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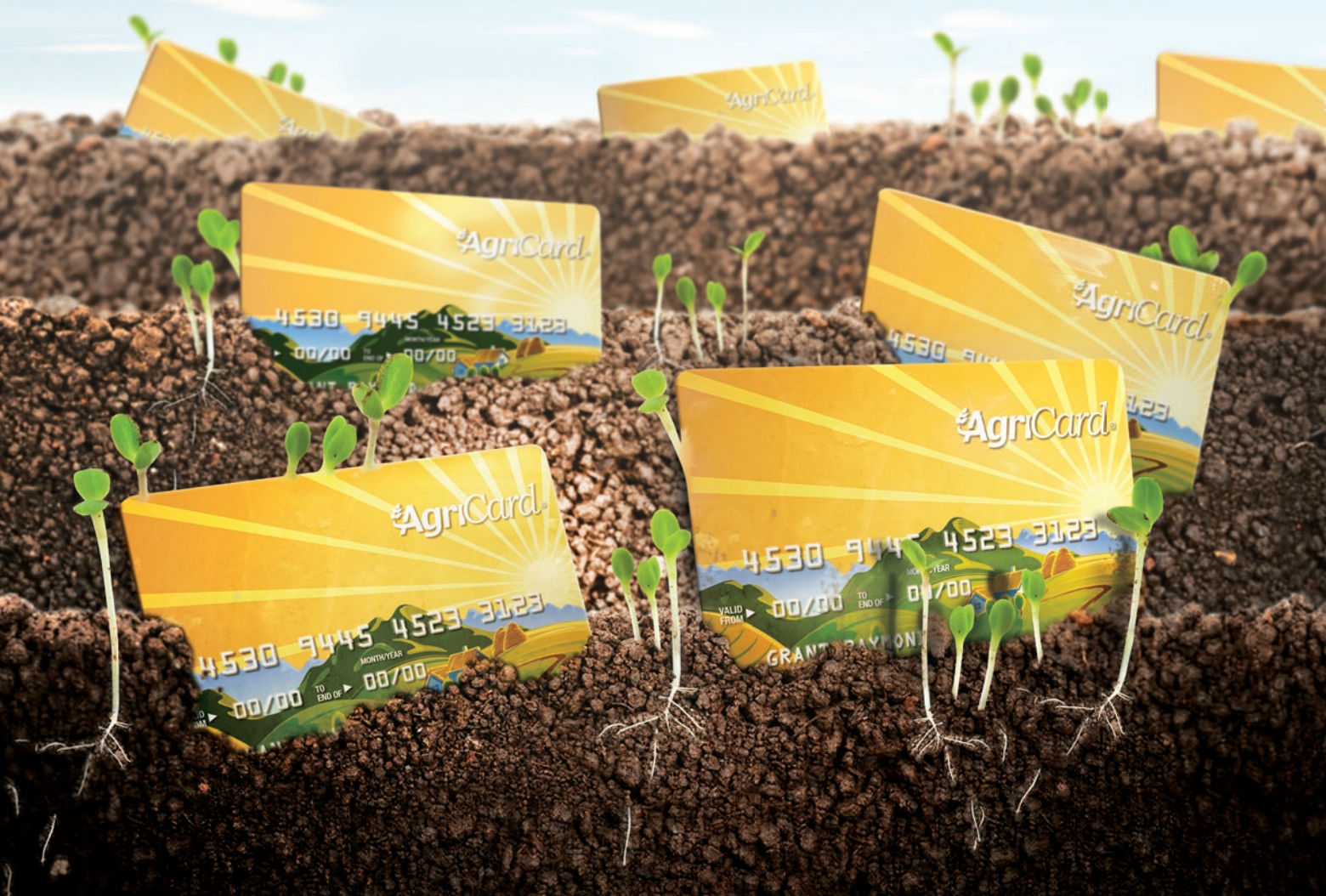
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**WELCOME** to the spring edition of the *Alberta Seed Guide*. As I write this, it's hard to even imagine spring with all the snow and cold we are experiencing. We always have high hopes for the next crop year. There is so much that we can't control when it comes to the next growing season, but making sure that we put quality seed into the ground is one thing we do have control over.

On our farm we test all seed, whether it is farm-saved or certified seed. We test for disease as well as germination. Our local seed cleaning plant requires us to test for fusarium. If we feel that the seed may have had poor growing conditions, a vigour test will also be done. These test results give us the confidence that the seed we put in the ground will have the best possible potential to produce a good crop. With the high costs of fertilizer, chemicals, and fuel, you don't want your yield limited by a controllable factor such as the quality of the seed. We also don't want to be potentially introducing diseases or new weeds onto our farm.

The Association of Alberta Co-op Seed Cleaning Plants is your partner in ensuring quality seed. Our plants are inspected yearly and samples are taken throughout the year as part of the licensing process. This protects producers as well as the county as a whole from the spread of weeds. Most plants now have colour sorters as well, which can separate out the wheat from barley, remove ergot, and more. We are able to send your seed samples to seed labs to test for disease, germination, vigour, purity, and so on. Many of our plants also work directly with seed growers, so the seed that has been cleaned in our plants will be of the highest standard for seed.

Know what you sow — trust, but verify — and best wishes for a successful year.

**John McBain, President**

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

**WELCOME** to the 2014 Spring Edition of the *Alberta Seed Guide*! Now more than ever, our seed industry is embracing change and with that comes opportunities. Understanding these changes and how they will impact your business is crucial, and throughout this issue we hope to share with you "how being seed savvy opens doors."

Changes to funding of cereal variety development are inevitable — there certainly are lots of questions to consider when determining the impact on your farm. How will a decrease in public funding through Agriculture and Agri-Food Canada affect cereal production? Will we see private companies increase cereal breeding efforts? Can a producer partnership for cereal breeding concept co-exist? Will implementing UPOV '91 enable an attractive value-capture environment? Will we see an influx of new crops and more varieties of existing crops?

An online consultative process wrapped up in November, which asked all stakeholders to provide input on the modernization of Canada's crop variety registration system. We will see changes to the variety registration system in 2014 — to what extent we are unsure at this time. Producers need to be assured that the varieties registered will have agronomic and disease characteristics that will work on your farm, and that the quality of grain continues to maintain Canada's reputation of producing high-quality products.

It all starts with the seed! Sowing knowledge — why would you risk sowing seed without testing for germination, vigour, *Fusarium graminearum* and other diseases pertinent to your area? Risk management in crop production starts with knowing what may impact your seed potential. If seed is your limiting factor, no matter how much herbicide, fungicide or fertilizer is applied, that potential is lost. Whether you are using your own farm-saved seed or purchasing certified seed, please ensure you know what you are growing. With the purchase of certified seed, you are opening the doors to new opportunities for success — quality assurance, access to new and improved varieties, efficient use of inputs, new marketing opportunities and supporting the development of new varieties for the future. With certified seed, you're planting success!

**Donald Sendziak, President**

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

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MINISTER OLSON

IT is my pleasure to extend greetings to the readers of the *Alberta Seed Guide*, and to thank the Alberta Seed Industry Partnership for their work to educate and inform Alberta producers.

In today's competitive global marketplace, innovation is pivotal to the ongoing success of our agriculture sector. We must always be looking for new and better ways of doing things to ensure we continue to meet the changing demands of consumers and to take advantage of new opportunities. Sowing Knowledge, the theme of this edition of the seed guide, illustrates the importance of our producers being aware of the latest developments in the industry so they can make well-informed business decisions.

The Government of Alberta shares your commitment to encouraging long-term success and growth in agriculture, our province's largest renewable industry. Through the Building Alberta Plan, we are supporting a strong and vibrant agriculture sector, as we invest in local communities, open new markets and strengthen our trade relationships around the world.

In 2013, we had a lot to celebrate as record yields in many crops created an exceptional year for Alberta producers. As we look forward into 2014, I wish you all the best for a productive and successful year ahead.

**Verlyn Olson, QC**  
Minister of Agriculture and Rural Development



SHAWN BROOK

IT'S a new year, a time traditionally associated with growth, goals, and a commitment to the future. In Alberta we are very blessed with fertile ground and for the most part, Mother Nature treats us pretty well. The other benefit that Alberta has is a seed industry that supports its farmers to help them grow the best crops possible. Access to new varieties, industry research, seed treatments, seed testing and cleaning — all these things help to give agriculture in Alberta a leg up on much of the world. Don't be fooled — we as farmers in Alberta are not just competing against our Prairie neighbours any more, but we are competing on a global level. As you consider your myriad options for your spring seed decisions, remember that along with deciding what varieties to plant, you should also be considering how to get the most out of your investment in seed.

So, you need to know what you are starting with, which either means getting some testing done on your farm-saved seed or starting with certified seed. In this day and age, this information is your foundation and will allow you to make smart decisions about seed treatments and other planting decisions. The seed industry continues to advance both technology and output which means more and bigger decisions on the horizon — and we should be deeply thankful for that.

Happy New Year, and good luck this spring!

**Shawn Brook, Publisher**  
*Alberta Seed Guide* | Email: sbrook@issuesink.com

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# Alberta Seed Guide

Spring 2014

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**MERIDIAN**



# NATIONAL WHEAT IMPROVEMENT PROJECT BREEDS PROMISE

Continuing the work of the wheat research cluster established under Growing Forward 1, Agriculture Minister Gerry Ritz recently announced \$12.5 million in funding for the new National Wheat Improvement Project as part of Growing Forward 2.

**THE NWIP** involves 50 wheat breeding projects at various Agriculture and Agri-Food Canada research facilities and universities across Canada and covers all wheat classes.

“It’s the first time there’s been a national wheat improvement program of this scope,” says Garth Patterson, executive director of the Western Grains Research Foundation, which is also providing \$9.6 million in funding for the NWIP. “Under Growing Forward 1 there was a western wheat cluster and an eastern wheat cluster, and this time they are together as one.”

Other funding partners in the NWIP are the Canadian Field Crop Research Alliance — which is contributing \$1.7 million — and the Alberta Wheat Commission — which is providing \$1.3 million — for a total of \$25.2 million over five years to support the development of new wheat varieties.

## A National Collaboration

“The biggest thing in this project is collaboration and showing that the wheat industry across Canada has come together not only to collaborate on this project, but to collaborate on the funding,” says Lauren Comin, research manager for AWC, whose contribution to the NWIP is its first major research investment using producers’ check-off dollars. “The collaboration part is very important to us, being able to work with CFCRA, WGRF and producers across Canada, because these issues are not just Alberta issues and I think our producers are very cognizant of that.”

The CFCRA also values the partnerships that NWIP creates countrywide. “We see the need for partnerships between growers and government to support research and develop new varieties for Canadian farmers,” says Crosby Devitt, chair of

CFCRA and manager of research and market development with Grain Farmers of Ontario. “Our involvement provides a way for researchers to interact directly with farmers and industry to fully understand the needs of the industry.”

The NWIP projects cover many disciplines and are broken down into four main themes and have goals that are common to all producers across Canada. “Breeding for high yield is always an underlying factor, because farmers always want to see higher-yielding varieties,” says Patterson. “We’re also looking at abiotic stresses like heat and cold tolerance as well as biotic stresses such as diseases and pests. It includes variety development and upstream work.”

## Alberta Research

Breeding projects at the University of Alberta and at the AAFC’s Alberta research facilities at Beaver Lodge, Lacombe and Lethbridge, which are involved in adaptation testing of wheat varieties resulting from breeding programs across Canada, will all benefit from funding under the NWIP.

The soft white spring wheat program led by Harpinder Randhawa at AAFC’s Lethbridge Research Centre will receive funding under NWIP, as will the winter wheat breeding program of research scientist Robert Graf also at AAFC in Lethbridge.

The objective of Graf’s project is to develop field-ready cultivars of Canada Western Red Winter wheat that yields eight per cent more grain than CDC Buteo and that also has desirable agronomic characteristics such as good winter survivability, short to moderate height, strong straw to resist lodging and a high test weight. “Those cultivars will also have end-use quality charac-



teristics desired by the industry and resistance to many of the major disease and pests that are most prevalent on the Prairies," says Graf, who adds the goal is to produce varieties that have resistance to at least three of the following diseases: stem rust, leaf rust, stripe rust, wheat chromite, fusarium head blight and common bunt.

According to Graf, the resources from NWIP and various other funding partners, which include Ducks Unlimited Canada and winter wheat commissions, will enable the winter wheat breeding program to work simultaneously on all the agronomic, production and quality traits that are important to the whole industry. "The ability to do all this collaborative work across Canada means there is a lot of effort going in to increasing disease resistance and productivity and delivering a package that is going to be attractive for farmers and is going to give them more money for the things that they grow," he says.

Development of field-ready cultivars of Canada Western Soft White Spring wheat is the objective of Randhawa's research. It has 15 per cent higher yield than AC Reed combined with improved resistance to stripe rust, leaf rust, stem rust, powdery mildew, fusarium head blight, black point and pre-harvest sprouting with acceptable end-use quality.

Soft white spring wheat is a major cereal crop with high yield potential and its flour is used in a wide range of baked food products, noodles and soup thickeners. Domestic mills in Western Canada require over 60,000 tonnes of it to serve various value-added industries. Grown traditionally under irrigation for

domestic milling purposes, soft white spring wheat has also been recognized as ideal for ethanol production because of its lower protein content and higher grain yield and starch content.

"Further improvements in disease/pest resistance in the forms of effective gene pyramids and desirable pest resistance combinations in high-yielding, agronomically superior cultivars adapted to the various wheat production regions are required," says Randhawa. "The NWIP funding will allow us to develop new improved cultivars, do the adaptation testing and final registration of cultivars for general production."

Dean Spaner, an agriculture professor at the University of Alberta, is working on better understanding the genetics of early maturity in wheat — research which will also receive funding through NWIP. "Early maturity is an extremely important trait for all northern farmers, as it is important to protect grade and facilitate harvest," says Spaner. The NWIP funding, he adds, "will allow incremental improvements in our wheat breeding program and will help educate future scientists for the agricultural sector in Western Canada."

### Research Focus

Biotechnology tools such as genetic mapping, development of DNA markers and double haploid technology will all be employed in helping to develop varieties with resistance to diseases such as FHB, leaf rust, stem rust, common bunt, loose smut, leaf spots and kernel diseases as well as orange blossom wheat midge. Biotechnology support tools are also being developed




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**“The NWIP funding will allow us develop new improved cultivars, do the adaptation testing and final registration of cultivars for general production.”**

— Harpinder Randhawa

to try and effectively incorporate pre-harvest sprouting resistance in wheat varieties, as well as to develop more sophisticated computerized crop management and bioinformatics systems to help manage and analyze the tremendous amount of data that modern breeding techniques generate.

Evaluating wheat end-use traits is another theme of the NWIP that is essential to determining whether new wheat varieties will be moved to new classes such as Canada Prairie Spring. Research is also focusing on the upstream evaluation of wheat for enhanced foods in terms of things like gluten strength and negative and positive health attributes — an area that is likely to become increasingly important as consumers become more health-conscious.

### **Stable Funding**

The NWIP is good news for everyone involved in Canada’s wheat industry, and provides some stable funding for many of the public wheat breeding programs across the country. It is also a good example of public and private collaboration across the industry, says Patterson. “The NWIP creates some stability for the researchers involved in the wheat research cluster because now they’ve got a five-year commitment,” says Patterson. “It really is what I would call a public/private collaboration, because we’ve got \$12.7 million of private grower funds going in with \$12.5 million of public funds.”

It will also ensure a strong pipeline of varieties for producers who are willing to support their own industry. “For almost 20 years now, the grower check-off has supported wheat variety development through the wheat check-off, and this builds on that,” says Patterson. “In the long run, if we can keep that variety pipeline flowing and full, the benefits continue each year and farmers will continue to see varieties coming out over the next five years. And of course if we can get better FHB resistance or wheat midge tolerance, that contributes to yield stability and increased yields, and that’s what farmers will really want to see.”

**Angela Lovell**

## **National Wheat Improvement Project Themes**

Federal and industry funding for the NWIP totalling \$25.2 million over five years will fund 50 research projects across Canada that will cover the following four themes:

### **Stresses:**

Improving tolerance in wheat varieties to abiotic stresses such as heat, cold and drought.

Developing enhanced resistance to biotic stress factors including diseases such as fusarium head blight, leaf and stem rusts, loose smut, bunt and tan spot as well as a major insect pest, the wheat midge.

### **Breeding Tools:**

The use of double haploid technology reduces the time required to generate homozygous lines.

Development of molecular markers to allow plant breeders to more efficiently select for complex traits to save time and resources.

Developing and validating molecular markers for novel sources of key traits (e.g., specific genes for disease resistance).

### **Quality Characteristics:**

Enhanced quality testing for specific attributes to ensure wheat varieties meet the required end-use standards required for varieties to be registered and commercialized.

Developing new varieties tailored to specific end uses.

### **Adaptability:**

Early generation and candidate variety testing at multiple sites to ensure broad adaptability of wheat varieties developed in this program.

Field testing in special nurseries for screening against specific diseases.



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# Canada Tables Legislation for Amendments to Plant Breeders' Rights Act

Key changes are being proposed to Bill C-18 to increase producer access to new varieties and align PBR legislation with other countries.

**IN DECEMBER,** Agriculture Minister Gerry Ritz announced a new bill to help stimulate investment in Canada's agricultural industry and to deliver new tools and services to Canadian growers. The Agricultural Growth Act, or Bill C-18, is expected to increase producer access to new varieties, create new trade opportunities, contribute to the safety of agricultural products and reduce red tape in terms of regulations.

Key changes being proposed are amendments to the Canadian Plant Breeders' Rights Act to align with the 1991 Convention of the International Union for the Protection of New Varieties of Plants (UPOV '91) from Canada's current legislation, which uses the UPOV 1978 framework. The amendments, part of the UPOV '91 framework, also allow for the protection of farm-saved seed, which permits growers to use seeds from the crops they grow the following year.

According to Ritz, the proposed amendments will strengthen intellectual property rights for plant breeders in Canada as well as further future investment in Canadian seed research and development. "The hope is to have UPOV '91 adopted by Canada by the new crop year, Aug. 1, 2014," said Ritz. "We need to bring legislation in line with the needs of today, and we are committed to making this happen."

However, Ritz noted during a press conference that there would not be any changes to Canada's variety registration process. According to AAFC's website, "developing new varieties for registration is a lengthy process and depending on the crop type, the breeding method used and the complexity of the selection criteria, the variety development process from initial breeding to the marketing of seed by farmer can take upwards of 12 years. Variety registration is the final step in the process and typically takes six to eight weeks with CFIA's Variety Registration office."

## Ag Industry Hopeful for Change

The Canadian Seed Trade Association welcomes the introduction of Bill C-18 and especially the proposed changes to plant breeders' rights. CSTA president Peter Entz sees this as a large step not only for plant breeders, but also for producers and grain handlers. "These proposed changes can help to further investment in the development of new varieties for Canadian producers," says Entz. "This will allow for producers to have access to the best varieties ... higher yielding, bigger, better and stronger genetics ... and at the end of the day more choices for growers on their farm."

David Hansen, president and CEO of Canterra Seeds, also welcomed the introduction of new legislation by the Government of Canada to bring the country in line with international plant breeders' rights standards. "This is big news for Canadian farmers. This is going to mean more innovation, improved seed

genetics and a broader selection of varieties for producers," says Hansen in a press release.

New-and-improved innovations and greater investment in Western Canadian seed varieties are expected to only bolster the Canadian industry. "Further protecting plant breeders' rights through legislative changes will open the door for [domestic and international] seed developers to have assurance that their rights will be upheld," says Entz. "This will allow for more collaboration between developers and the industry, whether private or public entities or seed company to seed company, university or government researchers."

## Some Concerns Remain

There still remain some unanswered questions as to exactly how the process will unfold with what the benefits of the new legislation will be for breeders and producers. The success rests on the belief that added investments will result in significant improvements in crop and variety development. "The entire industry will need patience," says Entz. "It still takes roughly seven years to bring a new variety to the marketplace and that is a lot of time after the new legislation will be in place."

Continued investment in Canadian seed research and development creates:

- breeding locally adapted to specific geographies
- regional adaptability results
- tangible data varietal comparisons
- increased greenhouse and growth room projects
- increased genetic crosses
- increased access to superior varieties at an international level

According to Entz, Canada remains one of the few UPOV member countries whose legislation does not comply with UPOV '91, placing not only Canadian breeders but also farmers at a competitive disadvantage. "Adopting UPOV '91 will place Canadian breeders on an equal level in terms of intellectual property protection, compared to other breeders around the world," he says. "This will provide access to genetics and varieties that are developed internationally."

Hansen agrees: "Until now, some foreign breeders were reluctant to test their genetics in Canada, since they weren't sure their rights would be protected. This legislation will clear that up, and will encourage a new era of investment in our industry."

**Shannon Schindle**



Further information on the International Union for the Protection of New Varieties of Plants can be found at [www.upov.int](http://www.upov.int).

The CSTA offers fact sheets and information pieces on the proposed changes on its website at [cdnseed.org/plant-breeders-rights](http://cdnseed.org/plant-breeders-rights).



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# Markets Key to Specialty Crops

Alberta farmers are always interested in new crops that they can add to their rotation, but they must also offer some definite agronomic and economic advantages.

**I**n the case of niche or specialty crops, it's often the economics — which can be restricted by the development of markets — that can slow down widespread adoption by farmers.

## Faba Beans

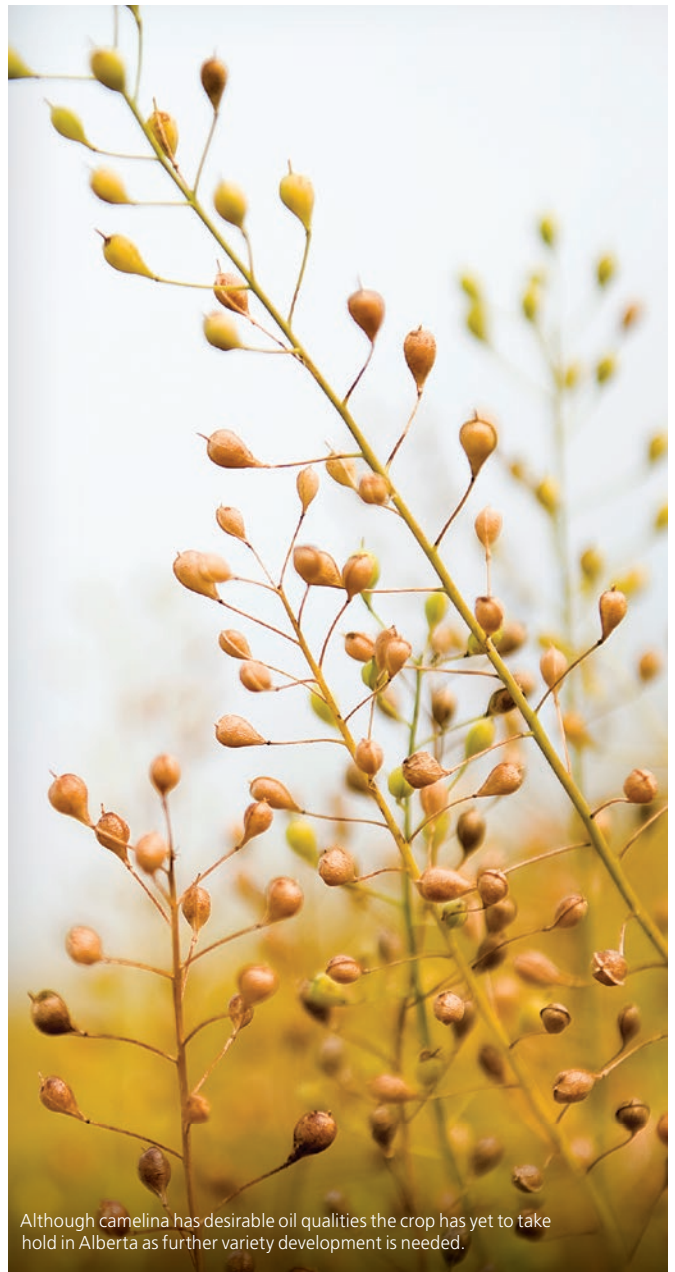
Faba beans have some definite agronomic advantages for farmers, because they can fix up to 30 per cent more nitrogen than other pulse crops like peas, they don't generally suffer from downgrading factors such as ergot or fusarium head blight like cereal crops can, and they are resistant to lodging, so can be straight cut.

"I would say when you factor in all the things you need to put on, it would be about \$40 an acre less input cost [for faba beans] than a wheat crop," says Greg Stamp of Stamp Seeds in Enchant, Alta., who has been growing faba beans for 10 years because the crop provides him opportunities to diversify the rotation and markets.

"This year the rail systems were congested with the big crops, but faba beans are exported in different ways, so you're not selling into a system that's overloaded with wheat and canola," says Stamp. "There's an advantage and that can be said for any specialty crop."

It has, however, taken time to develop enough market capacity for faba beans to become attractive for farmers to grow. "Farmers don't want to grow something and find out they don't have a market for it," says Steve Lindholm of Lindholm Seeds in New Norway, Alta., who has been growing faba beans and supplying seed for about five years. "It's been a slow-growth industry as all we were competing with was feed peas in the past, and so there was no real premium for faba beans. There was always a market in the feed industry, but that also takes time to build because a bigger feed mill won't change over a ration if they only get a truckload of beans. They need a three-month supply and they have to be very comfortable with the product they are getting."

Now, with a couple of new players in the market, options for growers are increasing and acres of faba beans across Alberta are beginning to grow in response. Parkland Commodities and Saskatchewan Pulse are beginning to make inroads into the



Although camelina has desirable oil qualities the crop has yet to take hold in Alberta as further variety development is needed.



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faba bean human consumption markets in Egypt and the Middle East. That is translating into more economic incentives for growers. "There can typically be a 30 per cent premium above your net returns of a cereal crop on some of these crops," says Stamp. "That's generally the number I have seen over the past few years."

The introduction of new faba bean varieties such as FB 9-4, which has the higher tannin content that is required for human consumption, has helped spur the development of export markets, and another new variety, CDC Snowdrop, is also in the breeder plot stage and should be available in a couple of years.

### The Camelina Experience

Not all specialty crops have been as successful as faba beans in Alberta. Camelina is a specialty crop that many thought held a lot of potential when it was introduced as an alternative oilseed crop about six years ago.

Camelina produces a healthy oil that is rich in Omega-3 and Omega-6 fatty acids, as well as vitamin E and which can also be used in biofuel production.

But the number of acres in Alberta and across Canada remains low and the crop needs more work before it has any hope of becoming a significant field crop, says Colin Rosengren of Three Farmers Camelina Oil, which remains one of the few Canadian processors of camelina oil for human consumption. "Camelina definitely has its challenges and needs some breeding advancements to improve yields and harvestability traits," says Rosengren, who remains committed to growing and marketing camelina, but recognizes that for the time being it truly is a niche market crop. "When grown properly and carefully, it does produce an amazing, high-quality oil," he says.

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### Hemp

Around 15,892 acres of industrial hemp were grown in Alberta in 2011, which represented 20 per cent of all hemp grown in Canada and was up significantly from just over 5,000 acres in 2010. Since 1998, when Health Canada allowed commercial production of hemp under licence, markets have developed worldwide for hemp oil and food, as well as other environmentally friendly products. Canadian hemp growers are supplying hemp seed mainly for domestic processors and international markets.

**"Farmers don't want to grow something and find out they don't have a market for it."**

— Steve Lindholm

Besides food, hemp fibre can also be used to produce bioproducts such as paper, textiles and sustainable building products, for which demand is steadily growing. The Alberta Biomaterials Development Centre is working with various public and private researchers and companies to help develop biomaterials from renewable feedstocks such as hemp fibre. The ABDC has a \$4.5-million fibre processing pilot plant at Vegreville, Alta., which is capable of processing one tonne of hemp or flax straw per hour into various grades of fibres that can be used for commercial bioproducts.

Hemp offers a lot of advantages for growers, who can now grow a number of well-adapted, high-yielding cultivars developed through Canadian plant breeding programs. Hemp is easy to grow, although taller varieties with higher fibre content can be challenging to harvest. The highest seed yield recorded to date topped 2,000 pounds per acre, with average yields being 600 to 800 pounds an acre and with prices anywhere from 50 cents to \$1 per pound, it can provide good returns. The number of licenced acres grew to 66,671 across Canada in 2013.

### Soybeans Need Work

Soybeans, while not a niche crop, are still fairly rare in Alberta due to some agronomic challenges. These include: the number of heat units available; lower spring temperatures that can delay germination; and high pH soils which can inhibit the soybean plant's ability to obtain iron from the soil, causing iron deficiency chlorosis.

That said, soybeans were included for the first time in Alberta's 2013 Regional Variety Trials and there is a great deal of interest in growing them, says Lindholm. "We don't have an early enough maturing soybean for [most of] Alberta," he says. "If we had a soybean that would give us 2,000 to 2,200 heat units there would be huge interest from growers, because soybeans will stand up and can be straight cut."

To date, the earliest soybean variety has 2,350 heat units and most of Alberta is on the outside fringe as far as this level of heat



units is concerned, adds Lindholm, who experimented with soybeans last year on his farm with disappointing results. "We got the seed late and we ended up with 15 bushels per acre. There were some extenuating circumstances but basically, soybeans are a late crop," he says.

Despite the challenges with growing soybeans in Alberta, researchers continue to develop varieties that have earlier maturity, and there is definitely interest from growers in crops that can fix nitrogen, diversify the rotation and have good standability. "Farmers are always looking for something to put into their rotation, because realistically we are pressuring the canola rotation," says Lindholm. "We are dealing with clubroot and with strains of blackleg, and so rotation is key. Farmers are always looking for alternatives and soybeans aren't there yet, but faba beans are. We are just touching the tip of the iceberg right now in finding some new markets and I hope we can go forward with expanding acres of faba beans in Alberta."

Specialty or niche crops can offer good opportunities not just for growers, but also for the smaller, independent seed companies that have the patience and the flexibility to grow these new crops. "It's a good way to diversify for us too, but it takes a while to build up the interest and the marketability that comes along with that as well," says Stamp. "Typically if you are a bigger company you don't want to wait around for that to happen, but for us the agronomy is all part of what we can offer the growers. They want to know how to grow it and market it and we can help our customers understand all of that and make them successful."

Angela Lovell

## Will Ancient Grains Make a Comeback?

Researchers at Alberta Agriculture and Rural Development are looking into the production potential for ancient grains such as teff and quinoa.

Teff is the smallest grain in the world and originates from Ethiopia, where it is grown mainly as a cereal crop or as forage for cattle. It can adapt to both drought and waterlogged conditions. Teff is gluten-free and is rich in calcium, phosphorous, iron, copper, aluminum, barium and thiamin, and is a good source of protein, amino acids (especially lysine), carbohydrates and fibre.

Quinoa is a relative of lamb's quarters and has been grown in the Andes since 3000 BC. It is well adapted to cold, dry climates. It is highly nutritious, with a high protein content (14 to 18 per cent) and amino acid composition and is rapidly gaining popularity among Canadian consumers. A good crop of quinoa can yield over 725 kilograms per acre and this has been achieved just west of Lacombe, Alta.

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# Calling All AGvocates

By now you have likely come across the Ag More Than Ever campaign. You may have seen an ad in a magazine or encountered “AGvocates” at a tradeshow — but what started it all?

**FOR TOO LONG**, the agricultural industry has often let someone else tell its story. It wouldn't be a problem if the story that was being told was correct, but too often it hasn't been — which is why Farm Credit Canada decided it was time to change things. Agriculture More Than Ever is an industry-wide initiative aimed at improving public perceptions through positive dialogue about Canadian agriculture. Just a year-and-a-half in, Ag More Than Ever has made tremendous headway, working with more than 230 partners in all sectors of the ag industry.

“The public's image of agriculture seemed to be disconnected with what we perceive to be the real story of agriculture in Canada,” says Lyndon Carlson, FCC's senior vice-president of marketing.

To learn more about these perceptions, FCC surveyed farmers across the country on an ongoing basis for several years.

Producers were asked if they thought their farm would be better off a year from now. Some 80 per cent said yes. And 78 per cent said they believed that their farm is better today than it was five years ago.

“That's a great story of optimism, and it doesn't surprise us because if you look at farmers investing in their farms — whether that's improving facilities, building buildings, [or] expanding their operations by land or by quota — we're seeing that happen all over the country,” says Carlson.

Although optimism is obvious to those of us in the industry, the general public generally has a different perception. All too often, they see the industry as struggling.

“When we surveyed the general public — urban Canadians — and we asked them the same types of questions,” says Carlson, “their perception was that farmers wouldn't be optimistic. That

really kind of struck a chord with us. We have a really good story to tell. We recognize that there are challenges, whether it's a weather event or a commodity cycle. But over time, our customers are very enthusiastic and positive.”

Why does FCC care about agriculture's image? It's a question Carlson is asked again and again. He says that there are three main messages the ag industry needs to share with the general public. First, that there's plenty of opportunity in agriculture,

especially for young graduates who are looking for a rewarding career. The second is that farm operations are much more sustainable than they were in the past. In fact, the industry has and will continue to make major improvements. And, finally, that the industry is economically viable and keeping it viable is good for the economy.

“I think we really need to care for many reasons,” he says. “One of the reasons is that we've got a lot of good new jobs being created in the ag industry right now.” In fact, he says that AgCareers.com in Canada has forecasted that there will be 50,000 new jobs created in agriculture in the next five years. Those jobs will be found in all areas of the industry, including finance, sales, manufacturing, research and processing.

“We need to talk positively about our industry if we're going to influence that 18-year-old who's thinking about what to do for a career and making a choice as to what post-secondary education to take,” he says. “We want to make sure that agriculture is front-and-centre as one of the good choices that they can make.”

To promote the industry to prospective students, Ag More Than Ever works with 4-H youth groups and Ag in the Classroom. “Ag in the Classroom has signed on as an official partner in many provinces already, so that they can start to take really good-





quality, real information about agriculture that's positive right into the classroom," says Carlson. "Those are very important vehicles, because sometimes messages that have been shared in the classrooms of our country haven't been accurate. They haven't represented modern agriculture.

"The Ag in the Classroom movement has been around for a long time," he continues. "To give them new material and content to share with students, urban and rural, I think it's going to have a very positive impact."

Next, the general public needs to know that farm practices are more sustainable now than they ever have been before. Farmers are working to protect the environment, to protect fresh water and to engage in sustainable practices.

"Our treatment of the environment, in terms of environmental practices, has never been better," says Carlson. "And yet, a lot of the public, when we ask them questions about that, they didn't say that [they] don't care about the environment, but they said they weren't sure. And I think that's unfortunate."

Uncertainty, he says, can lead to new and sometimes unnecessary regulations. "So I think that's another story we need to tell, and tell it positively, because it's such a good story."

Taxpayers, says Carlson, need to know that this is an industry that has a very bright future. "Governments, both provincial and federal, invest in industries all the time. If they see a positive industry, they'll invest to grow that industry to be a part of our economy," he says. "Sometimes when you hear that the government provides a program for the benefit of agriculture, the taxpayers think of that as a subsidy. And, of course, it's not a subsidy. It's an investment in one of Canada's largest industries to see that industry grow further."

When it comes to sharing information on the viability and sustainability of the industry, Ag More Than Ever shares information on their website and through print and digital media.

"It's about the conversation," says Carlson. "We do need to get out there and talk about what's going on that's right with our industry. A lot of these things we take for granted because we know that that's the most common practice in agriculture, yet a

lot of the general public is unaware that we've had a radical shift and a positive shift in how we manage our resources."

Ag More Than Ever shares those positive stories primarily through social media. With more than 5,000 Twitter followers and in excess of 6,000 likes on Facebook, it has a healthy following. But it's not just about sharing with those who follow the campaign. It's also about inspiring others in the industry to do the same.

"You get kind of a real buzz of energy on social media," says Carlson. "We're seeing that every day with all of our followers — talking positively, speaking up and telling the real story of what's going on in the industry, and that inspires others to do the same thing."

Ag More Than Ever has been around for a year-and-a-half. Since that time, it's joined forces with over 230 official partners across the country. "Individually, they're all doing different things, but collectively, there's a lot of spirit there," says Carlson.

Dianne Smirl, show manager for Agri-Trade, an agricultural trade show in Red Deer, Alta., says her decision to join Ag More Than Ever in 2012 was a "no-brainer."

As a partner, Ag More Than Ever gets booth space at the show and Agri-Trade promotes their cause on social media. "It's a natural fit for us," says Smirl. "I look at it this way: anything I can do to help support the farmer — in education, and getting the positive message out about the ag industry — I think I serve my audience well by doing that. ... It's all about the importance of agriculture in Canada."

Once they join the cause, partners are given a starter kit. The kit includes promotional materials, including stickers, T-shirts and bale wraps. Carlson urges individual organizations to check out Ag More Than Ever by visiting its website.

"The truth is that the image we have as an industry, we create it," he says. "Sometimes we like to talk about the challenges the industry faces, which is good. I mean, we do have challenges that need to be dealt with, but we've got an opportunity to talk more positively about the industry and let that message start to resonate with the general public." **Melanie Epp**



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# HELPING SEED SUCCEED

With services that range from advanced disease testing to analyzing plant DNA, lab-based businesses are establishing themselves as a critical player in the seed sector.

**AS THE SEED** industry is faced with the challenge of producing more with less, it will need the support of other players in the sector. Lab-based businesses, such as seed testing facilities and genomics labs, are stepping up to the plate in Canada in a big way.

“The seed industry today is focused on feeding the world. Our part [as a lab-based business] is to be on the leading edge by providing the latest in seed quality technology. Whether that is to provide a more meaningful vigour test, an advanced disease test as in knowing what pathogens are going to be more harmful or more prevalent in next year’s crop or a varietal/trait identification profile or data management package to disperse those results, seed testing today has gone far beyond germination and purity,” says president of 20/20 Seed Labs, Sarah Foster.

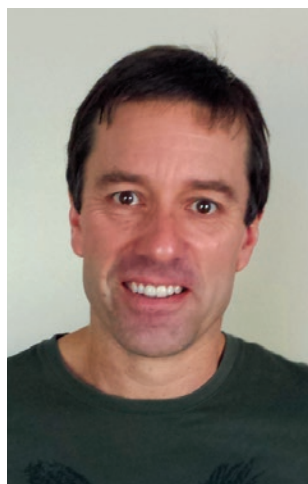
Trevor Nysetvold, president of BioVision Seed Labs, agrees that lab-based services such as seed testing have expanded in recent years and will only continue to be more important. “Years ago, seed was tested for purity and germination and that was it,” he says. “Now growers and seed companies go far beyond the basic requirements to ensure that they are delivering a high-quality product to the consumer. BioVision’s unique service portfolio covers germination to genetic purity. We are constantly adding new services that meet the needs of the ever-changing seed industry.”

Meanwhile Charles Pick, business development manager of genomics lab DNA Landmarks, says the lab services his company provides act as a complement to work being done by plant breeders. “By analyzing DNA from tissue samples sent to us by the breeders, we can screen for specific traits of interest. This allows the breeders to do their jobs faster and more accurately which in turn delivers better varieties to the growers.”

## Valuable Investment

The services offered by lab-based businesses are usually extra investments that a seed company or grower decides to make, whether it’s to improve seed quality — such as seed testing — or improve its R&D program — such as DNA analysis.

“DNA analysis is usually an additional investment in a seed company’s R&D program,” says Pick. “It’s true that marker-assisted selection allows breeders to drop poorly performing lines earlier from their program — a cost saving — however, this usually means that they screen even more plants. Like any good investment though, DNA analysis delivers an excellent return in the



Charles Pick is business development manager of DNA Landmarks.



Sarah Foster is president of 20/20 Seed Labs.



Trevor Nysetvold is president of BioVision Seed Labs.





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**“We provide information that assists growers and companies in making the best management decisions. In its simplest form, seed testing is like insurance.”**

— Trevor Nysetvold

form of better genetics for the seed company and the grower.”

Foster says seed testing is a really simple way to ensure seed quality. “We are the first line of defense when it comes to observing the positives and the negatives of seed quality,” she says.

“We are adept at being able to manage the risks. We lower costs by ensuring our client does not use a product that has failed to meet a grade or a specific quality parameter. We never overestimate the quality or ability of a seed lot to perform and always guide our clients to use seed to the best of its ability.”

However, Foster says the services provided by seed testing labs don’t end with just seed quality. “We will recommend seed treatments, correct seeding depth and soil temperature at time of seeding, seed drill rates and, once harvest commences, moisture, maturity and storage parameters for that specific crop. It is necessary today to go beyond reporting numbers — clients

require facts and an explanation of test results. They also need support selling that product using the certified and pedigreed seed system,” she says.

Nysetvold says it’s all about allowing growers and seed companies to maximize profit. “We provide information that assists growers and companies in making the best management decisions. In its simplest form, seed testing is like insurance, where most years everything is fine but then that one seed lot comes along where seed testing identifies it as one of substandard quality. The cost of potentially using or selling poor seed covers the cost of testing several times over,” he says.

#### **The Yield Question**

Nysetvold says no lab can take responsibility for increasing yields: “Nothing that we, or any other lab, tests for can be directly linked

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to yield. What we do is offer the ability to test for a component of yield potential. We can tell you whether or not seed quality is going to be a limiting factor in achieving the highest possible yield," he explains.

"If you're armed with all the pieces of information that are necessary to produce a strong and healthy crop that is true to type, you have a pretty good chance of increasing your yield expectations," adds Foster. "Of course the grower has to hold up his end by ensuring that he's checked a few boxes too — crop rotation, seed treatment, fertilizer, seed placement and so on."

On the genomics end, the big plant science companies are investing significantly in improving plant yields by identifying specific genes that have a positive impact on yield. "The services DNA Landmarks provides at our lab could better be described as 'protecting yield loss,'" says Pick. "For example, if you develop lines with better disease resistance, these healthy plants will provide better yield than diseased ones do."

In addition, Pick says his lab is also looking at novel approaches to marker-assisted selection. "Instead of screening for individual traits of interest, we can use high-density arrays with thousands of DNA markers and evaluate the entire genome of a plant sample. This approach, called whole genome selection, offers the promise of screening for much more complex traits such as yield," he explains.

**"If you're armed with all the pieces of information that are necessary to produce a strong and healthy crop that is true to type, you have a pretty good chance of increasing your yield expectations."**

— Sarah Foster

### On the Cutting Edge

Seed is a rapidly evolving industry, so it's no surprise that these lab-based businesses supporting seed spend a lot of time making sure they stay on the cutting edge of new technology.

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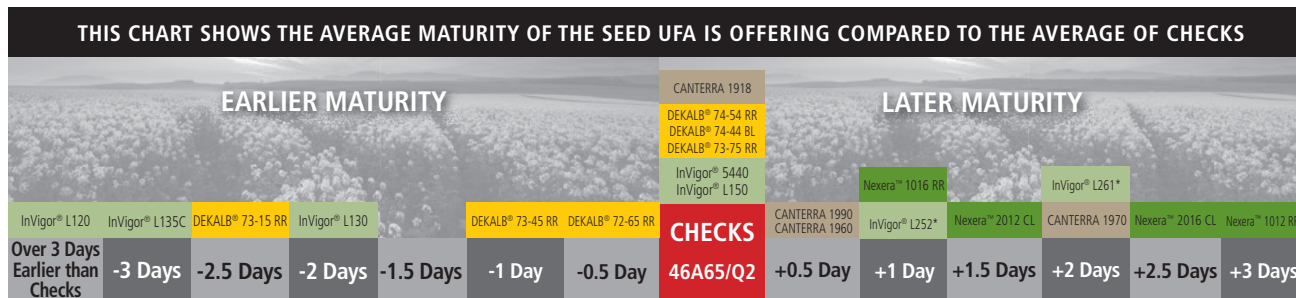
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2014 UFA Canola Guide will provide you with key varietal features plus management tips and techniques to best manage your field operation. The 2014 Canola Guide maturity chart is featured here to provide you with a quick comparative reference to the many varieties available from UFA.

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Foster says 20/20 Seed Labs has one test in particular that has really taken off in the last two years. "This is our fungal screen — a test that identifies and categorizes all seed-borne pathogens and fungi," she says. "Once the profile is determined, we can offer a solution for seed longevity in storage, expected germination and type of seed treatment." Foster says they are also now offering two new vigour tests for soybeans and canola. "Both are designed to expedite the movement and decision time of seed from the field to the bag," she says.

Meanwhile Nysetvold says BioVision has recently added near-

infrared testing, quantitative PCR, digital imaging, grain inspection and crop inspection to its service list. "We are continuously adding new services to offer to our clients," he says.

Perhaps even more than seed testing, genomic technology is evolving rapidly. "DNA sequencing and marker analysis costs continue to drop," says Pick. "This allows us to provide far more information about the genomics of plants than we ever could before. With this knowledge, breeders can manage complex, multigenic traits, they can develop better varieties, and they can do so much faster and more cost-effectively than they ever could before."

### Maintaining Quality is Key

Lab-based businesses are only going to play more of a role in the future; third-party verification is always going to be important.

"The seed industry is constantly changing; companies and growers are bringing new technology to the marketplace all the time. What we will be testing for in the future will be very different from what we are testing for today and that is very exciting. BioVision has a very bright future," says Nysetvold.

And the benefits don't end at the Canadian border. "Seed testing laboratories are continually striving to offer more here in Canada or abroad to remain competitive, but the important thing is to remain consistent and provide value," adds Foster. "As we move toward higher value crops with specific genetic profiles, I think in the future it will be more important to harmonize seed testing protocols globally so that we will have an understanding with a client — the seed buyer — anywhere and a seed seller here. Canada is a huge seed producer and we need to maintain our quality status."

Meanwhile, lab services like those that DNA Landmarks provides are also helping Canada maintain its status as a top seed provider. "The lower the cost of DNA marker technology gets, the wider spread its use becomes," says Pick. "Today we are analyzing more species than ever before and we are providing novel services — both made possible by the drop in cost. This trend will continue, making our lab services essential in the future for breeders and growers." **Julie McNabb**

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# Plant Breeders' Perspectives

From the global acceptance of biotech crops to if — and how — private and public plant breeders can work together, plant breeders and biotech innovators from Alberta and Manitoba weigh in on the future of plant breeding.

## biographies



### **Pat Juskiw, PhD, M.Sc, B.Sc. Agric., P.Ag.**

Pat Juskiw is a plant breeder with the Field Crop Development Centre, Alberta Agriculture and Rural Development, in Lacombe. Juskiw's research focus since 1996 has been the breeding of two-row feed and malting barley. Prior to that, Pat worked on the development of agronomic practices for barley and triticale production, especially for annual forage use. Pat continues to work on enhancing water use efficiency, nutrient use efficiency and quality of feed grains as well. Juskiw has been the Secretary of the Prairie Recommending Committee for Oat and Barley since 2007. She is involved in the Canadian Society of Agronomy, the American Society of Agronomy and the Crop Science Society of America. She sits on the board of directors for the Canadian Malting Barley Technical Centre.



### **Surya Acharya, PhD**

Surya Acharya is a research scientist with Agriculture and Agri-Food Canada, Lethbridge Research Centre. He has developed and commercialized high-yielding disease-resistant cultivars of alfalfa, cicer milkvetch and orchardgrass as well as developed and commercialized the first North American cultivars of perennial cereal rye and forage fenugreek along with many native Alberta grass cultivars. In 2013, he developed a sainfoin cultivar that can be used for bloat reduction in alfalfa pasture, in addition to an acid- and saline-tolerant alfalfa for Western Canada.



### **Jamie Larsen, PhD**

Based in Lethbridge, Jamie Larson is a research scientist with Agriculture and Agri-Food Canada. Specializing in perennial cereals biomass breeding, his current projects include breeding fall rye for improved falling number and grain yield and also breeding perennial cereal rye for improved adaptation, biomass quality and grain yield.



### **Kevin McCallum**

As general manager of DL Seeds' canola breeding division, Kevin McCallum helps the breeding team achieve its goal of creating and producing canola hybrids for North American producers. He has been developing varieties for Canadian farmers over the last 23 years.



**Alberta Seed Guide: Do you think acceptance of biotechnology is limiting variety and market development?**

**PJ:** Acceptance of biotechnology isn't limiting the development of new varieties overall, however it does limit the market development of new varieties. The problem with biotechnology is that everyone thinks that biotech equals GMO — and it's just not true. The public's linkage of the two is harmful. It's a matter of educating people about the differences. Australia does a great job and has overcome pushbacks from Asia with regard to cereal crops developed using marker-assisted selection (biotech crops).

**SA:** Overall, it has definitely had an impact, but not so much on forages as other crops. For example, in forages there is only one, and that is a Roundup Ready alfalfa. What has had an impact is that everybody is waiting for a biotech crop because they think that will be substantially better than traditional cultivars. Only a few people are willing to buy the new non-GMO cultivars that are ready now, and consequently there is less money available for research. This is especially important for perennial forage crops as everyone is waiting for that big breakthrough.

**KM:** No, not in the canola industry. The major markets for Canadian canola have accepted biotechnology.

**JL:** No, not from a North American perspective at least.

**ASG: What do you think will be the next genetic or trait development breakthrough we will see commercialized?**

**PJ:** The whole idea of genomics and marker-assisted selection is amazing. It's now more affordable, easier and faster — we can run hundreds of screenings. We will not be cutting and slicing genes to make GMOs, but the new technology will help us find

**“The problem with biotechnology is that everyone thinks that biotech equals GMO — and it's just not true.”**

— Pat Juskiw

gene combinations that naturally occur. Using genomics as a tool will allow us to screen vastly increased numbers of plants that may allow us to identify naturally occurring changes in gene combinations that are beneficial.

**SA:** In forages, the next breakthrough will be the commercial availability of low lignin alfalfa. This GMO alfalfa will make it easier for producers to harvest the crop at a later stage — at up to 50 to 60 per cent flowering — without losing quality or biomass. This could have a positive impact on some producers who have difficulty harvesting alfalfa at prime stage (five per cent bloom) and may save a little bit of money, as only two cuts would be needed, instead of three in good growing conditions.

**KM:** In canola, the next impact trait will be the second generation of glyphosate-tolerant varieties.

**JL:** This is quite difficult to predict and is a matter of perspective and timeframe. I think the general trend will be that private industry continues to stack new herbicide and pest resistance traits. This may be important as models generally predict an



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expanded range for a number of important crop pests. Also, some of these traits could be extremely important to maintain operational efficiency. For me, a major breakthrough would be the development of perennial wheat and perennial cereal rye, which will have a profound impact on farming operations including a significant reduction in production costs, the opportunity to conserve and improve soil quality and make better use of available water and nutrients. Perennial cereals also present an opportunity for mixed farming operations to graze top growth in the spring and fall — extending field grazing periods. A close second and more likely to be reached in the mid-term is the unlocking of further cold tolerance in winter cereals and winter canola, facilitating a paradigm shift in Western Canada agriculture. Fall-sown winter crops provide multiple production and logistical advantages over spring cereals and would provide a significant boost in yield to meet global demand.

**ASG: What crops do you think will benefit the most from advances in plant breeding and genome research in the next five to 10 years?**

**PJ:** Remember when barley used to be weedy and full of off-types? Now it's an elite crop for malting because of regular plant breeding, but we can take it to new yield and disease resistance plateaus using biotechnology. Using genomics, cereals like hard red spring wheat and malting barley will benefit with improvements in disease resistance and increased yields. Five years from now we might see new linkages in malting barley and they will all be non-GMO. There is also potential for triticale to improve quality traits for bread production.

**“In the next five to 10 years, wheat could benefit the most if the industry can successfully develop hybrid technology in that crop.”**

— Kevin McCallum

**KM:** Tough question to answer because DL Seeds focus on canola, but in the next five to 10 years, wheat could benefit the most if the industry can successfully develop hybrid technology in that crop. In canola, there is already quite a bit of investment and advancements ongoing already.

**JL:** This timeframe is too short for a number of major crops to take advantage of the massive genomics and biotechnology efforts currently underway. In this timeframe, probably canola and other brassicas will benefit tremendously from previous genomics efforts in related species (*Brassica rapa* and model plant, *Arabidopsis*). Genomic sequencing cereals for western Canadian producers has currently been completed, or is getting close to completion. The timeframe to make use of this research is more likely 10 years and beyond, especially if we are talking about direct applications resulting in variety improvement.



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**ASG: Using certified seed helps fund innovation in the seed industry. What are the Top 3 reasons why farmers should use certified seed?**

**PJ:** 1) You know what you're growing and you can be confident that it has all the strengths of that variety.  
2) You reduce pests and other diseases. Certified seed is meticulously cared for and when planted in clean and properly cared-for soil, off-types are prevented.  
3) It funds innovation. When you buy certified seed, royalties from the seed go back to the breeders. That shows the value of the seed.

**SA:** 1) Royalties from certified forage seed sale are reinvested into innovation work, which is extremely important for crops that are used in-house, as their value is difficult to estimate otherwise.  
2) Producers can expect known performance, and this is important for producers who are interested in growing high-quality hay.  
3) Less weeds and problems with disease and insects. Common seeds are a little bit cheaper, but the buyer has no idea what they are buying in terms of number of weed seeds, other foreign material in the lot and the cultivar adaptation to the area etc. Certified seed is clean and the cultivar should have a proven track record.

**KM:** 1) For guaranteed performance.  
2) To help obtain full yield potential of management practices.  
3) Investment back into development of new higher-yielding varieties. At DL Seeds we spend large amounts of

**“Risk reduction and marketing advantages. Certified seed is guaranteed to be clean seed ...”**

— Jamie Larson

resources making sure that the seed we produce meets or exceeds certified standards.

**JL:** 1) Maintaining a competitive advantage. The new varieties purchased through certified seed contribute to improved production efficiency of farming operations through improved yield or improved pest resistance, which reduces costs associated with chemical applications.  
2) Innovation is not cheap. Estimated costs to produce a new variety can easily be in the millions of dollars. Buying certified seed ensures that innovation will continue through payment of royalties to breeding programs.  
3) Risk reduction and marketing advantages. Certified seed is guaranteed to be clean seed, derived from inspected fields of a specific variety with a known quality profile. Quality assurance [has] a major advantage for grain farmers in Canada and a reputation that must be upheld to maintain or expand marketing opportunities. **Jennifer Pinarski**



To read more from our panel of plant breeders, visit [seed.ab.ca](http://seed.ab.ca) to hear their thoughts on public vs. private plant breeding and learn about the accomplishment they are proudest of.



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# Promoting Certified Seed Use Must Be a Joint Effort

**IT'S BEEN A** topic of conversation among farmers for decades — is bin-run seed truly cheaper than certified seed? While most members of the seed industry acknowledge that the initial price of bin-run is significantly less, they point out it doesn't actually reflect the real cost to farmers since it doesn't include factors such as testing, cleaning, storage and transportation.

"If there is one big myth it's that ... farm-saved seed is free. That's the gap that many people leap toward. 'Certified seed is \$12 but what I have in my bin is free.' It's nowhere near free if you start adding everything up," says Todd Hyra, SeCan's business manager for Western Canada.

"First of all, the commodity would make up at least half if not two-thirds of the value of the certified seed. And then you start adding in all of the other things that a seed grower does that anybody farm-saving should be doing in terms of cleaning, moving that seed in and out of a cleaning plant and germination testing. It really comes down to ... only a couple of dollars difference."

## TAKING A HOLISTIC APPROACH

The challenge for retailers is how to use that knowledge to promote the use of certified seed and drive an increase in sales. Allen Terry, biological assessment manager for Syngenta, says the industry needs to take a holistic approach when it comes to the farm-saved versus certified seed debate.

"I think it needs to be an approach from everyone. It's not just retailers," says Terry. "We as a company at Syngenta are working to help demonstrate the value in it and do the research on it to showcase the value of certified seed. It's not just one particular component of the industry, though. It's [got to be] everyone demonstrating the value of it. There's no really easy answer to it. It's a matter of gaining that confidence in the agronomic performance of certified seed and [farmers] seeing it with their own eyes."

Brent Derkatch, director of operations and business development for Canterra Seeds, says many farmers have an "emotional attachment" when it comes to using their own seed and it has become part of the farm community culture over several generations.

To effectively promote certified seed to farmers, Derkatch says retailers have to move the conversation away from just a comparison of the costs.

"I've had discussion and debates with many farmers over the years and it's quite amazing how many of them miss some of the details around costs. They focus only on the costs instead of the benefits," he says. "[They] have invested significant money in technology in their equipment with GPS, precision planters and variable rate technology but they choose to use bin-run seed which, in my opinion, won't allow them to get the maximum benefit of the other technology they've chosen to invest in. It all starts with seed, so paying attention to the details around the seed you use is very, very important."



"I think the one gap or disconnect right now is that it's not a level playing field." — Todd Hyra



"[Farmers] have invested significant money in technology in their equipment with GPS, precision planters and variable rate technology but they choose to use bin-run seed which, in my opinion, won't allow them to get the maximum benefit of the other technology they've chosen to invest in." — Brent Derkatch



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Hyra agrees. He says that in addition to comparing the cost of farm-saved versus certified seed, farmers must also think about the value of their time. In most cases seed growers can transport and clean large quantities of seed far more efficiently than an individual farmer can, he adds.

By purchasing certified seed “you are getting a professional to do that part of the job for you, just the way you’d hire a professional agronomist to provide agronomic recommendations in the field or an accountant to help you manage the accounting side of your business,” Hyra says. “I think the net returns to a large producer would be far more [if they are] spending time managing the commodities market and working with brokers as opposed to cleaning out bins and moving seed in and out of cleaning plants.”

### A PROACTIVE APPROACH

Patty Townsend, CEO of the Canadian Seed Trade Association, says the industry needs to do a better job of discussing the benefits of certified seed with farmers and become more proactive. To that end, her organization launched SeedFortheFuture.ca last year. The interactive website points out the benefits of certified seed for farmers and profiles breeders who discuss what they would be able to do if they had additional funds to develop new technology.

“We have examples in our industry where a new variety of wheat, in Ontario



“We want to document the difference in vigour, the difference in germ, and also the difference in attributes, whether you have a seed lot that is four years removed from certified versus the actual certified seed.” — Allen Terry



“If we truly want to be more competitive, one of the things we need to do is bring more productive varieties with more attributes and better traits to farmers so they can build their productivity and competitiveness.” — Patty Townsend

for example, is developed and it cost a million dollars and nearly nine years to develop it. Five years after commercialization they still had not recovered the costs,” she says. “That’s because the first year farmers bought a lot of certified seed, then they just saved the seed from that production to use as seed. That doesn’t account for the actual cost of developing and the time it took to develop those varieties.

“That’s the challenge for us, to help farmers understand, and I think they are starting to understand, that that’s how they contribute to bringing innovation to their farms. It really is [a partnership]. By paying for or making a contribution to the cost of the innovation they’re actually supporting the development of more innovation.”

Who pays for such innovation and how it should be paid for are questions Canadian seedsmen and their counterparts around the world have been asking for some time now. The International Seed Federation recently conducted a study on wheat that showed certified seed use is generally highest in countries where there are either incentives or government regulation.

The CSTA proposed a tax incentive plan to the Canadian government a few years ago that would have allowed farmers to claim \$130 on their income tax return for every \$100 of certified seed they purchased. The plan would have reduced the price of certified seed and made it essen-

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tially the same as that of farm-saved seed when production costs were factored in.

Although the plan was rejected, the CSTA still favours incentives over government regulation.

"We think it's all advantage [with an incentive system]. Farmers would have an incentive to use certified seed and then they would find out that the certified seed actually does help with their competitiveness and with the profitability and productivity of their farms and they would continue using it," says Townsend. "It would be win-win for everybody because the companies that are developing the varieties can get a return on that investment and develop new varieties that farmers can in turn adopt and get more and more productive."

### EVERYONE PLAYS A ROLE

"Given the fact that, especially in cereals, Canada is behind the rest of the world in terms of our productivity, if we truly want to be more competitive, one of the things we need to do is bring more productive varieties with more attributes and better traits to farmers so they can build their

productivity and competitiveness. If this is a role expected of the private sector, which it is more and more as government moves away from variety finishing, particularly in cereals, then it's going to be very important that everyone plays a role to generate funds that are required to invest in those new varieties," says Townsend.

Terry says his company is eager to play a role in promoting certified seed to farmers. Syngenta is currently conducting a long-term, multi-site project to determine the yield advantages of certified seed in Western Canada. The four-year study is expected to wrap up in 2014 and early indications are that it will back up similar studies recently conducted in Kansas and Colorado.

"We want to document the difference in vigour, the difference in germ, and also the difference in attributes, whether you have a seed lot that is four years removed from certified versus the actual certified seed," he says. "We're looking at it from some of the same angles that have already been done with existing [U.S. Department of Agriculture] informa-

tion, but also looking at the attributes themselves. If you are planting a variety that has a fusarium tolerance, do you have that same confidence for fusarium tolerance in a seed lot that's four years or three years removed from certified versus certified seed itself?"

Hyra says as government investment in seed research in this country continues to decline, farmers will have to pick up some of the slack. While most Canadian farmers recognize that, he says that more needs to be done to get everyone to buy into the notion.

"I think the one gap or disconnect right now is that it's not a level playing field. Some are paying and some aren't. Some guys buy certified seed every year and maybe they are funding a disproportionate amount of the R&D because of their royalty flow whereas others are buying just a small component and farm-saving," he says, adding grain handlers, producers, seed companies and developers are in discussions about how to level that playing field.

**Julie McNabb**



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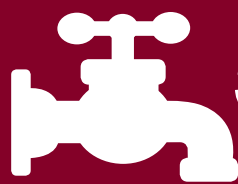
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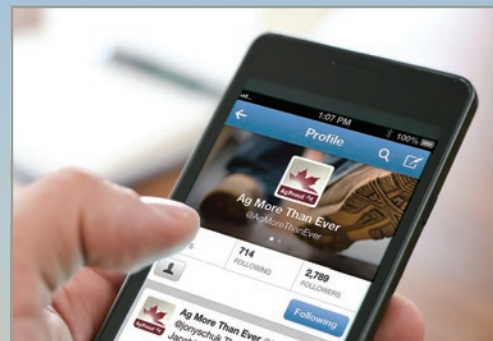
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# Perfect Partnerships

**Working together, the Strathmore Seed Cleaning Plant's stakeholders and community members are building Alberta's largest seed cleaning plant.**

**WHEN** plant manager Keith Reynolds joined the Strathmore Seed Cleaning Plant 32 years ago, the plant was just five years old. As years went by, it was clear that the plant needed extensive upgrades or would have to be rebuilt completely. Luckily for the area's growers, the board of directors for the Strathmore Seed Cleaning Plant voted in favour of not only rebuilding a new plant, but one that will be Alberta's largest.

Construction of Strathmore Seed Cleaning Co-op's new plant began in late 2012, starting with the installation of a 10,500 square foot warehouse-style building. Reynolds anticipates the new plant will open in February, putting them in a good position to help growers with their spring planting.

"From the outside, it looks as though everything is done. But inside, we're still working on wiring and spouting. It's all the little things like that which add up to be big jobs," says Reynolds. "This plant is a big job [and] we want to get it right. We are taking the time to do it properly. ... Most farmers are being very patient, but a few are eager to start marketing their crops. Even those chomping at the bit understand that these things take time."

The construction of the \$7-million plant was funded by the Strathmore Seed Cleaning Plant and the Alberta Capital Finance Authority, which loaned money to Wheatland County. Reynolds is appreciative of how the board of directors worked hard to raise the plant's financial contribution to the new plant.

Much thought was put into the equipment and design of the new Strathmore Seed Cleaning Plant. Reynolds was involved in the design of the plant, which he believes will improve efficiency and speed up load times for farmers. By installing a new drum treater (rather than a gravity treater), staff at the plant will have the ability to pre-treat seed. This means a grower will be able to pull into the plant, load their trucks and be back in the field faster.

The Strathmore Seed Cleaning Plant will boast brand new equipment, with the older equipment in the current plant to be sold off. Reynolds says the new equipment will help boost the plant's processing capacity by more than two-and-a-half times — to nearly 750 bushels per hour. For the commercial cleaning of peas and lentils, capacity jumps to 1,000 bushels per hour.

Standard equipment — colour sorters, gravity tables and de-bearders — will all be in the new plant, but the addition of a de-stoner will help farmers looking to market their peas and lentils for human consumption. Historically, Strathmore Seed Cleaning Plant has processed wheat and barley, but with the new equipment, Reynolds expects that peas and lentils will comprise 50 per cent of the seed that will be processed.

**"From the outside, it looks as though everything is done. But inside, we're still working on wiring and spouting. It's all the little things like that which add up to be big jobs."**

— Keith Reynolds

Of course, all the best equipment in the world doesn't mean a thing if care isn't taken to sort, store and treat seed correctly in the first place. With the new drum treater that has been installed, Reynolds hopes that by making seed treatment faster and easier, more growers will take the time to treat their seed. Preventing the spread of fusarium is top of mind.

"A few years ago, hardly any seed tested came up with fusarium and last year five samples tested positive. We can't pretend it's not out there — fusarium is creeping into the area. Farmers have to treat their seed properly to help stop the spread," Reynolds says. "We're hoping that the new plant will help farmers put the best crop in the ground."

Jennifer Pinarski



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**IN 1964**, the Beatles topped music charts, people drove Impalas and F-Series trucks and the Coronation Seed Cleaning Co-op was established. While much has changed in the last 50 years — the plant's location and the world's taste in music, for example — one thing that has never fallen out of favour is Coronation Seed Cleaning Co-op's commitment to listening to their customers and responding to trends in agriculture.

Glen Hartel joined Coronation Seed Cleaning Co-op in 1986 and has been managing the plant for the past 17 years. Hartel and his two full-time staff take a proactive approach to learning what their customers need to be successful, opting for in-person visits and customer service phone calls. In talking to growers, Hartel has been able to pursue new certification services and make wise equipment investments to ensure the success of the plant and its customers. That extra effort always pays off, and the plant on average processes 900,000 bushels of seed per year. Their busiest year was 2011-2012, with 1,584,357 bushels processed. Last year 1,221,495 bushels of seed were processed at Coronation Co-op, including 100,000 bushels of canola that is shipped to Montana Specialty Mills in Great Falls, Mont.

As one of the few plants in Alberta that is certified by the Organic Crop Improvement Association, Coronation Seed Cleaning Co-op is well positioned to help farmers looking to capitalize in the growing organics market. "A lot of younger farmers are growing organic crops too, because that's what people are looking for. Our certification by OCIA means that we can better help them out," says Hartel. He uses Coronation Seed Cleaning Co-op's shipments to Saskatoon-based Sunrise Foods as an example of how their organic certification benefits customers.

When growers began approaching Hartel about services for their pedigreed seed, he began taking steps to have Coronation Seed Cleaning Co-op approved to offer storage and bulk processing of certified seed. Again, in talking with customers, Hartel learned exactly what services they needed. Hartel expects that the plant's certification will be completed in time for the 2014 season.

Coronation Seed Cleaning Co-op has the capacity to process cereals at a rate of 400 bushels per hour, pulses at 400 bushels per hour and oilseeds at 300 to 400 bushel per hour. In addition to a 142.2 Delta Pre-Cleaner, 117 Delta Air and Screener, LMC 681 Gravity Separator and a G3 cereal treater, Coronation Seed Cleaning Co-op has a Delta I-QCCD five-tray colour and a new gravity table, the Oliver Maxi Cap 3600.

Complementing Coronation Seed Cleaning Co-op's processing services is their bin rental. With 2013 being a bumper year for white wheat (and Hartel anticipates more farmers opting to grow this high-yielding crop), the plant's five available bins are full and Hartel is considering adding more. To help growers during the spring rush,



Coronation Seed Cleaning Co-op added a 12 x 100-foot outside scale. "The scale's card system is perfect for use after hours and takes some ease off the spring lineups," says Hartel.

With spring around the corner, Hartel and his staff are busy readying the plant for the rush, which includes making plans to mark Coronation Seed Cleaning Co-op's milestone anniversary. Hartel says a customer appreciation barbecue is in the works — but no word on whether the Beatles will be on the playlist. **Jennifer Pinarski**

## Service Snapshot

- Organic certification (OCIA)
- Colour sorting
- Seed cleaning (cereals, oilseeds, pulses)
- Sizing malt barley
- Cleaning peas for edible market
- Dockage separations
- Seed treating (cereals and pulses)
- Bagging and tagging of seed (25-kilogram and bulk bags)
- Bin rental (five bins available)





Farm King Backsaver Augers are practical, economical and dependable. That dependability has been a benchmark of Farm King Backsaver Augers for many decades. Auger tubing sizes are available in 10" or 13" diameters and lengths ranging from 50 to 95 feet. The 43 1/2" x 60" intake hopper invites large quantities of grain to be quickly moved up the auger and into the bin. Durable 11 gauge flighting is used on every 10" and 13" Farm King Backsaver model.

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# 2013 Regional Variety Trials

**THE** 2013 data from the Regional Variety Trials will help you make one of your most important farm management decisions — choosing the best seed for your farm. Once you have found a variety that fits your farm, you can source seed available with grower directory charts that appear with the RVT data.

## Legend for Cereals & Oilseeds

### Symbols

- † Denotes variety is flagged for removal.
- NS Denotes variety generally not suited for area.
- XX Denotes insufficient test data to describe.
- Ⓗ Denotes variety protected by Plant Breeders' Rights.
- ▲ Denotes protection under Plant Breeders' Rights has been applied for.
- \* Numerical yield data followed by a star (e.g. 101\*) denotes limited data.

### Resistance

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


### Abbreviations


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

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Contest is open to commercially active farmers in Western Canada (namely the provinces of Manitoba, Saskatchewan, Alberta and the Peace River region of British Columbia). Full contest details at [WinThisBin.ca](http://WinThisBin.ca).  
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InVigor L154	InVigor L252
InVigor L159	InVigor L261



45H29 RR	46S53 RR
45H31 RR	46H75 CL
45S52 RR	D3153 RR
45S54 RR	D3154S RR



1012 RR	2012 CL
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V12-1	v2045
V12-2	



73-75 RR	74-54 RR
74-44 BL	



VT 500 G	VR 9562 GC
VR 9560 CL	



6060 RR	6044 RR	5525 CL
6056 CR	6040 RR	
6050 RR	5535 CL	



CANTERRA 1970	CANTERRA 1990
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Scan here for the latest information on varieties.



# Varieties of Cereal and Oilseed Crops

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

## Test Yield Categories

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

- As the overall average yield for all data available to the AB/BC testing program, with the number of site-years of data indicated. When there are limited data for a new variety, yield information may only appear in the Overall Yield column.
- As the average yields in Low, Medium, High and Very High Test Yield Categories for comparison with the check for productivity regimes and environments that may be anticipated.

Varieties that are statistically higher (+) or lower (-) yielding than the standard check are also indicated. No symbol after the yield figure indicates that there is no statistical difference. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested.

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

To make effective use of the yield comparison tables, producers first need to assess a realistic target yield for the

season and determine if it fits within the Low, Medium, High and Very High Test Yield categories. It should be noted that the indicated yield levels are those from small plot trials, which are often 15 to 20 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.

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

## Yield Summarization Methods

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

Consistent performance over all productivity environments indicates that the variety has good yield stability over a wide range of environments. For new varieties where data are insufficient to provide reasonable estimates of yield performance in each Yield Test Category, the overall provincial yield is a first indication of the yield potential relative to the check.

It is important to note that many of the comparisons in the tables are not direct comparisons. Small plot agronomic trials are expensive to grow, and new varieties are registered every year. It is simply impractical to grow all of the varieties at the same time. Following several years of data collection, the yield data for a particular variety will stabilize relative to the standard check and testing will no longer be warranted. It is for this reason that the same standard reference check varieties are grown every year (e.g. AC Barrie for CWRS wheat, AC Metcalfe for barley) and changes do not occur very often. This means that the only direct comparison that you can be sure of is with that of the reference check. The "number of station-years" column provides some indication of the unbalanced nature of the data.

To help aid in the selection process, varieties that have yielded statistically higher (+) or lower (-) than the standard check are indicated. If a large difference from the check is reported but is not significant, this could mean that the yields of the new variety have varied widely, and/or there still is not enough data



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to prove a statistical difference. In all cases, for the yield data to be presented, there must be a total of at least six station-years of data collected over two years. With additional years of testing, the reported yield differences will become more precise.

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

### Maturity Ratings

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

### Plant Breeders' Rights

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

### Canola

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

### Diseases, Seed 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.
- Treated seed must not be fed to livestock, poultry or wildlife or sold for feed. Refer to labels for maximum storage periods of treated seed.
- The leaf spot rating in the wheat charts is a combination of resistance to tan spot and septoria leaf disease complex.
- Fusarium head blight, caused by *Fusarium graminearum*, is an increasing problem in Alberta. The relative ranking of crops from most susceptible to least susceptible is durum, CPS wheat, CWRS wheat, triticale, barley and oat. Corn is a host of *F. graminearum* and can serve as a source of infection when residue is left on the ground. Under severe epidemics,

all cereal varieties will suffer damage. All seed, especially seed brought in from infected areas of the Eastern Prairies, should be tested for the presence of FHB and treated with an appropriate seed treatment. Producers are advised to choose varieties with the best FHB tolerance whenever possible and always use best management practices to slow the spread of this disease.

- All seed of cereal varieties tested in the Alberta Regional Variety Testing program comes with a "fusarium-free" certificate. In addition, all regional trials are inspected for the disease at the most susceptible stage.

#### Laboratories participating in the FHB testing program:

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

#### Other Variety Information

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

**All tables prepared, reviewed and approved by:**  
Alberta/British Columbia Grain Advisory Committee

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Coordinator RVT/Crop Research Technologist  
Alberta Agriculture and Rural Development



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AGRICULTURE

# FEED AND FOOD BARLEY

Variety	2 or 6 row	Awn Type <sup>1</sup>	Overall Yield	Overall Station Years of Testing	Yield Category <sup>2</sup> (% AC Metcalfe)				Agronomic Characteristics:				
					Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)	Maturity Rating <sup>4</sup>	Test Weight (lb/bu)	TSW <sup>5</sup> (g)	Height (cm)	Resistance to Lodging <sup>6</sup>
<b>GENERAL PURPOSE</b>													
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
<b>AC Metcalfe (bu/ac)</b>			<b>99</b>		<b>47</b>	<b>79</b>	<b>103</b>	<b>133</b>					
<b>AC Metcalfe<sup>3</sup> ☉</b>	<b>2</b>	<b>R</b>	<b>100</b>	<b>482</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>M</b>	<b>52</b>	<b>46</b>	<b>80</b>	<b>F</b>
Brahma ▲	2	R	112+	72	109	110+	114+	112+	M	53	47	74	G
Breton ▲	6	S	106+	29	XX	107	XX	108+	M	49	45	81	F
CDC Maverick ▲	2	S	95-	43	XX	90-	97	96	M	54	55	98	F
Champion ☉	2	R	113+	124	124+	113+	112+	110+	M	53	49	77	G
Muskwa ▲	6	S	105+	44	XX	103	105	110+	M	50	42	73	G
Vivar ☉	6	R	110+	203	99	105+	111+	117+	M	49	44	74	VG
XENA ☉	2	R	112+	256	111+	109+	114+	112+	M	52	49	78	G
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
AC Harper ☉	6	SS	103+	166	95	96-	102	111+	M	48	40	80	G
AC Ranger	6	S	107+	48	101	99	118+	107+	L	49	43	74	F
AC Rosser ☉	6	S	108+	166	101	102	109+	113+	M	48	41	82	G
Busby ☉	2	R	104+	45	107	103	106	103	M	53	49	78	G
CDC Austenson ☉	2	R	112+	65	108	113+	111+	112+	L	54	46	78	G
CDC Bold	2	R	106+	77	111+	107+	106+	102	M	53	48	72	VG
CDC Coalition ☉	2	R	110+	57	107	112+	108+	109+	L	53	47	74	G
CDC Cowboy ☉	2	R	95-	75	107	94-	93-	96-	L	52	55	103	F
CDC Dolly	2	R	101	184	97	100	103+	100	M	53	49	74	F
CDC Trey ☉	2	R	103+	106	101	105+	101	105+	M	52	50	80	G
Chigwell ☉	6	S	104	43	XX	98	106	111+	M	49	41	76	G
CONLON ☉	2	S	94-	63	97	93-	93-	96-	VE	52	52	80	G
Gadsby ▲	2	R	112+	45	XX	114+	114+	108+	M	53	51	83	F
Ponoka ☉	2	R	108+	120	101	107+	110+	109+	L	51	46	80	G
Seebe	2	R	101	229	97	100	102	100	VL	52	50	86	G
Sundre ☉	6	S	110+	72	100	105	112+	117+	L	51	43	86	G
Trochu ☉	6	S	107+	136	101	102	109+	112+	M	49	41	78	G
<b>HULLLESS</b>													
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
CDC Clear ▲	2	R	95-	43	XX	92-	100	XX	L	62	47	85	G
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
CDC Carter ☉	2	R	97-	45	97	99	94-	XX	M	62	39	77	VG
CDC McGwire ☉	2	R	93-	107	88-	93-	99	XX	M	61	39	80	VG
Tyto	6	S	81-	72	79-	84-	96	96	M	55	40	73	VG

**REMARKS:** General Purpose barley varieties are described as follows: 1) General Purpose varieties - standard height and semi-dwarf 2) Hullless- Hullless General Purpose type. Hullless varieties yield 9-12% lower than hulled varieties. Hullless seed is more susceptible to damage than hulled seed, so handling should be minimized. CDC Carter, CDC McGwire and Tyto are normal starch barleys suitable for food use. CDC Clear is a hullless malting variety. New registrations: Brahma (TR07728), Amisk (BT593), Canmore (TR10694) and TR11698 - Insufficient data to describe. ☉ - Protected by Plant Breeders' Rights. ▲ - Plant Breeder's Rights applied for. † - Flagged for removal. XX - Insufficient data to describe. 1 Awn types: R = rough; S = smooth; SS = semi-smooth. 2 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Metcalfe are reported in the Overall and Low, Medium, High, and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 3 Yield is reported relative to AC Metcalfe. Varieties that are statistically higher (+) or lower (-) yielding than AC Metcalfe are indicated. No symbol after the yield figure indicates no statistical difference. 4 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late and VL = Very Late. The long term average maturity for AC Metcalfe is 95 days and is rated as Medium (M). 5 TSW: Thousand Seed Weight. 6 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 7 Varieties with ratings of Fair (F) to Very Poor (VP) for smuts should be treated with a systemic seed treatment to reduce the potential for infection.

## Alberta and British Columbia Pedigreed Seed Growers Directory of Varieties Produced in 2013

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



# FEED AND FOOD BARLEY — CONT.

Disease Tolerance:<sup>6</sup>

Variety	Loose Smut <sup>7</sup>	Other Smuts <sup>7</sup>	Root Rot	Scald	Net Blotch:		Fusarium Head Blight
					Spot form	Net form	

## GENERAL PURPOSE

Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)

AC Metcalfe <sup>3</sup> ☼	VG	F	F	VP	F	VP	F
Brahma ▲	P	VG	G	VP	F	F	F
Breton ▲	P	G	F	F	G	F	VP
CDC Maverick ▲	VP	VG	F	P	G	F	F
Champion ☼	VP	VG	XX	VP	F	VP	F
Muskwa ▲	P	VG	P	G	G	P	VP
Vivar ☼	F	VG	G	F	G	VG	VP
XENA ☼	P	P	G	VP	F	VP	G

Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)

AC Harper ☼	P	F	F	F	F	F	P
AC Ranger	P	F	G	P	G	F	VP
AC Rosser ☼	P	VG	G	VP	G	F	VP
Busby ☼	VP	G	VP	F	G	P	F
CDC Austenson ☼	VP	VG	F	VP	VG	P	F
CDC Bold	P	G	G	VP	F	VP	VP
CDC Coalition ☼	VG	VG	F	VP	G	VP	F
CDC Cowboy ☼	P	G	F	P	G	F	G
CDC Dolly	VP	F	F	F	P	VP	G
CDC Trey ☼	P	VG	G	P	VG	F	F
Chigwell ☼	P	G	P	G	G	F	VP
CONLON ☼	F	F	G	VP	G	F	G
Gadsby ▲	VG	VG	F	VG	G	P	F
Ponoka ☼	VG	VG	F	G	G	P	F
Seebe	VP	VG	F	G	P	VP	G
Sundre ☼	P	VG	P	VG	F	P	VP
Trochu ☼	P	G	G	F	G	VP	F

## HULLESS

Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)

CDC Clear ▲	VG	VG	F	VP	VG	P	G
-------------	----	----	---	----	----	---	---

Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)

CDC Carter ☼	VG	VG	VP	P	G	F	F
CDC McGwire ☼	P	G	G	F	G	F	G
Tyto	VP	VG	F	P	F	VP	P

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# MALTING BARLEY

Variety	2 or 6 row	Awn Type <sup>1</sup>	Overall Yield	Overall Station Years of Testing	Yield Category <sup>2</sup> (% AC Metcalfe)				Agronomic Characteristics:				
					Low < 60 (bu/ac)	Medium 60-90 (bu/ac)	High 90-120 (bu/ac)	V. High > 120 (bu/ac)	Maturity Rating <sup>4</sup>	Test Weight (lb/bu)	TSW <sup>5</sup> (g)	Height (cm)	Resistance to Lodging <sup>6</sup>
<b>MALTING ACCEPTANCE: RECOMMENDED</b>													
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
AC Metcalfe (bu/ac)			<b>99</b>		<b>47</b>	<b>79</b>	<b>103</b>	<b>133</b>					
AC Metcalfe <sup>3</sup> ☼	2	R	100	482	100	100	100	100	M	52	46	80	F
CDC PolarStar ☼	2	R	101	43	XX	103	105+	97	M	52	44	79	G
Major ☼	2	R	107+	72	104	108+	107+	106+	M	51	45	73	G
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
Bentley ☼	2	R	105+	77	109	102	105+	106+	M	52	47	81	G
CDC Copeland ☼	2	R	103+	137	96	101	106+	104+	M	51	47	81	F
CDC Kindersley ☼	2	R	104+	47	XX	102	104	104+	E	53	43	78	G
CDC Meredith ☼	2	R	107+	65	102	108+	108+	107+	L	51	46	76	F
LEGACY ☼	6	SS	99	122	93	95-	102	103	M	49	39	82	G
Merit 57 ☼	2	R	109+	87	110+	108+	109+	111+	VL	51	44	79	F
Newdale ☼	2	R	105+	94	106	104+	105+	106+	M	52	46	73	F
Tradition ☼	6	SS	98	121	90-	95-	101	103	E	50	40	81	G
<b>MALTING ACCEPTANCE: UNDER TEST</b>													
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
AAC Synergy ▲	2	R	115+	27	XX	116	115+	113+	M	51	47	75	F
CDC Anderson	6	R	96	44	XX	96	92	100	M	50	39	80	G
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
CDC Mayfair ☼	6	R	97	56	XX	93-	96	104	E	49	40	76	G
Cerveza ▲	2	R	109+	49	XX	109+	108+	109+	M	51	46	74	F

### MALTING ACCEPTANCE: OTHER

<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>													
Harrington	2	R	93-	284	96-	94-	93-	91-	M	51	44	78	F

**REMARKS:** Malting Barley varieties are described as follows: Recommended: varieties with market acceptance and recommended by the Canadian Malting Barley Technical Centre (CMBTC); Under Test: varieties currently undergoing evaluation for market acceptance; Other: not currently recommended but varieties where a market may exist. TR10214 - Insufficient data to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeder's Rights applied for. XX - Insufficient data to describe. 1 Awn types: R = rough; S = smooth; SS = semi-smooth. 2 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Metcalfe are reported in the Overall and Low, Medium, High and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 3 Yield is reported relative to AC Metcalfe. Varieties that are statistically higher (+) or lower (-) yielding than AC Metcalfe are indicated. No symbol after the yield figure indicates no statistical difference. 4 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late and VL = Very Late. The long term average maturity for AC Metcalfe is 95 days and is rated as Medium (M). 5 TSW: Thousand Seed Weight. 6 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 7 Varieties with ratings of Fair (F) to Very Poor (VP) for smuts should be treated with a systemic seed treatment to reduce the potential for infection.



2013 Regional Variety Trials for barley were conducted at the sites indicated above.



## Fusarium graminearum is a declared pest under the Alberta Pest Act.





# MALTING BARLEY — CONT.

Disease Tolerance:<sup>6</sup>

Net Blotch:

Variety	Loose Smut <sup>7</sup>	Other Smuts <sup>7</sup>	Root Rot	Scald	Spot form	Net form	Fusarium Head Blight
<b>MALTING ACCEPTANCE: RECOMMENDED</b>							
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)</b>							
AC Metcalfe <sup>3</sup> ☼	VG	F	F	VP	F	VP	F
CDC PolarStar ☼	VP	VG	P	VP	G	VP	G
Major ☼	VG	G	F	P	G	F	F
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>							
Bentley ☼	P	G	G	VP	VG	P	P
CDC Copeland ☼	P	F	F	VP	F	F	F
CDC Kindersley ☼	VP	VG	F	VP	G	P	F
CDC Meredith ☼	VG	G	G	VP	VG	VP	F
LEGACY ☼	F	G	G	VP	G	VP	P
Merit 57 ☼	P	VP	F	P	G	P	G
Newdale ☼	VP	G	G	P	G	F	F
Tradition ☼	VP	G	G	VP	F	VP	VP
<b>MALTING ACCEPTANCE: UNDER TEST</b>							
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Metcalfe)</b>							
AAC Synergy ▲	VP	F	F	VP	VG	G	P
CDC Anderson	G	VG	F	P	G	P	F
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>							
CDC Mayfair ☼	VP	G	F	VP	G	P	P
Cerveza ▲	VG	VG	F	VP	G	P	F
<b>MALTING ACCEPTANCE: OTHER</b>							
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Metcalfe)</b>							
Harrington	P	P	F	VP	P	VP	G

There is  
**NO** Plan **B**



Midge tolerant wheat protects your crop against devastating pest damage, but it's up to you to protect the technology. The Stewardship Agreement limits the use of farm-saved seed to one generation past Certified seed. It's a simple step that keeps the interspersed refuge system at the proper level, preventing build-up of resistant midge. Without the refuge, we risk losing the one and only tolerant gene. There is no plan B.

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# BARLEY

S F R C

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Syngenta Canada Inc. / Calgary / (403) 219-5466

## AC ALBRIGHT

**BI: AAFC (Lacombe), Dist: SeCan Members**  
Wuthrich, David / Cecil Lake / (250) 781-3527

## AC HARPER

**BI: AAFC (Lethbridge), Dist: SeCan Members**  
Feenstra, Lloyd / Barons / (403) 757-3737  
Huvenaars, Richard / Hays / (403) 725-2213

## AC LACOMBE

**BI: AAFC (Lacombe), Dist: SeCan Members**  
Jones, Danny / Beaverlodge / (780) 354-8089

## AC METCALFE

**BI: AAFC (Brandon), Dist: SeCan Members**  
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Crop Production Services Canada / Didsbury / (403) 335-3055  
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Eliason, Bruce W. / Wrentham / (403) 222-2258  
Ellis, Brian / Olds / (403) 556-2890  
Hallett, Dale R. & Richard / Carstairs / (403) 337-2469  
Holmen, Jonathan W. & Carson R. / Rosedale / (403) 823-9296  
Kaun, Mark L. / Penhold / (403) 886-4562  
King, Harold F / Three Hills / (403) 443-7330  
Kopjar, Gerald M. / Rowley / (403) 368-2409  
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500  
Limoges, Marcel / Mc Lennan / (780) 324-3024  
Markert, Ron / Vulcan / (403) 485-6708  
McNelly, Bevin / Clyde / (780) 348-5749  
Murray, Bruce / Lethbridge / (403) 327-9389  
Nernetz, Charlie & Jerritt & Lewis & B. / Stettler / (403) 742-0436  
Niemela, Raymond A. / Sylvan Lake / (403) 746-2645  
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645  
Oatway, Ward / Lacombe / (403) 784-3418  
Penner, Larry / Three Hills / (403) 443-7212  
Strain, Arthur George / Foremost / (403) 867-2227  
Svanes, Ronald J. / Picture Butte / (403) 757-2108  
Svean, Alan Carl & Scott / Rivercourse / (780) 745-2578  
Wagner, Terry & Loree / Lacombe / (403) 782-2107

## AC RANGER

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

## AMISK

**BI: FCDC (Lacombe), Dist: SeCan Members**  
SeCan Association / Kanata / (613) 592-8600

## BENTLEY

**BI: FCDC (Lacombe), Dist: Canterra Seeds**  
Cameron, Danny / Millet / (780) 387-5313  
Canterra Seeds Ltd. / Winnipeg / (204) 988-9750  
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517  
Kaun, David E. / Penhold / (403) 886-4562  
King, Harold F / Three Hills / (403) 443-7330  
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696  
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322  
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358  
Welsh, Donald Alan / Milk River / (403) 647-2228

## BRAHMA

**BI: N/A, Dist: Monsanto**  
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## BUSBY

**BI: FCDC (Lacombe), Dist: Mastin Seeds**  
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670  
Gibson, Donald / Sangudo / (780) 785-2214  
Jones, Greg Thomas / Ponoka / (403) 783-6495  
Mastin, Robert B. / Sundre / (403) 556-2609  
Smith, Gary W. / Eckville / (403) 746-5878

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**BI: AARD, Dist: Canterra Seeds**  
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Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358

## CDC ANDERSON

**BI: CDC, Dist: SeCan Members**  
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## CDC AUSTENSON

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Ellis, Brian / Olds / (403) 556-2890				C
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Hallett, Dale R. & Richard / Carstairs / (403) 337-2469			R	C
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Hoff, Peter Edward / Gleichen / (403) 734-2140				C
Huvenaars, John & Lisa / Hays / (403) 725-2126				C
Jones, Greg Thomas / Ponoka / (403) 783-6495	S		R	C
Kemp, Richard L. / Innisfail / (403) 227-4836				C
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Kopjar, Gerald M. / Rowley / (403) 368-2409			R	C
Kotowich, Paul & Dennis / St.Paul / (780) 645-2027				C
Limoges, Marcel / Mc Lennan / (780) 324-3024			R	C
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Massey, Derwin / Stettler / (403) 883-2503			R	C
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Metzger, Don / Three Hills / (403) 572-3284			R	C
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Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645			R	C
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Penner, Larry / Three Hills / (403) 443-7212			R	C
Persely, Edward & Shirley / Bonnyville / (780) 826-2992				C
Selte, Donald / Vermilion / (780) 853-2484				C
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Shultz, Shawn / Didsbury / (403) 335-3694				C
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Stewart, E. Wilbur & Eldon / Big Valley / (403) 876-2784			R	C
Templeton, Brant / Lethbridge / (403) 345-4124				C
Trueblood, Brian G. / Dapp / (780) 954-3745				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S	F	R	C
Webber, Curtis / Stony Plain / (780) 963-6897				C
Weigum, Garry / Three Hills / (403) 443-2476				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				R
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928				C
<b>CDC BATTLEFORD</b>				
<b>BI: CDC, Dist: SeCan Members</b>				
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788				F
Wagner, Terry & Loree / Lacombe / (403) 782-2107				F
<b>CDC CLYDE</b>				
<b>BI: CDC, Dist: University of Saskatchewan</b>				
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027				F
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<b>BI: CDC, Dist: Canterra Seeds</b>				
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Kaun, Mark L. / Penhold / (403) 886-4562				R
Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240				R
Markert, T. Lee / Vulcan / (403) 485-6708				R
Plante, Jacques / St. Paul / (780) 645-4604				C
Wuthrich, David / Cecil Lake / (250) 781-3527				C
<b>CDC COPELAND</b>				
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Dueck, Ralph E. & Brent / Olds / (403) 556-2602	S	F		R
Eliason, Bruce W. / Wrentham / (403) 222-2258				R
Goldstrom, David / Red Deer / (403) 227-2133				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929				C
Hallett, Dale R. & Richard / Carstairs / (403) 337-2469				R
King, Harold F. / Three Hills / (403) 443-7330				C
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Kopjar, Gerald M. / Rowley / (403) 368-2409				C
Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240				C
Markert, Ron / Vulcan / (403) 485-6708				R
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It  
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cont

\*Source: 2012 Field-Scale Canola Performance Trials

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Selte, Donald / Vermilion / (780) 853-2484		R		C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
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Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253		R		C
Wagner, Terry & Loree / Lacombe / (403) 782-2107		R		C
Weigum, Garry / Three Hills / (403) 443-2476			R	
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Meinzinger, Matthew Jr. / Busby / (780) 349-2456				C
Pare, Raymond A. / Wainwright / (780) 842-2073				C
Selte, Donald / Vermilion / (780) 853-2484	S			C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617				C
Webber, Curtis / Stony Plain / (780) 963-6897				C
<b>CDC KINDERSLEY</b>				
<b>BI: CDC, Dist: SeCan Members</b>				
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	
Hallett, Dale R. & Richard / Carstairs / (403) 337-2469				C
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Knight, William, G., Blaine, Craig & Brian / Tees / (403) 784-3633			R	
Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240	F	R		C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645	F	R		C
Vipond, Grant / Didsbury / (403) 335-4376			R	
Weigum, Garry / Three Hills / (403) 443-2476				C
<b>CDC MAVERICK</b>				
<b>BI: CDC, Dist: SeCan Members</b>				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383	S		R	
Goldstrom, David / Red Deer / (403) 227-2133			R	
Hadland, Edward / Balldonneil / (250) 789-3646			R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929	S		R	
Kotowich, Paul & Dennis / St.Paul / (780) 645-2027			R	
Selte, Donald / Vermilion / (780) 853-2484	F			

Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358	S			R
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S	F		R
<b>CDC MAYFAIR</b>				
<b>BI: N/A, Dist: Canterra Seeds</b>				
Sendzick, Don P. & Stephen / Edmonton / (780) 434-1332 R				
<b>CDC MEREDITH</b>				
<b>BI: CDC, Dist: SeCan Members</b>				
Baier, Bill & Dean / Clyde / (780) 348-5791				R
Benci, Dennis / Carmangay / (403) 643-2294				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crop Production Services Canada / Didsbury / (403) 335-3055				C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456				R
Eliason, Bruce W. / Wrentham / (403) 222-2258				C
Ellis, Brian / Olds / (403) 556-2890				C
Goldstrom, David / Red Deer / (403) 227-2133				R
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929		F		C
Hallett, Dale R. & Richard / Carstairs / (403) 337-2469				R
Harris, William P., Linda, Thomas & Alexander / Beaverlodge / (780) 354-2823	S	F		C
Kemp, Richard L. / Innisfail / (403) 227-4836				C
Klassen, Ken / Rosemary / (403) 378-4408				C
Knight, William, G., Blaine, Craig & Brian / Tees / (403) 784-3633				C
Kopjar, Gerald M. / Rowley / (403) 368-2409				C
Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240				C
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696				C
Massey, Derwin / Stettler / (403) 883-2503				C
McDonald, Gerald / Grande Prairie / (780) 538-3868				C
Meding, Ernest / Trochu / (403) 442-2129				C
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 327-9736				C
Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-2595	S			R
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788	S	F		R
Oatway, Grant / Lacombe / (403) 784-3418				R
Penner, Larry / Three Hills / (403) 443-7212				C
Selte, Donald / Vermilion / (780) 853-2484	S	F		C
Shultz, Shawn / Didsbury / (403) 335-3694				C
Vipond, Grant / Didsbury / (403) 335-4376				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F		C

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Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			C
<b>CDC TREY</b>			
<b>BI: CDC, Dist: FP Genetics</b>			
Andersen, B. W. / Kitscoty / (780) 847-2022			C
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928	S	R	
<b>CDC YORKTON</b>			
<b>BI: CDC, Dist: Canterra Seeds</b>			
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322			R
<b>CERVEZA</b>			
<b>BI: AAFC (Brandon), Dist: Mastin Seeds</b>			
Mastin, Robert B. / Sundre / (403) 556-2609			R
Penner, Larry / Three Hills / (403) 443-7212			R
<b>CHAMPION</b>			
<b>BI: CPS (Canada) Inc., Dist: CPS (Canada) Inc.</b>			
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268			C
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027	S	F	R
<b>CHIGWELL</b>			
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>			
Crop Production Services Canada / Didsbury / (403) 335-3055			C
Feenstra, Lloyd / Barons / (403) 757-3737			C
Hadland, Edward / Balldonnel / (250) 789-3646			C
Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535			C
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617		F	
Webber, Curtis / Stony Plain / (780) 963-6897			C
<b>CONLON</b>			
<b>BI: NDSU, Dist: Seed Depot</b>			
Airth, Jock & Linda / Brooks / (403) 362-4372			C
Welsh, Donald Alan / Milk River / (403) 647-2228			C
<b>DUKE</b>			
<b>BI: N/A, Dist: University of Saskatchewan</b>			
Airth, Jock & Linda / Brooks / (403) 362-4372			C
<b>FALCON</b>			
<b>BI: FCDC (Lacombe), Dist: N/A</b>			
Stickland, Brian., Melvin G. & Irma / Red Deer / (403) 886-4875			C
<b>GADSBY</b>			
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>			
Ohrn, Norman / Thorsby / (780) 985-2263			C
Schmermund, Donnie / Calahoo / (780) 967-2850			C
Stewart, E. Wilbur & Eldon / Big Valley / (403) 876-2784		R	
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S	F	R
Webber, Curtis / Stony Plain / (780) 963-6897			R
<b>LEGACY</b>			
<b>BI: Busch Ag. Res., Dist: CPS (Canada) Inc./FP Genetics</b>			
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928			C
<b>MAJOR</b>			
<b>BI: N/A, Dist: CPS (Canada) Inc.</b>			
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027	S		C
<b>MERIT 57</b>			
<b>BI: Busch Ag. Res., Dist: Canterra Seeds</b>			
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358			C
Welsh, Donald Alan / Milk River / (403) 647-2228			C

<b>MUSKWA</b>			
<b>BI: FCDC (Lacombe), Dist: N/A</b>			
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			C
<b>NEWDALE</b>			
<b>BI: AAFC (Brandon), Dist: FP Genetics</b>			
Dalton, Dennis / Wainwright / (780) 842-2361			R
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268			R
Pizey, J. David / Binscarth / (403) 609-3588			C
Thompson, M. Ellwood & Kelly / Innisfail / (403) 728-3535			R
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			C
<b>PONOKA</b>			
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>			
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Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-2595		R	
Selte, Donald / Vermilion / (780) 853-2484			C
Webber, Curtis / Stony Plain / (780) 963-6897			C
<b>SEEBE</b>			
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>			
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670			C
Beamish, Dale / Jarvie / (780) 954-3960			C
Meinzinger, Matthew Jr. / Busby / (780) 349-2456			C
Webber, Curtis / Stony Plain / (780) 963-6897			C
<b>SUNDRE</b>			
<b>BI: FCDC (Lacombe), Dist: Mastin Seeds</b>			
Crop Production Services Canada / Didsbury / (403) 335-3055			R
Feenstra, Lloyd / Barons / (403) 757-3737			C
Hadland, Arthur Austin / Balldonnel / (250) 789-3566			C
Hallett, Dale R. & Richard / Carstairs / (403) 337-2469			C
Jones, Danny / Beaverlodge / (780) 354-8089		S	F
Lyster, Norman / Stettler / (403) 742-4456			R
Mastin, Robert B. / Sundre / (403) 556-2609			R
Mueller, Richard J. & R. R. & Rosemary / Barrhead / (780) 674-2595			R
Richard, Gerald / Spirit River / (780) 864-2339			C
<b>TROCHU</b>			
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>			
Kittle, James William & Andrew / Viking / (780) 336-2583			R
Smith, Gary W. / Eckville / (403) 746-5878			C
Webber, Curtis / Stony Plain / (780) 963-6897			C
<b>VIVAR</b>			
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b>			
Beamish, Dale / Jarvie / (780) 954-3960			C
Crop Production Services Canada / Didsbury / (403) 335-3055		S	
Mans, John / Nobleford / (403) 824-3585			R
Webber, Curtis / Stony Plain / (780) 963-6897			C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			R
<b>XENA</b>			
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# Recommended Malting Barley Varieties 2014-15

**THESE** recommendations are based on the varieties expected to be selected by grain and malting companies for both domestic and export markets from the 2014 harvest. Seeding decisions should be based on agronomic considerations and feedback from your grain company representative, local elevator operators and malting companies. This list is published on behalf of the members of the CMBTC, and other companies that have provided their input. Varieties not listed are not recommended. The varieties are listed in descending order to the amount expected to be selected next crop year.

## RECOMMENDED TWO-ROW BARLEY VARIETIES

VARIETY	DOMESTIC	EXPORT
AC METCALFE <sup>4</sup>	ESTABLISHED	ESTABLISHED
CDC COPELAND <sup>4</sup>	ESTABLISHED	ESTABLISHED
CDC MEREDITH <sup>4</sup>	ESTABLISHED	LIMITED
CDC POLARSTAR <sup>5**</sup>	LIMITED	LIMITED

THE FOUR VARIETIES ABOVE WILL REPRESENT 80 TO 85 PER CENT OF THE ANTICIPATED SELECTIONS.

THE VARIETIES IN THE TABLE BELOW REPRESENT 15 TO 20 PER CENT OF THE ANTICIPATED SELECTIONS AND IT IS EXPECTED THAT SEVERAL OF THEM WILL BECOME DOMINANT VARIETIES IN THE FUTURE.

VARIETY	COMMERCIALIZATION STATUS	NOTE: NORMAN, CERVEZA, CDC LANDIS, ABI VOYAGER AND AAC SYNERGY ARE NOT YET BEING GROWN FOR THE COMMERCIAL MARKET. PRODUCTION IS LIMITED TO QUANTITIES REQUIRED FOR TESTING AND MARKET DEVELOPMENT. **CDC POLARSTAR IS AVAILABLE ONLY THROUGH A CLOSED LOOP IDENTITY PRESERVED PROGRAM OFFERED BY PRAIRIE MALT LIMITED/ SAPPORO BREWERIES AND THEIR AGENTS.
NEWDAL <sup>3</sup>	ESTABLISHED	
MAHOR <sup>1</sup>	INCREASING	
BENTLEY <sup>5</sup>	INCREASING	
MERIT 5 <sup>75</sup>	INCREASING	
CDC KINDERSLEY <sup>4</sup>	INCREASING	

## RECOMMENDED SIX-ROW BARLEY VARIETIES

VARIETY	DOMESTIC	EXPORT
LEGACY <sup>1,2,3</sup>	ESTABLISHED	ESTABLISHED
TRADITION <sup>1,2,3</sup>	ESTABLISHED	ESTABLISHED
CELEBRATION <sup>5</sup>	LIMITED	LIMITED

CDC MAYFAIR AND CDC ANDERSON ARE NOT YET BEING GROWN FOR THE COMMERCIAL MARKET. PRODUCTION IS LIMITED TO QUANTITIES REQUIRED FOR TESTING AND MARKET DEVELOPMENT. PLEASE TALK TO YOUR LOCAL MALTING COMPANY SELECTOR IN REGARDS TO DEMAND FOR LACEY AND ROBUST.

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

The following companies have pedigreed seed distribution rights for those varieties that are footnoted:

1 – Crop Production Services Canada; 2 – BARI-Canada; 3 – FP Genetics; 4 – SeCan; 5 – CANTERRA SEEDS

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

**CMBTC Members:** Alfred C. Toepfer (Canada) Ltd., CANTERRA SEEDS, CWB, Canadian Grain Commission, Cargill AgHorizons, SABMiller, Richardson International, Parrish and Heimbecker, Prairie Malt Limited, the Public Barley Breeders, Syngenta, SeCan, Manitoba Liquor Control Commission, Alberta Agriculture, Saskatchewan Agriculture, Manitoba Agriculture, Molson Coors, Alberta Barley Commission, Fedoruk Seeds, FP Genetics and Viterra. Other organizations providing input to this list: BARI-Canada, BMBRI

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



# OATS

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% CDC Dancer)				Agronomic Characteristics					
			Low < 70 (bu/ac)	Medium 70-100 (bu/ac)	High 100-130 (bu/ac)	V. High > 130 (bu/ac)	Maturity Rating <sup>3</sup>	Test Weight (lb/bu)	TSW <sup>4</sup> (g)	Height (cm)	Resistance to Lodging <sup>5</sup>	Tolerance to Smuts <sup>5</sup>
<b>MILLING</b>												
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to CDC Dancer)</b>												
<b>CDC Dancer (bu/ac)</b>	<b>94</b>		<b>49</b>	<b>84</b>	<b>114</b>	<b>146</b>						
<b>CDC Dancer<sup>2</sup> ☼</b>	<b>100</b>	<b>118</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>E</b>	<b>41</b>	<b>37</b>	<b>94</b>	<b>G</b>	<b>VG</b>
CDC Ruffian ▲	111+	20	110	XX	XX	XX	M	40	39	95	G	VG
CDC Seabiscuit ☼	111+	30	124	106	108	108	M	39	41	101	G	G
Souris ☼	114+	20	126+	XX	XX	XX	M	41	34	92	VG	VG
Stride ☼	104+	30	101	102	107	106	M	42	35	104	G	VG
<b>Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)</b>												
AC Juniper	104+	80	102	104	106+	105+	E	41	38	94	VG	F
AC Morgan	111+	95	110+	110+	111+	115+	M	40	40	92	VG	F
Bradley ☼	104+	31	XX	103	108	106	M	39	39	92	VG	VG
CDC Boyer	102	89	103	102	100	105	M	39	42	101	G	P
CDC Minstrel ☼	104+	61	103	103	105	105+	M	39	38	88	VG	VG
CDC Orrin ☼	109+	52	113+	107+	107+	XX	M	41	40	84	G	VG
CDC Weaver ☼	104	44	108+	103	100	100	M	40	43	91	F	VG
Derby	101	79	103	102	96-	105	L	41	39	103	G	P
Jordan ☼	112+	36	112+	109+	117+	XX	VL	38	44	87	G	VG
Triactor ☼	110+	47	109	108+	114+	110+	M	38	38	89	G	VG
<b>FEED</b>												
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to CDC Dancer)</b>												
CDC Nasser	116+	31	132	107	115+	110	L	38	36	98	G	G
<b>Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)</b>												
AC Mustang *	114+	108	118+	112+	110+	116+	L	42	37	103	G	F
Lu *	100	58	99	98	99	108	VE	41	39	85	G	VG
<b>FORAGE</b>												
<b>Previously tested varieties (Yield and agronomic data only directly comparable to CDC Dancer)</b>												
CDC Baler *	99	42	96	106	96	XX	L	40	43	99	XX	VP
Murphy ☼ *	95-	51	93	96	97	94	M	39	36	108	XX	VP

**Remarks:** Use higher seeding rates for large seeded varieties. New registrations: CDC Ruffian (OT3054) and Souris (ND961161). AAC Justice (OT2084) and CDC Haymaker - Insufficient data to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeder's Rights applied for. \* These varieties have limited data compared to CDC Dancer - yields are indirect comparisons to CDC Dancer based on Cascade. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields (bu/ac) for CDC Dancer are reported in the Overall and Low, Medium, High, and Very High Yield Test Categories. 2 Yields are reported relative to CDC Dancer. Varieties that are statistically higher (+) or lower (-) yielding than CDC Dancer are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late and VL = Very Late. The long term average maturity for CDC Dancer is 98 days and is rated as Early (E). 4 TSW: Thousand Seed Weight. 5 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor.



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## OATS — CONT.

	S	F	R	C
<b>JORDAN</b>				
<b>BI: AAFC (Winnipeg), Dist: SeCan Members</b> Jones, Greg Thomas / Ponoka / (403) 783-6495 Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788			R	
<b>MURPHY</b>				
<b>BI: AAFC (Lacombe), Dist: SeCan Members</b> Markert, Ron / Vulcan / (403) 485-6708 Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617 Webber, Curtis / Stony Plain / (780) 963-6897			R	C
<b>STRIDE</b>				
<b>BI: AAFC (Winnipeg), Dist: SeCan Members</b> Jones, Greg Thomas / Ponoka / (403) 783-6495		F		
<b>TRIACTOR</b>				
<b>BI: SW Seed Ltd., Dist: Canterra Seeds</b> Kapitski, Lawrence / Andrew / (780) 365-2134 Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				C
<b>WALDERN</b>				
<b>BI: AAFC (Lacombe), Dist: SeCan Members</b> Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338	S	F		

## TRITICALE - SPRING

	S	F	R	C
<b>AC ULTIMA</b>				
<b>BI: N/A, Dist: FP Genetics</b> Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358	S			
<b>BUNKER</b>				
<b>BI: FCDC (Lacombe), Dist: FP Genetics</b> Airth, Jock & Linda / Brooks / (403) 362-4372 Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358			R	R
<b>PRONGHORN</b>				
<b>BI: FCDC (Lacombe), Dist: No Rep</b> Corns, Bryan & Gary / Grassy Lake / (403) 655-2464 Mans, John / Nobleford / (403) 824-3585			R	C
<b>SUNRAY</b>				
<b>BI: AAFC, Dist: N/A</b> Fabian, Patrick V. / Tilley / (403) 377-2000 Markert, Louise / Vulcan / (403) 485-6708 Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395	S	F	R	R
<b>TAZA</b>				
<b>BI: FCDC (Lacombe), Dist: Solick Seeds</b> Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358			R	
<b>TYNDAL</b>				
<b>BI: FCDC (Lacombe), Dist: SeCan Members</b> Airth, Jock & Linda / Brooks / (403) 362-4372 Card, Gordon B. / Magrath / (403) 758-3444 Corns, Bryan & Gary / Grassy Lake / (403) 655-2464 Dynamic Seeds Ltd. / Fairview / (780) 835-5435			R	C

## SPRING TRITICALE

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

**Remarks:** Triticale is late maturing compared to CWRS wheat (approximately five days later). AC Ultima yields about 30% more than AC Barrie (CWRS wheat) in areas of adaptation. Bunker, Taza and Tyndal have heads with reduced-awns. ☪ - Protected by Plant Breeders' Rights. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Ultima are reported in the Overall and Low, Medium, High and Very High Yield Test Categories. 2 Yields are reported relative to AC Ultima. Varieties that are statistically higher (+) or lower (-) yielding than AC Ultima are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Ultima is 112 days and rated as Early (E). 4 TSW: Thousand Seed Weight. 5 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor.



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# CANADA WESTERN AMBER DURUM

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% Strongfield)			Mat. Rating <sup>3</sup>	Agronomic Characteristics:				Disease Tolerance: <sup>5</sup>					
			Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)		Test Weight (lb/bu)	TSW <sup>4</sup> (g)	Height (cm)	Resistance to: <sup>5</sup>		Loose Smut <sup>6</sup>	Stripe Rust	Leaf Spot	FHB <sup>7</sup>	
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to Strongfield)</b>																
<b>Strongfield (bu/ac)</b>	<b>64</b>		<b>35</b>	<b>61</b>	<b>95</b>											
<b>Strongfield<sup>2</sup> ☼</b>	<b>100</b>	<b>118</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>M</b>	<b>62</b>	<b>46</b>	<b>84</b>	<b>F</b>	<b>F</b>	<b>VP</b>	<b>F</b>	<b>G</b>	<b>P</b>	<b>VP</b>
AAC Raymore	98	24	XX	100	XX	M	62	47	80	F	F	P	G	G	F	VP
Brigade ☼	103	69	105	103	102	L	63	48	88	G	F	P	VG	G	F	P
CDC Desire	105+	24	XX	104	XX	E	62	44	81	F	G	P	VG	G	F	VP
CDC Vivid	100	24	XX	100	XX	M	62	45	80	G	F	F	VG	XX	F	VP
<b>Previously tested varieties (Yield and agronomic data only directly comparable to Strongfield)</b>																
AC Avonlea ☼	94-	60	100	89-	95-	M	63	44	90	F	F	VP	VG	F	P	P
AC Navigator ☼	95-	65	102	93-	93-	M	63	45	77	G	G	VP	VG	VG	VP	VP
CDC Verona ☼	102	46	103	103	99	M	62	46	82	G	F	P	VG	VG	P	P
Enterprise ☼	101	48	104	100	102	M	63	44	83	G	F	P	G	VG	F	P
Eurostar ☼	102	47	100	105+	99	L	64	47	88	G	F	P	VG	VG	F	P
Transcend ☼	102	35	103	101	100	M	62	47	89	F	F	VP	VG	VG	F	P

**REMARKS:** Generally, durum wheat should only be grown in the south and southwestern portions of Alberta. Outside of these areas, durum is late maturing and subject to quality loss. Strongfield yields about 10% higher than AC Barrie in areas of best adaptation. All durum varieties are susceptible to two new races of loose smut and are generally more susceptible to FHB than CWRS wheat varieties. AAC Raymore has a solid stem that confers resistance to the wheat stem sawfly. New registrations: AAC Raymore (DT818), CDC Desire (DT561), CDC Vivid (DT562), AAC Marchwell VB (DT833) and CDC Fortitude (DT570) - Insufficient data to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeders' Rights applied for. XX - Insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for Strongfield are reported in the Overall and Low, Medium and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to Strongfield. Varieties that are statistically higher (+) or lower (-) yielding than Strongfield are indicated. No symbol after the yield figure indicates no statistical difference. 3 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long-term average maturity for Strongfield is 105 days and is rated as Medium (M). 4 Thousand Seed Weight. 5 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 6 Varieties with ratings of Fair (F) to Very Poor (VP) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. 7 Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date.

## WHEAT - DURUM

### AAC RAYMORE

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

	S	F	R	C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900	S	F	R	
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464			R	
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151		F		
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347	S		R	
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338	S		R	
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 327-9736	S		R	
Welsh, Donald Alan / Milk River / (403) 647-2228	S		R	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F	R	
Willms, Kevin J. / Grassy Lake / (403) 655-2450	S		R	

### AC NAVIGATOR

**BI: AAFC (Swift Current), Dist: CPS (Canada) Inc.**

	S	F	R	C
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027	S			C

### BRIGADE

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

	S	F	R	C
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027	S	F	R	C

### CDC VERONA

**BI: CDC, Dist: Alliance Seed Corp.**

	S	F	R	C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C

### CDC VIVID

**BI: CDC, Dist: CPS (Canada) Inc.**

	S	F	R	C
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027		S	F	

### ENTERPRISE

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

	S	F	R	C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				R C
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 327-9736				R C
Welsh, Donald Alan / Milk River / (403) 647-2228				C

### STRONGFIELD

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

	S	F	R	C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151				C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347				R C
Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338				C
Willms, Kevin J. / Grassy Lake / (403) 655-2450				R

### TRANSCEND

**BI: AAFC, Dist: FP Genetics**

	S	F	R	C
Benci, Dennis / Carmangay / (403) 643-2294				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				R
Logan, Glenn C. & Marie & Douglas / Lomond / (403) 792-3696				R C
Markert, T. Lee / Vulcan / (403) 485-6708				C
Strain, Arthur George / Foremost / (403) 867-2227				C
Welsh, Donald Alan / Milk River / (403) 647-2228				C
Welsh, Stuart Jason / Milk River / (403) 647-2228				C

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# CANADA WESTERN RED SPRING

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% AC Barrie)			Agronomic Characteristics:							Disease Tolerance: <sup>5</sup>				
			Low < 45 (bu/ac)	Medium 45-70 (bu/ac)	High > 70 (bu/ac)	Mat. Rating <sup>3</sup>	Protein %	Test Weight (lb/bu)	TSW <sup>4</sup> (g)	Height (cm)	Resistance to: <sup>5</sup>		Loose Smut <sup>6</sup>	Bunt <sup>6</sup>	Stripe Rust	Leaf Spot	FHB <sup>7</sup>
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Barrie)</b>																	
AC Barrie (bu/ac)	59		35	55	79												
AC Barrie <sup>2</sup> ☼	100	398	100	100	100	M	14.1	63	37	88	G	G	G	F	VP	P	F
5604HR CL ☼	99	76	102	98	99	E	-0.7	63	33	87	G	G	P	F	XX	P	F
AAC Bailey ☼	104	44	104	104	105	M	-0.8	63	37	91	G	G	P	F	XX	F	F
AAC Brandon ▲	112+	27	XX	115+	110+	M	-0.3	65	38	81	G	P	G	VP	G	F	G
AAC Elie ▲	114+	27	XX	118+	110+	M	-0.3	65	38	81	G	F	F	F	G	F	F
AAC Redwater ▲	102	27	XX	106	100	E	-0.1	64	35	87	G	VG	P	F	G	P	F
Cardale ▲	105+	27	XX	107	102	M	-0.4	63	36	84	G	G	F	VP	G	P	G
CDC VR Morris ▲	107+	27	XX	111+	106	M	0.0	65	37	88	G	P	F	F	XX	F	G
CDC Plentiful ▲	105+	27	XX	107	106	M	-0.3	64	35	87	VG	P	VG	F	G	F	G
CDC Stanley ☼	113+	76	114+	114+	113+	M	-0.8	63	34	87	G	G	G	VP	F	F	P
CDC Thrive ☼	108+	66	107	107+	110+	M	-0.4	63	36	88	G	P	G	F	F	F	P
Katepwa	98-	328	97-	98-	98-	E	-0.2	62	35	93	F	F	G	G	P	P	F
SY433 ☼	104	44	101	104	104	M		64	39	95	G	G	F	VP	XX	F	G
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)</b>																	
5602HR ☼	105+	80	101	104	109+	M	0.7	63	37	91	G	F	VG	G	F	P	G
5603HR	105+	63	104	107+	104+	L	-0.5	63	33	87	G	VG	P	F	P	G	F
AC Eatonia ☼	94-	78	87-	97	92-	M	0.4	62	35	92	P	G	F	G	F	P	XX
AC Elsa ☼	103+	110	99	105	104	M	0.2	62	35	89	G	F	G	F	F	F	P
AC Intrepid ☼	102	107	98	103	105+	E	0.0	62	39	90	G	P	F	G	G	P	P
AC Splendor	95-	153	93-	96-	98	VE	0.9	61	37	89	F	F	F	F	F	F	P
Alvena ☼	101	68	100	101	103	E	0.1	63	37	90	G	P	G	G	F	XX	P
Carberry ☼	108+	51	117+	104	105	L	-0.6	64	38	79	VG	F	G	VG	G	P	G
CDC Abound ☼	110+	88	108+	110+	112+	M	-0.1	63	40	82	G	F	F	F	P	P	VP
CDC Go	110+	92	103	111+	116+	M	-0.1	61	42	83	G	VP	P	F	G	VP	P
CDC Imagine ☼	104+	76	102	104	109+	M	0.1	61	37	83	G	F	G	G	F	P	VP
CDC Kernen ☼	107+	61	110	102	110+	M	-0.3	63	37	92	G	F	VG	F	F	P	F
CDC Osler	106+	74	103	106+	108+	E	0.0	61	35	85	G	F	G	G	F	F	VP
CDC Utmost VB ☼	112+	53	115+	112+	111+	M	-0.2	64	36	85	G	G	P	VP	F	F	P
Fieldstar VB ☼	102	50	102	102	102	M	-0.4	63	33	88	F	VG	F	F	P	F	F
Glenn ☼	104	61	110+	100	104	L	-0.2	65	36	85	VG	F	F	F	G	F	F
Goodeve VB ☼	105+	96	107+	103	104	M	-0.1	62	36	88	VG	G	G	P	F	P	VP
Harvest ☼	102	118	98	103	104	M	-0.1	62	36	84	VG	VG	G	VP	G	P	VP
Infinity ☼	104+	74	104	104+	106+	M	-0.4	62	33	89	G	G	G	G	P	P	VP
Kane ☼	99	51	95-	98	102	M	0.4	64	36	85	G	VG	P	F	F	F	F
Lillian ☼	104+	87	111+	100	104	M	0.2	61	37	86	F	G	F	G	VG	G	VP
McKenzie	103+	104	101	104	105+	M	-0.4	62	34	90	F	VG	P	VG	P	F	F
Muchmore ☼	111+	53	119+	107	110	L	-0.9	63	37	75	VG	G	G	VG	G	P	P
Park	97	45	91-	98	102	VE	-0.2	62	35	92	F	G	G	XX	P	P	VP
Peace	100	53	100	97	103	M	0.1	63	37	92	G	P	VG	VG	G	XX	VP
Shaw VB ☼	112+	53	116+	109+	113+	M	-0.9	63	37	92	G	G	VP	G	F	P	P
Stettler ☼	112+	69	119+	109+	111+	M	-0.3	63	37	84	G	G	VG	F	F	VP	P
Superb ☼	112+	184	110+	112+	115+	L	-0.4	62	42	85	G	F	F	G	VP	VP	P
Unity VB ☼	110+	71	111+	110+	111+	M	-0.7	64	36	89	G	G	P	VG	P	P	P
Vesper VB ☼	106+	45	106	108+	104	M	-1.5	63	37	90	F	F	F	VP	VP	F	F
WR859 CL ☼	106+	79	110+	103	107+	M	-0.4	64	34	81	G	G	VG	VG	F	P	G
Waskada ☼	100	67	101	98	102	M	0.1	64	37	92	G	VG	G	VG	P	P	G

**REMARKS:** AC Eatonia and Lillian have a solid stem that confers resistance to the wheat stem sawfly. CWRS wheat grown under irrigation tends to have lower grades. 5604HR 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 midge tolerance gene. New registrations: AAC Brandon (BW932), AAC Elie (BW931), AAC Redwater (PT457), AAC Iceberg (HW021), Whitehawk (HW024), 5605HR CL (BW918) and CDC Whitewood (HW612) - Insufficient data to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeders' Rights applied for. † - Flagged for removal. XX - Insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Barrie are reported in the Overall and Low, Medium and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to AC Barrie. Varieties that are statistically higher (+) or lower (-) yielding than AC Barrie are indicated. No symbol after the yield figure indicates no statistical difference. 3 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Barrie is 106 days and is rated as Medium (M). 4 Thousand Seed Weight. 5 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 6 Varieties with ratings of Fair (F) to Very Poor (VP) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. 7 Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB, all varieties will sustain damage. Good (G) and Very Good (VG) tolerance ratings for FHB do not equate to immunity.



# CANADA WESTERN HARD WHITE SPRING

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% AC Barrie)			Agronomic Characteristics:						Disease Tolerance: <sup>5</sup>					
			Low < 45 (bu/ac)	Medium 45 - 70 (bu/ac)	High > 70 (bu/ac)	Mat. Rating <sup>3</sup>	Protein %	Test Weight (lb/bu)	TSW <sup>4</sup> (g)	Height (cm)	Resistance to: <sup>5</sup>		Loose Smut <sup>6</sup>	Bunt <sup>6</sup>	Stripe Rust	Leaf Spot	FHB <sup>7</sup>
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Barrie)</b>																	
AAC Iceberg ▲	103	25	XX	105	104	M	-0.9	64	39	86	G	P	P	F	G	P	F
Whitehawk ☼	107	42	112+	108+	106	E	-0.9	63	33	90	G	G	F	P	P	P	F
<b>Previously tested varieties (Yield and agronomic data only directly comparable to AC Barrie)</b>																	
Snowbird ☼	101	94	99	101	101	M	-0.2	62	36	89	G	G	G	P	P	VP	F
Snowstar ☼	102	58	99	103	102	M	-0.8	64	30	82	XX	G	P	VP	P	F	P

**REMARKS:** New registrations: AAC Brandon (BW932), AAC Elie (BW931), AAC Redwater (PT457), AAC Iceberg (HW021), Whitehawk (HW024), 5605HR CL (BW918) and CDC Whitewood (HW612) - Insufficient data to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeders' Rights applied for. † - Flagged for removal. XX - Insufficient data to describe.

# CANADA PRAIRIE SPRING RED

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% AC Barrie)			Agronomic Characteristics:						Disease Tolerance: <sup>5</sup>					
			Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)	Mat. Rating <sup>3</sup>	Protein %	Test Weight (lb/bu)	TSW <sup>4</sup> (g)	Height (cm)	Resistance to: <sup>5</sup>		Loose Smut <sup>6</sup>	Bunt <sup>6</sup>	Stripe Rust	Leaf Spot	FHB <sup>7</sup>
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Barrie)</b>																	
AC Barrie (bu/ac)	59		35	55	79												
AC Barrie <sup>2</sup> ▲	100	398	100	100	100	M	14.1	63	37	88	G	G	G	F	VP	P	F
AAC Ryley ▲	121+	23	XX	118+	XX	M	-1.1	61	48	82	G	G	F	VG	VP	P	P
Conquer VB ☼	124+	51	109+	138+	126+	M	-0.8	62	45	84	G	P	P	VG	G	F	P
Enchant VB ☼	118+	23	XX	117+	XX	M	-1.3	62	48	85	F	G	P	VG	XX	P	VP
<b>Previously tested varieties (Yield and agronomic data indirectly comparable to AC Barrie)</b>																	
5700PR ☼	122+	117	113+	125+	134+	L	-1.9	62	42	75	VG	F	P	VG	P	P	P
5701PR ☼	120+	113	105	124+	143+	M	-1.6	61	42	78	G	P	F	F	G	P	VP
5702PR ☼	120+	52	117+	124+	130+	M	-1.8	61	40	79	G	P	P	F	P	F	P
AC Crystal	117+	278	103	122+	130+	L	XX	62	42	79	G	P	F	VG	VP	F	VP
AC Foremost	116+	124	104	119+	130+	M	XX	62	43	73	VG	F	F	VG	VP	P	VP
SY985 ☼	115+	37	XX	124+	112+	M	XX	62	44	78	G	F	VG	G	XX	F	F

# CANADA WESTERN GENERAL PURPOSE

<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to AC Barrie)</b>																	
CDC NRG003 ☼	127+	51	114+	137+	130+	M	-1.9	61	43	80	G	F	P	VG	XX	P	VP
Pasteur	140+	23	XX	135+	134	L	-2.0	62	45	83	VG	G	P	VP	G	F	F
<b>Previously tested varieties (Yield and agronomic data indirectly comparable to AC Barrie)</b>																	
NRG010 ☼	132+	51	120+	140+	136+	L	-2.6	62	41	83	G	P	P	VG	VG	F	P
Minnedosa ☼	122+	44	113+	131+	123+	M	-1.9	62	43	82	G	G	F	G	G	P	P

**REMARKS:** CPS varieties are more susceptible to take-all root rot than other wheat classes. More recent varieties of CPSR have improved quality compared to AC Foremost and AC Taber. Conquer VB and Enchant VB are midge resistant CPSR varieties. VB - designates a varietal blend to preserve the Sm1 midge tolerance gene. New registrations: AAC Ryley (HY1312). Varieties in the General Purpose market class are intended for ethanol and livestock feed purposes. AAC Proclaim (GP80) and AAC Innova (GP47)-Insufficient data to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeders' Rights applied for. XX - Insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Barrie are reported in the Overall and Low, Medium, and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to AC Barrie. Varieties that are statistically higher (+) or lower (-) yielding than AC Barrie are indicated. No symbol after the yield figure indicates no statistical difference. 3 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Barrie is 106 days and is rated as Medium (M). 4 Thousand Seed Weight. 5 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 6 Varieties with ratings of Fair (F) to Very Poor (VP) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. 7 Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of FHB, all varieties will sustain damage. Good (G) and Very Good (VG) tolerance ratings for FHB do not equate to immunity.

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# CANADA WESTERN SOFT WHITE SPRING

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% AC Andrew)			Maturity Rating <sup>3</sup>	Protein %	Test Weight (lb/bu)	TSW <sup>4</sup> (g)	Height (cm)	Resistance to: <sup>5</sup>			Disease Tolerance: <sup>5</sup>			
			Low < 45 (bu/ac)	Medium 45-90 (bu/ac)	High > 90 (bu/ac)						Ldg.	Shat.	Sprt.	Loose Smut <sup>6</sup>	Bunt <sup>6</sup>	Stripe Rust	Leaf Spot
<b>Yield and agronomic data only directly comparable to AC Andrew</b>																	
AC Andrew (bu/ac)	81		42	76	115												
AC Andrew <sup>2</sup>	100	140	100	100	100	L	10.9	63	39	79	VG	VG	P	VP	VP	F	P F
AC Meena	97-	51	101	97-	95	L	0.0	61	37	80	G	G	F	P	VP	G	F VP
Sadash ☉	110+	51	113+	109+	109+	L	0.2	63	39	82	VG	VG	P	F	VP	VG	F VP

**REMARKS:** All soft white spring (SWS) wheat varieties have a semi-dwarf stature. AC Andrew yields about 35% more than AC Barrie. SWS wheat varieties may have potential demand as a feedstock for ethanol production. SWS wheat tends to be more susceptible to preharvest sprouting. AAC Chiffon - Insufficient data to describe. ☉ - Protected by Plant Breeders' Rights. ▲ - Plant Breeders' Rights applied for. XX - Insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for AC Andrew are reported in the Overall and Low, Medium, and High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to AC Andrew. Varieties that are statistically higher (+) or lower (-) yielding than AC Andrew are indicated. No symbol after the yield figure indicates no statistical difference. 3 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for AC Andrew is 110 days and is rated as Late (L). 4 Thousand Seed Weight. 5 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 6 Varieties with ratings of Fair (F) to Very Poor (VP) for loose smut or bunt should be treated with a systemic seed treatment to reduce the potential for infection. 7 Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date.

## WHEAT - MIDGE TOLERANT

### CDC UTMOST-HARVEST

BI: N/A, Dist: FP Genetics

- Andrukow, Alexander & Chad / Camrose / (780) 672-1208
- Dalton, Dennis / Wainwright / (780) 842-2361
- Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036
- Harbin, Clifford T. & Bruce C. / Riverview / (780) 745-2268
- Hoff, Peter Edward / Gleichen / (403) 734-2140
- King, Harold F. / Three Hills / (403) 443-7330
- Markert, Ron / Vulcan / (403) 485-6708
- Persely, Edward & Shirley / Bonnyville / (780) 826-2992
- Sand, Ron W. & David R. / Mc Laughlin / (780) 745-2251
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BI: N/A, Dist: Canterra Seeds

- Canterra Seeds Ltd. / Winnipeg / (204) 988-9750
- Haney Farms (1985) Limited / Picture Butte / (403) 738-4517
- Huvenaars, John & Lisa / Hays / (403) 725-2126
- Jensen, Albert / Drumheller / (403) 823-9976
- Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500
- Markert, Ron / Vulcan / (403) 485-6708
- Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 327-9736
- Rasmussen, Brian Dale & Joel Trevor / Standard / (403) 644-3800
- Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322

### ENCHANT-AC CRYSTAL

BI: N/A, Dist: FP Genetics

- Dalton, Dennis / Wainwright / (780) 842-2361
- Sand, Ron W. & David R. / Mc Laughlin / (780) 745-2251

### GOODEVE-AC INTREPID

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### SHAW-AC DOMAIN

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

### UNITY-WASKADA

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### VESPER-WASKADA

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BI: Syngenta Seeds Canada, Dist: CPS (Canada) Inc.  
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027

### 5700PR

BI: CPS (Canada) Inc., Dist: CPS (Canada) Inc.

- Dechaine, Louis / St. Lina / (780) 635-2235
- Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027

### 5702PR

BI: Syngenta Seeds Canada, Dist: CPS (Canada) Inc.

- Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027
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BI: AAFC (Swift Current), Dist: Canterra Seeds

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### AAC BRANDON

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

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- Dyck, Heinz W., Colin & Alan / Rosemary / (403) 378-3321
- Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322
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Markert, Ron / Vulcan / (403) 485-6708	S		
Stamp, Richard & M. & Greg & Nathan & Matt / Enchant / (403) 739-2233	S		
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S		
<b>AAC ELIE</b>			
<b>BI: AAFC, Dist: Alliance Seed Corp.</b>			
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<b>AAC ICEBERG</b>			
<b>BI: AAFC, Dist: Alliance Seed Corp.</b>			
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 327-9736	F		
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<b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>			
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Hadland, Edward / Baldonnel / (250) 789-3646	S		
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929	S	F	
Oatway, Ward / Lacombe / (403) 784-3418	S	F	
Senzdiak, Don P. & Stephen / Edmonton / (780) 434-1322	S		
Trueblood, Brian G. / Dapp / (780) 954-3745	S	F	
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617	S	F	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S	F	
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Dargis, Richard / St. Vincent / (780) 635-2333	R		
Dyck, Heinz W., Colin & Alan / Rosemary / (403) 378-3321	S		
Hadland, Edward / Baldonnel / (250) 789-3646	S	R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929	S	F	
Harris, William P., Linda, Thomas & Alexander / Beaverlodge / (780) 354-2823	S	F	
Kopjar, Gerald M. / Rowley / (403) 368-2409	S		
Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240	F		
Mercer, Lloyd A. & C. & Ryan & Bolstad, Leslie / Lethbridge / (403) 327-9736	S	R	
Penner, Larry / Three Hills / (403) 443-7212	R		
Shultz, Shawn / Didsbury / (403) 335-3694	S		
Wuthrich, David / Cecil Lake / (250) 781-3527	S	R	
<b>AC ANDREW</b>			
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Degenhardt, Keith L., Terry L. & Kerry / Hughenden / (780) 856-2383	S		C

Kittle, James William & Andrew / Viking / (780) 336-2583				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				R
<b>AC CRYSTAL</b>				
<b>BI: AAFC (Swift Current), Dist: SeCan Members</b>				
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Pare, Raymond A. / Wainwright / (780) 842-2073	S			C
Sand, Ron W. & David R. / Mc Laughlin / (780) 745-2251				C
<b>AC EATONIA</b>				
<b>BI: CPS (Canada) Inc., Dist: CPS (Canada) Inc.</b>				
Willms, Kevin J. / Grassy Lake / (403) 655-2450				R
<b>AC FOREMOST</b>				
<b>BI: AAFC (Swift Current), Dist: SeCan Members</b>				
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Andrukow, Alexander & Chad / Camrose / (780) 672-1208				C
Beamish, Dale / Jarvie / (780) 954-3960				C
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Clark, Todd / Edmonton / (780) 472-6308				C
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Cyre, Clifford & Greg / Barrhead / (780) 349-4775				R C
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Kopjar, Gerald M. / Rowley / (403) 368-2409			F	C
Pizey, J. David / Binscarth / (403) 609-3588				C
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Stamp, Richard & M. & Greg & Nathan & Matt / Enchant / (403) 739-2233				C
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 Templeton, Doran / Lethbridge / (403) 345-4144  
 Weigum, Garry / Three Hills / (403) 443-2476  
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**CDC IMAGINE**

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

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 Kapitski, Lawrence / Andrew / (780) 365-2134  
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 Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322

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**CDC OSLER**

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

Hill, Gordon P. / Taylor / (250) 789-3469

F R

**CDC PLENTIFUL**

**BI: CDC, Dist: FP Genetis**

Andersen, B. W. / Kitscoty / (780) 847-2022  
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 Sim, Darwin & Derek / Ponoka / (780) 372-2111

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**CDC STANLEY**

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 Wurz, John / Picture Butte / (403) 757-2330

S F R C  
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**CDC VR MORRIS**

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S F R C

**HARVEST**

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 Lindholm, Craig & Stevan & Dane & L. / New Norway / (780) 352-3240  
 Pizey, J. David / Binscarth / (403) 609-3588  
 Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358  
 Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253  
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**LILLIAN**

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

Croymans, John, Joseph & Andrew / Bow Island / (403) 545-2151  
 Hierath, Michael Wayne & Philip / Milk River / (403) 647-2347  
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 Strain, Arthur George / Foremost / (403) 867-2227  
 Welsh, Donald Alan / Milk River / (403) 647-2228  
 Willms, Kevin J. / Grassy Lake / (403) 655-2450

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**MUCHMORE**

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 Crop Production Services Canada / Didsbury / (403) 335-3055  
 Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036  
 King, Harold F / Three Hills / (403) 443-7330  
 Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240  
 Markert, Ron / Vulcan / (403) 485-6708  
 Massey, Derwin / Stettler / (403) 883-2503  
 Sim, Darwin & Derek / Ponoka / (780) 372-2111  
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**PARK**

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 Mueller, Darcy / Three Hills / (403) 823-9788  
 Van Roessel, William & Jean / Bow Island / (403) 545-6018

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**SADASH**

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

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 Andrukow, Allan / Viking / (780) 385-6402  
 Croymans, John, Joseph & Andrew / Bow Island / (403) 545-2151  
 Eliason, Bruce W. / Wrentham / (403) 222-2258  
 Fabian, Patrick V. / Tilley / (403) 377-2000  
 Haney Farms (1985) Limited / Picture Butte / (403) 738-4517  
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Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240		C			
Macy, Don / Waskatenau / (780) 358-2411	R	C			
Pare, Raymond A. / Wainwright / (780) 842-2073	R				
Sand, Ron W. & David R. / Mc Laughlin / (780) 745-2251		C			
Stamp, Richard & M. & Greg & Nathan & Matt / Enchant / (403) 739-2233	R				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	R				
Witdouch, Dale & Calvin / Iron Springs / (403) 738-4395		C			
Wood, Robert & Patricia & Marshall / Bowden / (403) 224-3928		R	C		
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Cameron, Danny / Millet / (780) 387-5313			C		
Clark, Todd / Edmonton / (780) 472-6308			C		
Crop Production Services Canada / Didsbury / (403) 335-3055			C		
Cyre, Clifford & Greg / Barrhead / (780) 349-4775	F	R	C		
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456	R		C		
Fabian, Patrick V. / Tilley / (403) 377-2000			C		
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Penner, Larry / Three Hills / (403) 443-7212						C		
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Sekulic, John Jr. / Rycroft / (780) 765-2280						C		
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Weigum, Garry / Three Hills / (403) 443-2476						C		
Wuthrich, David / Cecil Lake / (250) 781-3527						C		
Zwack, Thomas / Daysland / (780) 374-2450						C		
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<b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>								
Airth, Jock & Linda / Brooks / (403) 362-4372						C		
Jones, Danny / Beaverlodge / (780) 354-8089					R	C		
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Syngenta Canada Inc. / Calgary / (403) 219-5466								
<b>SY985</b>								
<b>BI: Syngenta Seeds Canada, Dist: CPS (Canada) Inc., Cargill Ltd., Richardson Pioneer and Andrukow Seed</b>								
Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027				S	F	R	C	
Rasmuson, Dennis G. & Cory Dean / Gwynne / (780) 361-3813				S				
Syngenta Canada Inc. / Calgary / (403) 219-5466						F	R	C
<b>WASKADA</b>								
<b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>								
Degenhardt, Keith L. , Terry L. & Kerry / Hughenden / (780) 856-2383								C
Pare, Raymond A. / Wainwright / (780) 842-2073						F		
<b>WHITEHAWK</b>								
<b>BI: AAFC (Winnipeg), Dist: SeCan Members</b>								
Benci, Dennis / Carmangay / (403) 643-2294								R
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# CANADA WESTERN RED WINTER

Variety	Yield Category <sup>1</sup> (% Radiant)					Agronomic Characteristics:								Disease Tolerance: <sup>3</sup>						
	Overall Yield	Overall Station Years of Testing	Low	Medium	High	V. High	Wint. Surv. <sup>3</sup>	Mt. Rating <sup>4</sup>	Prtn. %	Test Weight (lb/bu)	TSW <sup>6</sup> (g)	Ht. (cm)	Kernel Type <sup>5</sup>	Resistance to: <sup>3</sup>			Stripe Rust	Leaf Rust	Stem Rust	FHB <sup>7</sup>
			< 45 (bu/ac)	45-75 (bu/ac)	75-105 (bu/ac)	> 105 (bu/ac)								Ldg.	Shat.	Bunt				
<b>CANADA WESTERN RED WINTER</b>																				
<b>Yield and agronomic data only directly comparable to Radiant</b>																				
<b>Radiant (bu/ac)</b>	<b>76</b>	<b>37</b>	<b>63</b>	<b>89</b>	<b>113</b>															
<b>Radiant<sup>2</sup> ☼</b>	<b>100</b>	<b>186</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>VG</b>	<b>L</b>	<b>12.0</b>	<b>63</b>	<b>36</b>	<b>89</b>	<b>HR</b>	<b>VG</b>	<b>G</b>	<b>VP</b>	<b>P</b>	<b>VP</b>	<b>VP</b>	<b>VP</b>	
AAC Gateway ▲	100	38	XX	101	99	XX	F	M	0.9	64	34	76	HR	VG	G	VP	G	F	G	F
AC Bellatrix	99	181	105	100	97-	101	F	M	0.3	64	36	91	HR	G	G	F	VP	VP	VP	F
AC Tempest	97-	117	96	97	96-	99	P	VL	1.5	63	37	90	HR	VG	G	P	G	VP	VP	F
CDC Buteo	97-	125	93-	99	94-	104	VG	M	0.3	65	34	90	HR	F	G	VP	VP	G	G	G
CDC OSPREY	99	177	98	100	98	101	VG	M	0.1	63	31	92	HR	G	G	VP	VP	P	P	P
Emerson ▲	97	51	XX	98	97	XX	G	M	0.5	64	30	86	HR	VG	G	VP	G	G	VG	VG
Flourish ☼	99	71	XX	99	98	XX	F	E	0.5	63	35	80	HR	VG	G	F	F	F	F	VP
Moats ▲	103	36	XX	103	103	XX	G	M	0.7	65	33	92	HR	F	G	P	G	VG	VG	VP

<b>CANADA WESTERN GENERAL PURPOSE</b>																				
<b>Yield and agronomic data only directly comparable to Radiant</b>																				
Accipiter ☼	103	45	XX	106	104	XX	G	M	-0.5	64	30	83	HR	VG	G	VP	XX	G	VG	VP
Broadview ☼	100	62	XX	103	99	XX	G	E	-0.6	64	32	81	HR	G	G	VP	VP	VG	VG	VP
CDC Falcon <sup>8</sup>	100	151	89 -	103	99	100	F	E	-0.5	63	31	75	HR	VG	G	VP	VP	G	G	VP
CDC Ptarmigan	106+	81	XX	108	106+	105	G	M	-1.8	61	34	92	SW	F	G	VP	VP	P	P	F
Peregrine ☼	107+	45	XX	106	108+	XX	VG	M	-0.7	64	34	96	HR	F	G	VP	G	VG	VG	F
Pintail ▲	107+	51	XX	107	109+	XX	VG	L	-1.4	61	29	87	HR	G	G	VP	G	P	P	VP
Sunrise	106+	40	XX	108	107	XX	G	M		61	32	89	SR	G	G	VP	G	G	G	XX
Swainson	109+	18	XX	XX	111+	XX	F	M	-0.2	64	39	94	HR	F	G	VP	G	VG	VG	XX

**REMARKS:** Winter wheat can be grown successfully in all areas of Alberta if seeded into standing stubble within the optimal seeding date period (generally before September 15) and if there is adequate snowfall. Varieties with Poor winter survival are generally not suitable outside of southern Alberta. Radiant has resistance to the wheat curl mite, the vector for wheat streak mosaic virus. AC Bellatrix and Flourish have resistance to common bunt; other varieties should be treated with a systemic seed treatment to reduce the potential for plant infection. Winter wheat may escape FHB infection if seeded before September 15. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. New Registrations: CDC Chase (DH01-28-137), Swainson (DH01-25-135\*R). Swainson is a public release from the University of Saskatchewan and breeder seed is available. Emerson will be available in fall 2014. AAC Gateway and CDC Chase will not be available in fall 2014. CDC Chase - Insufficient data to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeders' Rights applied for. XX - Insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for Radiant are reported in the Overall and Low, Medium, High and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to Radiant. Varieties that are statistically higher (+) or lower (-) yielding than AC Barrie are indicated. No symbol after the yield figure indicates no statistical difference. 3 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 4 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for Radiant is 222 days after January 1 (August 10) and is rated as Late (L). 5 Thousand Seed Weight. 6 Kernel Type: HR = Hard Red; SW = Soft White; SR = Soft Red. 7 Fusarium Head Blight (FHB) infection is highly influenced by the environment and heading date. Under high levels of the FHB, all varieties will sustain damage. Good (G) and Very Good (VG) tolerance ratings for FHB do not equate to immunity. 8 CDC Falcon will be moved to the Canada Western General Purpose class on August 1, 2014. For more information, please refer to the Variety Designation Lists at the CGC website ([www.grainscanada.gc.ca](http://www.grainscanada.gc.ca)).

## WHEAT - WINTER

### AAC GATEWAY

BI: AAFC, Dist: N/A

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

### AC TEMPEST

BI: AAFC (Lethbridge), Dist: SeCan Members

Murray, Bruce / Lethbridge / (403) 327-9389

### EMERSON

BI: AAFC, Dist: Canterra Seeds

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

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

Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151

### FLOURISH

BI: AAFC (Lethbridge), Dist: SeCan Members

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

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

### MOATS

BI: CDC, Dist: SeCan Members

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

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

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

Metzger, Don / Three Hills / (403) 572-3284

Sekulic, John Jr. / Rycroft / (780) 765-2280

Stamp, Richard & M. & Greg & Nathan & M. / Enchant / (403) 739-2233

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

### PINTAIL

BI: FCDC (Lacombe), Dist: Mastin Seeds

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

### RADIANT

BI: AAFC (Lethbridge), Dist: Canterra Seeds

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

Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151

Haney Farms (1985) Limited / Picture Butte / (403) 738-4517

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

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

# FALL RYE

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% Prima)				Agronomic Characteristics:					Resistance to: <sup>3</sup>		
			Low < 48 (bu/ac)	Medium 48-80 (bu/ac)	High 80-112 (bu/ac)	V. High > 112 (bu/ac)	Winter Survival <sup>3</sup>	Maturity Rating <sup>4</sup>	Test Weight (lb/bu)	TSW <sup>5</sup> (g)	Height (cm)	Ldg.	Sprt.	
<b>Yield and agronomic data only directly comparable to Prima</b>														
Prima (bu/ac)	81		36	63	91	135								
Prima <sup>2</sup>	100	87	100	100	100	100	EX	E	58	33	119	F	F	
AC Remington	99	39	120	100	94	87-	EX	M	57	31	96	G	VG	
AC Rifle	100	87	114	105	97	87-	EX	E	57	30	88	VG	VG	
Hazlet	118+	30	XX	125+	114	106	EX	M	58	39	106	G	XX	

**REMARKS:** AC Rifle and AC Remington are semi-dwarf varieties. Hazlet has lower viscosity which improves feed performance in monogastric livestock. Hazlet has lower falling number than other varieties. No fall rye variety performance data were collected in 2010 and 2011. XX - Insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for Prima are reported in the Overall and Low, Medium, High and Very High Yield Test Categories. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to Prima. Varieties that are statistically higher (+) or lower (-) yielding than Prima are indicated. No symbol after the yield figure indicates no statistical difference. 3 Resistance/Tolerance Ratings: EX = Excellent; VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 4 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for Prima is 215 days after January 1 (August 3) and is rated as Early (E). 5 Thousand Seed Weight.

# WINTER TRITICALE

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

**REMARKS:** Winter triticale has a winter hardiness potential slightly lower than winter wheat. Bobcat, Luoma and Metzger have heads with reduced awn length (awnletted), making them more palatable in forage applications. No winter triticale variety performance data were collected from 2009-2013. 1 The actual yields for Pika are provided in bu/ac. Note that small plot yields may be 10-15% higher than field scale results. 2 Yields are reported relative to Pika. Varieties that are statistically higher (+) or lower (-) yielding than Pika are indicated. No symbol after the yield figure indicates no statistical difference. 3 Resistance/Tolerance Ratings: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor. 4 Maturities rated as: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for Pika is 224 days after January 1 (August 12) or about a week later than most winter wheat varieties. 5 Thousand Seed Weight.

## RYE

	S	F	R	C
<b>HAZLET</b> BI: AAFC (Swift Current), Dist: SeCan Members Foster, Norman R. / Beaverlodge / (780) 354-2107				C
<b>MUSKETEER</b> BI: AAFC (Swift Current), Dist: SeCan Members Cancrop Marketing Ltd. / Three Hills / (403) 443-9599 Degenhardt, Keith L. & Terry L. & Kerry / Hughenden / (780) 856-2383 Weigum, Sarah / Three Hills / (403) 443-9599			R	C
<b>PRIMA</b> BI: AAFC (Swift Current), Dist: SeCan Members Bayes, Harold / Trochu / (403) 443-2208 Mueller, Darcy / Three Hills / (403) 823-9788 Weigum, Sarah / Three Hills / (403) 443-9599	S		R	C

## TRITICALE - WINTER

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



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# Canola Variety Information

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

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

The CPT trials in 2013 were 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 delivered the program on the committee's behalf.

The CPT summaries provided in this publication are based on successful trials that did not show confounding factors during field inspections. There were 20 successful small plot trials and more than 100 field scale trials in 2013. The trial sites were distributed based on seeded acres in Manitoba, Saskatchewan and Alberta.

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

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

Field scale comparisons add extra perspective for assessing consistency in variety performance. A check variety 73-75 RR was included in all field scale trials in 2012 and 2013.

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 seven to 19 bushels per

acre in 2013. If variety A yielded 70 bu/ac and variety B yielded 75 bu/ac, they would be considered statistically the same. 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 and crop tolerance).

When comparing variety yields in the field scale summaries, an asterisk (\*) indicates yields that are statistically different than 73-75 RR (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 up to 15 to 20 sites, and then marginally after that. This means that smaller differences are more relevant when all sites are averaged than just a few selected sites. Also, when there are a high number of individual sites for comparing two varieties, this increases the predictability that the average yield differences would likely occur in other fields in future years.

## Where are CPT results available?

Results are available through an online interactive tool at [www.canolaperformancetrials.ca](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.

NOTE: *Brassica rapa* (Polish Canola) and Canola Quality *Brassica juncea* – no varieties were tested under PCT in 2012 or 2013.



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# SMALL SCALE SUMMARY 2013

Variety	Distributor	Yield (bu/ac)				Maturity (days)			Height (cm)			Blackleg Rating
		Long (2)*	Mid (14)*	Short (4)*	Average	Long	Mid	Short	Long	Mid	Short	
<b>Clearfield</b>												
5525 CL	BrettYoung	86	69	75	72	94	100	108	130	115	125	R
VR 9560 CL***	Viterra	87	72	80	75	93	102	110	130	123	125	R
LSD		13	9	19								
<b>Liberty Link</b>												
5440	Bayer CropScience	100	75	90	82	94	99	108	128	120	128	R
L252	Bayer CropScience	112	79	96	87	95	101	109	128	120	123	R
L261	Bayer CropScience	101	76	89	82	93	102	110	150	130	138	R
L130	Bayer CropScience	94	72	89	79	9	99	107	130	120	125	R
L154	Bayer CropScience	103	74	87	81	93	99	108	130	120	125	R
L159	Bayer CropScience	98	77	90	82	95	100	109	138	125	130	R
LSD		14	7	9								
<b>Roundup Ready</b>												
1990	CANTERRA SEEDS	99	74	82	79	92	100	109	126	114	115	R
6044 RR	BrettYoung	97	70	80	76	95	99	107	127	112	113	R
6050 RR	BrettYoung	91	70	77	74	93	99	107	117	110	118	R
6060 RR	BrettYoung	98	72	81	77	97	103	110	134	119	125	R
73-15 RR	DEKALB	X	X	75	75	X	X	105	X	X	110	MR
73-45 RR	DEKALB	87	68	79	73	92	98	106	110	105	110	R
73-75 RR	DEKALB	101	72	75	77	92	99	106	121	111	110	R
74-44 BL	DEKALB	94	72	81	77	92	98	107	120	107	115	R
74-47 CR	DEKALB	102	70	81	77	96	101	108	128	114	123	R
74-54 RR	DEKALB	95	71	81	76	92	99	107	119	113	118	R
SY4114	Syngenta Canada	101	72	75	76	92	99	106	120	110	110	R
SY4135	Syngenta Canada	100	72	81	78	92	99	107	122	110	115	R
V12-1**	Cargill - VICTORY Canola	93	74	86	79	93	100	109	134	117	120	R
V12-2**	Cargill - VICTORY Canola	93	69	76	74	96	101	109	128	113	118	R
VR 9562 GC	Crop Production Services	98	73	82	78	94	99	107	133	119	130	R
VT 530 G	Crop Production Services	96	73	83	78	93	100	108	132	119	123	MR
Varieties that have been supported for registration												
09H7757	Cargill - VICTORY Canola	95	75	84	80	97	103	109	138	125	125	
10DL30109	DL Seeds	94	71	73	74	95	100	108	132	116	123	
10DL30509	DL Seeds	99	75	80	79	96	102	110	130	115	118	
LSD		11	7	12								

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

\*\* Specialty oil profile and available for premium pricing. \*\*\*Higher oil content and may be eligible for pricing premiums.

X = not tested in all zones.

LSD = least significant yield difference (five per cent level) within herbicide system.

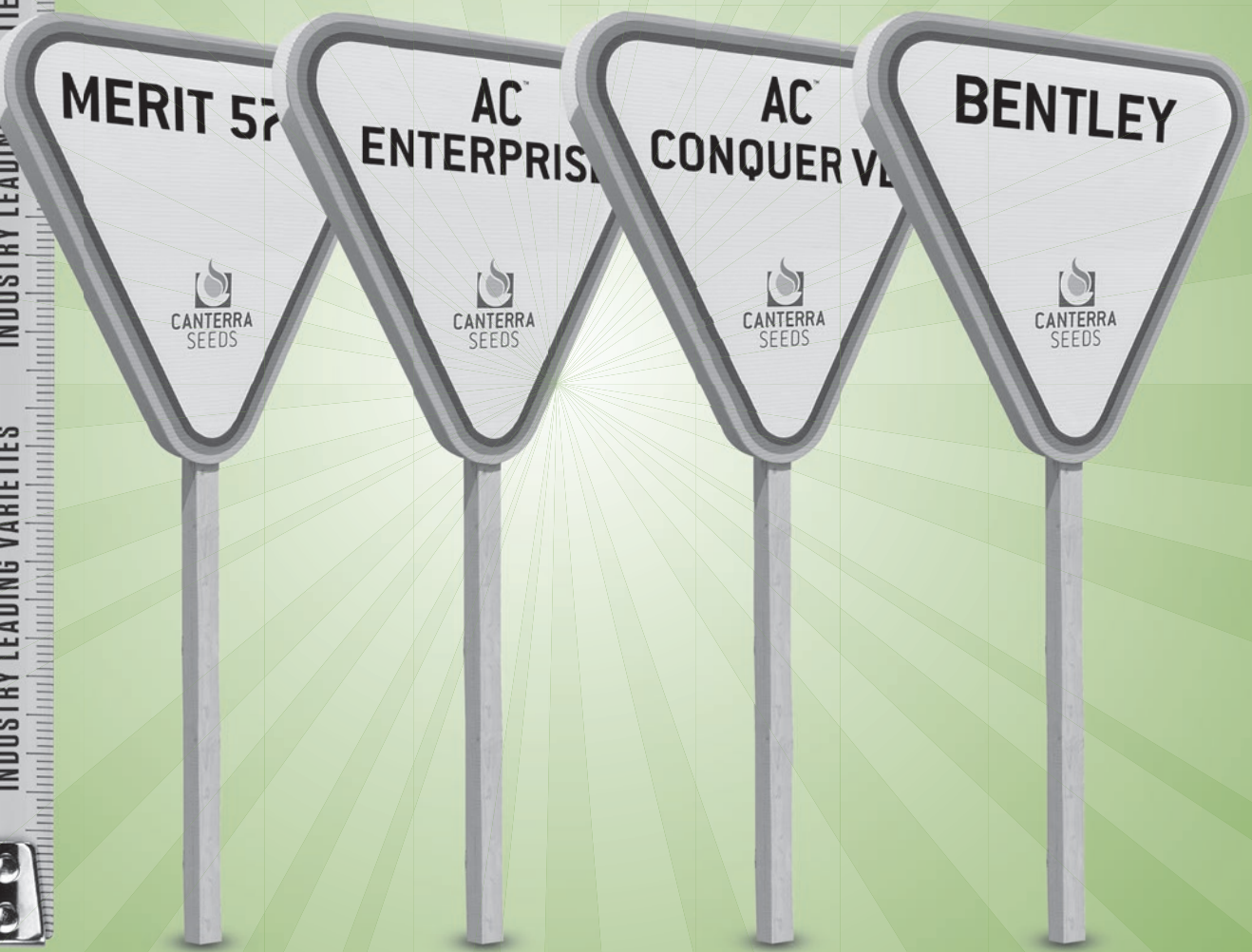
**Producers in areas where *f. graminearum* is present: employ **Best Management Practices** that include the use of diverse rotational crops, irrigation scheduling, seed and foliar fungicide applications, composted manure, disease-tolerant wheat and barley varieties, and testing seed for the presence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





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# FIELD SCALE SUMMARY 2013

Variety	% Yield of 73-75 RR			
	Long	Mid	Short	Average
<b>Check</b>				
<b>73-75 RR (yield in bu/ac)</b>	<b>55</b>	<b>53</b>	<b>51</b>	<b>53</b>
<b>Liberty Link</b>				
5440	100 (9)	102 (19)	107* (6)	102
L252	108* (7)	104* (16)	107* (5)	105*
L261	107* (7)	103 (14)	107* (5)	105*
L130	101 (16)	102 (30)	109* (10)	103*
L154	X	105 (8)	X	103
L159	X	102 (6)	X	101
<b>Roundup Ready</b>				
1990	X	100 (16)	106 (6)	101
6060 RR	X	93* (7)	X	94*
73-15 RR	-	104* (20)	106* (10)	104*
73-45 RR	99 (13)	101 (40)	106* (12)	102*
73-75 RR	100 (22)	100 (68)	100 (18)	100
74-44 BL	102 (18)	104* (50)	107* (16)	104*
74-47 CR	X	98 (21)	X	98*
74-54 RR	101 (14)	103* (42)	104 (12)	102*
SY4114	-	X	X	100
SY4135	-	X	X	101
V12-1	-	99 (10)	-	99
V12-2	-	97 (7)	-	97

\* Statistically significant difference (5% level) compared to check using paired t-test.  
 - indicates variety was not tested in zone

The number of comparisons in zone is included in brackets.

X = less than five data points in zone and therefore zone average is not shown.



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Ph. (855) 939-4021  
Fax (780) 939-2605

In areas where *f. graminearum* is not evident, follow a dedicated **Disease Prevention Program** that includes practices such as regular scouting of cereal fields, testing of common seed, proper storage, transport and handling of feed grains, straw and hay from *f. graminearum*-infested areas of Western Canada, and applying seed treatments.



## CANOLA - JUNCEA

### VTX121CL

BI: N/A, Dist: CPS (Canada) Inc.

Viterra Genetics / Lethbridge / (403) 382-3407

## CANOLA - NAPUS

### 1012 RR

BI: N/A, Dist: Dow AgroSciences

Dow Agrosciences / Calgary / (403) 735-8838

### 1990

BI: N/A, Dist: DL Seeds Inc.

Horner, Scott / Lethbridge / (403) 308-8152

### 2012 CL

BI: N/A, Dist: Dow AgroSciences

Dow Agrosciences / Calgary / (403) 735-8838

### 5535 CL

BI: N/A, Dist: BrettYoung Seeds

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

### 6040RR

BI: N/A, Dist: BrettYoung Seeds

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

### 6044RR

BI: N/A, Dist: BrettYoung Seeds

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

### 6050RR

BI: N/A, Dist: BrettYoung Seeds

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

### 6056CR

BI: N/A, Dist: BrettYoung Seeds

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

### 74-54RR

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

Monsanto Canada Inc. / Winnipeg / (204) 958-1000

### D-Series Canola Hybrids: D3152, D3513, D3514S

BI: N/A, Dist: Available through select independent and Co-op retail locations

DuPont Pioneer / Saskatoon / (306) 385-1001

### DuPont Pioneer Varieties: 43E02, 45H29, 45H31, 45H73, 45S52, 45S54, 46S53, 46H75

BI: N/A, Dist: DuPont Pioneer

DuPont Pioneer / Saskatoon / (306) 385-1001

### HY HEAR1

BI: N/A, Dist: N/A

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

### InVigor Canola Varieties: InVigor 5440, InVigor L120, InVigor L130,

InVigor L135C, InVigor L140P, InVigor L150, InVigor L154, InVigor

L156H, InVigor L159, InVigor L160S, InVigor L252, InVigor L261

BI: N/A, Dist: Bayer CropScience

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

### Proven Seed Varieties: VR9350G, VR9559G, VR9560 CL,

VR9562GC, VR9562GC, VT500G, VT530G

BI: N/A, Dist: CSP (Canada) Inc.

CPS (Canada) Inc. / Regina / (306) 569-5027

### RUGBY

BI: DL Seeds Ltd., Dist: SeCan Members

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

### SY4114

BI: N/A, Distributor: Syngenta Canada Inc. 1-877-964-3682

Independents, Cargill Ltd., Co-op, UFA retail locations

McNaughton, Brian / Lethbridge / (403) 317-4181

### SY4135

BI: N/A, Distributor: Syngenta Canada Inc. 1-877-964-3682

Independents, Cargill Ltd., Co-op, UFA retail locations

McNaughton, Brian / Lethbridge / (403) 317-4181

## CANOLA - RAPA

### EARLY ONE

BI: N/A, Dist: Mastin Seeds

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

### SYNERGY

BI: AAFC (Saskatoon), Dist: SeCan Members

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

McDonald, Gerald / Grande Prairie / (780) 538-3868



# CANOLA SEED DISTRIBUTORS

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

BASF / 1-800-371-2273 / www.agsolutions.ca  
 Bayer CropScience / 1-888-283-6847 / www.bayercropscience.ca  
 BrettYoung / 1-800-665-5015 / www.brettyoung.ca  
 Canterra Seeds Ltd. / (204) 988-9750 / www.canterra.com  
 Cargill Specialty Seeds & Oils / 1-888-323-6232 / www.victorycanola.com  
 CPS (Canada) / (306) 569-4448 / www.cpsagu.ca  
 DEKALB Canada/Monsanto Canada Inc. / 1-800-667-4944 / www.DEKALB.ca  
 DL Seeds / (204) 331-2361 / www.dlseeds.ca  
 Dow AgroSciences / 1-800-667-3852 / www.dowagro.ca  
 DuPont Pioneer / (306) 385-3001 / www.pioneer.com/canada  
 Mastin Seeds / (403) 556-2609 / www.mastinseeds.com  
 SeCan / 1-800-764-5487 / www.secan.com  
 Syngenta Canada Inc. / 1-877-964-3682 / www.syngentafarm.ca

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

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VR 9562 GC**

**Top  
YIELDS**

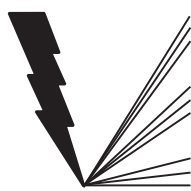
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*Western Canadian farmers are choosing Proven VR 9562 GC as part of their long term plan for managing clubroot disease. With exceptionally high yield potential and excellent standability, this new canola hybrid will maximize your field's potential.*

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# FLAX

Variety	Overall Yield	Overall Station Years of Testing	Yield Category <sup>1</sup> (% CDC Bethune)				Agronomic Characteristics:			
			Low < 20 (bu/ac)	Medium 20-35 (bu/ac)	High 35-50 (bu/ac)	V. High > 50 (bu/ac)	Maturity Rating <sup>3</sup>	Seed Size	Ht. (cm)	Resistance to Lodging <sup>4</sup>
<b>Varieties tested in the 2013 trials (Yield and agronomic data only directly comparable to CDC Bethune)</b>										
<b>CDC Bethune (bu/ac)</b>	<b>36</b>		<b>15</b>	<b>29</b>	<b>45</b>	<b>59</b>				
<b>CDC Bethune<sup>2</sup> ☼</b>	<b>100</b>	<b>115</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>L</b>	<b>M</b>	<b>59</b>	<b>VG</b>
AAC Bravo ▲	104	23	XX	XX	103	104+	VL	L	64	VG
CDC Glas	105+	15	XX	XX	104	XX	L	M	64	G
CDC Sanctuary	105+	28	XX	100	100	108+	VL	M	64	G
WestLin 70 ▲	91-	15	XX	XX	93	XX	VL	M	68	VG
Prairie Grande ☼	98-	59	102	100	92-	99	M	M	55	VG
Prairie Sapphire ☼	96	23	XX	XX	97	101	L	M	64	G
<b>Previously tested varieties (Yield and agronomic data only directly comparable to CDC Bethune)</b>										
CDC Sorrel ☼	104	32	112	104	100	99	L	L	61	G
Flanders	99	49	93	101	101	99	VL	S	58	G
Hanley ☼	97-	37	99	97	95	97	M	M	53	VG
Prairie Thunder ☼	99	40	101	98	99	99	M	M	55	VG
Taurus ☼	98-	27	103	97	XX	XX	L	M	53	VG

**REMARKS:** New registrations: WestLin 70 (FP2325). Westlin 71 (FP2347) - Insufficient information to describe. ☼ - Protected by Plant Breeders' Rights. ▲ - Plant Breeders' Rights applied for. XX - Insufficient data to describe. 1 Yield Test Categories are based on the site means for small plot trials. The defined range for each Yield Test Category is provided in bu/ac. The actual yields for CDC Bethune are reported in the Overall and Low, Medium, High and Very High Yield Test Categories. 2 Yields are reported relative to CDC Bethune. Varieties that are statistically higher (+) or lower (-) yielding than CDC Bethune are indicated. No symbol after the yield figure indicates that there is no statistical difference. 3 Maturity rating: VE = Very Early; E = Early; M = Medium; L = Late; VL = Very Late. The long term average maturity for CDC Bethune in Alberta is 110 days and is rated as Late (L). 4 Resistance to Lodging: VG = Very Good; G = Good; F = Fair; P = Poor; VP = Very Poor.

## FLAX

### AAC BRAVO

**BI: AAFC (Morden), Dist: FP Genetics**

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

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

### CDC GLAS

**BI: CDC, Dist: SeCan Members**

Bouw, Curtis / Bow Island / (403) 545-0007

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

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

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

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

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

### CDC SANCTUARY

**BI: CDC, Dist: SeCan Members**

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

### CDC SORREL

**BI: CDC, Dist: SeCan Members**

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

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

### HANLEY

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

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

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### PRAIRIE SAPPHIRE

**BI: AAFC (Morden), Dist: Alliance Seed Corp.**

Crooymans, John, Joseph & Andrew / Bow Island / (403) 545-2151

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

Stamp, Richard & M. & Greg & Nathan & Matt / Enchant / (403) 739-2233

### TAURUS

**BI: Limagrain, Dist: FP Genetics**

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

### VT50

**BI: CPS (Canada) Inc., Dist: CPS (Canada) Inc.**

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

Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027

### WESTLIN 70

**BI: N/A, Dist: CPS (Canada) Inc.**

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

Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027

### WESTLIN 71

**BI: N/A, Dist: CPS (Canada) Inc.**

Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027



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**Barley**

**Oats**  
AC Morgan

**Yellow Peas**  
CDC Meadow

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# Off-Types, Variants and Uniformity in Wheat Varieties

Farmers surveying their crops love to see uniformity in the plant stand.

It is important to understand that there are no varieties where the plant stand is uniform, or 'tabletop'. Producers taking just a quick glance of any plant stand will see that some plants are taller and some are shorter.

In the past virtually all CWRS varieties were awnless and tall. The variations were typically not observed in the tall varieties, mostly because no one (except perhaps breeders and other scientists) was looking for them. The introduction of new CWRS varieties with tall awned types and awned semi-dwarf varieties now increases the likelihood of noticing off-types and variants within varieties.

Variants within varieties are described in the variety descriptions. These variants are determined by the Breeder. For example, number of tall bearded plants (off-types) allowed in an awned semi-dwarf variety.

Producers appreciate the bonus of a semi-dwarf variety as it gives them high yields and standability. However with the shorter semi-dwarf variety the producer will be more likely to notice the tall variants (not tabletop).

AC® Muchmore CWRS is a semi-dwarf variety which has performed exceptionally well across Western Canada.

For more information about available semi-dwarf varieties contact your local FP Genetics shareholder or Territory Manager.



## Why Certified Seed? Because you want the best!



At FP Genetics our focus is the success of our customers. We strive to be first by being innovative to maintain our competitive edge in the market. By being innovative at our core, we bring the best in products and services, which brings value and profit to our seed growers and the commercial growers they serve.

### Wheat - CWRS

CDC Utmost VB  
AC® Muchmore  
AC® Harvest

### Durum - CWAD

AC® Transcend

### Barley - 2 Row

AC® Newdale - Malt  
CDC Thompson – Feed

### Oats - Milling

CDC Ruffian  
CDC Minstrel

**Bringing Value and Profit  
to Canadian Farms**

# 2013 Regional Silage Variety Trials

**CATTLE** producers grow ever-increasing amounts of annual crops for feed (silage, green feed and swath grazing), and measuring those that produce the highest forage yield becomes increasingly important. Silage is an integral forage source in feedlots across the province and has become more prevalent in cow herds as well. With many producers trying to lower production costs, swath grazing of cow herds has increased dramatically in the last few years. It could also be argued that there is more grain forage than cereal grain fed to take a market animal from conception to plate.

## Participating Organizations

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

- Agricultural Research and Extension Council of Alberta, Sherwood Park, Alta., (780) 416-6046
- Battle River Research Group, Forestburg, Alta., (780) 582-7308
- Chinook Applied Research Association, Oyen, Alta., (403) 664-3777
- Gateway Research Organization, Westlock, Alta., (780) 349-4546
- Lakeland Agricultural Research Association, Bonnyville, Alta., (780) 826-7260
- Smoky Applied Research and Demonstration Association, Falher, Alta., (780) 837-2900
- West Central Forage Association, Evansburg, Alta., (780) 727-4447
- North Peace Applied Research Association, Manning Alta., (780) 836-5230
- Peace Country Beef and Forage, Fairview, Alta., (780) 835-6799

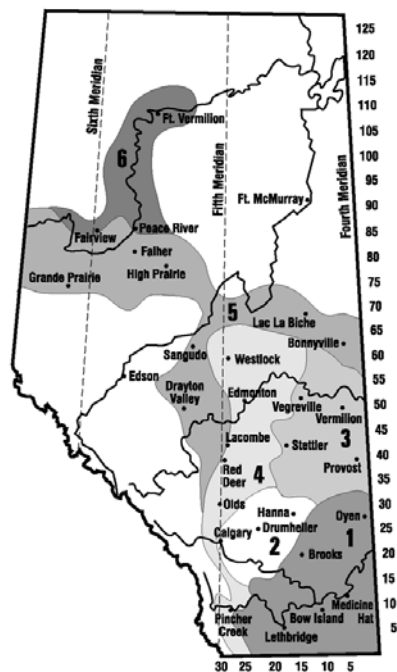
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## Trial Information

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

Varieties of barley, oats, triticale and peas commonly used for silage, greenfeed and swath grazing were included in the trial as well as new varieties showing good potential for these uses. The cereal trials, (barley, oats and triticale), were seeded at recommended seeding density rates and at recommended



fertility; and its objective was to determine yield and nutritional values. The pulse mixture trial looked at increasing the nutritional value of silage, as well as decreasing nitrogen costs. Thus, the pulse mix plots were seeded with 50 pounds of 11-52-0-0 only, while the monoculture cereal comparison plots were fertilized with 50 per cent of the recommended cereal rates. Peas were seeded at 75 per cent of their recommended seeding rate and cereals at 50 per cent when in mixtures. The monoculture cereal comparison plots were seeded at 100 per cent the recommended seeding rate.

## Test Yield Categories

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

To make effective use of the yield comparison tables, producers first need to decide if their target yield for the season fits within the low, medium or high test yield categories. It should be noted that the indicated yield levels are those from small plot trials,



which are often 15 to 20 per cent higher than yields expected under commercial production. Also remember that yield is not the only factor that affects net return. Be sure to consider the other important agronomic and disease resistance characteristics. The genetic yield potential of a variety is often masked by various crop management factors, some of which can be controlled.

### Site Information

There were 12 sites across the province, representing various agrological zones. Sites were located near Castor, Stettler, Fort Kent, High Prairie, Evansburg, Hanna, Manning, Fairview, St. Paul, Stony Plain and Neerlandia. The Fairview site only seeded the

barley trial. Maturity, plant height and lodging were not measured in the trials as it was felt that most have already gone through the Cereal RVT program, and have been extensively reported on.

### Nutritional Analysis

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

## TRITICALE

Variety	Overall Yield	Overall Station Years of Testing	Yield Category (% Pronghorn)			Nutritional Data					
			Low < 3.0 (t/ac)	Medium 3.0-4.5 (t/ac)	High > 4.5 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
Varieties tested in the 2012-2013 trials (Yield and agronomic data only directly comparable to Pronghorn)											
Pronghorn (t/ac)	4.4		2.9	3.9	5.3	9.6	62.7	0.2	0.2	1.5	0.1
Pronghorn	100	17	100	100	100	100	100	100	100	100	100
Bunker	100	17	99	104	98	95	98	118	94	97	104
Sunray	101	8	86	103	102	103	99	121	99	102	94
Taza	100	17	105	98	100	99	101	112	107	95	98
Tyndal	95-	17	89	96	97	94	99	102	102	94	94

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## BARLEY

Variety	Overall Yield	Overall Station Years of Testing	Yield Category (% Vivar)			Nutritional Data					
			Low < 2.0 (t/ac)	Medium 2.0-4.0 (t/ac)	High > 4.0 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
<b>Varieties tested in the 2012-2013 trials (Yield and agronomic data only directly comparable to Vivar)</b>											
<b>Vivar (t/ac)</b>	<b>4.3</b>		<b>1.5</b>	<b>3.1</b>	<b>5.3</b>	<b>10.4</b>	<b>66.2</b>	<b>0.4</b>	<b>0.2</b>	<b>1.3</b>	<b>0.2</b>
<b>Vivar</b>	<b>100</b>	<b>17</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Busby	101	17	101	99	102	101	99	100	103	98	92
CDC Austenson	111+	17	125	108	111	108	100	87	105	108	94
CDC Coalition	101	17	97	103	100	104	100	82	104	104	88
CDC Cowboy	110+	17	133	108	109	98	97	100	107	114	105
CDC Maverick	99	7	XX	106	94	97	97	97	104	109	101
Chigwell	96	17	104	96	96	104	97	109	100	106	100
Conlon	94	7	XX	101	88	98	98	86	107	97	88
Gadsby	110+	17	148	105	110	100	99	101	106	98	97
Muskwa	99	7	XX	103	97	104	97	104	103	124	97
Ponoka	106	17	120	100	109	97	98	118	107	106	98
Ranger	101	7	XX	96	104	101	99	103	115	125	104
Seebe	105	17	118	103	106	109	97	103	118	115	91
Sundre	96	17	102	97	95	107	98	104	108	120	103
Trochu	96	17	112	92	97	105	100	108	108	111	107
Xena	105	17	111	108+	103	104	100	82	116	98	89

## OATS

Variety	Overall Yield	Overall Station Years of Testing	Yield Category (% Murphy)			Nutritional Data					
			Low < 2.0 (t/ac)	Medium 2.0-4.0 (t/ac)	High > 4.0 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
<b>Varieties tested in the 2012-2013 trials (Yield and agronomic data only directly comparable to Murphy)</b>											
<b>Murphy (t/ac)</b>	<b>3.7</b>		<b>1.5</b>	<b>3.3</b>	<b>4.5</b>	<b>8.9</b>	<b>59.4</b>	<b>0.3</b>	<b>0.2</b>	<b>1.9</b>	<b>0.2</b>
<b>Murphy</b>	<b>100</b>	<b>17</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
AC Juniper	103	12	108	97	109	126	104	104	110	105	108
AC Morgan	104	17	97	102	108	116	106	107	109	95	96
AC Mustang	98	17	108	93	104	130	104	104	105	100	101
CDC Baler	98	17	93	95	103	129	105	108	109	105	101
CDC Haymaker	101	9	XX	99	104	128	104	108	107	111	98
CDC So-i	95	17	89	91	101	123	105	105	94	106	106
Foothills	101	17	111	94	108	121	102	102	103	101	98
Jordan	100	17	100	95	107	122	103	99	99	104	109
Waldern	103	17	126	101	102	113	103	117	98	98	99

## PULSE MIXTURES

Variety	Overall Yield	Overall Station Years of Testing	Yield Category (% Vivar)			Nutritional Data					
			Low < 2.0 (t/ac)	Medium 2.0-4.0 (t/ac)	High > 4.0 (t/ac)	CP (%)	TDN (%)	Ca (%)	P (%)	K (%)	Mg (%)
<b>Varieties tested in the 2012-2013 trials (Yield and agronomic data only directly comparable to Vivar)</b>											
<b>Vivar (t/ac)</b>	<b>4.1</b>		<b>2.5</b>	<b>3.5</b>	<b>5.3</b>	<b>9.6</b>	<b>63.1</b>	<b>0.5</b>	<b>0.2</b>	<b>1.5</b>	<b>0.2</b>
<b>Vivar</b>	<b>100</b>	<b>18</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>
Murphy	117	17	129	119	92	91	95	85	103	122	97
Pronghorn	112	18	109	116	108	106	103	61	116	96	80
40-10/Murphy	96	18	105	97	75	130	98	153	122	119	133
40-10/Pronghorn	95	18	99	94	92	125	97	148	117	103	126
40-10/Vivar	94	18	101	94	83	143	99	174	112	106	137
CDC Horizon/Murphy	107	18	117	107	89	109	95	129	103	118	117
CDC Horizon/Pronghorn	106	18	112	108	89	127	99	136	109	104	110
CDC Horizon/Vivar	95	18	96	99	81	134	99	146	111	105	121



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

**Forage references:**

- How to Purchase High Quality Forage Seed – FS120 / 45-1
- Establishing Perennial Hay and Pasture Crops – FS120 / 22-2
- These publications can be obtained from the Alberta Agriculture Publications Office. Call the toll-free line at 1-800-292-5697.
- Other forage species and new varieties not listed in this publication are sometimes seeded by producers in Alberta.

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## BROMEGRASS

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### AC KNOWLES

**BI: AAFC (Saskatoon), Dist: CPS (Canada) Inc.**

Ag Vision Seeds Ltd. / Carrot River / (306) 768-3335

Dechant, Clem / Manning / (780) 836-2715

Hanson, A. Serle / Valhalla Centre / (780) 358-2286

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

Proven Seed/Cps (Canada) Inc. / Regina / (306) 569-5027

Vanderstoel, Jeroen & Maureen / Enchant / (403) 654-2653

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### AC ROCKET

**BI: AAFC (Sainte-Foy), Dist: CPS (Canada) Inc.**

Noble, Robert / Manning / (780) 836-2337

Sallis, Gary / Manning / (780) 836-2381

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### ADMIRAL

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

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

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### CARLTON

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

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

Gans, Keith Joseph Peter / Fairview / (780) 835-2208

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

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Lay, Dennis M. / Beaverlodge / (780) 354-8357

Mittelstadt, Mark Andrew / Fairview / (780) 835-3239

Noble, Robert / Manning / (780) 836-2337

Sallis, Gary / Manning / (780) 836-2381

Shaw, Theron Harry / Fairview / (780) 835-0826

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### FLEET

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

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

Froese, Cornelius H. / La Crete / (780) 927-4645

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

Hostettler, Fritz / Bluesky / (780) 835-4761

Sekulic, John Jr. / Rycroft / (780) 765-2280

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### MANCHAR

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

Obrigewitch, Trevor / Fairview / (780) 835-4763

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### MONTANA

**BI: Montana State University, Dist: CPS (Canada) Inc.**

Olfert, Thomas A. / Hays / (403) 725-2265

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### PEAK

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

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

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### RADISSON

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

Morseth, Lorne B. / Vulcan / (403) 485-2770

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## CICER MILKVETCH

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### VELDT

**BI: AAFC (Lethbridge), Dist: CPS (Canada) Inc.**

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## CLOVER

S F R C

### AURORA

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

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

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

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

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## FESCUE

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### ARC BUTTE

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### BOREAL

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Nelson, Barry Kenneth / Spirit River / (780) 351-2158

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

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Thomi, Chris / Woking / (780) 774-2174

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BI: AAFC (Beaverlodge), Dist: Canterra Seeds

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BI: ARC, Dist: N/A

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## ORCHARDGRASS

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### KAY

BI: AAFC (Ottawa) Dist: SeCan Members/Ken Long Seeds

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

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## RYEGRASS

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BI: AAFC (Ottawa), Dist: SeCan Members

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C

### SWIFT

BI: AAFC (Lethbridge), Dist: SeCan Members

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

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## SPIKE TRISETUM

S F R C

### ARC SENTINEL

BI: N/A, Dist: BrettYoung

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

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## TIMOTHY

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### ALMA

BI: Pickseed Canada Inc., Dist: ABT Canada

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

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### ARLAKA

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

Pickseed Canada Inc. / Winnipeg / (204) 633-0088

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### AURORA

BI: Mitsui Chemicals Inc., Dist: BrettYoung

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

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### CLIMAX

BI: AAFC (Ottawa), Dist: Public

Heuston, Scott / Creston / (250) 428-7026

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### COMTAL

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

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

Caron, Albert / Valleyview / (780) 524-2255

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General Feed & Grain Inc. / Bonners Ferry / (208) 267-3185				C
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<b>BI: DLF-Trifolium, Dist: BrettYoung</b>				
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932				C
<b>PROMESSE</b>				
<b>BI: N/A, Dist: BrettYoung</b>				
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932				C
Denis, Edwin / Spirit River / (780) 864-2287				C
Williscroft, Gerry & Gary / High Prairie / (780) 523-2660				C
<b>RICHMOND</b>				
<b>BI: Pickseed Canada (Mapleleaf Mills), Dist: Pickseed Canada Inc.</b>				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088	F			C
<b>TENHO</b>				
<b>BI: Parsons Seeds Ltd., Dist: N/A</b>				
Moore Seed Processors Inc. / Debolt / (780) 957-3964	F			C
Skriik, Perry / Nampa / (780) 322-2190				C
<b>TILLER</b>				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
<b>TITAN (LISCHKA IN GERMANY)</b>				
<b>BI: N/A, Dist: Northstar Seed Ltd.</b>				
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932				C
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
<b>TUUKKA</b>				
<b>BI: Boreal Plant Breeding (Finland), Dist: BrettYoung</b>				
Moore Seed Processors Inc. / Debolt / (780) 957-3964	F			C
<b>WINNETOU</b>				
<b>BI: Parsons Seeds Ltd, Dist: N/A</b>				
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932				C

WHEATGRASS	S	F	R	C
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<b>AC GOLIATH</b>				
<b>BI: AAFC (Saskatoon), Dist: SeCan Members</b>				
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932				C
<b>AC SALTLANDER</b>				
<b>BI: AAFC (Swift Current), Dist: N/A</b>				
Miller, Kenneth F. / Milk River / (403) 647-2127	F			C
<b>ADANAC</b>				
<b>BI: N/A, Dist: BrettYoung</b>				
BrettYoung Seeds Limited / St. Norbert / (204) 261-7932				C
<b>CLARKE</b>				
<b>BI: AAFC (Saskatoon), Dist: SeCan Members</b>				
Weigum, Garry / Three Hills / (403) 443-2476				C
<b>FAIRWAY</b>				
<b>BI: U of S (Saskatoon), Dist: Public</b>				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
Hostettler, Fritz / Bluesky / (780) 835-4761				C
<b>KIRK</b>				
<b>BI: AAFC (Saskatoon), Dist: SeCan Members</b>				
Card, Gordon B. / Magrath / (403) 758-3444				C
Kerschbaumer, John A. / Fairview / (780) 835-4508				C
Swanson, Wray / Milk River / (403) 647-3998				C
<b>NORDAN</b>				
<b>BI: George A. Rogler (Mandan), Dist: Public</b>				
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**Peas:** Thunderbird, CDC Raezer

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# Special Crops

**THE ALBERTA** Regional Variety Testing Trials are a key source of information to the agriculture industry regarding the yield potential and field performance of new pulse varieties. The trials are managed by a team of research experts to minimize variability. These trials provide unbiased, comprehensive information that assists producers to make better cropping decisions and higher profits.

Agronomic and quality data collected at each location include seed yield, plant height, standability at physiological maturity, disease reaction and thousand seed weight. The RVT trials are arranged in a randomized complete block design. All tests have four replications per site. Varieties within each table are arranged in alphabetical order. The check variety for each crop type is determined by crop co-ordinator and displayed in bold at the top of the table. Cultivar yield data is shown as per cent of the check and the station years of testing column is located beside the yield. Caution is advised when interpreting the data with respect to new varieties that have not been fully tested.

The CV stands for coefficients of variation in the trial and is expressed as a percentage. Large CVs mean a large amount of variation could not be attributed to differences between varieties. The lower the CV the better is the quality of data. Acceptable coefficient of variation for seed yield is 15 per cent.

There were 18 green and yellow pea sites established across Alberta and two sites in northeastern British Columbia. Sites in Alberta consisted of four green plus a check (CDC Patrick) and five yellow plus a check (CDC Meadow) cultivars. Only three green and four yellow variety trials failed due to various reasons.

Nine chickpea varieties plus check (CDC Frontier) were grown at Bow Island, Brooks, Lethbridge and Medicine Hat. All the trials were successfully harvested. Yield results for the trial at Medicine Hat were not added to the database due to high CV. 2013 was a good year for growing lentil trials. 20 varieties plus a check (CDC Redberry) were grown at Bow Island, Brooks, Lethbridge and Medicine Hat. Yield results for the trial at Medicine Hat were not added to the database due to high CV.

Wide row dry bean trials were grown at Bow Island, Lethbridge and Vauxhall and the narrow row dry beans were grown at two sites – Lethbridge and Vauxhall. There were 12 varieties including checks in both trials and all grown under irrigation. The wide row locations had a complete set of data, however, only the Lethbridge narrow data set was included in the database.

The faba bean regional trials were resumed in 2013 after five years of no trials. Four faba bean varieties plus a check (Snowbird) were grown at nine locations across Alberta. Results of all the trials except the Barrhead site which was hailed out were added to the database.

A new crop, soybeans, has been added to the Regional Variety testing program this year. Sixteen soybean varieties plus



Regional Variety Trials for pulses were conducted at the site indicated on the map above.

a check (NSC Warren) were grown at eight funded and two volunteer sites. Seven sites were harvested; however, only five locations were added to the database. CVs for the other two trials were too high.

Varieties displaying a symbol (☪) are subject to Plant Breeders' Right. Any unauthorized sale of seed of these varieties is an infringement under the act. Under PBR, farmers are allowed to save seed of the variety for their own use, to plant on their own farms.

We would like to acknowledge the hard work of all the people who seed, maintain, take field data, harvest and process grain samples from the variety trials. The research organizations that were involved in testing are: Agricultural Research and Extension Council of Alberta, Battle River Research Group, Chinook Applied Research Association, Farming Smarter, Lakeland Agricultural Research Association, MacKenzie Applied Research Association, North Peace Applied Research Association, and Smokey Applied Research Demonstration Association, Agriculture and Agri-Food Canada Lacombe and Lethbridge Research Stations, Agriculture and Rural Development Research Stations in Brooks and Edmonton



and British Columbia Grain Producers Association. Also we appreciate the hard work of the crop coordinators, APG staff, ARD staff and pulse breeders who reviewed the results of the testing, updated diseases and other agronomic information.

A sincere thank you to Alberta Pulse Grower Commission for contributing to the Pulse Science Cluster Project that is run under Agriculture and Agri-Food Canada, Growing Forward program; to breeders and seed companies for paying testing

fees (Alliance Seed Corporation, Crop Development Centre at University of Saskatchewan and FP Genetics Inc.); to the Association of Alberta Co-op Seed Cleaning Plants, the Alberta Seed Growers' Association and the Ministry of Agriculture and Rural Development. Finally, more than two-thirds of the trials were grown at Alberta producer's fields and we appreciate their cooperation and dedication as well.

## DRY BEANS - NARROW ROW

Variety	Type	Site Years 1997-2012 <sup>1</sup>	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>2898</b>						
<b>AC BLACK DIAMOND</b>	<b>Black Shiny</b>	<b>18</b>	<b>100</b>	<b>56</b>	<b>102</b>	<b>247</b>	<b>38</b>	<b>2.4</b>	<b>II</b>
CDC Blackcomb	Black Matte	2	89	64		200	39	1.8	II
<b>ISLAND (kg/ha)</b>			<b>2838</b>						
<b>ISLAND</b>	<b>Pinto</b>	<b>8</b>	<b>100</b>	<b>60</b>	<b>103</b>	<b>322</b>	<b>43</b>	<b>2.9</b>	<b>II</b>
2537-12 (A)	Pinto	1	67	53	-6	429	35	1.8	II
CDC WM-2	Pinto	5	72	60	1	326	43	2.5	II
L09PT129 (A)	Pinto	1	111	58	-3	373	44	1.8	II
Medicine Hat	Pinto	4	96	63	4	313	46	2	II
Winchester	Pinto	5	80	58	2	302	45	2.6	II
<b>AC Resolute (kg/ha)</b>			<b>2602</b>						
<b>AC Resolute</b>	<b>Great Northern</b>	<b>14</b>	<b>100</b>	<b>54</b>	<b>102</b>	<b>323</b>	<b>40</b>	<b>2.4</b>	<b>II</b>
AAC Tundra	Great Northern	2	110	64	-4	342	43	2	II
AC Polaris	Great Northern	14	117	58	4	293	41	3.5	II
L08GN743 (A)	Great Northern	1	115	52	-8	349	45	2.3	II
<b>AC REDBOND (kg/ha)</b>			<b>2569</b>						
<b>AC REDBOND</b>	<b>Small Red</b>	<b>17</b>	<b>100</b>	<b>51</b>	<b>100</b>	<b>303</b>	<b>39</b>	<b>2.3</b>	<b>II</b>
<b>CDC Sol (kg/ha)</b>			<b>1333</b>						
<b>CDC Sol</b>	<b>Yellow</b>	<b>4</b>	<b>100</b>	<b>51</b>	<b>114</b>	<b>347</b>	<b>32</b>	<b>2.0</b>	<b>I</b>
<b>VIVA (kg/ha)</b>			<b>2307</b>						
<b>VIVA</b>	<b>Pink</b>	<b>15</b>	<b>100</b>	<b>52</b>	<b>99</b>	<b>249</b>	<b>32</b>	<b>3.5</b>	<b>III</b>

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



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Canterra SeCan BrettYoung

# DRY BEANS - WIDE ROW

Variety	Type	Site Years 1997-2012 <sup>1</sup>	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>2978</b>						
<b>AC BLACK DIAMOND</b>	<b>Black Shiny</b>	<b>42</b>	<b>100</b>	<b>57</b>	<b>104</b>	<b>261</b>	<b>39</b>	<b>2.1</b>	<b>II</b>
CDC Blackcomb	Black Matte	6	79	63	-1	171	35	1.8	II
<b>ISLAND (kg/ha)</b>			<b>3642</b>						
<b>ISLAND</b>	<b>Pinto</b>	<b>16</b>	<b>100</b>	<b>57</b>	<b>101</b>	<b>364</b>	<b>41</b>	<b>2.8</b>	<b>II</b>
CDC WM-2	Pinto	11	75	60	0	359	41	1.5	II
Medicine Hat	Pinto	9	87	68	3	341	41	1.3	II
Othello	Pinto	8	90	58	0	353	36	3.5	III
Winchester	Pinto	16	86	55	0	336	40	2.3	II
<b>AC Resolute (kg/ha)</b>			<b>2814</b>						
<b>AC Resolute</b>	<b>Great Northern</b>	<b>22</b>	<b>100</b>	<b>53</b>	<b>101</b>	<b>338</b>	<b>42</b>	<b>2.3</b>	<b>II</b>
AAC Tundra	Great Northern	6	116	61	-3	340	39	2.3	II
AC Polaris	Great Northern	25	116	57	4	316	40	3.5	II
L08GN743 (A)	Great Northern	3	121	52	-3	364	41	2.7	II
<b>AC REDBOND (kg/ha)</b>			<b>3203</b>						
<b>AC REDBOND</b>	<b>Small Red</b>	<b>39</b>	<b>100</b>	<b>53</b>	<b>101</b>	<b>316</b>	<b>41</b>	<b>2.4</b>	<b>II</b>
<b>CDC Sol (kg/ha)</b>			<b>1936</b>						
<b>CDC Sol</b>	<b>Yellow</b>	<b>9</b>	<b>100</b>	<b>66</b>	<b>105</b>	<b>365</b>	<b>32</b>	<b>1.0</b>	<b>I</b>
Myasi	Yellow	6	91	67	6	342	31	1.0	I
<b>VIVA (kg/ha)</b>			<b>3090</b>						
<b>VIVA</b>	<b>Pink</b>	<b>39</b>	<b>100</b>	<b>55</b>	<b>104</b>	<b>255</b>	<b>36</b>	<b>3.6</b>	<b>III</b>

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

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## BEANS

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\*On average, TagTeam pea and lentil inoculants outperformed competitor single-action (nitrogen-fixing only) inoculants by 8% in western Canadian independent large-plot research trials. That's an average increase of 2.7 bushels per acre. Summary of 30 lentil and 85 pea trials conducted between 1997 and 2012.

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# CHICKPEAS

Variety	Type	Overall Yield <sup>1</sup>	Station Years of Testing	Agronomic Characteristics			
				TSW <sup>2</sup> (g)	Maturity Rating <sup>3</sup>	Plant Height (cm)	Tolerance to Ascochyta <sup>4</sup>
<b>Varieties tested in the 2013 trials</b>							
<b>CDC FRONTIER (kg ha)</b>		<b>4699</b>					
<b>CDC FRONTIER<sup>1</sup></b>	<b>Kabuli</b>	<b>100</b>	<b>25</b>	<b>365</b>	<b>L</b>	<b>43</b>	<b>F</b>
CDC Cabri	Desi	93*	21	330	E	45	F
CDC Corinne	Desi	113	6	255	M	47	F
CDC Cory	Desi	103	6	290	M	48	F
CDC Vanguard	Desi	95	9	237	ML	47	F
Amit (R)	Kabuli	90*	25	270	L	44	F
CDC Alma	Kabuli	84*	10	396	ML	39	VP
CDC Leader	Kabuli	100	6	409	ML	42	F
CDC Luna	Kabuli	85*	10	383	ML	41	P
CDC Orion	Kabuli	89*	10	460	ML	42	P
<b>Previously tested varieties</b>							
CDC Chichi	Kabuli	77	8	340	M	47	P
CDC Chico	Kabuli	87	8	250	E	46	VP
CDC Diva	Kabuli	71*	15	450	L	41	F
CDC Xena	Kabuli	72*	15	450	L	41	VP
CDC Yuma	Kabuli	73*	15	420	L	45	P
Sanford	Kabuli	69*	15	410	L	47	VP

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

## CHICKPEAS - DESI

### CDC EBONY

BI: CDC, Dist: N/A

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

### CDC JADE

BI: CDC, Dist: N/A

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

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## CHICKPEAS - KABULI

### CDC LEADER

BI: CDC, Dist: N/A

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

### CDC ORION

BI: CDC, Dist: N/A

Klemprauer, Joerg / Vauxhall / (403) 524-4705

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# FABA BEANS

Variety	Overall Yield	Station Years of Testing	Type	Relative Maturity <sup>1</sup>	Plant Height (cm)	Thousand Seed Weight (g)	Flower Color <sup>2</sup>
<b>Varieties tested in the 2013 trials</b>							
<b>SNOWBIRD (KG/HA)</b>	<b>7650</b>						
<b>SNOWBIRD</b> ☼	<b>100</b>	<b>22</b>	<b>Zero Tannin</b>	<b>E</b>	<b>92</b>	<b>480</b>	<b>W</b>
FB18-20	103	8	Tannin	M	77	670	C
Imposa ☼	99	8	Zero Tannin	L	80	540	W
Malik	98	8	Tannin	M	80	610	C
Snowdrop ☼	85-	8	Zero Tannin	E	84	297	W
<b>Fully Tested Varieties: 2000-2007</b>							
<b>EARLIBIRD</b> ☼ KG/HA <sup>1</sup>	<b>7300</b>						
<b>EARLIBIRD</b> ☼	<b>100</b>	Fully Tested	Tannin	<b>E</b>	<b>93</b>	<b>520</b>	<b>C</b>
Ben ☼	112+	Fully Tested	Tannin	E	101	580	C
CDC Blitz R	102	Fully Tested	Tannin	ML	96	460	C
CDC Fatima R	97	Fully Tested	Tannin	M	92	530	C
Cresta	96	Fully Tested	Zero Tannin	M	86	590	W
Scirocco	106	Fully Tested	Tannin	ML	89	580	C

**Remarks:** All colored flower types have seed coats that contain tannins and may be suitable for export food markets if seed size and quality match customer demand. Varieties with more than ten site years are Fully Tested. ☼ = Protected by Plant Breeders' Rights (PBR); R = Registered with CFIA. New varieties: Malik (FB9-4) and FB18-20. 1 Maturity: E = early, M = medium, ML = medium late, L = late. 2 Flower Colour: W = white flower, zero tannin. 1 Maturity: E = early, M = medium, ML = medium late, L = late.

# FABA BEANS

## CDC SNOWDROP

**BI: CDC, Dist: University of Saskatchewan**

Kittle, James William & Andrew / Viking / (780) 336-2583  
 Sim, Darwin & Derek / Ponoka / (780) 372-2111  
 Stickland, Brian., Melvin G. & Irma / Red Deer / (403) 886-4875

## SNOWBIRD


**BI: Innoseeds B. V., Dist: Bob Park**

Benci, Dennis / Carmangay / (403) 643-2294  
 Cyre, Clifford & Greg / Barrhead / (780) 349-4775  
 Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036  
 Goldstrom, David / Red Deer / (403) 227-2133  
 Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268  
 Lindholm, Craig & Stevan & Dane & Luke / New Norway / (780) 352-3240  
 Stamp, Richard & M. & Greg & Nathan & M. / Enchant / (403) 739-2233  
 Vanboom, Russell / Sturgeon County / (780) 221-6199  
 Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617  
 Weigum, Garry / Three Hills / (403) 443-2476  
 Weigum, Sarah / Three Hills / (403) 443-9599

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# LENTILS

Market Class	Variety	Overall Yield	Station Years of Testing	Agronomic Characteristics				Disease Tolerance <sup>6</sup>		
				TSW <sup>2</sup> (g)	Plant Height (cm)	Maturity Rating <sup>3</sup>	Cotyledon Colour <sup>4</sup>	Seed Coat Colour <sup>5</sup>	Ascochyta	Anthraxnose
<b>Varieties tested in the 2013 trials</b>										
	<b>CDC REDBERRY (kg/ha)</b>	<b>3116</b>								
	<b>CDC REDBERRY<sup>1</sup></b>	<b>100</b>	<b>22</b>	<b>43</b>	<b>36</b>	<b>E</b>	<b>R</b>	<b>GR</b>	<b>G</b>	<b>G</b>
Extra Small Red	CDC Impala (CL)	95	12	31	34	E	R	GR	G	G
	CDC Imperial (R; CL)	82*	15	30	37	E	R	GR/BR	G	G
	CDC Redbow	104	12	32	35	E	R	GR	G	G
	CDC Rosebud	100	12	30	35	E	R	T	G	G
	CDC Rosetown	102	15	31	38	E	R	GR	G	G
	CDC Rosie (A)	123	3	31	34	EM	R	GR	G	G
	CDC Ruby	96	10	29	33	E	R	GR	G	G
Small Red	CDC Dazil (CL)	95	10	36	36	E-M	R	GR	G	F
	CDC Imax (CL)	97	11	45	37	E-M	R	GR	G	F
	CDC Maxim (R; CL)	104	12	42	35	E-M	R	GR	G	G
	CDC Redcliff	112*	10	39	36	E-M	R	GR	G	F
	CDC Redcoat	100	12	42	35	E	R	GR	G	G
	CDC Scarlet (A)	124	3	40	36	EM	R	GR	G	F
Large Red	CDC KR-1	109	7	54	39	M	R	GR	G	G
Small Green	CDC Imvincible (CL)	100	11	34	36	E	Y	G	G	G
Medium Green	CDC Imigreen (CL)	78*	7	60	41	M	Y	G	G	VP
	CDC Impress (R; CL)	86*	7	51	37	M	Y	G	G	P
Large Green	CDC Greenland (R)	82*	7	66	37	M-L	Y	G	G	VP
	CDC Impower (CL)	77*	7	71	37	ML	Y	G	G	VP
	CDC Improve (R; CL)	83	7	74	39	M	Y	G	F	VP
<b>Previously tested varieties</b>										
Extra Small Red	CDC Robin (R)	87*	15	28	34	E	R	BR	G	G
Small Red	CDC Blaze (R)	85*	10	38	30	E-M	R	GR	G	P
	CDC Cherie	108	3	41	35	E-M	R	G	G	F
	CDC Impact (R; CL)	84*	8	36	37	E	R	GR	G	P
	CDC Rouleau (R)	106	5	37	37	M	R	GR	G	G
	Crimson (R)	75	10	39	27	E	Y	BR	VP	VP
Small Green	CDC Milestone (R)	101	18	39	32	E	Y	G	G	VP
	CDC Viceroy (R)	107	13	35	33	E	Y	G	G	G
	Eston (R)	89	5	34	35	E	Y	G	VP	VP
French Green	CDC Peridot (CL)	116	1	37	XX	E	Y	MRB	F	P
Spanish Brown	Pardina	106	1	40	XX	X	Y	GR/DT	VP	VP

**REMARKS:** Weight, diameter and thickness of lentil seeds will vary depending on environmental conditions and agronomic factors. Note yield results for the new varieties (2013; A) are not significantly different, due to limited years of testing. All four trials: Bow Island, Brooks, Lethbridge and Medicine Hat were grown in Area 1. R = Registered with CFIA; CL = Clearfield variety; XX = No data. 1 Yields are reported relative to CDC Redberry. CDC Redberry belongs to Small Red Market Class. \*Seed yields are statistically significant from that of CDC Redberry at p=0.05 level. No symbol after the yield figure indicates that there is no statistical difference. 2 Thousand Seed Weight. 3 Maturity: E = Early, M = Medium, L = Late, VL = Very Late. 4 Cotyledon Color: R = Red, Y = Yellow, G = Green. 5 Seed Coat Color/Patterns: G = Green, GR = Grey, BR = Brown, FG = French Green, T = Tan, MRB = Marbled, DT = Dotted; 6 Disease resistance: VP = Very Poor, P = Poor, F = Fair and G = Good.

# HEMP

## CANDA

BI: N/A, Dist: N/A

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

## CFX-2

BI: N/A, Dist: N/A

Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395

## FINOLA

BI: Tero Laakkonen & J.C. Callaway, Dist: Hemp Oil Canada

Hemp Oil Canada Inc / Ste. Agathe / (204) 882-2480

Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395

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# LENTILS

## CDC DAZIL

BI: CDC, Dist: University of Saskatchewan

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

## CDC GREENSTAR

BI: CDC, Dist: University of Saskatchewan

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

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

## CDC IMAX

BI: CDC, Dist: University of Saskatchewan

Kiffiak, Edwin Harry & Nathan John / Foremost / (403) 867-2338

## CDC MAXIM

BI: CDC, Dist: University of Saskatchewan

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

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# MUSTARD

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## AAC A110

BI: N/A, Dist: Agrisoma

Canterra Seeds Ltd. / Winnipeg / (204) 988-9750

## ANDANTE

BI: N/A, Dist: N/A

Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027

## CENTENNIAL

BI: N/A, Dist: Saskatoon Research Centre

Proven Seed/CPS (Canada) Inc. / Regina / (306) 569-5027

## CUTLASS

BI: N/A, Dist: (CPS Canada) Inc.

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# FIELD PEAS - GREEN

Variety	South		East Central		West Central		Peace		Total Site Years	Overall Yield (%)	Agronomic Characteristics			
	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)			Maturity Rating <sup>1</sup>	Vine Length (cm)	TSW <sup>2</sup> (g)	Standability <sup>3</sup> (1-9)
<b>Varieties tested in the 2013 trials (Relative Yield as % of CDC PATRICK)</b>														
<b>CDC PATRICK</b>	<b>4420</b>		<b>4343</b>		<b>6232</b>		<b>4522</b>		<b>4688</b>					
<b>CDC PATRICK</b>	<b>20</b>	<b>100</b>	<b>27</b>	<b>100</b>	<b>13</b>	<b>100</b>	<b>33</b>	<b>100</b>	<b>93</b>	<b>100</b>	<b>M</b>	<b>81</b>	<b>188</b>	<b>4.6</b>
CDC Limerick	9	106	10	107+	3	98	12	104	34	105+	L	79	211	3.8
CDC Pluto	14	100	14	94	5	91	19	96	52	96-	M	82	170	6
CDC Raezer	14	95	14	116+	5	103	19	104	52	105	M	89	227	4.2
CDC Tetris	14	104	14	111+	5	98	19	106	52	106	L	91	215	4.4
<b>Fully Tested Varieties (Relative Yield as % of COOPER: 2004-2012)</b>														
<b>COOPER (kg/ha)</b>	<b>4111</b>		<b>3843</b>		<b>5979</b>		<b>4793</b>		<b>4609</b>					
<b>COOPER</b> Ⓢ	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>L</b>	<b>75</b>	<b>270</b>	<b>3.5</b>
CDC Sage	5	79-	8	83-	8	81-	15	85-	36	82	M	72	198	3.1
CDC Striker	5	96	12	108	5	104	22	95-	44	100	M	70	253	2.9
Mendel	6	85-	11	95	4	92	17	90-	38	91	M	78	205	3.9

**REMARKS:** CDC Tetris is an Espace type with blocky seed shape; Ⓢ = Protected by Plant Breeder's Rights (PBR); XX = No data available; † = Flagged for removal. 1 Maturity: E = Early, M = Medium, L = Late; 2 Thousand Seed Weight: g. 3 Standability: 1 = Erect, 9 = Flat. 4 Tolerance to: P = Poor, F = Fair, G = Good, VG = Very Good. 5 Seed Coat Dimpling: VG = Very Good (0-5%), G = Good (6-20%), F = Fair (21-50%).

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# FIELD PEAS - GREEN — *CONT.*

Tolerance to:<sup>4</sup>

Variety	Powdery Mildew	Mycospha-rella Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling <sup>5</sup>
<b>Varieties tested in the 2013 trials (Relative Yield as % of CDC PATRICK)</b>						
<b>CDC PATRICK</b>	<b>VG</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>G</b>	<b>G</b>
CDC Limerick	VG	F	F	G	VG	G
CDC Pluto	VG	F	F	G	G	G
CDC Raezer	VG	F	G	G	G	G
CDC Tetris	VG	F	G	G	G	G
<b>Fully Tested Varieties (Relative Yield as % of COOPER: 2004-2012)</b>						
<b>COOPER (kg/ha)</b>						
<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 — CONT.

Variety	Tolerance to <sup>4</sup>				
	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 2013 trials (Relative Yield as % of CDC MEADOW)</b>					
<b>CDC MEADOW</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>G</b>	<b>G</b>
AAC Peace River (A)	F	F	F	G	G
Abarth ▲	F	F	F	G	G
CDC Amarillo	F	G	F	F	G
CDC Saffron	F	F	G	F	G
AAC Lacombe (A)	F	P	G	F	G
<b>Fully Tested Varieties (Relative Yield as % of CDC MEADOW)</b>					
Hugo ☼	F	F	G	F	F
Stella ☼ NR F	F	F	G	G	F
<b>Fully Tested Varieties (Relative Yield as % of CUTLASS: 2003-2011)</b>					
<b>CUTLASS ☼</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>F</b>	<b>G</b>
Agassiz ☼	F	F	G	VG	G
Argus☼	F	F	F	F	G
CDC Centennial	F	G	G	G	F
CDC Hornet	F	F	F	F	G
CDC Prosper NR	F	G	G	F	G
CDC Treasure NR	F	F	G	F	F
DS-Admiral ☼	P	F	F	G	F
Eclipse ☼	F	F	G	F	G
Polstead ☼	P	P	F	VG	F
Reward☼	F	F	G	VG	F
SW Midas ☼	P	F	G	G	G
Thunderbird	F	F	G	VG	XX
<b>Fully Tested Varieties (Relative Yield as % of CARRERA: 2000-2005)</b>					
<b>CARRERA ☼</b>	<b>P</b>	<b>F</b>	<b>F</b>	<b>G</b>	<b>XX</b>
CDC Bronco	F	F	G	G	G
CDC Golden	F	F	G	G	G
CDC Minuet	F	F	F	G	F
CDC Mozart	F	F	G	G	F

# PEAS

	S	F	R	C
<b>AAC LACOMBE</b>				
<b>BI: AAFC, Dist: AAFC</b>				
Markert, Ron / Vulcan / (403) 485-6708	S			
Van Roessel, William & Jean / Bow Island / (403) 545-6018	S			
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434	S			
<b>AAC PEACE RIVER</b>				
<b>BI: AAFC, Dist: N/A</b>				
Hadland, Edward / Balldonnel / (250) 789-3646		F	R	
<b>ABARTH</b>				
<b>BI: Limagrain, Dist: N/A</b>				
Dalton, Dennis / Wainwright / (780) 842-2361	S	F		
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# SOYBEANS

Variety	Type	Overall Yield <sup>1</sup>	Station Years of Testing	Agronomic Characteristics					
				Days to Flowering	Pod Height <sup>2</sup>	Plant Height (cm)	Days to Maturity <sup>3</sup>	TSW <sup>4</sup> (g)	Relative Seeds (lb)
<b>Varieties tested in the 2013 trials</b>									
<b>NSC Warren (kg ha<sup>1</sup>)</b>		<b>3028</b>							
<b>NSC Warren</b>	<b>RR</b>	<b>100</b>	<b>5</b>	<b>48</b>	<b>13</b>	<b>55</b>	<b>118</b>	<b>126</b>	<b>3600</b>
900Y61	RR	80	5	49	13	54	119	158	2870
900Y71	RR	99	5	49	14	55	116	159	2850
CFS12.3.02	RR2Y	121	5	53	18	57	119	146	3100
CFS13.2.02	RR2Y	92	5	48	17	62	118	171	2650
McLeod	RR2Y	110	5	51	17	65	117	163	2780
NSC Moosomin	RR2Y	98	5	48	13	48	112	148	3060
NSC Reston	RR2Y	110	5	48	14	56	114	143	3170
P001T34	RR	66*	5	48	10	41	107	143	3170
Pekko	RR2Y	94	5	53	16	57	117	155	2920
Sampsa	RR2Y	93	5	51	14	55	120	152	2980
SC2380	RR2Y	98	5	48	15	61	119	150	3020
TH 29002	RR	80*	5	49	13	53	114	131	3460
TH 32004	RR2Y	100	5	51	14	58	118	141	3210
TH 33003	RR2Y	117	5	48	16	67	117	143	3170
TH 33005	RR2Y	95	5	51	16	61	120	149	3040
Vito	RR2Y	87	5	48	13	68	118	146	3100

**Remarks:** Straight combining is a commonly used method of harvest. Swathing soybean can result in excessive field losses (up to 25 per cent) due to shattering. Approximately four beans or one to two pods per square foot represent a yield loss of "one bushel" per acre. In 2013, only five locations of possible 10 had soybeans which were harvestable. 1 Yields are reported relative to NSC Warren. \*Indicates that seed yields are statistically significant from that of NSC Warren. No symbol after the yield figure indicates that there is no statistical difference. 2 Distance from the ground level to lowest pod. 3 Maturity - average days for the Brooks and Bow Island trials. 4 Thousand Seed Weight.


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## SOYBEANS

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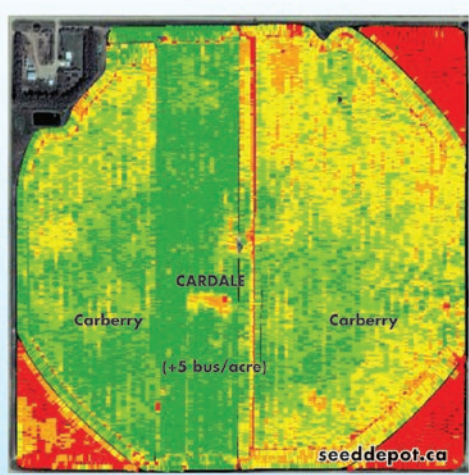
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# Wheat Producers Committed to Protecting Midge-Tolerant Technology

Midge tolerance and beneficial insects are proving to be a powerful one-two punch.

**PRODUCERS VALUE MIDGE**-tolerant wheat varieties and they are committed to protecting the long-term future of the technology.

That's the overwhelming message emerging from a survey of producers who used the technology on their farms in 2012, explains Todd Hyra, a member of the Midge Tolerant Wheat Stewardship Team. Almost 93 per cent of producers surveyed agree that it's critical to have a stewardship program in place to ensure the effective life of the midge-tolerant gene is protected.

"Producers deserve a big thank-you. They really are doing their part to preserve the technology," says Hyra who is also business manager for SeCan in Western Canada. He notes that the percentage of producers who believe stewardship is critical to safeguarding the technology has increased every year since the survey was first conducted in 2010.

The Midge Tolerant Wheat Stewardship Team is a broad industry coalition representing plant breeders, government, seed growers, seed distributors and producer groups. The team is committed to maintaining the viability of midge-tolerant wheat by educating western Canadian wheat producers on the importance of proper stewardship of the technology.

It took more than 15 years and a huge financial investment for researchers to move a single gene for midge tolerance, *Sm1*, into spring wheat varieties to protect plants against the pest. "We've talked to a lot of producers who are realizing the incredible value of not having to be out in their fields scouting and spraying for midge," says Hyra.

There's also early evidence that suggests midge-tolerant varieties are playing a role in reducing midge pressure. Over the last 20 years, northeastern Saskatchewan has been the hotbed of midge pressure, but levels have declined in this area over the past two years. "It could be a cycle, but there is evidence that for producers planting midge-tolerant varieties, reduced spraying is having a positive impact on beneficial parasitic wasps, which work to keep midge populations in check," says Hyra. "Midge tolerance and beneficial insects are packing a pretty strong one-two punch."

The Midge Tolerant Wheat Stewardship Team will be working hard again this year to increase awareness of the need for technology stewardship, explains Mike Espeseth, communications

manager for the Western Grains Research Foundation. "There really is no plan B. The midge-tolerant varieties we have now are dependent on the *Sm1* gene and so will future varieties. That's why it's so important to protect the technology for the future."

In the next few years, producers will see many new strong-performing wheat varieties with midge tolerance emerge from the research pipeline, including the first-ever midge-tolerant durum wheat.

**"There really is no plan B. The midge-tolerant varieties we have now are dependent on the *Sm1* gene and so will future varieties."**

— Mike Espeseth

Hyra notes that significant midge pressure in the Peace River area in 2013 is yet another reason to safeguard midge-tolerant technology. Some fields were devastated, with reports of yield losses in the 50 per cent range. "There have been hints of the pest in the past, but not to this level. Midge really wasn't on the radar for producers in Peace River last year."

But that's about to change. For the 2014 season, midge-tolerant varieties will be freighted into the region; longer term, local seed growers will start to produce seed that will help control the midge population.

---

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



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

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### Location / ad page #

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[www.seed.ab.ca/plants/Alliance](http://www.seed.ab.ca/plants/Alliance) / (105)

**Barrhead** Barrhead District Seed Cleaning Co-op Ltd. /  
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**Bashaw** Bashaw Seed Cleaning Co-op Association Ltd. /  
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**Camrose** Camrose County Seed Cleaning Plant /  
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[www.county.camrose.ab.ca](http://www.county.camrose.ab.ca) / (57)

**Carmangay** Carmangay Seed Cleaning Plant Association Ltd. /  
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**Carstairs** Mountain View Seed Cleaning Plant Ltd. /  
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[www.seed.ab.ca/plants/MountainView](http://www.seed.ab.ca/plants/MountainView) / (76)

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**St. Paul** St. Paul Municipal Seed Cleaning Association Ltd. /  
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**Warburg** Warburg Seed Cleaning Co-op Ltd. /  
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**Selective Seeder**

In order to help farmers optimize the seed hybrids they purchase and increase yields, Kinze Manufacturing Inc. announced the world’s first electric multi-hybrid concept planter. This provides farmers with the ability to change the seed hybrid they are planting automatically as the planter moves through the field. Instead of selecting an average seed variety for use across an entire field, seed hybrids can be selected and planted to suit different field management zones. For example, in parts of the field with high productivity soil, a “racehorse” seed variety can be utilized, whereas a “workhorse” seed variety can be used in the less productive areas. In fields with poor drainage, a variety that can handle higher moisture levels can be planted in the lower-lying areas, with a more productive variety used in locations with a higher elevation. “The electric multi-hybrid planter will allow farmers to maximize yield in every part of their field,” said Rhett Schildroth, senior product manager at Kinze Manufacturing. “The yield gains in our trials varied from two bushels per acre to more than 10 bushels per acre. And unlike other crop practices that seem to have good results one year and negative results the next, every trial we’ve conducted has resulted in a yield increase.”



**The Sweet Path**

Plant scientists are borrowing a tool from medicine to unravel how plants fight off an attack. The Schultz-Appel Chemical Ecology lab in Mizzou’s Bond Life Sciences Center located at the University of Missouri used positron emission tomography (PET) scans to decipher how and when a plant uses resources to fight off a disease or insect infestations. PET scans detect radioactive tracers and how they travel over time. In plants, PET scans shine light on how plants divvy up sugars to protect against attackers. “The question in plants is how and where sugars travel when young leaves are attacked by a pest,” says Jack Schultz. While research in Schultz’s lab explains basic plant processes, it one day could lead to advancements such as sequestering carbon to

slow global warming, or to better protect future crops from pests. “Plant defenses’ effectiveness depends not only on what they are made of, but also how fast and how strongly they can respond. Anything you can understand about how a plant defends itself is potentially useful,” Schultz said.

**Bigger Yields in Flowering Food Plants**

Every gardener knows the look of a ripe, red tomato. But under the right conditions, commercial tomato plants can grow endlessly to become tall and lanky. Tomatoes to be canned are harvested from plants that stop growing earlier than classic tomato varieties, and are therefore more like bushes. While this allows mechanical harvesters to reap the crop, the early end of growth means that each plant produces fewer fruits. Cold Spring Harbor Laboratory researchers in Long Island, New York have determined a way to accomplish commercial tomato plants producing more fruit without sacrificing the necessary bushy shape. Their research has revealed one genetic mechanism for hybrid vigour, which involves interbreeding genetically distinct plants to generate offspring more robust than either inbred parent. Teasing out the subtleties of a type of hybrid vigour involving just one gene has allowed the scientists to tweak the length of time in which bushy tomato varieties can produce flowers. In these plants, longer flowering time substantially raises fruit yield. In previous work, CSHL associate professor Zach Lippman and colleagues identified a rare example of hybrid vigour involving a genetic defect in the gene that makes florigen, a hormone that controls the process of flowering. The mutation dramatically increases tomato yields in bush tomatoes. “This is because,” Lippman explains, “bushy tomato varieties are highly sensitive to the amount of florigen, which alters plant architecture – that is, how many flowers can form before growth ends. These discoveries lead to an exciting prediction: that it may be possible to tweak florigen levels to increase yields even further.”



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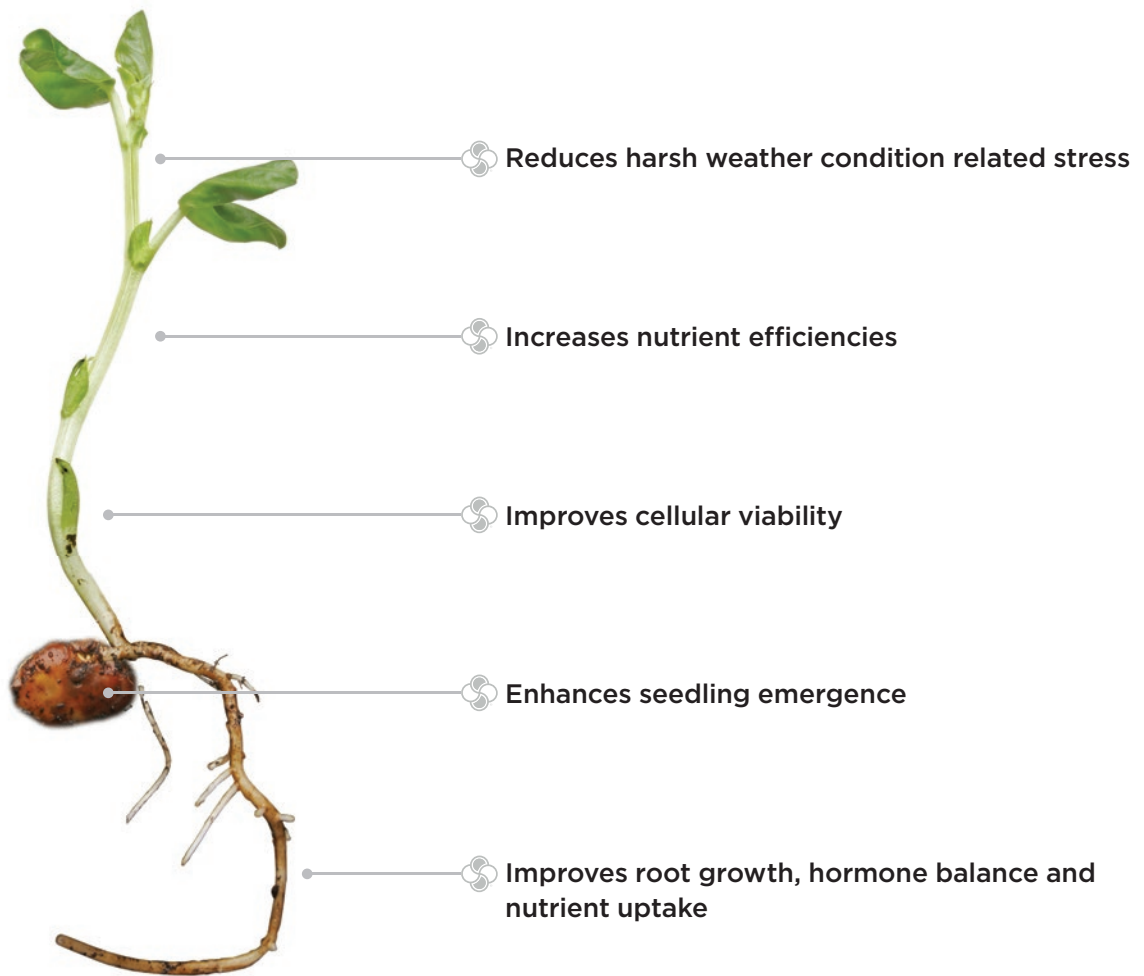
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