I	
Snowbird ☼	94	101	99	101	101	M	-0.2	62	36	89	N	G	G	MR	MS	MS	S	I	
Snowstar ☼	58	102	99	103	102	M	-0.8	64	30	82	N	G	G	MS	S	MS	I	MS	
Whitehawk ☼	42	107	112+	108+	106	E	-0.9	63	33	90	N	G	G	I	MS	MS	MS	I	

**Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)**

CDC Whitewood ▲	43	107+	XX	110	105	M	-0.9	64	38	87	Y	G	G	S	S	I	MS	I
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**Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)**

AAC Iceberg ▲	39	104	96	106	107	M	-0.7	64	39	86	Y	G	P	MS	I	MR	MS	I
Snowbird ☉	94	101	99	101	101	M	-0.2	62	36	89	N	G	G	MR	MS	MS	S	I
Snowstar ☉	58	102	99	103	102	M	-0.8	64	30	82	N	G	G	MS	S	MS	I	MS
Whitehawk ☉	42	107	112+	108+	106	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. Several CWRS varieties will be reclassified to a new milling 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, Katepwa, Leader, Lillian, McKenzie, Neepawa, Park, Pasqua, Pembina, Thatcher, Unity VB and 5603HR. For more information see the Canadian Grain Commission website [www.grainscanada.gc.ca](http://www.grainscanada.gc.ca). The varieties Elgin ND, Faller and Prosper (insufficient data to describe) have been granted interim registration and placed in the Canada Western Interim Wheat class. A permanent class designation is expected later in 2016. The long-term average maturity for AC Barrie is 106 days and rated as Medium (M). 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. AC Eatonia and Lillian have a solid stem that confers resistance to the wheat stem sawfly. 5604HR CL, 5605HR CL, CDC Abound, CDC Imagine, CDC Thrive and WR589 CL are tolerant to the CLEARFIELD® herbicides Adrenalin SC and Altitude FX. VB designates a varietal blend to preserve the Sm1 orange wheat blossom midge tolerance gene. New CWRS registrations: AAC Cameron VB (BW485), AAC Connery (PT245), AAC Jatharia VB (BW483), AAC Prevail (BW462), CDC Bradwell (BW472), Go Early (PT769), SY479 (BW479), SY637 (PT637). Insufficient data to describe: AAC Cameron VB, CDC Bradwell, AAC Whitefox. †-Flagged for possible removal in 2017.

# CANADA PRAIRIE SPRING RED

Variety	Overall Station Years of Testing	Yield Category (% AC Barrie)				Agronomic Characteristics:								Disease Tolerance:				
		Overall Yield	Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Mat. Rating	Pro-tein %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Awns (Y/N)	Resistance to:		Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB
												Ldg.	Sprt.					
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																		
AC Barrie (bu/ac)		59	34	62	92													
AC Barrie ☼		100	100	100	100	M	14.1	63	37	87	N	G	G	MR	I	S	MS	I
Carberry ☼	91	107+	116+	106+	104	L	-0.1	64	39	77	Y	VG	F	MR	R	MR	MS	MR
AAC Crusader ▲	27	116+	XX	115+	XX	M	-1.5	62	40	76	Y	G	P	MR	I	XX	MS	I
AAC Foray VB ▲	41	128+	XX	130+	120+	M	-1.7	63	51	85	Y	G	G	MS	I	MR	MS	I
AAC Penhold ☼	41	117+	XX	121+	114+	M	-1.5	64	46	71	Y	VG	G	I	R	MR	I	MR
AAC Tenacious ▲	27	107+	XX	110+	XX	M	-1.5	64	39	92	Y	P	VG	R	R	MR	MS	R
SY995 ▲	41	118+	XX	119+	113+	M	-1.9	63	45	79	Y	G	P	S	MR	MR	MS	MS
Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																		
5700PR ☼*	117	117+	XX	121+	113+	L	-1.9	62	42	75	Y	VG	F	MS	R	MS	MS	MS
5702PR ☼*	52	117+	XX	119+	114+	L	-1.8	61	40	79	Y	G	P	MS	I	MS	I	MS
AAC Ryley ☼	37	118+	XX	120+	114+	M	-0.6	60	48	82	Y	G	G	I	R	S	MS	MS
AC Crystal *	278	115+	XX	119+	113+	L	XX	62	42	79	Y	G	P	I	R	S	I	S
AC Foremost *	124	116+	XX	119+	112+	L	XX	62	43	73	Y	VG	F	I	R	S	MS	S
Conquer VB ☼*	51	121+	XX	123+	120+	M	-0.8	62	45	84	Y	F	P	MS	R	MR	I	MS
Enchant VB ☼* †	37	115+	XX	119+	112	M	-0.7	62	48	85	Y	F	G	MS	R	XX	MS	S
SY985 ☼*	51	112+	XX	115+	109+	M	0.1	61	44	78	Y	G	P	R	MR	XX	I	I

# CANADA WESTERN GENERAL PURPOSE

Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Barrie)																		
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AAC Innova ▲	27	133+	XX	135+	133+	L	-3.3	61	41	79	Y	G	P	S	S	R	I	S
AAC NRG097 ▲	41	124+	XX	121+	126+	L	-3	63	47	80	Y	G	F	I	R	S	I	I
SY087 ▲	41	120+	XX	122+	114+	M	-1.4	63	40	82	Y	G	F	MS	MR	MR	I	MR

**Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to AC Barrie)**

CDC NRG003 ☉*	51	121+	XX	125+	118+	M	-1.9	61	43	80	Y	G	F	MS	R	XX	MS	S
Minnedosa ☉* †	44	120+	XX	124+	117+	M	-1.9	62	43	82	Y	G	G	I	MR	MR	MS	MS
NRG010 ☉*	51	126+	XX	130+	122+	L	-2.6	62	41	83	Y	G	P	MS	R	R	I	MS
Pasteur *	37	137+	XX	142+	132+	VL	-2.3	62	42	82	N	VG	G	MS	S	MR	I	I

**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 a new milling wheat class, effective August 1, 2018. The varieties affected are AC Foremost, AC Taber, Conquer and Oslo. For more information see the Canadian Grain Commission website [www.grainscanada.gc.ca](http://www.grainscanada.gc.ca). The long term average maturity for AC Barrie is 106 days and rated as Medium (M). 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 Crossfield (HY1632), AAC Entice (HY1627). Insufficient data to describe: AAC Crossfield, AAC Entice. XX-Insufficient data to describe. \* Yield figures based on direct and indirect comparisons with AC Barrie. †-Flagged for possible removal in 2017.



# CANADA WESTERN SOFT WHITE SPRING

Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% AC Andrew)			Agronomic Characteristics:										Disease Tolerance:				
			Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Mat. Rat- ing	Pro- tein %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Awns (Y/N)	Resistance to:			Loose Smut	Bunt	Stripe Rust	Leaf Spot	FHB	
												Ldg.	Shat.	Sprt.						
Varieties tested in the 2015 trials (Yield, statistical differences and agronomic data only directly comparable to AC Andrew)																				
AC Andrew (bu/ac)		83	43	77	115															
AC Andrew *		100	100	100	100	L	10.8	62	39	79	Y	VG	VG	P	S	S	I	MS	I	
AAC Chiffon ▲	39	104+	106	105+	101	L	-0.4	63	46	88	Y	G	VG	P	S	S	MR	I	S	
Previously tested varieties (Yield, statistical differences and agronomic data only directly comparable to AC Andrew)																				
AC Meena	51	97-	101	97-	95	L	0.0	61	37	80	Y	G	G	F	MS	S	MR	I	S	
Sadash ☼	51	110+	113+	109+	109+	L	0.2	63	39	82	Y	VG	VG	P	I	S	R	I	S	

**REMARKS:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. AC Andrew yields about 35% more than AC Barrie. In addition to traditional markets, SWS wheat varieties may have demand as a feedstock for ethanol production. \*Maturity, resistance to lodging and sprouting are compared with AC Barrie. 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 registrations: AAC Indus (SWS427), AAC Paramount (SWS433). Insufficient data to describe: AAC Indus, AAC Paramount. †-Flagged for possible removal in 2017.

## WHEAT - MIDGE TOLERANT

### AAC MARCHWELL - AAC RAYMORE

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

Hierath, Michael Wayne & Philip / Milk River / AB / (403) 647-2347

### AAC TENACIOUS VB

BI: N/A, Dist: Alliance Seed

Stamp Seeds / Enchant / AB / (403) 739-2233

### BW971 - BW965

BI: N/A, Dist: N/A

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

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

Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696

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

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

### CDC UTMOST - HARVEST ☼

BI: N/A, Dist: FP Genetics

Dalton, Dennis / Wainwright / AB / (780) 842-2361

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

Markert Seeds / Vulcan / AB / (403) 485-6708

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

Tomlinson, Chelsea / Redwater / AB / (780) 777-5885

### CONQUER - 5701PR ☼

BI: AAFC (Winnipeg), Dist: Canterra Seeds

Huvenaars, John & Lisa / Hays / AB / (403) 725-2126

Parkland Fertilizers / Wetaskiwin / AB / (780) 352-3359

Sendziak, Don P. & Stephen / Edmonton / AB / (780) 434-1322

### SHAW - AC DOMAIN

BI: AAFC (Winnipeg), Dist: SeCan Members

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

## WHEAT

### AAC BRANDON ☼

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Holmstrom, Darrell & Barbara / Killam / AB / (780) 385-3574			R	
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McDonald, Gerald / Co. Of Grande Prairie #1 / AB / (780) 538-3868			R	
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Ohrn, Norman / Thorsby / AB / (780) 985-2263			R	
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Ellis, Brian / Olds / AB / (403) 556-2890				C
Gibson, Donald / Sangudo / AB / (780) 785-2214				C
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Lopushinsky, Julian / Bruderheim / AB / (780) 796-2048				C
Macy, Tim / Radway / AB / (780) 699-4073				C
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Welsh, Stuart Jason / Milk River / AB / (403) 647-2228					C
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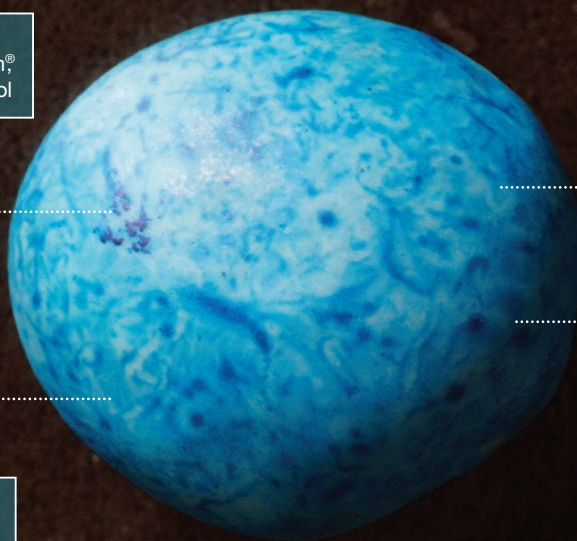
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Sand, Ron W. & David R. / McLaughlin / AB / (780) 745-2251			C
Sim, Darwin & Derek / Ponoka / AB / (780) 372-2111		R	C
Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358		R	C
Thompson, M. Ellwood & Kelly / Red Deer County / AB / (403) 728-3535			C
Tomlinson, Chelsea / Redwater / AB / (780) 777-5885		R	C
Victoor, Rene & Jamie / Sturgeon County / AB / (780) 459-3253	S	F	C
<b>PARK</b>			
BI: AAFC, Dist: N/A			
Lyster, Norman / Stettler / AB / (403) 742-4456		F	C
<b>PASTEUR</b>			
BI: Wiersum Plant Breeding, DistL SeCan Members			
Lindholm Seed Farm / New Norway / AB / (780) 352-3240			C
Mueller, Darcy / Three Hills / AB / (403) 820-4115			C
Stamp Seeds / Enchant / AB / (403) 739-2233			C
Templeton, Doran & Brant / Lethbridge / AB / (403) 345-4144	S		C
<b>SADASH</b> ☺			
BI: AAFC (Lethbridge), Dist: SeCan Members			
Feenstra, Lloyd / Barons / AB / (403) 757-3737			C
Haney, Shaun / Picture Butte / AB / (403) 738-4517			C
Stamp Seeds / Enchant / AB / (403) 739-2233			C*
Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434		R	C
Witdouch, Dale / Iron Springs / AB / (403) 738-4395		R	C
Zwack, Thomas / Daysland / AB / (780) 374-2450			C
<b>SNOWBIRD</b> ☺			
BI: AAFC (Winnipeg), Dist: FP Genetics			
Massey, Derwin / Stettler / AB / (403) 883-2503			C
<b>STETTLER</b> ☺			
BI: AAFC (Winnipeg), Dist: SeCan Members			
Baier, Bill & Dean / Clyde / AB / (780) 348-5791			C
Clark, Todd / Edmonton / AB / (780) 499-5060			C

Davidson, E. Daryl & Dean / Kitscoty / AB / (780) 846-2456			C
Foster, Norman R. / Beaverlodge / AB / (780) 354-2107			C
Harris, William & L. Thomas & A. / Beaverlodge / AB / (780) 354-2823	F	R	C
Kalinsky, Dwayne / Iron River / AB / (780) 826-4452			C
Kapitski, Lawrence / Andrew / AB / (780) 365-2134			C
Kittle, James William & Andrew / Viking / AB / (780) 336-2583			C
Limoges, Richard / McLennan / AB / (780) 324-2335			C
Massey, Derwin / Stettler / AB / (403) 883-2503			C
McDonald, Gerald / Co. Of Grande Prairie #1 / AB / (780) 538-3868			C
Mracek, Stan John / Dawson Creek / BC / (250) 843-7359		R	C
Nemetz, Charlie & Jerritt & Lewis & Brandon / Stettler / AB / (403) 742-0436			C
Pare, Raymond A. / Wainwright / AB / (780) 842-2073		R	C
Penwest Seed / Three Hills / AB / (403) 443-2577		R*	C
Wagner, Terry & Loree / Lacombe / AB / (403) 782-2107			C
Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617			C*
<b>SUPERB</b> ☺			
BI: AAFC (Winnipeg), Dist: SeCan Members			
Airth, Jock & Linda / Brooks / AB / (403) 362-4372		R	C
Jones, Danny / Beaverlodge / AB / (780) 354-8089			C
<b>SY985</b> ☺			
BI: Syngenta Canada Inc., Dist: Cargill Ltd., CPS (Canada) inc. and Andrukow Seed			
Harbin, Clifford T. & Bruce C. / Rivercourse / AB / (780) 745-2268			C
<b>THORSBY</b> ☺			
BI: U of Alberta, Dist: Canterra Seeds			
Lefsrud, Kevin J. & Edmund J. / Viking / AB / (780) 336-2500		F	R C
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# WINTER WHEAT

Variety	Overall Station Years of Testing	Over- all Yield	Yield Category (% Radiant)				Agronomic Characteristics:										Disease Tolerance:				
			Low < 45 (bu/ ac)	Med. 45-75 (bu/ ac)	High 75-105 (bu/ac)	V. High > 105 (bu/ ac)	Wint. Surv.	Mat. Rat- ing	Prot. %	Test Weight (lb/bu)	TSW (g)	Height (cm)	Kernel Type	Awns (Y/N)	Resis. to Ldg	Bunt	Stripe Rust	FHB	Leaf Rust	Stem Rust	
CANADA WESTERN RED WINTER																					
Yield, significant differences and agronomic data only directly comparable to Radiant																					
Radiant (bu/ac)		75	37	63	88	114															
Radiant ☼		100	100	100	100	100	VG	L	12.0	63	36	90	HR	Y	VG	S	S	S	S	S	
AAC Elevate ▲	47	105	XX	106	103	XX	G	M	+0.3	63	39	83	HR	Y	VG	MR	MS	I	I	MR	
AAC Gateway ☼	56	99	XX	99	100	XX	F	M	+0.9	63	33	77	HR	Y	VG	S	MR	I	I	MR	
AAC Wildfire ▲	24	115+	XX	116+	112+	XX	VG	VL	+0.3	64	38	86	HR	Y	G	MR	R	MR	I	S	
AC Tempest †	117	97-	96	97	96-	99	P	VL	+1.5	63	37	91	HR	Y	VG	MS	MR	I	S	S	
CDC Buteo	173	96-	94	97	95-	102	VG	M	+0.3	65	34	91	HR	Y	F	S	S	MR	I	I	
CDC Chase	24	104	XX	103	106	XX	F	M	+0.6	64	33	94	HR	Y	F	S	MR	MS	R	R	
Emerson ☼	69	98	XX	95	100	XX	G	M	+0.7	64	30	86	HR	Y	G	S	MR	R	I	R	
Flourish ☼	103	100	102	98	101	104	F	E	+0.6	63	35	80	HR	Y	VG	MR	I	S	I	I	
Moats ☼	74	105+	XX	101	107+	XX	G	M	+0.7	64	33	91	HR	Y	F	MS	MR	S	R	R	

## CANADA WESTERN GENERAL PURPOSE

Yield, significant differences and agronomic data only directly comparable to Radiant

Accipiter ☼ †	71	104+	XX	105	104	101	G	M	-0.6	64	30	84	HR	Y	VG	S	S	MS	I	R	
Broadview ☼ †	106	99	103	99	99	101	G	E	-0.5	63	32	81	HR	Y	G	S	S	S	R	R	
CDC Falcon	200	100	89-	101	100	101	F	E	-0.5	63	31	75	HR	Y	VG	S	S	S	MR	MR	
CDC Ptarmigan	105	106+	102	108+	105	104	G	M	-1.7	61	34	93	SW	N	F	S	S	I	S	S	
Peregrine ☼ †	63	108+	XX	107+	109+	XX	VG	M	-0.7	64	33	97	HR	Y	F	S	MR	I	R	I	
Pintail ☼	69	108+	XX	109+	109+	XX	VG	L	-1.4	61	29	88	HR	N	G	S	MR	S	MS	MS	
Sunrise	72	108+	102	106	110+	XX	G	M	-0.9	61	32	89	SR	Y	G	S	MR	XX	MR	MR	
Swainson	44	112+	XX	106	116+	XX	F	M	-0.2	64	38	95	HR	Y	F	S	MR	XX	R	R	

**REMARKS:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before September 15) and if there is adequate snowfall. Varieties with poor (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 resistance 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 some tolerance to Russian wheat aphid. AC Tempest, Radiant and AAC Wildfire have bronze chaff at maturity. The awnless head of CDC Ptarmigan and Pintail may improve palatability when harvested for forage or silage. CDC Chase is expected to be available in fall 2016. AAC Elevate and AAC Wildfire will not be available in 2016. New registrations: AAC Elevate (W495), AAC Wildfire (W512), † Flagged for possible removal in 2017.

## WHEAT - WINTER

### AAC GATEWAY ☼

BI: AAFC, Dist: Seed Depot

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

Stamp Seeds / Enchant / AB / (403) 739-2233

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

Welsh, Donald Alan / Milk River / AB / (403) 647-2228

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

### AC TEMPEST

BI: AAFC (Lethbridge), Dist: SeCan Members

Murray, Bruce & Wesley / Lethbridge / AB / (403) 327-9389

### CDC CHASE

BI: CDC, Dist: Canterra Seeds

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

### EMERSON ☼

BI: AAFC, Dist: Canterra Seeds

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

Corns, Bryan & Gary / Grassy Lake / AB / (403) 655-2464

Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696

### FLOURISH ☼

BI: AAFC (Lethbridge), Dist: SeCan Members

Stamp Seeds / Enchant / AB / (403) 739-2233

### MOATS ☼

BI: CDC, Dist: SeCan Members

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

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

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

Stamp Seeds / Enchant / AB / (403) 739-2233

Strain, Arthur George / Foremost / AB / (403) 867-2227

### RADIANT ☼

BI: AAFC (Lethbridge), Dist: Canterra Seeds

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

Corns, Bryan & Gary / Grassy Lake / AB / (403) 655-2464

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## FALL RYE

Variety	Hybrid or OP Variety	Overall Station Years of Testing	Overall Yield	Yield Category (% Hazlet)				Agronomic Characteristics:					
				Low < 48 (bu/ac)	Medium 48-80 (bu/ac)	High 80-112 (bu/ac)	V. High > 112 (bu/ac)	Winter Survival	Test Weight (lb/bu)	TSW (g)	Falling Number (sec)	Height (cm)	Resistance to Lodging
Yield, significant differences and agronomic data only directly comparable to Hazlet													
Hazlet (bu/ac)			100	48	73	96	136						
Hazlet	OP		100	100	100	100	100	EX	59	39	140	108	G
Bono	Hybrid	15	131+	XX	111	132	133+	EX	59	35	260	104	VG
Brasetto	Hybrid	19	121+	XX	116	130	120	EX	59	37	260	104	VG
Guttino	Hybrid	19	121+	XX	117	123	121	EX	60	36	290	101	VG
Prima	OP	45	93-	93-	91-	94	92	EX	58	33	180	121	F

**REMARKS:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Fall rye is typically 30% to 100% more cold tolerant than winter wheat or winter triticale. The long term average heading and maturity dates for Hazlet are June 5 and August 7, respectively. All fall rye varieties are similar for heading and maturity and are considered early. A major factor in marketing rye grain into the milling market is sprouting. This is generally measured using the Hagberg falling number test and is measured in seconds. Typically, a falling number of 180 seconds or greater is preferred by the rye milling market. Falling number is heavily influenced by moisture around harvest time and producers must make sure rye is harvested in a timely manner, similar to wheat crops. There is considerable variation in fall rye varieties for falling number and this must be considered if the milling market is the targeted end-user for rye grain. All fall rye is susceptible to ergot. Hazlet has lower viscosity which improves feed performance in monogastric livestock. AFSC crop insurance dealines for seeding fall rye is September 15, north of the Bow river and September 30, south of the Bow river. No fall rye variety performance data were collected in 2010 and 2011. Bono is currently supported for interim registration.

## WINTER TRITICALE

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

**REMARKS:** For explanations on data summarization methods, abbreviations and other pertinent information, please see the comments at the beginning of this publication. Winter triticale has a winter hardiness potential slightly lower than winter wheat. Maturity for winter triticale is generally about a week later than most winter wheat varieties. Bobcat, Luoma and Metzger have heads with reduced awn length (awnletted), making them more palatable in forage applications. No winter triticale variety performance data were collected from 2009-2015.

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AC Morgan Oats  
CDC Greenwater Peas  
CDC Raezer Peas

CDC Copeland Barley  
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## RYE

### BONO

BI: N/A, Dist: N/A

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

### BRASSETTO

BI: KWS, Dist: FP Genetics

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

### GUTTINO

BI: KWS, Dist: SeedNet Inc.

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

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### HAZLET

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

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

Weigum, Garry & Sarah / Three Hills / AB / (403) 443-2476

### MUSKETEER

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

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

### PRIMA

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

Weigum, Sarah / Three Hills / AB / (403) 443-9599

## TRITICALE - WINTER

### METZGER

BI: FCDC (Lacombe), Dist: Haney Farms Ltd

Corns, Bryan & Gary / Grassy Lake / AB / (403) 655-2464

Haney, Richard L. / Picture Butte / AB / (403) 738-4517

### PIKA

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

Kiffiak, Nathan John / Foremost / AB / (403) 867-2338

# More Options to Manage Midge

Toolbox expands for midge-tolerant wheat growers with first-ever durum variety.

**THE** toolbox for growers who protect against orange blossom wheat midge just got larger. New for the 2016 growing season are three new varieties of midge-tolerant wheat: Proven Seed's CDC Titanium VB and SeCan's AAC Foray VB and AAC Marchwell VB.

"Growers have had CWRS wheat since the beginning, but they now have a full list of options with a broader selection of CPS reds and, for the first time, a durum variety," says Todd Hyra, business manager, Western Canada, SeCan. "They really do have more tools in the toolbox to protect themselves from the damaging pest that can significantly reduce crop yield and grade."

The varietal blends provide an "interspersed refuge system" that disrupts the midge's ability to produce resistant offspring, preventing a build-up of the resistant midge population. As with all midge-tolerant wheat, the new varieties offer this built-in protection and uncompromised agronomics.

The addition of more wheat classes is an exciting development for the technology that reached a five-year milestone last year. Since 2010, midge-tolerant wheat has revolutionized the way growers manage midge. The varieties eliminate the use of insecticide as a control method. Instead, midge protection is bred into the varieties via Sm1, a midge-tolerant gene.

## Keep Midge Top-of-Mind

Hyra cautions that midge may not be on everyone's radar this year.

"It is not as top-of-mind as it once was. I credit midge-tolerant wheat for that. When you're not spraying, it is keeping the midge population in balance, allow-



**"Growers have had CWRS wheat since the beginning, but they now have a full list of options with a broader selection of CPS reds and, for the first time, a durum variety."**

—Todd Hyra

ing the beneficial parasites to do their job," he says. "Thanks to the consistent use of midge-tolerant wheat, we may never see peaks and valleys of midge pressure again."

Producers in the Peace River area won't forget when a midge infestation caught everyone off-guard during the 2013 growing season. For 2016, the Alberta forecast calls for fairly light midge pressure.

"That's a good news story, but at the same time, there is no economic disadvantage to using midge-tolerant wheat," says Hyra. "If the genetics work for you, why not have that protection in case of a flare-up? I'd encourage producers who have been using midge-tolerant wheat, and have had midge pressure in the past, to continue replenishing their stocks by either planning to purchase new certified seed or to have farm-saved seed that's in compliance with the stewardship requirements."

## Stewardship Remains Strong

The requirements Hyra is referring to are spelled out in the Stewardship Agreement that is signed by every producer who buys midge-tolerant wheat. It limits the use of farm-saved seed to one generation past certified seed, keeping the refuge at the desired level. This is essential to preserving midge tolerance.

Fortunately, stewardship of the technology remains high. Results from the annual customer survey in 2015 show that 94 per cent of midge-tolerant wheat growers believe that stewardship is critical. This number has increased each year since the launch.

Hyra is looking forward to continued support from growers who now have 12 different midge-tolerant wheat varieties to choose from. "I'd encourage them to try some of the newer classes to give them some different marketing opportunities while continuing to benefit from the same protection they've always had."



# 2015 Canola Variety Information

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

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

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

The CPT summaries provided in this factsheet are based on successful trials that did not show confounding factors during field inspections. There were 29 successful small plot trials in 2015. The small trial sites were distributed based on seeded acres in Manitoba, Saskatchewan and Alberta.

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

- All varieties are treated with appropriate commercially associated herbicides and seed treatments;
- An independent third-party representative inspected all trials; and,
- Harvest occurred at the most appropriate time to minimize harvest losses due to maturity differences.

Field scale comparisons add extra perspective for assessing consistency in variety performance. In 2015 the large scale comparisons were fewer, but also included the yield impact of selected shatter-tolerant varieties under swath- or straight-cut harvest systems. The format for future large scale variety comparisons will depend on the growers' response to this year's pilot project.

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

conducting field-scale research trials performed the audits.

Small yield differences can easily be random variation and thus are less likely to be real effects of varieties. When comparing average zone yields for varieties in the small plot data, the least significant difference (LSD) ranged from eight to 14 per cent in 2015. This is based on a confidence level that significant differences would occur by chance less than five per cent of the time. A confidence level of 10 per cent is sometimes used in statistical analyses, and this would result in a slightly smaller LSD. In the small plot design used, varieties are grouped by herbicide system, which means that the LSD shown strictly applies only to comparisons between a few varieties of the same herbicide system. Comparisons between many varieties or between different herbicide systems are still valid, but the LSD would be larger. More importantly, comparisons between varieties within the same herbicide system reveal only genetic differences, whereas variety comparisons from different herbicide systems involve the net effect of both genetic and herbicide effects (weed control + crop tolerance).

When comparing variety yields in the field-scale summaries, an asterisk (\*) indicate yields that are statistically different (five per cent level).

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

## Where are CPT results available?

Results are available through an online interactive tool at [www.canolaperformancetrials.ca](http://www.canolaperformancetrials.ca). The interactive tool allows growers to explore many agronomic factors and to search for trial data in specific geographic areas near their farming operations. Details on management, operations and environmental data for each individual site will be reported online. The online tool has an economic calculator that includes the costs associated with growing the selected variety to assist growers in determining potential profitability.

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

*Brassica rapa* (Polish canola) and Canola Quality Brassica juncea – no varieties were tested under PCT in 2012 through 2015.

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\*\*163 independent large-plot trials in Canada between 1994 and 2013. Individual results may vary, and performance may vary from location to location and from year to year. This result may not be an indicator of results you may obtain as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible.

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InVigor L159	InVigor L252	InVigor L140P



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V12-1	V12-3	V22-1
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74-44 BL	75-65 RR
75-45 RR	74-54 RR

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1020 RR	1022 RR	2022 CL

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6080 RR	5535 CL	



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# Small Plots

Distributor	Variety ( <i>B.napus</i> )	LONG Season Zone (8 trials)				MID Season Zone (15 trials)				SHORT Season Zone (6 trials)				Disease+ Tolerance
		Yield 5440%	Mat. (days)	Lodging (1-5)	Height (inches)	Yield 5440%	Mat. (days)	Lodging (1-5)	Height (inches)	Yield 5440%	Mat. (days)	Lodging (1-5)	Height (inches)	
Clearfield														
BrettYoung	5525 CL	98	92	2.3	50	91	96	2.1	48	93	103	2.0	44	BL
CANTERRA SEEDS	CS2200CL	94	93	2.5	50	93	97	2.4	47	94	103	2.4	45	BL
	LSD (%)	13				14				13				
Liberty Link														
Bayer CropScience	5440	100	93	1.8	51	100	96	1.3	49	100	103	1.6	44	BL
Bayer CropScience	L252	117	93	2.3	49	107	97	2.3	48	111	103	2.0	43	BL
Bayer CropScience	L261	108	94	2.5	54	104	98	1.8	52	106	104	1.5	46	BL
Bayer CropScience	L140P	107	92	3.5	49	99	95	2.9	48	97	101	2.6	43	BL
	LSD (%)	10				10				10				
Roundup Ready														
CANTERRA SEEDS	1990	100	92	3.0	46	95	96	3.0	46	89	103	3.4	42	BL
BrettYoung	6056CR	97	95	2.4	49	93	98	2.2	47	90	104	2.1	41	BL / CR
BrettYoung	6074RR	105	95	2.7	49	102	98	2.1	47	99	105	2.1	44	BL
BrettYoung	6080RR	98	93	2.4	48	97	97	1.9	48	94	103	2.3	43	BL
CANTERRA SEEDS	CS2000	102	94	2.4	52	100	97	2.5	50	101	103	3.5	45	BL / CR
CANTERRA SEEDS	CS2100	102	94	2.5	48	-	-	-	-	-	-	-	-	BL
Syngenta	SY4157	105	94	2.3	52	102	98	2.3	49	96	104	2.6	41	BL
Syngenta	SY4166	101	92	3.0	51	98	96	2.9	48	89	104	3.3	41	BL
Cargill - VICTORY Hybrid Canola	V12-1 *	100	93	2.3	50	94	96	2.8	47	91	103	3.5	41	BL
Cargill - VICTORY Hybrid Canola	V12-3 *	102	93	2.7	50	99	97	2.9	47	97	103	3.3	40	BL / CR
Syngenta	14H1176	108	96	2.4	53	102	99	2.0	50	99	105	2.3	44	BL / CR
	LSD (%)	8				11				11				
CHECK MEAN 5440 (bu/ac)		58				64				68				

\* Indicates varieties with Specialty oil profiles and premiums associated with pricing. Visit [www.canolaperformancetrials.ca](http://www.canolaperformancetrials.ca) for more details

+ Indicates genetic resistance with an "R" or resistant rating to specific disease affecting canola, BL = Blackleg, CR = Clubroot.



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## 2015 Large Scale Yield Results (% of check, 5440)

	L140P	L252	L261	5440	5440 (bu/ac)
Long Season Zone	105 (7)	104 (10)	100 (9)	100	51
Mid Season Zone	107* (13)	110* (18)	108* (18)	100	51
Short Season Zone	**	107 (5)	102 (5)	100	42
Overall	104 (22)	108* (33)	106* (32)	100	50

Number of comparisons to check in parentheses

\* indicates 5% level of statistical significance compared to check using paired t-test

\*\* indicates fewer than 5 sites in zone and therefore data not shown

## 2015 Large Scale Harvest System Yield Results (% of check, 5440 swathed)

	L140P		L252		5440	5440 (bu/ac)
	Swathed	Straight cut	Swathed	Straight cut		
Long season zone (9)	103	104	102	92	100	50
Mid season zone (12)	101	103	103	99	100	52
Short season zone (3)	100	98	109*	109	100	48
Overall (24)	102	103*	103*	98	100	51

Number of locations in parentheses

\* indicates 5% level of statistical significance compared to check using paired t-test


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

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### ADDITIONAL RESOURCES:

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 Alberta Agriculture and Rural Development / 310-FARM (3276) / [www.agriculture.alberta.ca](http://www.agriculture.alberta.ca)  
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<b>5525CL</b> <b>BI: DL Seeds, Dist: BrettYoung Seeds Ltd.</b> BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069				C
<b>5535 CL</b> <b>BI: DL Seeds, Dist: BrettYoung Seeds Ltd.</b> BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069				C
<b>6056CR</b> <b>BI: DL Seeds, Dist: BrettYoung Seeds Ltd.</b> BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069				C
<b>6074 RR</b> <b>BI: DL Seeds, Dist: BrettYoung Seeds Ltd.</b> BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069				C
<b>72P01 CL</b> <b>BI: U of A, Dist: N/A</b> Lefsrud, Kevin J. & Edmund J. / Viking / AB / (780) 336-2500		F		C
<b>CAFE ☼</b> <b>BI: SW Seed, Dist: SeCan Members</b> Degenhardt, Keith L. & Terry L. & Kerry / Hughenden / AB / (780) 856-2383 Hadland, Edward / Baldonnel / BC / (250) 789-3646				C C
<b>CS2000</b> <b>BI: DL Seeds, Dist: Canterra Seeds</b> Canterra Seeds Ltd. / Winnipeg / MB / (204) 988-9750				C
<b>CS2100</b> <b>BI: DL Seeds, Dist: Canterra Seeds</b> Canterra Seeds Ltd. / Winnipeg / MB / (204) 988-9750				C
<b>CS2200CL</b> <b>BI: DL Seeds, Dist: Canterra Seeds</b> Canterra Seeds Ltd. / Winnipeg / MB / (204) 988-9750				C
<b>DEKALB BRAND VARIETIES: 6080 RR, 73-15 RR, 73-45 RR, 73-75 RR, 74-44 BL, 74-54 RR, 75-45 RR, 75-65RR</b> <b>BI: N/A, Dist: Monsanto Canada Inc.</b> Monsanto Canada Inc. / Lethbridge / AB / (403) 360-8043				C
<b>DuPont Pioneer Varieties: 45CS40, 45H33, 45H76, 46H75, 46M34</b> <b>BI: N/A, Dist: Dupont Pioneer</b> Pioneer Hi-Bred International Inc. / Lethbridge / AB / (403) 327-6135				C
<b>Fusion</b> <b>BI: DL Seeds, Dist: SeCan Members</b> McDonald, Gerald / Co. Of Grande Prairie #1 / AB / (780) 538-3868 Selte, Donald / Vermillion / AB / (780) 853-2484 Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617				C C C

**HYHEAR 1****BI: N/A, Dist: N/A**

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**InVigor Canola Varieties: InVigor 5440, InVigor L120, InVigor L130, InVigor L135C, InVigor L140P, InVigor L150, InVigor L156H, InVigor L157H, InVigor L159, InVigor L241C, InVigor L252, InVigor L261****BI: N/A, Dist: Bayer CropScience**

Bayer CropScience Inc. / Lethbridge / AB / (403) 329-0706

**Nexera Varieties: 1020 RR, 1022 RR, 2020 CL, 2022 CL****BI: N/A, Dist: Dow AgroSciences**

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**Proven Seed Varieties: PV 200 CL, PV 530 G, PV 531 G, PV 533 G, PV 580 GC, VT 500 G, VR 9560 CL, VR 9562 GC, XCEED X121 CL, XCEED X122 CL****BI: N/A, Dist: CPS (Canada) Inc.**

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**SY4105, SY4157, SY4135, SY4166****BI: N/A, Dist: N/A**

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**UA ALFAGOLD****BI: U of A, Dist: N/A**

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**OATS:**

Triactor

AC Morgan



FLAX

Variety	Overall Station Years of Testing	Yield Category (% CDC Bethune)					Agronomic Characteristics							Quality			
		Overall Yield	Low < 20 (bu/ac)	Medium 20-35 (bu/ac)	High 35-50 (bu/ac)	V. High > 50 (bu/ac)	Mat. Rating	Seed Colour	Seed Size	Height (cm)	Disease Tolerance			Oil Content (%)	ALA Content (%)	Iodine Value	
											Resis- tance to Lodging	Fusarium Wilt	Powdery Mildew				
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to CDC Bethune)																	
CDC Bethune (bu/ac)		34	14	29	44	58											
CDC Bethune ☼		100	100	100	100	100	L	brown	M	57	G	MR	MR	45.6	54.7	189	
CDC Neela ☼	17	112+	XX	120+	101	XX	L	brown	M	54	G	MR	MR	45.5	59.1	194	
CDC Plava ▲	17	106	XX	117	95	XX	M	brown	M	52	G	MR	XX	46.5	57.2	196	
Prairie Grande ☼	69	99	101	103	92-	99	M	brown	M	53	G	MR	MR	45.6	57.5	193	
VT 50 ☼	17	103	XX	104	101	XX	VL	yellow	M	49	VG	MR	XX	47.1	67.6	209	
WestLin 71 ☼	25	95-	101	94	91-	XX	L	brown	M	56	G	MR	MS	47.5	61.2	198	

Previously tested varieties (Yield, significant differences and agronomic data only directly comparable to CDC Bethune)																
AAC Bravo ☼	23	104	XX	XX	103	104+	L	brown	L	64	G	MR	MR	44.6	60.2	194
CDC Glas ☼	23	106+	XX	XX	106	XX	L	brown	M	61	G	MR	MR	45.8	56.6	192
CDC Sanctuary ☼	28	105+	XX	100	100	108+	VL	brown	M	64	G	MR	MR	45.6	57.2	191
CDC Sorrel ☼	32	104	112	104	100	99	L	brown	L	61	F	MR	MR	45.1	57.8	193
Hanley ☼	37	97-	99	97	95	97	M	brown	M	53	VG	R	MR	44.7	58.6	198
Prairie Sapphire ☼	23	96	XX	XX	97	101	L	brown	M	64	G	MR	MR	48.1	57.2	193
Prairie Thunder ☼	40	99	101	98	99	99	L	brown	M	55	G	R	MR	45.3	57.9	195
Taurus ☼	27	98-	103	97	XX	XX	L	brown	M	53	VG	MR	R	45.6	53.9	187

**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: CDC Plava (FP2385) and WestLin 72 (FP2376). Insufficient data to describe: WestLin 72.

FLAX

	S	F	R	C
<b>AAC BRAVO</b> ☼ <b>BI: AAFC (Lacombe), Dist: FP Genetics</b> Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900 Dalton, Dennis / Wainwright / AB / (780) 842-2361 King, Harold & Webb, David Gordon / Three Hills / AB / (403) 443-7330 Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696 Sim, Darwin & Derek / Ponoka / AB / (780) 372-2111			R	C
<b>HANLEY</b> ☼ <b>BI: AAFC (Morden), Dist: SeCan Members</b> Lefsrud, Kevin J. & Edmund J. / Viking / AB / (780) 336-2500			R	
<b>PRAIRIE SAPPHIRE</b> ☼ <b>BI: AAFC (Morden), Dist: Alliance Seed</b> Feenstra, Lloyd / Barons / AB / (403) 757-3737 Stamp Seeds / Enchant / AB / (403) 739-2233			R	
<b>TAURUS</b> ☼ <b>BI: N/A, Dist: FP Genetics</b> Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696			R	
<b>WESTLIN 70</b> <b>BI: N/A, Dist: CPS (Canada) Inc.</b> Mercer, Lloyd C. & Ryan & Bolstad, L. / Lethbridge / AB / (403) 327-9736			R	C

FLAX - RECONSTITUTED

	S	F	R	C
<b>CDC GLAS</b> ☼ <b>BI: CDC, Dist: SeCan Members</b> Cailliau, John / Enchant / AB / (403) 739-3785 Corns, Bryan & Gary / Grassy Lake / AB / (403) 655-2464 Dovichak, Michael / Brooks / AB / (403) 501-5420 Dyck, Heinz W. & Colin & Alan & Kelton / Rosemary / AB / (403) 378-3321 Fabian, Patrick V. / Tilley / AB / (403) 377-2000 Hoff, Peter Edward / Gleichen / AB / (403) 734-2140 Hoffmann, Curtis / Oyen / AB / (403) 664-9617 Huvenaars, Carl / Hays / AB / (403) 725-2213 Huvenaars, John & Lisa / Hays / AB / (403) 725-2126 Jackson, Thomas / Killam / AB / (780) 385-2332 Stamp Seeds / Enchant / AB / (403) 739-2233 Weigum, Garry & Sarah / Three Hills / AB / (403) 443-2476 Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434				C
<b>CDC SANCTUARY</b> ☼ <b>BI: CDC, Dist: SeCan Members</b> Benci, Dennis / Carmangay / AB / (403) 643-2294 Huvenaars, Carl / Hays / AB / (403) 725-2213				C
<b>CDC SORREL</b> ☼ <b>BI: CDC, Dist: SeCan Members</b> Bright, David / New Norway / AB / (780) 855-2240 Degenhardt, Keith L. & Terry L. & Kerry / Hughenden / AB / (780) 856-2383 King, Harold & Webb, David Gordon / Three Hills / AB / (403) 443-7330 Sendziak, Don P. & Stephen / Edmonton / AB / (780) 434-1322 Zwack, Thomas / Daysland / AB / (780) 374-2450				C

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# 2015 Regional Silage Variety Trials

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## Participating Organizations

Eight applied research groups performed the project at 12 locations throughout the province.

Battle River Research Group, Forestburg, AB, (780) 582-7308  
 Chinook Applied Research Association, Oyen, AB, (403) 664-3777  
 Gateway Research Organization, Westlock, AB, (780) 349-4546  
 Lakeland Agricultural Research Association, Bonnyville, AB, (780) 826-7260  
 Smoky Applied Research and Demonstration Association, Falher, AB, (780) 837-2900  
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## Trial Information

This is the seventh year the regional silage trials have been conducted by groups across Alberta. The objective of the trials was to determine yield and nutritional values of the various crops and cereal/pulse combinations. The tables below show a summary of data from 2012 through 2015 as compared to the control variety (in bold). Yield of the test varieties are expressed as wet tons/acre (ie. 65 per cent moisture, typical of silage production). Data sets which did not meet minimum quality standards (variance levels) were excluded.

Varieties of barley, oats, triticale and peas commonly used for silage, green feed and swath grazing were included in the trial, as well as new varieties showing good potential for these uses. The cereal trials, (barley, oats and triticale), were seeded at recommended seeding density rates and 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 only, while the monoculture cereal comparison plots were fertilized with 50 per cent of the recommended cereal rates. Peas were seeded at 75 per cent of their recommended seeding rate and cereals at 50 percent when in mixtures.

## Test Yield Categories

The defined range for each Test Yield Category is provided in tons per acre. Variety yields are reported as average yields in Low, Medium and High Test Yield Categories for comparison with the check for productivity regimes and environments that may be anticipated. Varieties that are statistically higher (+) or lower (–) yielding than the standard check are indicated. No symbol after the yield figure indicates that there is no statistical difference. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested.

Maturity, plant height and lodging were not measured in the trials as they are extensively reported on in the Cereal RVT program.

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

## Site Information

There were 11 sites across the province, representing various agro-ecological zones. Sites were located near Castor, Stettler, Fort Kent, Lac La Biche, High Prairie, Wildwood, Hanna, Manning, Fairview, St. Paul and Westlock. The pulse mixes were not seeded at all sites. The Fairview site contained only the barley and pulse mix trials.

Yield at most sites was reduced in 2015 due to early season drought conditions. Data from the Manning and High Prairie sites were not reported due to poor growth from lack of moisture and grasshopper pressure.

## Nutritional Analysis

Nutrition was assessed using wet chemistry analysis. Full nutritional analysis was done on each sample, but only six 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).

# OATS

Variety	Overall Station Years of Testing	Overall Yield	Area (t/ac)					Yield Category			Nutritional Data						
			2	3	4	5	6	Low < 7.0 (t/ac)	Medium 7.1-10.0 (t/ac)	High > 10.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)	
Varieties tested in the 2015 trials (Yield, significant differences and agronomic data only directly comparable to CDC Baler)																	
CDC Baler (t/ac)		9.9	7.9	10.7	7.8	11	6.4	5.6	9.1	12.6	9.2	61.8	0.3	0.2	1.8	0.2	
CDC Baler		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
AC Morgan	26	101	101	100	90	98	129	114	95-	101	99	102	100	114	98	96	
AC Mustang	27	100	101	97	95	102	105	98	100	101	104	99	98	106	102	100	
CDC Haymaker	22	99	110	96	98	97	100	108+	94	100	98	100	99	103	105	99	
CDC SO-I	27	95-	84-	102	82-	95	103	96	96	94-	105	103	97	108	97	105	
Previously tested varieties: 2012-2014 (Yield, significant differences and agronomic data only directly comparable to Murphy)																	
Murphy (t/ac)		9.5	8.7	9.2	6	11.2	5.4	5.9	9.1	12.2	8.5	58.9	0.3	0.2	1.8	0.2	
Murphy		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
AC Juniper	18	95	99	97	XX	86-	125	112	83	96	123	107	100	118	101	108	
Everleaf	5	89	XX	98	106	67-	XX	104	68	67	118	103	112	110	98	102	
Foothills	22	97	99	95	101	96	97	95	94	100	122	103	106	110	100	101	
Jordan	21	97	103	92	88	97	112	96	100	96	120	105	100	107	97	114	
Waldern	21	100	100	104	94	100	104	98	105	98	112	105	109	106	94	97	

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## BARLEY

Variety	Overall Station Years of Testing	Over-all Yield	Area (t/ac)					Yield Category			Nutritional Data					
			2	3	4	5	6	Low < 8.0 (t/ac)	Medium 8.1-12.0 (t/ac)	High > 12.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Austenson)																
CDC Austenson (t/ac)		10.5	7.2	12.1	9.7	12	6.7	6.6	9.6	12.5	10.3	68.2	0.3	0.2	1.3	0.2
CDC Austenson	27	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Amisk	15	90-	102	92-	97	88-	79	87	93	91-	105	99	132	104	106	111
CDC Maverick	21	103	108	96	101	104	105	111	101	101	97	98	130	104	98	120
CDC Meredith	8	106	127	106	99	101	XX	127	XX	102	95	95	102	92	99	97
Canmore	8	103	111	99	98	104	XX	111	XX	102	95	97	127	95	93	106
Champion	8	105	116	97	109	105	XX	116	XX	104	99	97	113	94	105	105
Tr12733	8	106	125	102	105	103	XX	125	XX	103	93	93	124	88	103	101
Tr13740	8	104	109	92	112	106	XX	109	XX	103	99	94	114	92	108	96
Varieties tested in the 2012-2014 trials (Yield and agronomic data only directly comparable to Vivar)																
Vivar (t/ac)		8.9	8.5	10.2	5.9	10.3	6.3	6.1	9.5	10.8	10.5	66.2	0.4	0.2	1.3	0.2
Vivar		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Busby	19	101	96	100	91	105+	96	96	97	105	98	100	93	103	97	86
CDC Coalition	19	99	97	95	115	94	108	104	90	97	100	100	78	109	103	84
CDC Cowboy	19	111+	106	106	134	112+	109+	115+	111	109	94	98	92	111	111	98
Chigwell	19	98	84	97	112	94-	106	103	84	98	99	100	108	103	102	96
Conlon	13	92-	72	92	XX	88-	103	96	76	94	91	99	89	109	95	84
Gadsby	19	110+	115	110	122	107	112	116+	110	107	95	100	94	103	97	88
Muskwa	13	95	106	90	XX	91-	101	97	93	95	99	100	111	107	116	101
Ponoka	19	105	95	103	129	105	104	108	96	104	95	99	108	105	101	96
Ranger	13	100	114	99	92	99	98	98	100	101	96	98	108	106	113	102
Seebe	19	105	100	106	118	104	103	107	98	104	101	97	97	111	110	85
Sundre	19	97	99	95	106	95	102	95	95	99	100	99	100	108	112	97
Trochu	18	96	XX	93	94	99	93	92	88	99	98	101	103	111	107	100
Xena	19	103	92	104	108	100	108	107+	92	102	99	100	83	108	98	88

## TRITICALE

Variety	Overall Station Years of Testing	Overall Yield	Area (t/ac)					Yield Category			Nutritional Data					
			2	3	4	5	6	Low < 8.0 (t/ac)	Medium 8.1-12.0 (t/ac)	High > 12.1 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to Taza)																
Taza (t/ac)		10.6	9.7	12.3	8.5	10.7	8.9	6.4	10.8	14.2	8.9	62.7	0.2	0.2	1.3	0.1
Taza	30	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
AAC Chiffon	8	111	124	123	118	92	126	105	113	114	97	101	88	97	106	108
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
Pasteur	8	94	110	96	97	84	103	91	99	91	107	103	96	99	107	117
Sadash	8	102	111	102	109	91	121	101	108	97	99	99	88	91	110	105
Sunray	23	98	93	100	101	99	96	95	100	96	104	104	106	100	105	104
Tyndal	29	98	97	105	109	95-	96	101	98	98	103	101	102	103	98	105
Varieties tested in the 2012-2014 trials (Yield and agronomic data only directly comparable to Pronghorn)																
Pronghorn (t/ac)		10.4	11.9	11.5	5.2	10.5	8.2	6.6	10.7	14.5	9.3	62.4	0.2	0.2	1.5	0.1
Pronghorn	21	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Bunker	21	98	89	92	101	102	98	98	99	94	103	98	116	98	93	110

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# PULSE MIXTURES

Variety	Overall Station Years of Testing	Overall Yield	Area (t/ac)						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 (%)	Mg (%)	
Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Austenson)																	
CDC Austenson (t/ac)		7.3	5.3	XX	XX	9.3	XX	5.3	9.3	XX	10.2	64.5	0.4	0.2	1.3	0.2	
CDC Austenson		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
CDC Baler	2	108+	111	XX	XX	106	XX	111	106	XX	89	95	104	90	122	97	
Taza	2	105	110	XX	XX	100	XX	110	100	XX	85	95	82	88	103	89	
CDC Austenson/CDC Horizon	2	101	109	XX	XX	93	XX	109	93	XX	110	96	165	107	127	131	
CDC Austenson/CDC Meadow	2	97	105	XX	XX	89	XX	105	89	XX	106	98	138	94	125	122	
CDC Baler/CDC Horizon	2	100	111	XX	XX	89	XX	111	89	XX	92	93	146	96	136	111	
CDC Baler/CDC Meadow	2	99	105	XX	XX	93	XX	105	93	XX	101	96	141	99	138	113	
Taza/CDC Horizon	2	96	96	XX	XX	97	XX	96	97	XX	112	95	170	99	130	128	
Taza/CDC Meadow	2	92	99	XX	XX	85	XX	99	85	XX	92	94	165	96	109	121	
Varieties tested in the 2012-2014 trials (Yield and agronomic data only directly comparable to Vivar)																	
Vivar (t/ac)		8.6	7.9	11.2	4.4	9	8	5.8	9.7	10.3	9.4	63.5	0.5	0.2	1.2	0.2	
Vivar		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Murphy	18	119+	102	106	158	123+	100	129	108	125+	88	94	77	99	129	88	
Pronghorn	19	111	98	96	109	116	114	106	105	122	96	101	63	105	103	75	
40-10 /Murphy	12	105	XX	90	132	102	92	122	86	113	142	98	161	129	117	141	
40-10 /Pronghorn	12	104	XX	97	112	105	93	110	88	122	125	98	150	115	103	134	
40-10 /Vivar	12	97	XX	68	108	92	121	114	84	97	140	98	170	107	108	141	
CDC Horizon/Murphy	19	112	82	106	144	113	102	121	97	120+	114	94	130	100	124	114	
CDC Horizon/Pronghorn	19	111	85	98	133+	111	117	120	101	112	125	98	143	105	105	106	
CDC Horizon/Vivar	19	98	94	99	112	96	94	103	87-	105	128	97	162	101	107	116	
CDC Meadow/Murphy	7	105	74	105	XX	117+	103	96	94	119+	104	95	116	101	123	95	
CDC Meadow/Pronghorn	7	101	81	91	XX	109	118	107	95	101	122	99	124	113	105	95	
CDC Meadow/Vivar	7	99	92	94	XX	104	98	101	98	98	115	100	187	89	98	119	

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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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Nikkel, Ed / Lethbridge / AB / (403) 792-2116				C
<b>VERDANT</b>				
<b>BI: N/A, Dist: Gold Medal Seeds</b>				
Gold Medal Seeds Limited / Brooks / AB / (403) 362-3444				C
Jakobsen, Brent / Tilley / AB / (403) 377-2980				C
<b>VISION</b>				
<b>BI: N/A, Dist: DLF Pickseed</b>				
Dyck, Daryl / Rosemary / AB / (403) 378-3804				C
<b>VR TOTAL</b>				
<b>BI: N/A, Dist: CPS (Canada) Inc.</b>				
Gold Medal Seeds Limited / Brooks / AB / (403) 362-3444				C
<b>WL 319HQ</b>				
<b>BI: N/A, Dist: Gold Medal Seeds</b>				
Gold Medal Seeds Limited / Brooks / AB / (403) 362-3444				C
<b>WL353LH</b>				
<b>BI: N/A, Dist: Gold Medal Seed</b>				
Gold Medal Seeds Limited / Brooks / AB / (403) 362-3444				C
<b>WL354HQ</b>				
<b>BI: N/A, Dist: Gold Medal Seeds</b>				
Gold Medal Seeds Limited / Brooks / AB / (403) 362-3444			F	C
<b>YELLOWHEAD</b>				
<b>BI: AAFC, Dist: AAFC</b>				
Kerschbaumer, John A. / Fairview / AB / (780) 835-4508				C
<b>BROMEGRASS</b>				
		S	F	R C
<b>AC KNOWLES</b>				
<b>BI: AAFC (Saskatoon), Dist: CPS (Canada) Inc.</b>				
Dechant, Clem / Hotchkiss / AB / (780) 836-2715				C
Hanson, A. Serle / Valhalla Centre / AB / (780) 358-2286				C
<b>ADMIRAL</b>				
<b>BI: N/A, Dist: AAFC</b>				
Card, Gordon B. / Magrath / AB / (403) 758-3444				C

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**BI: AAFC (Saskatoon), Dist: Phillip's Seeds Ltd.**

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Hadland, Edward / Baldonnel / BC / (250) 793-9746  
Kerschbaumer, John A. / Fairview / AB / (780) 835-4508  
Noble, Robert / Manning / AB / (780) 836-2337  
Sallis, Gary / Manning / AB / (780) 836-2381

## FLEET

**BI: AAFC (Saskatoon), Dist: SeCan Members**

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069  
Dynamic Seeds Ltd. / Fairview / AB / (780) 835-5435  
Hadland, Edward / Baldonnel / BC / (250) 793-9746  
Hanson, Troy / Valhalla Centre / AB / (587) 343-2286  
Hostettler, Fritz / Bluesky / AB / (780) 835-4761  
Kerschbaumer, John A. / Fairview / AB / (780) 835-4508  
Van Garderen, Kees / Picture Butte / AB / (403) 738-4203  
Vanderstoel, Jeroen & Maureen / Enchant / AB / (403) 654-2653

## MANCHAR

**BI: N/A, Dist: No Rep**

Dynamic Seeds Ltd. / Fairview / AB / (780) 835-5435  
Obrigewitch, Trevor / Fairview / AB / (780) 835-4763

## PEAK

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

Moskalyk, Kent / Fairview / AB / (780) 835-8378

## CICER MILKVETCH

## ARC ASPEN

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

Andersen, Terry / Bon Accord / AB / (780) 916-5712

## CLOVER

## AURORA

**BI: AAFC (Beaverlodge), Dist: BrettYoung Seeds Ltd.**

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069  
Limoges, Daniel / Girouxville / AB / (780) 833-1287

## FRIDA

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

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

## NORGOLD

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

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

## FESCUE

## BOREAL

**BI: AAFC (Beaverlodge), Dist: CPS (Canada) Ltd.**

Carlstad, Tyler / Bear Canyon / AB / (780) 835-0505  
Dynamic Seeds Ltd. / Fairview / AB / (780) 835-5435  
Hill, Gordon P & Blair / Taylor / BC / (250) 789-3469  
Jones, Danny / Beaverlodge / AB / (780) 354-8089  
Moore Seed Processors Inc. / Debolt / AB / (780) 957-3964  
Richard, Gerald / Spirit River / AB / (780) 864-2339

## ORACLE

**BI: AAFC (Beaverlodge), Dist: CPS (Canada) Ltd.**

Hegland, David Olaf / Wembley / AB / (780) 766-2450  
Longson, A. Keith / Beaverlodge / AB / (780) 831-7998

## PRADEL

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

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

## PREVAL

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

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

## ORCHARDGRASS

## KILLARNEY

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

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

## RYEGRASS

## NORLEA

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

Hadland, Edward / Baldonnel / BC / (250) 793-9746

## SWIFT

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

Whitney, David / Fairview / AB / (780) 835-4897

## TIMOTHY

## ALMA

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

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

## BARPENTA

**BI: N/A, Dist: Union Forage**

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## CLIMAX

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

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## DERBY

**BI: N/A, Dist: Growmark Inc.**

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

## DOLINA

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

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

## PROMESSE

**BI: BrettYoung Seeds Ltd, Dist: BrettYoung Seeds Ltd**

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

## RICHMOND

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

Turner, Lorne / Eckville / AB / (403) 746-5831

## SUMMERGRAZE

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

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

## TENHO

**BI: Boreal Plant Breeding (Finland), Dist: Moore Seed Processors Inc.**

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

## TIFFANY

**BI: N/A, Dist: Seed-Link Inc.**

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

## TILLER

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

Coons, Stanley / Bonanza / AB / (780) 353-2381

## TITAN (LISCHKA IN GERMANY)

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

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

## TUUKKA

**BI: Boreal Plant Breeding (Finland), Dist: Moore Seed Processors Inc.**

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

## WINNETOU

**BI: N/A, Dist: Parsons Seeds Ltd.**

BrettYoung Seeds Limited / Rycroft / AB / (780) 765-3069

# WHEATGRASS

S F R C

## AC SALTANDER

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

Miller, Kenneth F. / Milk River / AB / (403) 647-2127

## ELBEE

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

Limoges, Daniel / Girouxville / AB / (780) 833-1287

## FAIRWAY

**BI: N/A, Dist: FP Genetics**

Whitney, David / Fairview / AB / (780) 835-4897

## GREENLEAF

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

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

## KIRK

**BI: AAFC (Saskatoon), Dist: SeCan Members**

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

Hadland, Arthur Austin / Baldonnel / BC / (250) 789-3566

Limoges, Daniel / Girouxville / AB / (780) 833-1287

## NEWKIRK

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

Limoges, Daniel / Girouxville / AB / (780) 833-1287

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**BI: N/A, Dist: No Rep**

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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 Agriculture and Forestry (AF). Funding for the program is provided by Agriculture and Agri-Food Canada (Growing Forward 2), AARD, APG and entry fees (private companies) for the varieties being tested.

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

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

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

- Significant statistical differences relative to the standard check are indicated.

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

The following trials were grown in 2015:

- 18 green and yellow pea sites established across Alberta and two sites in northeastern British Columbia;
- Four chickpea trials at Bow Island, Brooks, Lethbridge and Medicine Hat;
- Five lentil trials at Bow Island, Brooks, Lethbridge, Medicine Hat and Oyen
- Three wide-row dry bean trials at Bow Island, Lethbridge and Vauxhall;
- A narrow row dry bean trial in Lethbridge;
- 11 fababean and eight soybean trials established across Alberta.

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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### Guttino Hybrid Rye

Exceptional yields, very high falling numbers, strong straw

### AAC Gateway WW

High yielding with FHB resistance

### Cardale HRSW

Semi-dwarf, good lodging, FHB resistant with good yield

### Muskwa Barley

6-row, smooth awn, semi-dwarf, one of the top yielders in 2012 AB variety trials

### Sunray Triticale

Short, strong straw, high yielding with improved Ergot resistance



## DRY BEANS - WIDE ROW

Variety	Type	Overall Station Years of Testing	Yield (% of check)	Days to Bloom <sup>1</sup>	Days to Maturity	TSW <sup>2</sup> (g)	Plant Height (cm)	Lodging <sup>3</sup> (1-5)	Growth Habit <sup>4</sup>
<b>AC Black Diamond (kg/ha)</b>			<b>3075</b>						
<b>AC Black Diamond</b>	<b>Black Shiny</b>		<b>100</b>	<b>57</b>	<b>102</b>	<b>265</b>	<b>38</b>	<b>2.2</b>	<b>II</b>
AAC Black Diamond 2	Black Shiny	5	105	58	1	264	38	2.3	II
CDC Blackcomb	Black Matte	11	79	62	0	178	35	1.8	II
<b>Island (kg/ha)</b>			<b>3765</b>						
<b>Island</b>	<b>Pinto</b>		<b>100</b>	<b>56</b>	<b>99</b>	<b>370</b>	<b>42</b>	<b>3.0</b>	<b>II</b>
AAC Burdett	Pinto	5	100	55	-5	364	45	2.2	II
CDC WM-2	Pinto	14	76	56	1	369	40	2.5	II
Medicine Hat	Pinto	12	93	61	4	354	42	2.4	II
Winchester	Pinto	13	85	56	4	337	40	2.5	II
<b>AAC Tundra (kg/ha)</b>			<b>3562</b>						
<b>AAC Tundra</b>	<b>Great Northern</b>		<b>100</b>	<b>52</b>	<b>96</b>	<b>353</b>	<b>42</b>	<b>2.9</b>	<b>II</b>
AAC Whitehorse	Great Northern	8	96	51	0	376	43	2.8	II
L10GN821 (A)	Great Northern	2	103	54	-2	357	53	2.9	II
AC Polaris	Great Northern	6	107	62	7	300	37	4.1	II
AC Resolute	Great Northern	8	95	51	2	352	44	2.5	II
<b>AC Redbond (kg/ha)</b>			<b>3149</b>						
<b>AC Redbond</b>	<b>Small Red</b>		<b>100</b>	<b>52</b>	<b>100</b>	<b>319</b>	<b>40</b>	<b>2.4</b>	<b>II</b>
<b>CDC Sol (kg/ha)</b>			<b>2313</b>						
<b>CDC Sol</b>	<b>Yellow</b>		<b>100</b>	<b>55</b>	<b>104</b>	<b>409</b>	<b>33</b>	<b>1.5</b>	<b>I</b>
Myasi	Yellow	9	89	63	6	350	34	2.1	I
<b>Viva (kg/ha)</b>			<b>3137</b>						
<b>Viva</b>	<b>Pink</b>		<b>100</b>	<b>54</b>	<b>102</b>	<b>258</b>	<b>34</b>	<b>3.8</b>	<b>III</b>

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

## DRY BEANS - NARROW ROW

Variety	Type	Overall Station Years of Testing	Yield (% of check)	Days to Bloom <sup>1</sup>	Days to Maturity	TSW <sup>2</sup> (g)	Plant Height (cm)	Lodging <sup>3</sup> (1-5)	Growth Habit <sup>4</sup>
<b>AC Black Diamond (kg/ha)</b>			<b>3135</b>						
<b>AC Black Diamond</b>	<b>Black Shiny</b>		<b>100</b>	<b>57</b>	<b>103</b>	<b>252</b>	<b>36</b>	<b>2.3</b>	<b>II</b>
AAC Black Diamond 2	Black Shiny	3	106	60	5	270	33	1.8	II
CDC Blackcomb	Black Matte	5	79	64	2	189	35	1.3	II
<b>Island (kg/ha)</b>			<b>4106</b>						
<b>Island</b>	<b>Pinto</b>		<b>100</b>	<b>56</b>	<b>103</b>	<b>345</b>	<b>42</b>	<b>2.7</b>	<b>II</b>
AAC Burdett	Pinto	4	98	58	-4	376	40	1.3	II
CDC Marmot	Pinto	4	87	55	-7	423	35	2.2	I
CDC WM 2	Pinto	8	80	56	2	350	41	2.4	II
Medicine Hat	Pinto	7	100	62	3	343	44	2.0	II
Winchester	Pinto	5	80	58	6	302	45	2.1	II
<b>AAC Tundra (kg/ha)</b>			<b>4684</b>						
<b>AAC Tundra</b>	<b>Great Northern</b>		<b>100</b>	<b>54</b>	<b>99</b>	<b>374</b>	<b>44</b>	<b>2.4</b>	<b>II</b>
AAC Whitehorse	Great Northern	4	109	53		396	43	2.4	II
L10GN821 (A)	Great Northern	1	109	48	-6	386	51	2.0	II
AC Polaris	Great Northern	14	76	58	5	329	35	3.4	II
AC Resolute	Great Northern	16	65	54	0	372	39	2.4	II
<b>AC Redbond (kg/ha)</b>			<b>2658</b>						
<b>AC Redbond</b>	<b>Small Red</b>		<b>100</b>	<b>51</b>	<b>101</b>	<b>296</b>	<b>38</b>	<b>2.5</b>	<b>II</b>
<b>CDC Sol (kg/ha)</b>			<b>1887</b>						
<b>CDC Sol</b>	<b>Yellow</b>		<b>100</b>	<b>59</b>	<b>111</b>	<b>385</b>	<b>33</b>	<b>1.6</b>	<b>I</b>
<b>Viva (kg/ha)</b>			<b>2380</b>						
<b>Viva</b>	<b>Pink</b>		<b>100</b>	<b>52</b>	<b>100</b>	<b>252</b>	<b>30</b>	<b>3.5</b>	<b>III</b>

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

## BEANS

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CDC MARMOT

BI: CDC, Dist: N/A

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R



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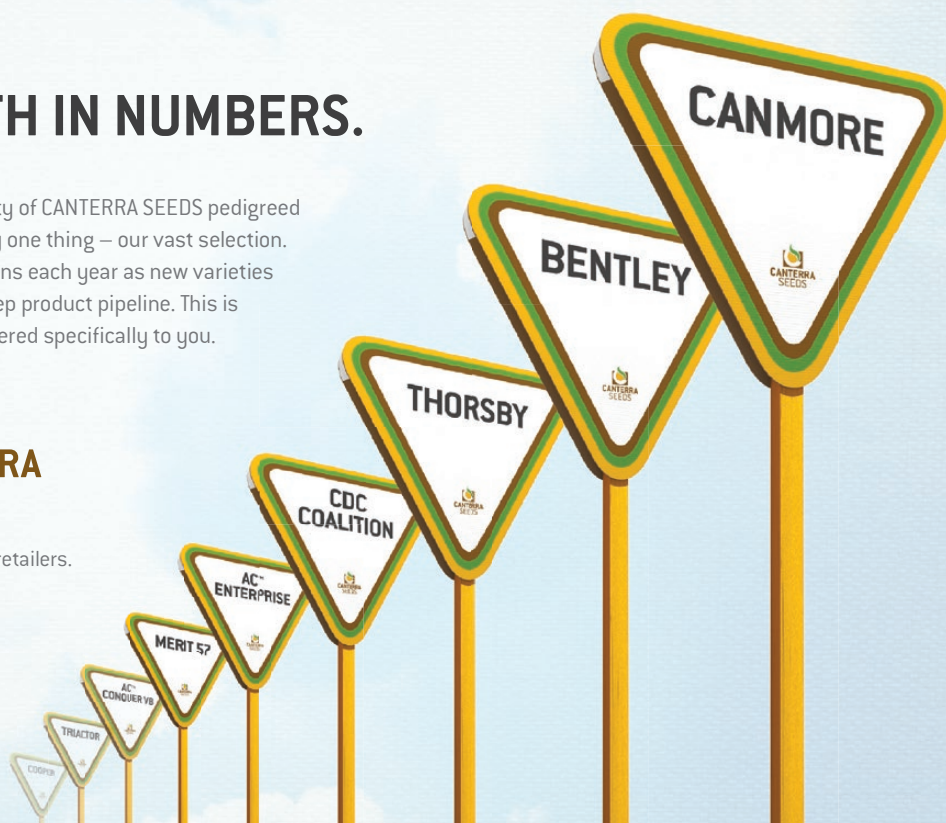
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# CHICKPEAS

Variety	Type	Overall Station Years of Testing	Overall Yield <sup>1</sup>	Agronomic Characteristic			Tolerance to Ascochyta <sup>4</sup>
				TSW <sup>2</sup> (g)	Maturity Rating <sup>3</sup>	Plant Height (cm)	
Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Frontier)							
CDC Frontier (kg/ha <sup>-1</sup> )			3809				
CDC Frontier <sup>1</sup>	Kabuli		100	364	L	43	F
CDC Consul (A)	Desi	4	94	313	M	36	F
CDC Corinne	Desi	14	107	253	M	44	F
CDC Cory	Desi	14	102	282	M	45	F
CDC Palmer (A)	Desi	4	95	424	M	34	F
CDC Vanguard	Desi	16	92	230	ML	42	F
Amit	Kabuli	28	90	268	L	44	F
CDC Alma	Kabuli	18	90	384	ML	38	VP
CDC Leader	Kabuli	14	98	402	ML	40	F
CDC Luna	Kabuli	19	88	377	ML	38	P
CDC Orion	Kabuli	18	95	453	ML	42	P
Previously tested varieties							
CDC Cabri	Desi	25	93	624	E	46	F
CDC Chichi	Kabuli	8	77	343	M	47	P
CDC Chico	Kabuli	8	87	251	E	46	VP
CDC Diva	Kabuli	15	71	447	L	41	F
CDC Xena	Kabuli	15	72	445	L	41	VP
CDC Yuma	Kabuli	15	73	418	L	45	P
Sanford	Kabuli	15	69	407	L	47	VP

**REMARKS:** All four trials: Bow Island, Brooks, Lethbridge and Medicine Hat were grown in Area 1. A = First year entries (2015). <sup>1</sup>Yields are reported relative to CDC Frontier. <sup>2</sup>TSW: Thousand Seed Weight. <sup>3</sup>Maturity Ratings: E = Early, M = Medium, ML = Medium to Late, L = Late. <sup>4</sup>Tolerance to Ascochyta: VP = Very Poor, P = Poor, F = Fair.

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# CHICKPEAS

## CDC ORION

BI: CDC, Dist: N/A

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S F R C

S

# HEMP

## HEMPNUT

BI: N/A, Dist: N/A

Wiens, David Paul / Lomond / AB / (403) 739-3762

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C

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# FABA BEANS

Variety	Type	Overall Station Years of Testing	Overall Yield	Relative Maturity <sup>1</sup>	Plant Height (cm)	Thousand Seed Weight (g)	Flower Colour <sup>2</sup>
<b>Varieties tested in the 2013-2015 trials (Yield and agronomic data only directly comparable to Snowbird)</b>							
<b>Snowbird (kg/ha)</b>			<b>5982</b>				
<b>Snowbird</b> ☼	<b>Zero Tannin</b>		<b>100</b>	<b>E</b>	<b>91</b>	<b>480</b>	<b>W</b>
Malik	Tannin	23	94	M	84	621	C
Snowdrop ☼	Zero Tannin	23	88-	E	87	351	W
Tabasco	Zero Tannin	15	85-	M	86	374	W
<b>Fully Tested Varieties: 2000-2007 (Yield and agronomic data only directly comparable to Earlibird)</b>							
<b>Earlibird</b> ☼ (kg/ha) <sup>1</sup>			<b>5994</b>				
<b>Earlibird</b> ☼†	<b>Tannin</b>		<b>100</b>	<b>E</b>	<b>93</b>	<b>522</b>	<b>C</b>
Ben ☼†	Tannin	7	113+	E	101	563	C

**REMARKS:** All coloured flower types have seed coats that contain tannins and may be suitable for export food markets if seed size and quality match customer demand. Varieties tested for a minimum three years are considered fully tested. ☼ - Protected by Plant Breeders' Rights (PBR); R - Registered with CFIA. Varieties removed from the table: FB18-20 and Imposa. † - Flagged for removal. <sup>1</sup>Maturity: E = early, M = medium, ML = medium late, L = late; <sup>2</sup>Flower Colour: W = white flower, zero tannin; C = coloured flower, tannin.

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 Stamp Seeds / Enchant / AB / (403) 739-2233  
 Stickland, Brian & Melvin G. & Irma / Red Deer / AB / (403) 886-4875  
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## CDC SSNS-1

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

Plett, Donald H. / Gem / AB / (403) 641-2494

## FB 9-4

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

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# LENTILS

Market Class	Variety	Overall Station Years of Testing	Overall Yield	TSW <sup>2</sup> (g)	Agronomic Characteristic			Disease Tolerance <sup>6</sup>		
					Plant Height (cm)	Maturity Rating <sup>3</sup>	Cotyledon Colour <sup>4</sup>	Seed Coat Colour <sup>5</sup>	Ascochyta	Anthracnose
Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Maxim)										
	CDC Maxim (kg/ha-1)		2871							
	CDC Maxim <sup>1</sup>		100	41	34	E	R	GR	G	G
Extra Small Red	CDC Impala (CL)	21	93	31	34	E	R	GR	G	G
	CDC Rosie	11	99	31	36	EM	R	GR	G	G
	CDC Ruby	18	90	29	32	E	R	GR	G	G
Small Red	CDC Dazil (CL)	17	98	36	35	E-M	R	GR	G	F
	CDC Imax (CL)	20	101	45	37	E-M	R	GR	G	F
	CDC Redcliff	15	108	39	35	E-M	R	GR	G	F
	CDC Scarlet	11	107	40	36	EM	R	GR	G	F
Large Red	CDC KR-1	15	106	53	39	M	R	GR	G	G
Small Green	CDC Invincible (CL)	20	98	34	36	E	Y	G	G	G
Medium Green	CDC Imigreen (CL)	15	79	59	42	M	Y	G	G	VP
	CDC Impress (CL)	15	86	52	37	M	Y	G	G	P
Large Green	CDC Greenland	15	88	65	38	M-L	Y	G	G	VP
	CDC Impower (CL)	15	88	69	41	ML	Y	G	G	VP
	CDC Improve (CL)	15	89	72	39	M	Y	G	F	VP
Previously tested varieties (Yield and agronomic data only directly comparable to CDC Redberry)										
	CDC Redberry (kg/ha-1)		2600							
	CDC Redberry <sup>1</sup>		100	43	36	E	R	GR	G	G
	CDC Imperial (CL)	20	90	30	36	E	R	GR/BR	G	G
Extra Small Red	CDC Robin	13	90	28	34	E	R	BR	G	G
	CDC Redbow	13	104	32	34	E	R	GR	G	G
	CDC Rosebud	13	99	30	34	E	R	T	G	G
	CDC Rosetown	20	105	31	37	E	R	GR	G	G
Small Red	CDC Blaze	7	93	35	31	E-M	R	GR	G	P
	CDC Cherie	3	108	40	32	E-M	R	G	G	F
	CDC Impact (CL)	8	85	37	34	E	R	GR	G	P
	CDC Redcoat	13	98	42	34	E	R	GR	G	G
	CDC Rouleau	3	103	37	38	M	R	GR	G	G
	Crimson	5	79	34	26	E	Y	BR	VP	VP
Small Green	CDC Milestone	13	101	37	32	E	Y	G	G	VP
	CDC Viceroy	7	111	31	35	E	Y	G	G	G
	Eston	3	93	33	36	E	Y	G	VP	VP
French Green	CDC Peridot (CL)	2	105	38	XX	E	Y	MRB	F	P
Spanish Brown	Pardina	2	86	42	XX	X	Y	GR/DT	VP	VP

**REMARKS:** Weight, diameter and thickness of lentil seeds were dependent upon environmental conditions and agronomic factors. All five trials: Bow Island, Brooks, Lethbridge, Medicine Hat and Oyen were grown in Area 1. CL= Clearfield variety; XX = No data available. <sup>1</sup>Yields are reported relative to CDC Redberry. CDC Redberry 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 Colour: 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, DT = Dotted; <sup>6</sup>Disease tolerance: VP = Very Poor, P = Poor, F = Fair and G = Good.

## LENTILS

### CDC DAZIL

BI: CDC, Dist: N/A

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### CDC GREENSTAR

BI: CDC, Dist: University of Saskatchewan

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

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

### CDC IMAX

BI: CDC, Dist: University of Saskatchewan

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

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### CDC IMPULSE

BI: CDC, Dist: University of Saskatchewan

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

### CDC MARBLE

BI: CDC, Dist: University of Saskatchewan

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

### CDC MAXIM

BI: CDC, Dist: University of Saskatchewan

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BI: N/A, Dist: AAFC (Saskatoon)

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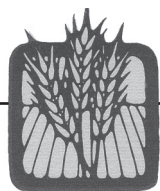
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# FIELD PEAS - GREEN

Variety	Overall Station Years of Testing	Overall Yield (%)	South		East Central		West Central		Peace		Agronomic Characteristics			
			Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Maturity Rating <sup>1</sup>	Vine Length (cm)	TSW <sup>2</sup> (g)	Standability <sup>3</sup> (1-9)
Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Limerick)														
CDC Limerick (kg/ha)		4463		3277		5316		5963		4016				
CDC Limerick		100		100		100		100		100	L	74	211	3
AAC Radius	30	91-	8	96	6	89-	5	81-	11	93-	M	71	215	2.8
AAC Royce (A)	13	96	3	98	2	95	2	83	6	100	M	52	256	2.8
CDC Greenwater	28	107+	8	109	6	100	5	113	9	107+	L	66	227	2.8
Fully tested varieties: 2013-2014 (Yield and agronomic data only directly comparable to CDC Patrick)														
CDC Patrick (kg/ha)		4732		4291		4522		6323		4305				
CDC Patrick		100		100		100		100		100	M	79	187	4.4
CDC Pluto	52	96-	14	100	14	94	8	85-	16	100	M	82	170	6
CDC Raezer	52	105	14	95	14	116+	8	98	16	107	M	89	227	4.2
CDC Tetris	52	106	14	104	14	111+	8	93	16	110+	L	91	215	4.4
Fully tested varieties: 2004-2012 (Yield and agronomic data only directly comparable to Cooper)														
Cooper (kg/ha)		4763		4191		4016		6015		4835				
Cooper ☼		100		100		100		100		100	L	77	270	3.5
CDC Sage	30	82-	3	79	6	82-	8	81-	13	84-	M	75	197	3.3
CDC Striker	38	96-	4	96	8	110	5	104	21	89-	M	74	254	2.8
Mendel ☼	37	91-	6	85-	10	95	6	89-	15	91-	M	78	206	3.9

**REMARKS:** CDC Tetris is an Espace type with blocky seed shape; A = First year entries (2015). ☼ = Protected by Plant Breeder's Rights (PBR); XX = No data available; † = Flagged for removal. <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%).



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## FIELD PEAS - GREEN — *CONT.*

Tolerance to:<sup>4</sup>

Variety	Powdery Mildew	Mycosphae- rella Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling <sup>5</sup>
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Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Limerick)

CDC Limerick (kg/ha)

<b>CDC Limerick</b>	<b>VG</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>VG</b>	<b>G</b>
AAC Radius	VG	F	F	G	G	G
AAC Royce (A)	VG	F	F	G	F	F
CDC Greenwater	VG	F	G	G	F	F

Fully tested varieties: 2013-2014 (Yield and agronomic data only directly comparable to CDC Patrick)

CDC Patrick (kg/ha)

<b>CDC Patrick</b>	<b>VG</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>
CDC Pluto	VG	F	F	G	G	G
CDC Raezer	VG	F	G	G	G	G
CDC Tetris	VG	F	G	G	G	G

Fully tested varieties: 2004-2012 (Yield and agronomic data only directly comparable to Cooper)

Cooper (kg/ha)

<b>Cooper</b> ☺	<b>VG</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>F</b>	<b>G</b>
CDC Sage	VG	F	G	G	VG	G
CDC Striker	P	F	G	G	G	F
Mendel ☺	VG	F	F	G	F	G

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# FIELD PEAS - YELLOW

Variety	Overall Site Years of Testing	Overall Yield	South		East Central		West Central		Peace		Agronomic Characteristics			
			Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Maturity Rating <sup>1</sup>	Vine Length (cm)	TSW <sup>2</sup> (g)	Standability <sup>3</sup> (1-9)
Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Amarillo)														
CDC Amarillo (kg/ha)		4910		3336		5534		6962		4669				
CDC Amarillo		100		100		100		100		100	M	77	224	2.5
AAC Lacombe ▲	46	105+	13	106+	12	100	7	109	14	107+	M	73	254	2.3
AAC Peace River	48	92-	13	95	12	88-	7	85	16	97	VE	68	217	3.8
CDC Inca (A)	13	103	4	110	3	95	2	109	4	101	M	77	233	1.3
LN4228	30	91-	9	95	7	86	5	92	9	91-	M	62	248	1.6
Fully tested varieties: 2012-2014 (Yield and agronomic data only directly comparable to CDC Meadow)														
CDC Meadow (kg/ha)		4982		3740		4762		6350		5189				
CDC Meadow		100		100		100		100		100	E	81	207	3.6
Abarth	49	102	13	106	14	103	8	101	14	99	M	77	249	3.6
CDC Saffron	47	103	13	108	14	101	7	99	13	101	M	84	236	4.3
Hugo ☼	47	93-	11	102	14	83-	8	91	14	96	M	73	210	5.2
Stella ☼ NR F	45	80-	11	76-	14	80-	8	84-	12	80-	M	95	213	3.9
Fully tested varieties: 2003-2011 (Yield and agronomic data only directly comparable to Cutlass)														
Cutlass (kg/ha) ☼		4485		3183		3702		5692		4816				
Cutlass ☼ †		100		100		100		100		100	M	72	227	4
Agassiz ☼	43	103	6	100	9	102	9	102	19	104	M	77	237	2.9
Argus ☼ †	33	105+	7	100	9	114+	5	104	12	100	M	89	227	4.1
CDC Centennial †	34	100	4	95	8	94	9	104	13	102	E	60	260	4.8
CDC Hornet	43	107+	10	101	12	116+	8	111+	13	102	M	89	215	3.7
CDC Prosper NR	44	97-	6	93	11	96	9	97	18	99	E	73	150	3.9
CDC Treasure NR	44	100	6	96	11	105	9	99	18	100	E	80	217	3.4
DS-Admiral ☼ †	50	101	8	101	10	104	13	98	18	102	M	71	243	3.3
Eclipse ☼ †	79	100	13	101	18	98	20	99	27	102	M	65	249	2.9
Polstead ☼ †	36	101	4	96	8	96	9	99	15	105	E	62	263	3.5
Reward ☼ †	33	101	4	90	8	105+	9	102	12	102	M	76	249	2.4
SW Midas ☼ †	46	97	7	97	10	101	11	91-	18	99	E	66	212	3.1
Thunderbird	37	97	6	89	9	99	9	99	13	98	M	76	229	2.1
Fully tested varieties: 2000-2005 (Yield and agronomic data only directly comparable to CARRERA)														
CARRERA (kg/ha)		4126		2317		3151		5098		4681				
CARRERA ☼		100		100		100		100		100	E	55	256	4.6
CDC Bronco †	35	100	7	87	8	104	8	94	11	110	M	65	217	4
CDC Golden	35	103	7	97	8	107	8	102	11	105	M	71	224	3.4
CDC Minuet †	47	101	7	98	12	100	11	92	12	107	M	66	192	4.9
CDC Mozart †	33	105	5	106	7	107	7	97	14	107	M	63	243	6.1
REMARKS: Stella is a silage type pea. ☼ = Protected by Plant Breeder's Rights (PBR). ▲ = Applied for PBR protection. A = First year entries (2015). NR = Variety not registered with CFIA. F = Forage type. XX = No data available. <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%).														

**REMARKS:** Stella is a silage type pea. ☼ = Protected by Plant Breeder's Rights (PBR). ▲ = Applied for PBR protection. A = First year entries (2015). NR = Variety not registered with CFIA. F = Forage type. XX = No data available. <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 PEAS - YELLOW — *CONT.*

Variety	Tolerance to <sup>4</sup>					
	Powdery Mildew	Mycosphae-rella Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling <sup>5</sup>	Green Seed Coat <sup>6</sup>
<b>Varieties tested in the 2015 trials (Yield and agronomic data only directly comparable to CDC Amarillo)</b>						
<b>CDC Amarillo (kg/ha)</b>						
<b>CDC Amarillo</b>	<b>VG</b>	<b>F</b>	<b>G</b>	<b>F</b>	<b>F</b>	<b>G</b>
AAC Lacombe ▲	VG	F	P	G	F	G
AAC Peace River	VG	F	F	F	G	G
CDC Inca (A)	VG	F	F	G	G	F
LN4228	VG	F	F	F	F	G
<b>Fully tested varieties: 2012-2014 (Yield and agronomic data only directly comparable to CDC Meadow)</b>						
<b>CDC Meadow (kg/ha)</b>						
<b>CDC Meadow</b>	<b>VG</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>G</b>
Abarth	VG	F	F	F	G	G
CDC Saffron	VG	F	F	G	F	G
Hugo ☼	VG	F	F	G	F	F
Stella ☼ NR F	VG	F	F	G	G	F
<b>Fully tested varieties: 2003-2011 (Yield and agronomic data only directly comparable to Cutlass)</b>						
<b>Cutlass (kg/ha) ☼</b>						
<b>Cutlass ☼ †</b>	<b>VG</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>G</b>
Agassiz ☼	VG	F	F	G	VG	G
Argus ☼ †	VG	F	F	F	F	G
CDC Centennial †	VG	F	G	G	G	F
CDC Hornet	VG	F	F	F	F	G
CDC Prosper NR	VG	F	G	G	F	G
CDC Treasure NR	VG	F	F	G	F	F
DS-Admiral ☼ †	VG	P	F	F	G	F
Eclipse ☼ †	VG	F	F	G	F	G
Polstead ☼ †	VG	P	P	F	VG	F
Reward ☼ †	VG	F	F	G	VG	F
SW Midas ☼ †	VG	P	F	G	G	G
Thunderbird	VG	F	F	G	VG	XX
<b>Fully tested varieties: 2000-2005 (Yield and agronomic data only directly comparable to CARRERA)</b>						
<b>CARRERA (kg/ha)</b>						
<b>CARRERA ☼</b>	<b>P</b>	<b>P</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>XX</b>
CDC Bronco †	VG	F	F	G	G	G
CDC Golden	VG	F	F	G	G	G
CDC Minuet †	VG	F	F	F	G	F
CDC Mozart †	VG	F	F	G	G	F

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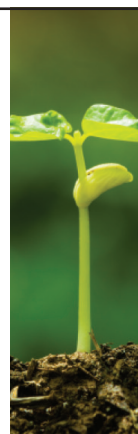
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## PEAS

	S	F	R	C
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<b>BI: N/A, Dist: AAFC</b>				
Mueller, Richard J. & R.R. & Rosemary / Barrhead / AB / (780) 674-2595	S			
<b>AAC CARVER</b> 🍷*				
<b>BI: N/A, Dist: AAFC</b>				
Wuthrich, David / Cecil Lake / BC / (250) 781-3527	S			
<b>AAC LACOMBE</b> 🍷				
<b>BI: AAFC, Dist: SeedNet</b>				
Benci, Dennis / Carmangay / AB / (403) 643-2294	S	F		
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900	S	F		
Kiffiak, Nathan John / Foremost / AB / (403) 867-2338	S	F	R	
Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696	S	F	R	
Markert Seeds / Vulcan / AB / (403) 485-6708	S	F	R	
Mercer Seeds Ltd. / Lethbridge / AB / (403) 327-9736	S	F		
Stamp Seeds / Enchant / AB / (403) 739-2233		F	R	
Van Roessel, William & Jean / Bow Island / AB / (403) 545-6018		F		
Welsh, Donald Alan / Milk River / AB / (403) 647-2228		F		
Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434	S	F	R	
Witdouch, Dale / Iron Springs / AB / (403) 738-4395			R	
<b>AAC PEACE RIVER</b>				
<b>BI: AAFC, Dist: FP Genetics</b>				
Hadland, Edward / Baldonnel / BC / (250) 793-9746	S	F	R	C
<b>ABARTH</b> 🍷				
<b>BI: Limagrain, Dist: FP Genetics</b>				
Airth, Jock & Linda / Brooks / AB / (403) 362-4372				C
Dalton, Dennis / Wainwright / AB / (780) 842-2361				C
Harbin, Clifford T. & Bruce C. / Rivercourse / AB / (780) 745-2268				C
Massey, Derwin / Stettler / AB / (403) 883-2503				C
Nanninga, Justin / Neerlandia / AB / (780) 674-3822				C
Sand, Ron W. & David R. / McLaughlin / AB / (780) 745-2251				C
Sim, Darwin & Derek / Ponoka / AB / (780) 372-2111	S	F		
<b>CDC AMARILLO</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Airth, Jock & Linda / Brooks / AB / (403) 362-4372				C
Brummelhuis, Tara / Vauxhall / AB / (403) 654-2734			R	
Harbin, Clifford T. & Bruce C. / Rivercourse / AB / (780) 745-2268			R	C
Hill, Gordon P. & Blair / Taylor / BC / (250) 789-3469	S			
Hoff, Peter Edward / Gleichen / AB / (403) 734-2140	S	F	R	
Hoffmann, Curtis / Oyen / AB / (403) 664-9617				C
Jacula, Dean S. & Shawn D. / Vermilion / AB / (780) 581-9011				C
Kapitski, Lawrence / Andrew / AB / (780) 365-2134			R	C
Limoges, Richard / McLennan / AB / (780) 324-2335				C
Pare, Raymond A. / Wainwright / AB / (780) 842-2073	S	F		
Penwest Seed / Three Hills / AB / (403) 443-2577		F	R	
Sekulic, Warren, F / Rycroft / AB / (780) 765-2234				C
Sendziak, Don P. & Stephen / Edmonton / AB / (780) 434-1322			R	
Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358		F		C
Tomlinson, Chelsea / Redwater / AB / (780) 777-5885				C
Van Roessel, William & Jean / Bow Island / AB / (403) 545-6018			R	C
Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617		F		
Weigum, Garry & Sarah / Three Hills / AB / (403) 443-2476			R	
Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434	S	F	R	C
<b>CDC BLAZER</b>				
<b>BI: CDC, Dist: N/A</b>				
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900	S			
<b>CDC DAKOTA</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900			R	
<b>CDC GOLDEN</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Degenhardt, Keith L. & Terry L. & Kerry / Hughenden / AB / (780) 856-2383				C
<b>CDC GREENWATER</b>				
<b>BI: CDC, Dist: Saskatchewan Pulse Growers Inc.</b>				
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900	S			
Hadway, Walter Thomas / Didsbury / AB / (403) 335-4929			R	
Hoff, Peter Edward / Gleichen / AB / (403) 734-2140	S	F		
Knight, William, Craig & Brian / Tees / AB / (403) 784-3633		F		
Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358		F		
Thompson, M. Ellwood & Kelly / Red Deer County / AB / (403) 728-3535		F		
Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434	S	F		
<b>CDC HORIZON</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Foster, Norman R. / Beaverlodge / AB / (780) 354-2107				C
Hadland, Edward / Baldonnel / BC / (250) 793-9746	S	F	R	
Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617		F*		C*
<b>CDC HORNET</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358				R
<b>CDC INCA</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Jacula, Dean S. & Shawn D. / Vermilion / AB / (780) 581-9011	S			
Kiffiak, Nathan John / Foremost / AB / (403) 867-2338	S			
Markert Seeds / Vulcan / AB / (403) 485-6708	S	F		
Van Roessel, William & Jean / Bow Island / AB / (403) 545-6018	S			
Welsh, Donald Alan / Milk River / AB / (403) 647-2228	S			
Willms, Henry & Timothy H. / Grassy Lake / AB / (403) 655-2434	S			
<b>CDC LEROY</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358				C
<b>CDC LIMERICK</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Dallas, Bradley C. / Bowden / AB / (403) 224-2162				C
Foster's Seed & Feed Limited / Beaverlodge / AB / (780) 354-2107				C
Galloway Seeds Ltd. / Fort Saskatchewan / AB / (780) 998-3036			C	
Hallett, Dale R. & Richard / Carstairs / AB / (403) 337-3072				R
Hegland, David Olaf / Wembley / AB / (780) 766-2450				C
Hemminger, Patrick / Innisfail / AB / (403) 888-2050				C
Kopjar, Gerald M. / Rowley / AB / (403) 368-2409		F		
Lindholm Seed Farm / New Norway / AB / (780) 352-3240				R
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Moore, Dean W. / Red Deer County / AB / (403) 227-2865				C
Sayer, Roger / Carstairs / AB / (403) 337-5847				C
Sekulic, John Jr. / Rycroft / AB / (780) 765-2280				R
Shultz, Shawn / Didsbury / AB / (403) 335-3694				R
Thompson, M. Ellwood & Kelly / Red Deer County / AB / (403) 728-3535				C
Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617	S	F	R	
<b>CDC MEADOW</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Bell, D. Leslie / Drumheller / AB / (403) 823-9462				C
Benci, Dennis / Carmangay / AB / (403) 643-2294				C
Chin Ridge Seeds Ltd. / Taber / AB / (403) 223-3900				C
Davidson, E. Daryl & Dean / Kitscoty / AB / (780) 846-2456				R
Foster, Norman R. / Beaverlodge / AB / (780) 354-2107				R
Hadland, Edward / Baldonnel / BC / (250) 793-9746		F		R
Hartzler, Leonard / Carstairs / AB / (403) 337-2416				R
Hoff, Peter Edward / Gleichen / AB / (403) 734-2140				C
Kapitski, Lawrence / Andrew / AB / (780) 365-2134				C
Kiffiak, Nathan John / Foremost / AB / (403) 867-2338				C
King, Harold & Webb, David Gordon / Three Hills / AB / (403) 443-7330				R*
Kittle, James William & Andrew / Viking / AB / (780) 336-2583				R
Lefsrud, Kevin J. & Edmund J. / Viking / AB / (780) 336-2500				C
Limoges, Richard / McLennan / AB / (780) 324-2335				C
Lindholm Seed Farm / New Norway / AB / (780) 352-3240				C
Logan, Glenn C. & Marie & Douglas / Lomond / AB / (403) 792-3696				C
Massey, Derwin / Stettler / AB / (403) 883-2503				C
Mastin, Robert B. / Sundre / AB / (403) 556-2609				R
Mueller, Richard J. & R.R. & Rosemary / Barrhead / AB / (780) 674-2595				R
Nemetz, Charlie & Jerritt & Lewis & Brandon / Stettler / AB / (403) 742-0436				R
Page, Dan / Didsbury / AB / (403) 335-4563				C
Pare, Raymond A. / Wainwright / AB / (780) 842-2073				R
Penwest Seed / Three Hills / AB / (403) 443-2577				R*
Radke, Bryan Victor / Barrhead / AB / (780) 674-5715				R
Rewerts, Ken / Fairview / AB / (780) 835-3474				R
Richard, Gerald / Spirit River / AB / (780) 864-2339				C
Richards, Cliff & Dan / Sexsmith / AB / (780) 766-2266				R
Sand, Ron W. & David R. / McLaughlin / AB / (780) 745-2251				C
Sich, Louis John & Ivan & Martin / Trochu / AB / (403) 442-2112				R
Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358				C
Tomlinson, Chelsea / Redwater / AB / (780) 777-5885				C
Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617		S*	F*	
Weigum, Garry & Sarah / Three Hills / AB / (403) 443-2476				R
<b>CDC PATRICK</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Howard, Fred / Wanham / AB / (780) 694-2427				C
King, Harold & Webb, David G. / Three Hills / AB / (403) 443-7330			F*	R*
Penwest Seed / Three Hills / AB / (403) 443-2577				R*
Sich, Louis John & Ivan & Martin / Trochu / AB / (403) 442-2112				C
Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617		F*		C*
<b>CDC PLUTO</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
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 Kapitski, Lawrence / Andrew / AB / (780) 365-2134  
 King, Harold & Webb, David Gordon / Three Hills / AB / (403) 443-7330  
 Knight, William, Craig & Brian / Tees / AB / (403) 784-3633  
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 Krywko, Ronald / Sturgeon County / AB / (780) 459-8224  
 Lefsrud, Kevin J. & Edmund J. / Viking / AB / (780) 336-2500  
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 Sand, Ron W. & David R. / McLaughlin / AB / (780) 745-2251  
 Sayer, Roger / Carstairs / AB / (403) 337-5847  
 Sendziak, Don P. & Stephen / Edmonton / AB / (780) 434-1322  
 Sim, Darwin & Derek / Ponoka / AB / (780) 372-2111  
 Stickland, Brian & Melvin G. & Irma / Red Deer / AB / (403) 886-4875

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 Huvenaars, Carl / Hays / AB / (403) 725-2213  
 Kiffiak, Nathan John / Foremost / AB / (403) 867-2338  
 Kopjar, Gerald M. / Rowley / AB / (403) 368-2409  
 Lefsrud, Kevin J. & Edmund J. / Viking / AB / (780) 336-2500  
 Markert Seeds / Vulcan / AB / (403) 485-6708

Mercer Seeds Ltd. / Lethbridge / AB / (403) 327-9736  
 Penwest Seed / Three Hills / AB / (403) 443-2577  
 Shultz, Shawn / Didsbury / AB / (403) 335-3694  
 Solick, Leonard & Kelsey & Corwin / Halkirk / AB / (403) 884-2358  
 Stamp Seeds / Enchant / AB / (403) 739-2233  
 Warkentin, Harold K. & Errol / Tofield / AB / (780) 662-2617  
 Welsh, Donald Alan / Milk River / AB / (403) 647-2228  
 Welsh, Stuart Jason / Milk River / AB / (403) 647-2228

## CDC STRIKER

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

## CDC TETRIS

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 Rewerts, Ken / Fairview / AB / (780) 835-3474  
 Richard, Gerald / Spirit River / AB / (780) 864-2339  
 Sendziak, Don P. & Stephen / Edmonton / AB / (780) 434-1322  
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## LN4228

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## REDBAT 8

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

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

## REDBAT 88

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

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

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# SOYBEANS

Variety	Overall Station Years of Testing	Agronomic Characteristic												Seeds per Pound					
		Irrigation		South		East Central		West Central		Peace		Days to Flowering	Pod Clearance <sup>2</sup>		Plant Height (cm)	Days to Ma-turity <sup>3</sup>	TSW <sup>4</sup> (g)		
		Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)								
Varieties tested in the 2013-2015 trials (Yield and agronomic data only directly comparable to McLeod)																			
McLeod (kg/ha <sup>-1</sup> )	3070	3515	2210	2558	1164	1452													
McLeod	100	11	100	1	100	1	100	1	100	1	100	1	100	55	8	64	119	152	2987
22-60	4	107	4	107	XX	XX	XX	XX	XX	XX	XX	XX	XX	49	3	53	118	135	3363
23-11	4	106	4	106	XX	XX	XX	XX	XX	XX	XX	XX	XX	52	4	63	118	131	3466
23-60	4	105	4	105	XX	XX	XX	XX	XX	XX	XX	XX	XX	47	3	67	116	137	3314
900Y61	15	85	11	90	1	99	1	55	1	54	1	67	54	7	56	120	150	3027	
Akras	15	112	11	117	1	102	1	76	1	76	1	129	57	11	63	121	137	3314	
CFS12.5.01	4	113	4	113	XX	XX	XX	XX	XX	XX	XX	XX	47	6	70	120	154	2948	
CFS13.2.01	10	107	8	112	1	93	XX	XX	1	80	XX	XX	54	8	68	123	121	3752	
Hero	15	102	11	108	1	103	1	63	1	108	1	77	53	7	65	121	137	3314	
NSC Moosomin	15	87	11	78	1	68	1	144	1	152	1	90	53	6	49	115	138	3290	
NSC Reston	15	101	11	103	1	78	1	91	1	96	1	121	54	8	61	117	128	3547	
NSC Tilston	10	105	8	105	1	98	XX	XX	1	116	XX	XX	50	5	66	119	131	3466	
NSC Vito	15	87	11	89	1	87	1	75	1	87	1	83	53	7	71	120	132	3439	
NSC Watson	4	100	4	100	XX	XX	XX	XX	XX	XX	XX	XX	46	3	58	112	151	3007	
Notus	4	117	4	117	XX	XX	XX	XX	XX	XX	XX	XX	48	3	55	117	166	2735	
P001T34	15	73	11	65	1	60	1	71	1	168	1	70	53	5	46	112	136	3338	
P002T04	10	96	8	89	1	73	XX	XX	1	170	XX	XX	49	4	56	116	126	3603	
P006T78	4	116	4	116	XX	XX	XX	XX	XX	XX	XX	XX	46	4	53	117	154	2948	
PRO2525	4	96	4	96	XX	XX	XX	XX	XX	XX	XX	XX	48	4	71	120	162	2802	
Pekko	15	95	11	102	1	93	1	50	1	63	1	97	57	9	65	118	130	3492	
S0009	4	108	4	108	XX	XX	XX	XX	xx	XX	XX	XX	47	5	60	111	140	3243	
S007	4	114	4	114	XX	XX	XX	XX	XX	XX	XX	XX	47	4	60	117	140	3243	
TH32004	15	99	11	103	1	97	1	80	1	75	1	102	55	7	62	120	134	3388	
TH33003	15	101	11	99	1	83	1	131	1	94	1	122	53	9	66	119	135	3363	
TH33005	15	85	11	99	1	51	1	44	1	XX	1	77	56	8	63	123	136	3338	
TH35002	10	92	8	99	1	76	XX	XX	1	55	XX	XX	52	5	60	121	128	3547	

**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: Notus (Aura). Varieties removed from the table: Sampsa, PH14001, PH14002, PH14003. A - first year entries (2015). <sup>1</sup>Yields are reported relative to McLeod. <sup>2</sup>Distance from the ground level to lowest pod. <sup>3</sup>Maturity - average days for the Brooks, Bow Island and Medicine Hat trials. <sup>4</sup>TSW: Thousand Seed Weight.

## SOYBEANS

### AAC EDWARD

BI: AAFC, Dist: SeCan Members

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

### MAHONY R2

BI: N/A, Dist: Monsanto Canada Inc.

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### OAC MORDEN

BI: N/A, Dist: University of Guelph

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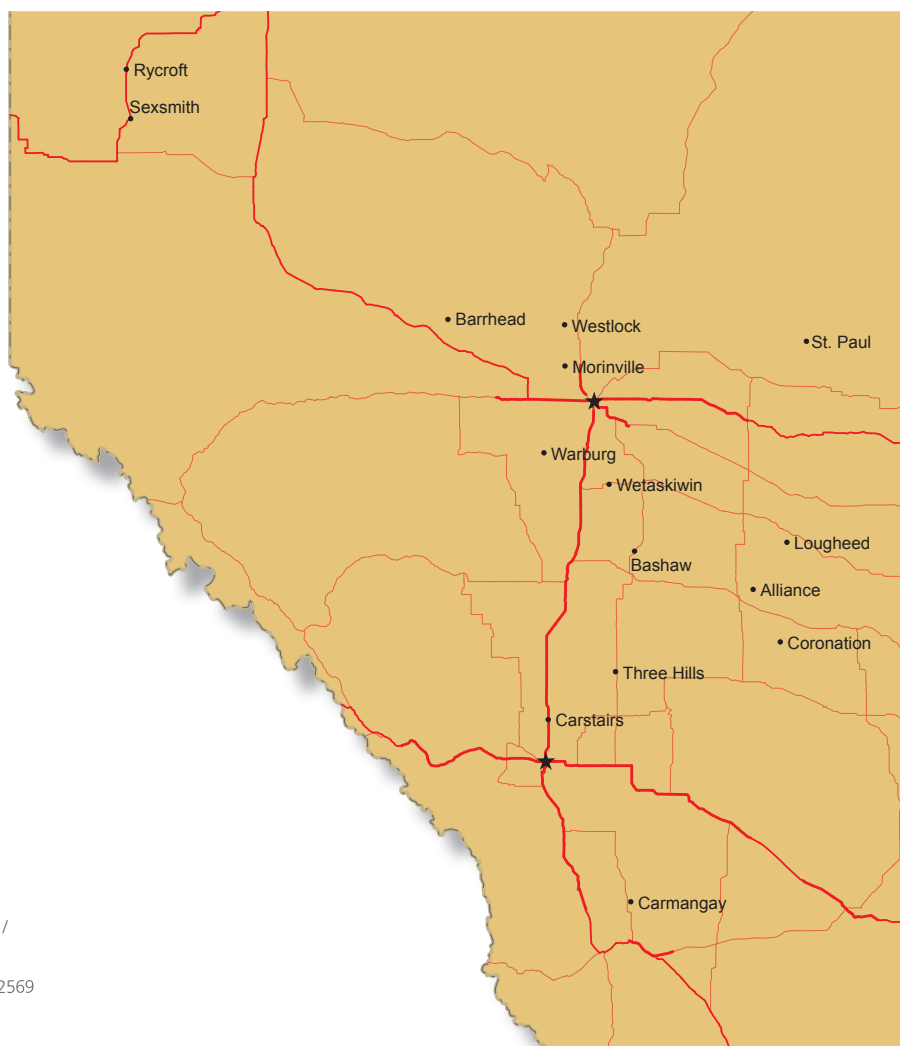
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## SEED CLEANING PLANTS AND TREATING SERVICES IN YOUR COMMUNITY.

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.



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# Five Questions with Canada's New Ag Minister

Lawrence MacAulay is already getting his feet wet in his new political role, and his agenda is a packed one.

**CANADA'S** new agriculture minister was first elected to the House of Commons in 1988 to represent the riding of Cardigan in Prince Edward Island. He won his ninth consecutive election in October 2015. Lawrence MacAulay's cabinet appointments have included Solicitor General of Canada, Minister of Labour, Secretary of State (Veterans), and Secretary of State (Atlantic Canada Opportunities Agency).

Born in 1946 in St. Peter's Bay, P.E.I., MacAulay was previously a potato farmer and businessman. He and his wife have three daughters. The Alberta Seed Guide recently caught up with him to find out what his plans are in his new role in Prime Minister Justin Trudeau's government.

**Alberta Seed Guide:** You come from an agriculture background, having grown potato seed and having been a dairy farmer. How does that past experience aid you in your new role as agriculture minister? Can you name a couple specific examples of how past experience being a farmer and seed grower is helping you in your role?

**Lawrence MacAulay:** My background as a farmer has given me the perspective of the rewards of farming life and the challenges that come with running a farm business. It is helpful to have been in farmers' shoes. I am well aware of the importance of a strong farm gate to Canadians and to rural and urban communities across Canada, and to our economy.

**ASG:** What agricultural issues — specifically with regard to crops and seed — do you feel are the most pertinent at the moment, especially when it comes to Western Canada? What approach will you take in addressing them?

**LM:** I know how important the West is to our agricultural economy. We're talking about a \$20-billion grain export business across Canada. That's a significant contribution to jobs and growth across the country, and I intend to be a strong voice for western Canadian agriculture at the cabinet table.

I will continue to sit down with industry in Western Canada to ensure we are on the same page when it comes to growing this great industry. We know that a strong grain transportation system will help grain producers get their products to market, boost competitiveness and secure Canada's reputation as a world-class exporter. The ongoing Canada Transportation Act review will help the government to assess grain transportation issues and respond effectively.

Through investments in science, we will continue to work hard at home and around the globe to ensure Canada's grain sector remains strong, competitive, and sustainable.



Lawrence MacAulay is Canada's new agriculture minister.

**ASG:** You have been described in the media as bringing an "East Coast" perspective to Canadian agriculture. What is unique about East Coast agriculture you think farmers in Western Canada and Alberta might be able to learn from, and what have you learned from farmers in the West that you didn't know before?

**LM:** In my short time as minister, I've already had a good taste of western agriculture. We were able to tour the Agribition agricultural exhibition in Regina and see some of the cutting-edge innovations that are driving the sector in Western Canada. I was able to drop by the Ag Hall of Fame awards in Regina and learn about some of the giants who have shaped the sector in the West.

From my own time farming, I know there are many challenges that are common to agriculture wherever you farm — weather, yields, markets. Those don't change and that farm perspective will certainly give me a good base on which we can build our working relationships with the different stakeholders in western agriculture.

**ASG:** During the recent federal election, the Liberals pledged an additional \$100 million, over four years, to agricultural research. You also committed to putting up \$200 million a year for three years to help research facilities, small business incubators and exporters and plan to invest another \$100 million a year for an industrial research assistance program. What areas of agricultural research currently interest you the most, and why?

**LM:** We will invest in research to support discovery science and innovation in the agricultural sector. Agriculture and Agri-Food Canada scientists are doing great work to increase agricultural productivity, enhance the sector's environmental performance, improve attributes for food and non-food uses and address threats to the value chain. I'm looking forward to seeing their world-class research firsthand.

I am also looking forward to working with producers to maximize the benefits of our research funding. As the prime minister has indicated, we will re-insert scientific considerations into the heart of our decision-making and investment choices.

**"We know that a strong grain transportation system will help grain producers get their products to market, boost competitiveness and secure Canada's reputation as a world-class exporter."**

—Lawrence MacAulay

**ASG:** The Trans-Pacific Partnership has been a contentious issue. Export markets and trade are obviously a major concern within the agricultural community. What do you feel are the biggest challenges Canadian agriculture faces in terms of building its export markets while protecting itself in the arena of international trade? How do you feel these two concerns can best be balanced?

**LM:** In 2014, Canada's agriculture and agri-food sector employed close to 2.3 million people and accounted for close to 6.6 per cent of Canada's GDP. Canada is the fifth-largest exporter of agricultural and agri-food products globally. The Government of Canada strongly supports free trade as a way to open markets to Canadian goods and services, grow Canadian businesses, create good-paying jobs, and provide choice and lower prices to Canadian consumers.

I have begun to engage with the agricultural industry, and discussions between officials and stakeholders are ongoing as to how best we can take advantage of the tremendous opportunities that trade agreements can offer Canada's agriculture and food sector.

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## Alberta had Most Honeybee Colonies in Canada in 2015

New numbers from Statistics Canada confirm Alberta as the top honey-producing province in Canada with the most bee colonies.

"Alberta produced 42.8 million pounds in 2015, which is up 20.4 per cent from 35.5 million pounds in 2014," says Medhat Nasr, provincial apiculturist, Alberta Agriculture and Forestry, Edmonton. "As well, yields rose from 125 pounds to 145 pounds per colony."

Nasr says Alberta was also the top province for bee colony numbers in 2015 with over 295,000 colonies. "Winter mortality was also the lowest in the past 15 years, at about 10 per cent. That compares to the national average of a 16 per cent loss and the American average of 23 per cent."

Farm cash receipts from honey sales in Alberta are approximately \$75 million per year, in addition to \$12 million per year from pollination service fees. The market value



of honeybee contributions to the pollination of pedigree hybrid canola and canola crop production is estimated to be \$650 million per year in Alberta.

Canadian beekeepers produced 95.3 million pounds of honey in 2015, up 11.4 per cent from 2014. There were 8,533 beekeepers in 2015, 365 less than in 2014.

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## Producer Groups Provide Leadership in Wheat and Barley Breeding



Recognizing the important role producer funding of public breeding has played in delivering new wheat and barley varieties for increased farm profitability, Western Canada's wheat and barley commissions/associations are working together to consider options for continued leadership and influence.

Producer organizations have formed a working group to examine opportunities for optimum producer involvement in wheat and barley variety development. The participating organizations include the Alberta Barley Commission, the Alberta Wheat Commission, the BC Grain Producers Association, the Manitoba Wheat and Barley Growers Association, the Saskatchewan Barley Development Commission, the Saskatchewan Wheat Development Commission, the Saskatchewan Winter Cereals Development Commission and Winter Cereals Manitoba. The Western Grains Research Foundation (WGRF) serves as the facilitator.

The consultant's report is available on the websites of the participating organizations. The organizations are encouraging farmers and other interested stakeholders to read the report and provide comments.

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