Spring 2011

seed.ab.ca

ALBERTA'S SEED GUIDE

TRIED AND TRUE

GETTING RESULTS AND INTERPRETING DATA

Managing Glyphosate Resistance

What Western Canadian farmers are doing right

2010 RVTs

Homegrown performance data

FUSARIUM MONITORING

WHERE'S ALBERTA AT?

The Barley Gap

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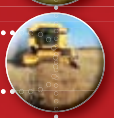

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STEVEN MILLER

THE model for the establishment of the Co-operative Seed Cleaning Plants in Alberta was first used back in 1949. The concept was to fund the building of state-of-the-art seed cleaning plants across the province to provide every farmer access to a consistent source of weed-free seed. Sixty-one years later, the member seed plants of the Association of Alberta Co-op Seed Cleaning Plants continue to provide a level of service to their member that is second to none.

These seed plants were built as result of a three-way partnership between the Alberta government, the local county or municipality and local farmer shareholders, with each of these groups providing a third of the funding. The boards of directors of these co-operatives were structured to include six farmer shareholders, two municipal representatives and one representative from Alberta Agriculture and Rural Development, usually the district agriculturist. One benefit of this arrangement was that farmers and the provincial representatives met on a monthly basis. This provided a forum in which agricultural concerns could be brought forward to both levels of government.

In the mid-1990s the province made the unilateral decision to withdraw its representatives from the boards of our seed cleaning plants. This resulted in the loss of a very efficient line of communication for Alberta farmers.

Recently, it has come to our attention that some municipalities are withdrawing their representatives from local seed plant boards. This move can only result in a further lack of communication between farmers and the governments in this province.

If we, the farmers of this province, allow this trend to continue, we will have no one to blame but ourselves when the two levels of government make decisions that affect agriculture and our livelihoods. It is up to us, as farmers, to make sure our municipal and provincial elected officials are reminded at every opportunity just how important agriculture is to the economic health and well-being of this province.

Steven Miller, President
Association of Alberta Co-op Seed Cleaning Plants Ltd.
Email: stevenmiller@mcsnet.ca

RICHARD STAMP

WE anticipate that this 2011 Spring edition of **seed.ab.ca** will provide you with concise and helpful information to work towards a successful harvest of quality product to market. Again, a wide range of articles are included in this issue which, we believe, are very relevant to our agriculture industry and your farms.

This spring we are excited to showcase our new and improved **seed.ab.ca** website. Being revamped, updated and expanded, it will meet the demands of users. Both of our entities: our magazine and website continue to make **seed.ab.ca** the number one resource for reliable and trusted crop production information.

In this issue we are again looking at fusarium, a concern which we cannot ignore. As an industry, we cannot stress enough the importance of being vigilant and ensuring that the cereal grain seed you are planting is tested for *Fusarium graminearum*. Your neighbours are counting on you to take steps to prevent the multiplication and spread of this disease. Overall, each of these editorials is a challenge to all of us to be proactive and practice due diligence in our business operations.

Please feel free to call your local pedigreed seed retailers and industry specialists for more details on the crops and related issues covered in this issue of **seed.ab.ca**. They have firsthand knowledge and experience and can assist you with your research and preparation for a successful season. An exciting year is in store for all of us in this industry. Higher crop prices and a world that requires our products are encouraging us to build our businesses, our communities and our province.

Thank you again to all of our readers, article contributors and the many supporters of **seed.ab.ca**. We wish you a successful and safe year in 2011.

Richard Stamp, President
Alberta Seed Growers' Association
Email: richard@stampseeds.com

ROB GRAF

ON behalf of the Alberta/British Columbia Grain Advisory Committee, I wish to welcome you to a new edition of **seed.ab.ca**. Third-party, regional variety testing is a vital link connecting the research and development done by plant breeders and the producers who choose to grow new varieties in the attempt to increase their competitiveness and productivity. Thank you for your continued confidence in our publication.

The ABCGAC is a group of individuals from across Western Canada and many of the members are the people who actually conduct the various trials across Alberta and B.C. We take our role very seriously. Prior to establishing the trials, an annual review of the protocols are conducted in early spring to ensure that there is good understanding of the accepted methodologies, and that best-practices are used. During the growing season, trials are inspected and advice may be provided to improve the quality of the data being collected. When data collection is completed after harvest, the information is compiled, analyzed and put into the multi-year database. The various tables are then constructed with input from each crop co-ordinator. Finally, the ABCGAC meets in early December to discuss and approve the new tables. Special gratitude is extended to our long-term provincial coordinator, Gayah Sieusahai, for his tireless efforts in all of these activities.

Of course, this testing does not happen for free. Sincere thanks are extended to the individuals and organizations who contribute great time, effort, supplies and financial resources to the RVT program. We trust that our collective effort to provide meaningful data continues to be useful to you. Best of luck in the upcoming growing season!

Rob Graf
Chair, Alberta/British Columbia Grain Advisory Committee
Email: robert.graf@agr.gc.ca

MINISTER HAYDEN

I'M delighted to have this opportunity to provide greetings to the readers of seed.ab.ca and to the many Albertans involved in the grains and/or oilseed sector.

Your contribution to Alberta's agriculture industry is invaluable. You have helped to build Canada's reputation as a supplier of agricultural products that is respected around the world.

As the Minister of Agriculture and Rural Development, I'm proud of Alberta's competent and committed seed growers who continue to meet strict performance standards in order to consistently supply genetically pure, weed-free, disease-free, certified seed products to commercial crop growers.

I'm also proud of the relationship that my department has with the seed industry. We are committed to investing in crop improvement programs, and working with industry and research partners to develop new crop varieties. Rapid progress in crop science and plant genetics will be essential to improving Alberta's global competitiveness.

Alberta's seed growers continue to play a critically important role in commercializing new crop technologies. As science advances and traditional and new markets evolve, skilled seed growers will be the foundation for supply chains in both extensive commercial crop production and in niche market opportunities.

With the growing season almost upon us, I know you will be using this guide to make important planting decisions.

I hope that 2011 will be a productive and prosperous year for producers across Alberta.

Jack Hayden
Minister of Agriculture and Food

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ALBERTA'S SEED GUIDE

Spring 2011

Seed Industry Partners

ASSOCIATION OF ALBERTA CO-OP SEED CLEANING PLANTS

ALBERTA SEED GROWERS' ASSOCIATION

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FEATURES

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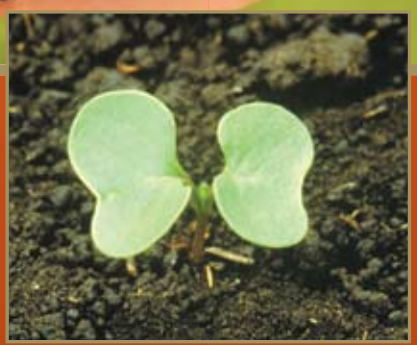

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RICHARDSON

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We work closely with seed companies, offering our feedback on the cutting-edge technologies they are developing. This relationship assures that we fully understand new seed technology and maintain quality control of our products so that we can discuss them with you in confidence. Ultimately, this is part of our commitment to continually improve what we offer so that you can continually improve what you grow.

Once you have established your cost of production and budget, agronomic practice decisions must be considered.

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- What is your target yield?
- What is your crop rotation?
- What are your hard to control weeds?
- What is your fertilizer budget?
- What is your herbicide rotation?

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genuity®
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syngenta

SYNGENTA® WR859 CL

MATURITY: Equal to Barrie
HEIGHT: Medium
LODGING RATING: Good
FHB RESISTANCE: Good
LEAF RUST RESISTANCE: Very Good

EXCLUSIVE

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Making Glyphosate Use Sustainable

Canada is taking the right approach to managing this valuable technology.

ACCORDING to two scientists who have spent years researching glyphosate resistance, Canada is setting an example for proper management of this weed technology. In a recent report titled "Glyphosate-Resistant Crops and Weeds: Now and in the Future" published in the journal *AgBioForum*, Stephen Powles from the University of Western Australia and Stephen Duke from the U.S. Department of Agriculture's Agricultural Research Service examine the pitfalls of glyphosate resistance while singling out Canada as a country that is effectively managing this technology.

The report states that overuse of this single weed management technology is jeopardizing it as an effective tool due to the emergence of new weed species that are only poorly controlled by glyphosate and the evolution of glyphosate-resistant weeds.

According to the authors, the problem is that there has been a massive increase in the use of glyphosate-tolerant crops in the United States, Argentina and Brazil, reducing herbicide diversity. "This is starkly evident for soybean production in the United States," says the report. "As GT soybeans and glyphosate were adopted, other herbicides largely disappeared from most fields, minimizing herbicide diversity in U.S. soybean fields. It is well known that herbicide resistance evolution will be fastest where diversity is minimal. There can be no better example of this lack of diversity in weed control than multiple applications of glyphosate on the same field every year in GT crops."

Canada's Approach

The authors point out that Canada is taking the right approach to glyphosate resistance. By rotating crops and promoting diversity by choosing varieties with resistance to other herbicides such as glufosinate, Canada is setting a positive example.

"Relative to the massive GT crop adoption in the United States and Argentina, it is instructive to contrast the situation in Canada," says the report. "While GT soybean and maize are grown in Ontario, canola is the only GT crop in the western provinces. In this region, the non-GT cereal crops wheat and barley dominate, with canola as an important rotational crop. In 2006, of the 6 million hectares of canola in Canada, 70 per cent was GT, but there is also canola resistant to other herbicides such as glufosinate, imidazolinones. Therefore, producers are able to diversify by alternating between GT and glufosinate- or imidazolinone-resistant canola. It is important to recognize that, on average, canola is grown on a particular cropping field in only one year in four. Clearly, the glyphosate selection intensity in this

Canadian canola-cereal cropping agro-ecosystem is much less than in U.S., Argentinean or Brazilian GT soybean, maize and cotton regions."

"Unsurprisingly, there are currently no known cases of evolved GT weeds in Canada," the report continues. "This is undoubtedly due to the diversity, as it refers to glyphosate, evident in the non-GT crop cereal/GT canola Canadian cropping system, relative to that in the GT soybean/maize/cotton agroecosystems to the south. Thus, GT canola should remain sustainable in Canada if this diversity is maintained. There are important lessons that other parts of the world can learn in this sustainable use of GT crops in Canada."

Maintaining Resistance

However, the Canadian industry cannot afford to get too confident just yet. Last spring, after the report was published,

University of Guelph weed scientists completed evaluations of a giant ragweed (*Ambrosia trifida*) population in Ontario and confirmed the first case of a GT weed in Canada.

"We have been able to demonstrate that plants from this population of giant ragweed meet all five requirements necessary to confirm resistance, including surviving increased rates of glyphosate and the ability to pass resistance along to the next generation," said François Tardif of the Department of Plant Agriculture at the University of Guelph at the time.

The population in question underwent both greenhouse and field testing by university researchers, working in conjunction with Monsanto Canada, in order to confirm resistance. While over 30 other species of weeds in Canada have developed resistance to herbicides, this was the first confirmation of a GR weed in Canada. In other countries around the world, 20 weed species—including giant ragweed—have been confirmed as resistant to glyphosate. Ten of those species are in the United States.

Since then, other giant ragweed populations in Southwestern Ontario were also tested for susceptibility to glyphosate, and last fall University of Guelph weed scientists confirmed the presence of additional glyphosate-resistant populations in soybean fields in Southwestern Ontario.

Greenhouse testing of seed samples collected in the fall of 2009 showed an additional 16 fields had populations of giant ragweed resistant to glyphosate.

"As was the case in our initial finding on a field near Windsor in 2008, we have been able to demonstrate that plants from the populations of giant ragweed we collected in 16 of the 57 fields survived when they were sprayed with glyphosate in the greenhouse," says Tardif.

Diversification

So what can be done to make glyphosate use sustainable? "A major lesson evident from more than three decades of glyphosate use worldwide is that, where diversity in weed management systems is maintained, weed control by glyphosate can be sustainable," says the report. "It is clear that, where there is very intense glyphosate selection without diversity, GT weed populations will evolve. In particular, the evolution of GR weed populations is a looming threat in areas where transgenic GT crops dominate the landscape and in which glyphosate selection is intense and without diversity. If current practices continue in these areas, GR weeds will become a major problem."

Therefore, the report concludes that the United States, Argentina and Brazil need to follow Canada's lead and introduce diversity in the GR crop areas. "What specifically constitutes 'diversity' will vary according to region, ecosystem, enterprises, economics, and many other factors. However, diversity will involve herbicide rotations, sequences, combinations of robust rates of different modes of action and use of non-herbicide weed-control tools. Such diversity must be introduced now in the GT crop areas of the United States, Argentina, and Brazil. Mixtures of glyphosate with effective doses of soil-residual herbicides are already being adopted, and transgenic crops with additional herbicide resistance genes are in development," the report says. "Alternative herbicides and integration with non-herbicidal weed-control tools will be required."

"Alternative herbicides and integration with non-herbicidal weed-control tools will be required."

Best Practices

Farmers need to include diversity in their cropping systems to reduce the likelihood of glyphosate resistance materializing in their fields. This includes a diverse crop rotation with multiple herbicide modes of action over time. Farmers are advised to use appropriate rates and other herbicides in their program where possible, including existing residual herbicides, to reduce the likelihood of glyphosate resistance developing in their fields. Best management practices include:

- Start with a clean field by either utilizing a burn down herbicide or tillage to control weeds early.
- Use an effective herbicide tolerant system as the foundation of a total weed management program.
- Add other herbicides or cultural practices where appropriate as part of the herbicide tolerant cropping system.
- Use the right herbicide rate at the right time.
- Control weeds throughout the season and reduce the weed seed bank.
- Rotation to other crops will add opportunities for introduction of other modes of action.

While Canada is certainly an example to follow when it comes to proper management of GT crops, the recent appearance of a GR population in Ontario is an important reminder for seed companies to help growers consider diversity in their weed management strategies and crop management practices.

Peter Sikkema, a plant agriculture professor at the University of Guelph's Ridgetown campus, says this means advising growers to include diversity in their cropping systems, including a diverse crop rotation with multiple herbicide modes of action over time. Growers are advised to use appropriate rates and other herbicides in their program where possible, including existing residual herbicides, to reduce the likelihood of glyphosate resistance developing in their fields.

"We know that farmers view glyphosate as an important weed control tool so the appearance of glyphosate-resistant populations and solutions to address this challenge are an important area of research for us and the farmers who have been impacted," says Sikkema. "Where crop rotation occurs, familiar herbicides such as 2,4-D in winter wheat and dicamba based herbicides in corn are very effective at controlling these glyphosate-resistant populations of giant ragweed. Our current research is focused on solutions to manage these populations in soybean production."

Based on the field research conducted this past year, Eragon and FirstRate herbicide were the most effective commercial products for control of the glyphosate-resistant giant ragweed.

There were also a few new experimental treatments in soybeans that also worked very well in controlling the glyphosate-resistant giant ragweed. "Use of dicamba with dicamba tolerant soybeans was one of those new treatments that was very effective in controlling glyphosate-resistant giant ragweed," explains Sikkema. "We are encouraging companies to pursue some of these new management strategies in soybeans to expand our control options for this issue."

By not relying solely on glyphosate and maintaining some diversity in weed-management techniques, Canada is taking the right approach to ensuring the longevity of glyphosate and its use for future harvests. **julie.mcnabb**

WHERE on the WEB
On-line resources for the seed industry

To view the entire report, "Glyphosate-Resistant Crops and Weeds: Now and in the Future," visit *www.agbioforum.org/v12n34/v12n34a10-duke.htm*

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Wheat and Barley Research Gets Funding Boost

Western Canadian wheat and barley research and development programs recently received a big boost from the federal government

GOOD news for wheat and barley growers in Alberta. Agriculture and Agri-Food Canada is contributing $11.8 million in funding towards grain research to improve crop performance and give Canadian producers an advantage in the marketplace. Additional funding will be provided from producer wheat and barley check-offs by the Western Grains Research Foundation.

"This additional funding will be used to enhance the kinds of wheat and barley breeding programs we have had in place with AAFC and Canadian universities in the past," says Terry Scott, acting executive director of the WGRF. "The main impact of that will be to accelerate the process of getting new and improved varieties into farmer's fields."

Development of varieties with improved disease and pest resistance will remain a priority across all barley and wheat classes, with particular attention given to fusarium head blight, as well as other diseases like leaf and stem rust.

The Canadian Agri-Science Clusters Initiative will deliver $8 million of the funding to create a Wheat Breeding Cluster, bringing together the best scientific expertise to improve wheat varieties that help farmers obtain higher yields with lower production costs.

"This provides secure funding for on-going high priority work to reduce business risk for producers and meet the requirements of consumers for safe and nutritious food and keep Canadian wheat competitive in world markets," says Ron DePauw, head of the wheat breeding program at Swift Current, Sask.

The funding will help advance ongoing wheat breeding that focuses on increasing yield and quality through performance factors such as improved water- and nitrogen-use efficiency, improved heat and drought tolerance, prevention of pre-harvest problems like early sprouting and adaptations to regional climate variations.

Crop Development Centre's wheat breeding programs concentrate on the genetics, breeding and production of short-season spring wheat varieties for the baking industry, as well as durum and alternative varieties, with emphasis on yield and quality considerations.

The cost benefit to producers on the wheat check-off funds invested in research through WGRF has been about four to one, says DePauw. The return on investment for barley research is even higher. An independent study conducted on behalf of WGRF found that each dollar of investment generated $12.

The other $2.8 million of federal funds will be delivered through the Developing Innovative Agri-Products initiative for barley breeding, agronomy, pathology and food quality. The barley DIAP, also partly funded by WGRF, brings together other private and public sector partners, including the Canadian Wheat Board, Alberta Barley Commission, Brewing and Malting Barley Research Institute and Rahr Malting Canada Ltd.

Work will be conducted at AAFC's Brandon Research Centre and at other AAFC centres at Lacombe, Beaverlodge, Lethbridge, Scott, Melfort, Swift Current, Indian Head and Winnipeg. In addition, in Eastern Canada, AAFC's Ottawa and Charlottetown research centres are collaborating on a fusarium head blight project on barley.

Ongoing programs are aimed at improving the agronomic performance of new malt barley varieties to make them more consistent in quality and yield. Part of that work is looking at ways to reduce disease and pest pressure and improve nitrogen-use efficiency. Researchers will also continue to look specifically at two- and six-row malting barley, forage barley and human food barley varieties with an emphasis on both yield and quality.

Apart from malting barley, very little barley is currently used for human consumption. A new variety developed by Mario Therrien, a barley breeder at AAFC, is currently being evaluated for use in flour by a potential end-user. If accepted by the industry, Therrien hopes a larger market can be established for flour grade barley to give another option for growers in the future.

In the case of forage varieties, the aim is to improve on dual-purpose varieties that will provide consistent quantity and quality of grain. "We want to reduce costs as far as possible, whilst improving yield and maintaining quality," says Therrien. "So the cattle producer can have a feed ingredient for his animals that is less costly to grow and to feed."

The federal funds are part of the Growing Forward framework under the five-year Agri-Innovations Program that has allocated $158 million to support industry-led science and technology projects. **angela.lovell**

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More Than Just Yield Data

Renewed Regional Variety Trials give growers useful information specific to their area.

PROVIDING growers with pertinent information on crop varieties enables them to make wise decisions on which variety will give them the results they desire. Yield may be a factor or disease resistance or even the potential for protein premiums, but without the data provided by the Regional Variety Trials most growers would just be guessing.

"Depending on the crop, we have yearly data from 3 to 19 sites across the province," explains Gayah Sieusahai, the RVT co-ordinator and the province's pest regulatory officer. "We want to see the varieties grown in as many climatic zones and soil conditions as possible."

Some time ago, the trials were in jeopardy over funding issues, but that has been sorted out, with the Province of Alberta paying for the trial co-ordinator position, office space and other incidentals. Various industry stakeholders also provide funds, with additional funding coming from the fee charged if a company wants its variety to be included in a trial. Most companies opt in because inclusion in the trials means every grower in the province will learn about their varieties.

"If a variety does not appear in the annual publication, knowledge of that variety will take much longer to reach farmers," explains Robert Graf, a research scientist and winter wheat breeder with Agriculture and Agri-Food Canada in Lethbridge. "Farmers use the publication as their first source of variety information because it provides third-party information on yield as well as other important characteristics. There is also information on seed size, test weight, protein content, lodging and disease resistance, to name a few." All of the information helps growers to make informed choices on which varieties will grow successfully in an area.

The companies paying to have their varieties included in the trial get "a great deal", according to Graf. For $1,200 per variety, the company will have replicated tests at 11 sites across the province. This is a minor expenditure when compared to what it would cost the company to hire staff and set up its own trials in that many locations. While getting this data is an important aspect of companies supporting the RVT, it is also a smart marketing strategy because producers see the trials results and the varieties tested will be listed in the annual report in front of every grower's eyes.

A minimum of two years of data is required before a variety is included in the report. As Sieusahai says, one year of data is not conclusive. So, if one of the trials is taken out by drought or hail

"Farmers use the publication as their first source of variety information because it provides third-party information on yield as well as other important characteristics."

and the data is poor or non-existent, the variety being tested will not be listed until it has proven itself for two years. "If we don't get two years of data, we don't publish because one year is just not enough," he says.

The results of the trials are made available to growers across the province, but they are not the only people who get valuable information from the results. Seed growers use the results to predict how much seed to reproduce and they can also use the data to help customers choose which varieties to grow.

"We look at the seed guide to know what multiplication we need to do," explains Ryan Mercer of Mercer Seeds in Lethbridge. Knowing that the trial results are not generated by special interests, such as a company that might want its new variety to do well in the marketplace, adds credibility to the results."This is impartial third-party data," he adds. "In our operation we grow many of the varieties in the trials and then we compare our observations with the data from the trials."

"Of course seed companies market their varieties because they believe in them," Graf continues. "But the RVT system looks at adaptation in many areas under many conditions, so we may find that some varieties perform better under certain conditions than others."

Another seed grower says the "wacky weather" his area has experienced over the last few years has made the data from the trials even more valuable. "It helps to see how the varieties performed in those conditions and that helps us give our growers better information," explains Greg Stamp of Stamp's Select Seeds in Enchant. "You can do year-to-year comparisons, which will smooth out seasonal variability."

"Farmers can use the data to make management decisions," says Graf. "For example, if a farmer is expecting a wet year, production practices and varieties can be chosen that will provide optimal results under those conditions."

Stamp agrees. He says the information is not always about yield, but making good management decisions. While there are farmers who are keen to try a new variety that offers a yield advantage, he says there are other reasons to use the data. "An older variety called Lillian has a tough stem that resists the attack of saw flies," he explains. "If a grower knows there is saw fly pressure in his area, then choosing to grow Lillian might be a good decision." The RVT data gives growers that kind of useful information, he adds.

The information generated by the RVT gives growers more than just yield data and has become a "trusted publication", according to Graf. That is why the renewed funding setup is being welcomed by all the stakeholders involved in crop production in Alberta.

"Having the trials is great," comments Stamp. "Otherwise you have no way to compare old and new varieties."

For growers, the rejuvenated RVTs are giving them information that is not available anywhere else in a format that invites easy comparison. Mercer has the last word on the merit of the trials: "This is money well spent because the information is valuable." **rosalie.tennison**

2011 Seed Quality

Fusarium and fusarium lookalikes to watch out for in 2011.

PRODUCTION challenges from higher than average rainfall during the 2010 growing season was the greatest topic of discussion and focus this summer among producers across most of the country. The next worry is what effects those production challenges had on seed quality—particularly germination and levels of seed-borne *Fusarium graminearum*.

Barry Little at 20/20 Seed Labs based out of Nisku has been looking closely at submitted samples to determine if the area of infection of *F. graminearum* has been changing and if infection levels per sample have changed from 2009. "Results are showing not huge increases in the incidence of fusarium-damaged kernels from 2009. However, saying that, we are definitely seeing minor increases in disease incidence. In 2009, infection levels in Alberta seed samples averaged from 0.5 to 2 per cent. For the 2010 crop, we are seeing disease levels averaging 1 to 4 per cent on a per sample basis. There are even a handful of samples reaching 20 per cent infection levels. The higher levels appear to be localized south of the Trans-Canada highway, with some incidence levels creeping north—however not significant at this time."

Little also goes on to explain that there appears to be only minor loss of germination in Alberta wheat samples caused by *F. graminearum* in the 2010 crop season.

Data compiled at BioVision Seed Labs by Holly Gelech tells a similar story in regards to the F. graminearum presence in Alberta. BioVision's findings show that "*F. graminearum* is rarely detected in wheat samples submitted from Northern Alberta (780 area code). In contrast, samples submitted from Southern Alberta (403 area code) have infection levels ranging from 0.5 to 15 per cent and *F. graminearum* was detected in 29 per cent of the samples tested since harvest. The average Alberta wheat germination of the 2010 crop is 92 per cent, which is a 3 per cent reduction from the 2009 wheat crop. For the most part, the primary influence impacting germination is dormancy, but other contributing factors include frost damage and fusarium infection."

So, it Looks Like FHB, but is it Really?

A multitude of pests exist that mimic tombstone symptoms on the kernel. According to Tom Gräfenhan, program manager, microbiology, at the Canadian Grain Commission, there are at least three other commonly mistaken causes of the typical tombstone characteristics. They include:

Photo courtesy of the Canadian Grain Commission. Photography by K.Bell, Grain Biology/Image Analysis Grain Research Laboratory

a) Midge damage with mould: feeding by the larva of the orange wheat blossom midge can result in shrunken, misshapen seeds, especially on durum wheat. Depending upon the growing conditions, midge-damaged seeds may become visibly mouldy. Whitish fungal mycelia can result in seeds similar in appearance to seeds formed as a result of FHB. This type of fungal growth is frequently that of Septoria nodorum or one of the fusaria.

b) *Asteromella* species: this fungus is recovered from seeds with a somewhat chalky appearance and visible mycelial growth. The seeds characteristically have an orangish translucence and black pycnidia on the surface, frequently at the brush end. In culture, *Asteromella*. grows very quickly and forms a dense, white mycelium.

c) *Septoria nodorum*: infection of the seed by this fungus, which causes glume blotch in wheat, can result in a seed visually indistinguishable from those formed by FHB.

Gräfenhan explains that "most notable from the 2010 growing season is *Septoria nodorum*. *S. nodorum* has been present in almost all samples from Central Alberta and Western Saskatchewan seen at the CGC this year. The symptoms are very similar and almost indistinguishable from FHB." The same is true for another fusarium species, F. avenaceum, which does not produce DON (vomitoxin). Even for an experienced grain inspector or laboratory technician, it is not possible to distinguish these causal agents of FDK without plating the samples and identifying the fungi through a microscope.

Barry Little at 20/20 Seed Labs confirms these findings. The same is true for another fusarium species, F. avenaceum, which does not produce DON (vomitoxin). Even for an experienced grain inspector or laboratory technician, it is not possible to distinguish these causal agents of FDK without plating the samples and identifying the fungi through a microscope. "We are finding that producers are being downgraded for what looks like FDK. Growing conditions in Alberta were ideal for the development of *S. nodorum* in 2010 even more than F. graminearum. I strongly encourage that producers do their due diligence to ensure that they do in fact have FHB infected samples." **jennifer.stow**

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DIRECT EXPORT MARKETS BOLSTER PROFIT

One plant manager goes the distance for shareholders.

THE manager of St. Paul Municipal Seed Cleaning Association Ltd. goes the distance, literally, for the 800 shareholders and producer-owners he works for. Diversifying into the export market has taken Ron Wirsta to many far-flung corners of the world.

In the mid-1990s it was necessary to diversify, says Wirsta. At that time, direct exporting to other parts of the world looked like a lucrative market for the association, so Wirsta packed his bags, traveling overseas to meet buyers from Europe, the Middle East and Asia. "I went to Marseilles, France, to see what world trade was about and who some of the buyers overseas were, and it exploded from there. We've been direct exporting and eliminating that other person—and that's making money for us," says Wirsta. Last August, he traveled to China on a trade mission for pulses and other commodities, touring facilities and showcasing not only the St. Paul Municipal Seed Cleaning Association but also the Association of Alberta Co-op Seed Cleaning Plants.

According to Wirsta, the export market facilitates, on average, 35 per cent of the St. Paul plant's business, and as high as 60 per cent of its annual processing. Diversification has always been important to St. Paul's board of directors, shareholders and Wirsta as a way of moving forward and helping growers use the facility to its full potential. In the early 1980s, the facility hosted plot trials for peas under the direction of the district agriculturalist. "The [district agriculturalist] convinced growers to grow peas and we did some plot trials right here at the seed plant. It exploded from that. We've maintained good acreage on specific varieties and these have been asked for in specific countries," says Wirsta.

In 1987, the plant also started selling feed and seed, which proved to be another excellent fit for the community and producers. "With our customer base being producers, there's a need for it because they are looking for products to look after their livestock," says Wirsta. Two years ago, St. Paul's became a dealer for Pioneer Hi-Bred. Becoming an area representative for canola and corn seed helped the association's bottom line, says Wirsta.

Now, 90 per cent of St. Paul's business is edible pulses; mostly field peas, grown in the area. The association has also played a role in bringing red lentils to central Alberta, which overseas buyers are demanding, increasing the acreage on lentils in the area. So far, says Wirsta, the lentil crop is looking good. "It's one of the first years we're seeing lentils up here again. Now we've got some products in the marketplace that actually have some maturity dates that work with our climate and we've also got demand from overseas to ship that product through our facility," says Wirsta, who brought the seed in and got it out to producers for reproduction.

The facility has been in operation since 1957, three years after the formation of the association. Rebuilt in 1982 following a fire, the plant is updated and maintained annually, most recently with an office rejuvenation and expansion. Four years ago, the seed treating system was completely updated with two G3 side-by-side seed treating systems, doubling the plant's treating capacity to 40 bushels per minute. "It doubled our seed treating totals in one year, which really helped the business on the seed treating side," says Wirsta. The association also installed a dual application system on both sides that has two nozzles per side. The new system applies seed enhancement products in sequential application with the seed treatment.

In the near future, Wirsta has hopes of installing a colour sorter as well as putting in a second line of equipment for processing for his customers.

As one of the major agricultural businesses in St. Paul, the facility is of great importance to the community. "In St. Paul, we're very important to our community. Our customers expect good service, someone they can rely on, and someone they know is working for them now and in the future," says Wirsta.

For now, Wirsta continues to travel far and wide expanding markets and profit for St. Paul's Municipal Seed Cleaning Association. **kari.belanger**

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Seed Prices – Hitting the Ceiling While Opening Doors

OVER the last 20 years, the value seen by producers when purchasing good quality seed has increased. According to Statistics Canada, in 1990 $532 million was spent on commercial seed expenditures in Canada. Fast forward 10 years to 2000 and that figure increased to $897 million Canada-wide. And in 2009, total seed expenditures reached a whopping $1.4 billion.

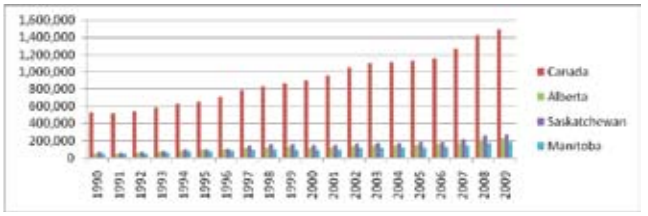

Figure 1: Commercial Seed Expenditures (in 1,000s of dollars) 1990-2009 (Source: Statistics Canada)

While the perceived value placed on seed purchases has increased astronomically over the past 20 years, net farm income tells a different story. With the exception of record breaking prices in 2008, farm income in Canada and the Western Prairies over the past 20 years has stayed fairly fixed with peaks and troughs typically brought about by extreme weather patterns. This is linked directly to crop input costs, which include seed.

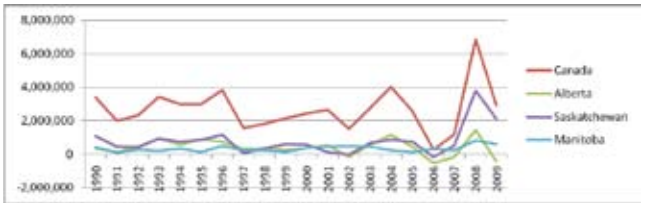

Figure 2: Net Farm Income (in 1,000s of dollars) 1990-2009 (Source: Statistics Canada)

These statistics, while appearing dismal, don't necessarily tell the entire story. If seed sales for Alberta are broken down further, it becomes clear that dollars spent on cereal crops—which have seen little research investment—have stayed static, while crop types such as canola—that have higher value traits, benefits and markets—are skyrocketing. Clearly, Western Canadian farmers find value in the improved traits and genetics offered in these systems.

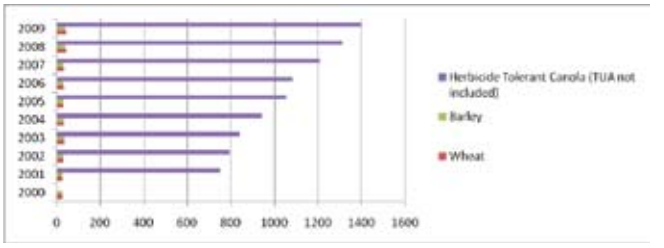

Figure 3: Price/100kg Bulk for Three Common Crop Types in Alberta (Source: Alberta Agriculture and Rural Development, Economics and Competitiveness Division, Statistics and Data Development Branch)

How is Price Determined?

Cereal seed prices are set according to current trends in commercial grain prices, explains Todd Hyra from SeCan. "Occasionally 'blips' occur when a new variety is released with exceptional genetics, but that too will go back to normal after seed stocks are established," he says.

Randy Court of Court Seeds and Greenhouses at Plumas, Man., reiterates this statement and adds: "When a seed grower is setting his prices, in the case of wheat, the current CWB PROs are the basis of the pricing, then supply, quality and finally other factors involved with the production of certified seed are brought into play."

Hyra goes on to explain the often undervalued prices that seed growers are forced to take depending on current market demands. "Seed production is a costly business, and in order to assure customers the ultimate in seed quality, purity and the latest genetics, there are many factors a seed grower operation must consider when setting prices," he says. "They include such things as cost of purchasing stock seed, isolation strips, profit, royalties, interest, loss due to cleanout, field inspections, testing, rouging, errors and omissions insurance, cleaning costs, advertising, distribution and handling. There is a tremendous amount of work and value that seed growers provide to their customers—the product is far more than grain in a bin—it is pedigreed seed backed by testing and a century old proven certification process."

This may be the story with cereal crops, but as stated earlier, cereal seed prices have remained fairly static over the past 10 years. What has caused the rapid and steady jump in other crop types with higher value such as canola, soybeans and corn?

The easy answer is that farmers are finding value in certain commodities and are willing to pay for it. Looking more closely at canola—sometimes referred to as "Canada's greatest

agricultural success story"—the picture becomes more clear.

When Baldur Stefansson developed the edible oil version of rapeseed and called it canola, the future of the industry had no limits. With the release of the first edible oil canola variety Tower in 1974, the crop moved steadily from special crop to farm staple. In 1996, Canadian farmers from Ontario to British Columbia grew nearly 6.5 million acres and in 2008 harvested acres rose to nearly 16 million. Dramatic yield increases came about with the release of hybrid lines in the 1980s and in 1995 Roundup Ready and Liberty Link traits were introduced to the farming community.

Benefits such as improved genetics, better agronomic practices, increased crop protection products and decent cash returns afforded canola its high rank in Canadian agriculture. With the introduction of genetically modified lines, knowledge around the benefits of conservation tillage and more precise nutrient management increased. Herbicide tolerant crops in general offer greater options for soil fertility, rotations and tillage.

The Canola Council of Canada website quotes a study done in 2001 showing several benefits to growing GM canola. Canola growers reported an average 10 per cent yield increase (three bu/ac) for GM canola compared to conventional canola. Dockage dropped due to fewer weed seeds in samples by 1.27 per cent in GM canola, resulting in higher canola prices for growers. Less fuel was consumed due to fewer field operations (tillage, harrowing, fertilizing and less summer fallow). Growers used 31 million less litres of fuel in 2000, saving them $13 million. Growers of GM canola in the study used less herbicide, applying 6,000 tonnes less chemical in both 1999 and 2000. As a result, herbicide costs for growers using GM canola were 40 per cent lower than for conventional growers.

The study goes on to say that growers reported an average of $5.80/acre increase in net return on their GM canola acres compared to conventional acres in 2000. An economic model developed for the study calculated a $10.62 profit advantage. Revenue was higher due to increased yields, less dockage and lower herbicide costs. The direct economic impact to growers due to the adoption of GM canola from 1997 to 2000 was between $144 and $249 million.

From 1997 to 2000, the study also estimated the indirect impact from GM canola was from $58 to $215 million. Therefore, the total value to the industry from 1997 to 2000, including both direct revenue to the growers and the indirect value, was up to $464 million.

Other high value seed crops like soybeans and corn will provide similar benefits to farmers. Demand indicators are strong—for instance in 2010, Manitoba seed growers produced record numbers of soybean seed (39,962 acres), second only to wheat acres in that province. This number is expected to climb as soybeans continue to rise in popularity.

Opening Doors

The value of seed will increase even more for Alberta growers in coming years, as the industry focuses on three major pipeline categories of improvement in corn, soybeans and canola. They include yield and stress traits, agronomic input traits and value added output traits. Drought tolerance, nitrogen use efficiency and increased yields represent the greatest areas of research.

Collaboration will also increase seed's value, as companies continue to form partnerships to combine competitors' traits. For example, Syngenta has obtained rights to Pioneer's Optimum GAT for use with Syngenta traits. Monsanto and Dow AgroSciences are working together to develop SmartStax corn, which will combine eight different genes for herbicide tolerance and insect protection.

As researchers and plant breeders unlock more yields from each bag of seed, prices will keep moving higher. But how high is too high? The value of any trait, currently in the market or in the pipeline, will be driven by how much better it performs. In other words, there will need to be a yield advantage in order to justify a price increase. **jennifer.stow**

Closing the Gap

Traditionally there has been a slight yield gap between malting and feed barley varieties, but according to many professionals in the sector, that gap is slowly closing.

A barley breeder's task is no easy feat. They must maintain close contact with end-users, ensure the breeding program remains relevant and stay attuned to emerging trends in the food, feed and brewing industries. All while staying focused on the main goal: to produce new varieties for Western Canadian growers.

In the past, there has been a significant gap between malt and feed barley varieties in terms of yield and agronomics. But that gap is now closing. "The yield gap between malting and feed varieties used to be about 25 per cent, but with the newer varieties, such as CDC Copeland, CDC Meredith, Merit 57 and Bentley, that gap has narrowed to five to ten per cent," says Patricia Juskiw, a barley breeder at the Field Crop Development Centre in Lacombe, Alta.

It's a sentiment echoed by others in the industry. "With some of the newer malt varieties such as CDC Meredith, Major and Bentley coming to commercialization soon versus the top feeds like Xena, Champion and CDC Austenson, the current gap is not that great at about five per cent," says Brian Rossnagel, a barley breeder at the Crop Development Centre in Saskatoon, Sask. "However, please keep in mind that AC Metcalfe, which is currently by far and away the most widely grown malt variety, versus Xena, which is currently the most widely grown feed, the yield difference is about 20 per cent. In other words, the most recent set of new malt varieties show a significant yield advantage. The gap usually goes in cycles since the malt and brewing industry is much slower to change varieties than the feed industry. So, as we release improved feeds, the gap widens for awhile before a new set of malt varieties comes out."

From an agronomic and disease standpoint, the gap might still be further apart. "From my perspective as a plant pathologist, feed varieties in general have a broader package in terms of disease resistance although this is improving in the malt varieties," says Kelly Turkington of the Lacombe Research Centre. "This will have an effect on yield potentials. It can be difficult to incorporate a broad package of resistance into malt lines, while still maintaining the quality characteristics that maltsters and brewers want."

Because malt varieties may not have the disease resistance package that feed types have, Turkington says "crop rotation and, potentially, fungicide use become more important when growing malt varieties. For feed varieties, fungicides are less important, while you may not need as long an interval between barley crops in terms of crop rotation with a feed."

What this means to the producer is that making a decision

on selecting barley varieties requires careful consideration in terms of market opportunities. "Malting barleys require careful management to obtain grade and this management may come at increased input costs," says Juskiw. "The premium for malting grade this year would probably be worth the risk; however, this is not always the case."

Rossnagel adds that when malt varieties are nearly as high yielding as the best feed varieties, "many growers will choose to grow the malt variety in the hope that they'll gain the malt barley premium, knowing that even if they don't, they'll still get a good yield for the feed market, and the chance of getting the malt premium is worth the risk of slightly lower yield."

Juskiw says it's also important to remember malting varieties are usually grown using lower nitrogen input to enhance chances of making malting grade with characteristics such as lower protein, higher extract and better modification traits. "Those lower N inputs that produce good malting quality can limit yield, so it may appear that malting varieties do not yield as well," she says.

Responding to the End-User

Malt and feed barley varieties have very specific end-uses, so it's important to look at what the gap means for end-users. When

it comes to malting, improvements in varieties would maintain and improve Alberta's reputation as a high-quality supplier of malt and malting barley around the world. Bob Sutton of Rahr Malting Company in Alberta says the existing varieties aren't necessarily missing anything, but "there are always areas where improvements can be made that would be well received: extract; lower protein; field sprouting resistance without deep dormancy post-harvest; higher yields for farmers; and better flavours."

"Different customers require different types of malt and the varieties that are currently in the Canadian system fulfill most market niches," adds Rich Joy of Rahr. "We would like to have more of what the Europeans and Australians can deliver; which is lower protein and higher extract. From a processing standpoint, a variety that is malleable, allowing the maltster to process quicker, and with no special requirements, is also very desirable. Beta-glucans are a particularly important issue as high levels adversely affect the brewers' operations."

In the Pipeline

Fortunately, breeders expect the gap to narrow as greater emphasis is placed on developing new malting varieties that offer enhanced brewing characteristics, and it becomes more difficult for breeders to obtain industry support to develop new feed varieties.

In the next few years, malting programs across the Prairies will focus on low-protein and low beta glucan lines. Low phytate barley, which can improve fermentation and reduces the need for mineral supplementation during the brewing process may be more of a "stretch" goal. The barley programs will also continue work on hulless barley lines that are high in beta glucan content and have market potential in the specialty food processing industry.

The Lacombe Research Centre is conducting collaborative disease screening and pathogen variability work with the Field Crop Development Centre and other programs. "In addition, we run a large set of collaborative integrated crop management trials to address agronomic and disease management issues in malt barley," says Turkington.

The centres are also working together on production practices to enhance the sustainability of barley production. "We have been trying to incorporate scald resistance into malting types; this remains a challenge. Recently we have been using marker-assisted selection to try to break the linkages between malting quality and scald resistance," says Juskiw.

That's not to say there won't be new feed varieties developed as well. Feedlot operators need higher-yielding, more digestible feed barley for Canada's meat sector to remain competitive.

To that end, a research project at the Field Crop Development Centre has been investigating the use of a precise and rapid method for testing and analyzing organic materials. The multi-million-dollar near infrared reflectance spectroscopy project has examined thousands of samples of livestock feed for characteristics such as nutritional value and net digestible energy. The goal is to find definitive answers on quality characteristics.

Where Have the Acres Gone?

While breeders continue to work hard developing new varieties, barley acres continue to decrease mostly due to the poor relative

returns feed barley gives farmers. This decrease in barley acres was the theme of the 6th Canadian Barley Symposium held last summer in Saskatoon.

"I think everyone realizes that barley acres have dropped because feed barley prices, which are essentially the floor price for barley, just aren't competitive with returns for other cereals like wheat and oats," says Rossnagel. "When a farmer is deciding which cereal to plant in his oilseed/cereal/pulse rotation, one of the things he/she looks for is the worst-case scenario, which, for barley, is being forced to sell it for feed. If that scenario won't cover your cost of production then you'll very likely look to grow oats, which requires lower cost of production and less product management than malting barley, or wheat, which requires less product management. If the price of feed barley isn't high enough, then the risk of whether or not you get malt price is just too high, so growers plant an alternative crop."

Jim Downey, research and development manager for Secan, who also owns and operates a family grain farm near Saskatoon, Sask., gave a presentation on the issue at the barley symposium and highlighted that moisture in malting barley is also a major reason for the reduction in acreage. He says 14.8 per cent is dry, but barley contracts specify 13.5 per cent moisture and drying grain costs 10 to 50-cents a bushel, therefore making barley production an unattractive option.

While price is something that can't be controlled, breeding can. Plant breeders in Alberta will continue to strive for varieties that close the yield and agronomic gap between malt and feed varieties, while adhering to the main goal—to make growing barley more attractive for producers through the betterment of agronomics and disease resistance. **julie.mcnabb**

Did You Know?

Barley Australia has introduced a new "food barley" classification for varieties that fail the malting category but are better than stockfeed. It came after the barley industry organization announced that the popular Hindmarsh variety had failed commercial malting tests. The decision would have meant Hindmarsh was downgraded to feed barley, although buyers were willing to export it as malt to some markets. Hindmarsh had shown potential as a variety suitable for the Shochu market in Japan.

Barley Australia executive manager Neil Barker says the "food barley" grade enables Hindmarsh and other future varieties with unique food processing or biochemical characteristics to be recognized independently of current malt and feed barley classifications, creating opportunities for both growers and marketers.

There are opportunities out there to market barley into niche markets based on unique characteristics and many are starting to wonder if the Canadian grain industry might be well served by a similar food or general purpose category for good varieties that fall into the gap between malting and feed categories.

Where Have the Acres Gone?

Example of 2010 Crop Planner

	Wheat	Malt	Feed	Oats	Canola	Lentils	Peas
Yield/Ac	38	60	60	75	32	1086 lb/ac	35
Price/bu	$4.75	$2.90	$2.50	$2.00	$9.00	$0.30	$4.75
Gross Revenue/Acre	$180	$174	$150	$150	$288	$325	$166
Total Variable Expense/Acre	$120	$108	$108	$103	$150	$143	$107
Return over Variable Expense/Acre	$60	$66	$42	$47	$138	$182	$59

Source: From Jim Downey's presentation at the 6th Canadian Barley Symposium, entitled "Barley—Why Grow it? Thoughts from Farmers and Seed Growers'". Data from Saskatchewan Ministry of Agriculture.

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Weighing Your Options

Food for thought when considering 2010 field trial data.

THE growing season of 2010 will go down in the books as one that was fraught with various issues caused mainly by Mother Nature. Excessive rains plagued the Canadian Prairies many times throughout the spring and summer of 2010.

It's the problems caused by these weather conditions that growers need to keep in mind when considering data from this past summer's field plot trials across the Prairies. Excessive rains in many locations led to the onslaught of disease across all crop types including wheat, canola and barley. Understanding the 2010 data is crucial for producers when considering seed selection.

According to Doug Moisey, agronomy specialist with the Canola Council of Canada, when considering trial data, it is important to look at several trial sites before making a seed purchase decision. "Producers should look at many sites and ask about fertility, moisture and seeding rates." As for yield, Moisey says it is important but "unless there is a 10 per cent difference in yield, it's not really significant." Moisey also stresses that producers should look at maturity and disease packages. "If possible look at two years of data and ask questions of company representatives and other producers around the region—ask people that toured plots."

Dave Harwood, technical services manager with Pioneer Hi-Bred Limited agrees that it is important for producers to use local information and longer term data to help make seed decisions. "Producers need to understand that this year was an exceptionally different year than most. Many areas experienced above average rainfall with below normal heat unit accumulation," explains Harwood. "When conditions are outside of the normal, the use of local information, in combination with a wide area and longer term data, is likely to result in decisions that most accurately reflect future performance of a product."

Regional Variety Trials

Regional variety trials are held across the Prairies each year in on-farm trials which are normally field-scale, as well as small-scale trials held by researchers which are normally plot size. Moisey explains that the regional variety trial data is very important and should be considered when producers are choosing varieties. "Regional data is important as it gives a sense of how the variety does within the region, but it's important to focus on other regions to see if the performance of the product is consistent, as well as to look at the performance under different environmental conditions," explains Moisey.

Pioneer Hi-Bred is a proponent of on-farm variety trials in the company's grain and oilseed product lines—but they are especially important for canola, says Harwood. "Its architecture, herbicide systems and harvest management approaches make canola a unique crop, and all of these attributes make predictive small-scale variety evaluation very difficult."

However Harwood stresses that small-scale trials—like those used by researchers—are effective when making selections amongst thousands of experimental materials tested. "But when the objective is to identify the most productive materials from a select group of elite varieties, our experience tells us that field-scale, commercially-managed trials are most predictive." Harwood explains that Pioneer's product advancement decisions are based on grower-managed trials, and "we believe growers will benefit from using the same approach for variety selection."

Moisey says producers have access to various companies' trial data and as well can use independent Western Canada Canola/Rapeseed Recommending Committee data that is available each year. Harwood says producers, in collaboration with their seed suppliers, can select a number of the lead product choices and conduct their own on-farm trials. "Use your own experience along with other results in the area over multiple years. If you do not conduct your own on-farm trials, talk to your local sales representative who will provide you with detailed local data, plot tours and product information."

The Ultimate Measure

Both Moisey and Harwood explain while yield is the most important crop attribute, many factors come into play in determining a crop's final yield, which is why it is so important to look at all of the data for a particular variety. "Yield is the ultimate measure of how a particular variety has responded to the environment to which it was exposed," explains Harwood. "The variety's stand establishment, stress and disease tolerance, maturity and ease of harvest all contribute to its yield."

Moisey agrees that yield is the key focus but, because blackleg is on the radar again, producers need to look very closely at disease ratings as well as rotation systems and rotating varieties within a particular system. Each year, canola acreage continues to climb in Western Canada, and Moisey says 2011 may be another

record year. This may mean tighter rotations on some fields so he stresses the importance of disease management in 2011.

The 2010 growing season was proof that disease can severely impact yields and Harwood explains that managing disease should be a part of producers' risk management strategy on their individual farms. "In much of the Prairies, diseases such as Sclerotinia impacted yield more than usual. It demonstrates the merit of managing plant disease by planting a portfolio of products that brings a balance of risk-mitigating traits like sclerotinia-, backleg-, and in the areas affected, clubroot- resistance."

There are also many species of fusarium that affect wheat, barley and other cereals across Western Canada and this year's crops will have to be closely monitored for any outbreaks. The disease can cause yield loss, but more importantly, can result in mycotoxin production which at certain levels can lead to downgrading of these cereal grains. An integrated crop management approach to controlling fusarium in 2011 will be necessary as fusarium can pose a serious threat to crop establishment and final quality.

shannon. schindle

Legend for Cereals & Oilseeds

Symbols

†	Denotes variety may not be described in 2009.
NS	Denotes variety generally not suited for area.
XX	Denotes insufficient test data to describe.
PBR	Denotes variety protected by Plant Breeders' Rights.
▲	Denotes protection under Plant Breeders' Rights has been applied for.

* Numerical yield data followed by a star (e.g. 101*) denotes limited data.

Resistance

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

Abbreviations

Comp. Mat.	Comparative maturity in (+ or -) days from the check variety.
Comp. Prot.	Comparative protein in (+ or -) percent from the check variety.
Te. Wt.	Test Weight (lb/bu). Multiply lb/bu by 1.25 to get kilograms per hectolitre.
Kn. Wt.	Kernel Weight (grams/1,000 kernels).
Seed size	S = Small, M = Medium, M-L = Medium Large, L = Large.
Ht.	Height in centimeters.
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.

Varieties of Cereal and Oilseed Crops for Alberta

THIS publication provides information on cereal and oilseed variety performance within Alberta and Northwestern British Columbia. Important agronomic characteristics are given 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 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 Barley Commission, the Alberta Winter Wheat Producers' Commission and entry fees for the varieties in the tests.

Data for this publication is contributed by numerous applied research associations, the Prairie Grain Development Committee, the Canola Council of Canada, Viterra, 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 Described in 2011

In 2010, the Alberta/British Columbia Grain Advisory Committee discontinued reporting variety yields by geographic area for cereals and flax. In its place, Test Yield Categories are now reported exclusively. Variety yields are reported relative to a standard check in two ways:

1) As the overall average yield for all trials conducted in the AB/BC testing program, with the number of site-years of data indicated. These figures are a more reliable indication of average relative performance. When there are limited data for a new variety, yield information may only appear in the Overall Yield column.
2) As the average yields in Low, Medium, High and Very High Test Yield Categories for comparison with anticipated yields in a production environment. The average test yield for the standard check is also reported in bu/ac.

Varieties that are statistically higher (+) or lower (-) yielding than the standard check are indicated for each Test Yield Category. In many cases, no symbols are reported, indicating that the yields are not significantly different from the standard check. See the example below:

	Overall Yield (1)		Test Yield Category (2)			
Variety	All Sites	Station years of testing	Low <60 bu/ac	Med 60-90 bu/ac	High 90-120 bu/ac	Very High >120 bu/ac
Variety bu/ac	97		45	77	105	136
Check Variety	100	(252)	100	100	100	100
Variety X	103	(95)	97	101	104+	99

On average, Variety X has yielded 4% more than the check variety and this difference is statistically significant.

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 the yield comparison tables, producers first need to assess where their target yield for the season 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% 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.

Yield Summarization Methods

Past versions of this publication summarized multi-year and multi-location yield data on a geographical zone basis (agro-climatic areas). Within each geographic zone, widely differing growth conditions will occur across different locations and from year to year. As a result, this method of analysis has not been a reliable indicator of varieties better adapted to varying levels of productivity, as influenced by moisture availability, soil fertility, etc. It has also given the false impression that varieties will respond close to the long term averages reported for each area.

Over the past several years, a new approach was introduced to better reflect the yield performance of varieties under varying growth conditions. For several crops, yield data was 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.

This new reporting method allows producers to select the most beneficial varieties for their particular situation. Consistent performance over all productivity environments indicates that the variety has good yield stability over a wide range of environments. For new varieties where sufficient data is not available 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. Variety choice based on yield performance in a specific Yield Test Category should be a reasonable predictor of fall yield, taking into account factors such as expected growth season rainfall, soil moisture status, disease forecasts, soil fertility and weed pressure. Producers are encouraged to consider other characteristics, such as maturity, straw strength and disease resistance, rather than settling on a variety based solely on yield performance.

It is important to note that some 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. In many cases, no symbol is reported, indicating that the yields are not significantly different from the standard check. 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 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.

Maturity Ratings

New for 2011 is the adoption of relative maturity ratings for each of the crop types. In the past, the reported number of days to maturity was an average of all testing sites across the province. 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 and eliminate any false impressions of when a particular variety should be mature, it was decided that a five category scale would be more useful: 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 this symbol 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.

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 oats. 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.
- All seed of cereal varieties tested in the Alberta Regional Variety Testing program comes with a "fusarium-free" certificate and is treated with the appropriate fungicides. 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, AB 1-877-420-2099
- BioVision Seed Research Ltd., Edmonton, AB 1-800-952-5407
- BioVision Seed Research Ltd., Grande Prairie, AB 1-877-532-8889
- Parkland Laboratories, Red Deer, AB 1-403-342-0404
- Precision Seed Testing, Beaverlodge, AB 1-780-354-2259
- Seed Check Technologies Inc., Leduc, AB 1-780-980-8324

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).

All tables prepared, reviewed, and approved by:

Alberta/British Columbia Grain Advisory Committee

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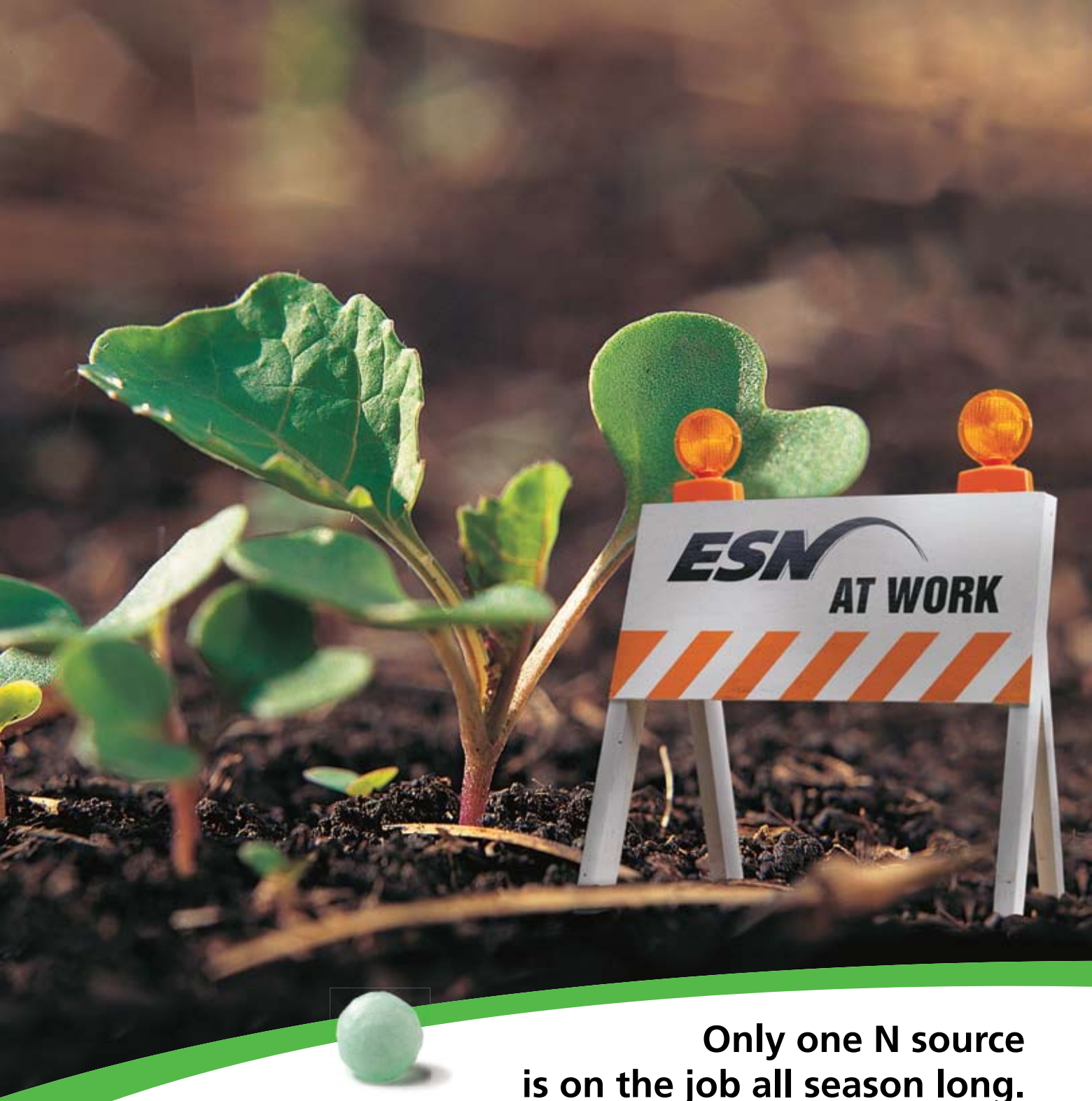
Alberta Agriculture and Rural Development
More information
Alberta Ag-Info Centre
Call toll-free 310-FARM (3276)
Website: www.agriculture.alberta.ca



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BARLEY

Yield Data	Overall Yield (1)				Yield by Test Yield Category (2)			
Variety	No. of Row	Awn Type	All Sites	Stn. Yrs. of Testing	Low <60 bu/ac	Medium 60-90 bu/ac	High 90-120 bu/ac	Very High >120 bu/ac
AC Metcalfe	**2**	**R**	**100**	**(396)**	**45**	**77**	**105**	**136**
		% AC Metcalfe				**% of test mean**		
GENERAL PURPOSE VARIETIES								
*AC Harper	6	SS	103+	(166)	95	100	105+	104+
*AC Lacombe	6	S	106+	(190)	102	105+	107+	109+
*AC Ranger	6	S	107+	(48)	103	102	114+	106
*AC Rosser	6	S	110+	(54)	103	108+	111+	113+
*Stander	6	SS	104+	(76)	XX	103	105	104
Busby ▲	2	R	103	(46)	107	107	103	101
CDC Austenson	2	R	108+	(46)	108	111+	107+	109+
CDC Coalition	2	R	110+	(49)	107	115+	106+	110+
CDC Cowboy	2	R	95-	(73)	107	95-	93-	94-
CDC Dolly	2	R	101	(184)	97	102	102	100
CDC Helgason	2	R	101+	(101)	101	99	103+	102
CDC Mindon	2	R	99	(47)	XX	102	99	96-
CDC Trey	2	R	103+	(106)	103	106+	100	104+
Champion	2	R	111+	(82)	127+	113+	108+	107+
Chigwell ▲	6	S	107+	(28)	XX	108	110+	XX
CONLON	2	S	94-	(61)	97	95-	93-	94-
Harrington	2	R	93-	(284)	99	96-	92-	89-
Manny	6	R	108+	(59)	XX	108	106+	111+
McLeod	2	R	107+	(95)	XX	109+	105+	106+
Niobe	2	R	103+	(62)	XX	101	104	104
Ponoka	2	R	108+	(117)	103	108+	109+	108+
Seebe	2	R	101	(228)	99	101	102+	98-
Sundre	6	S	110+	(64)	104	105	111+	116+
Trochu	6	S	106+	(66)	XX	107	104	111+
XENA	2	R	111+	(214)	112+	111+	112+	110+
SEMI-DWARF								
CDC Bold	2	R	106+	(77)	115+	106+	106+	100
*Mahigan	6	SS	101	(111)	85-	99	103	103
Vivar	6	R	110+	(91)	105	107+	110+	115+
HULLESS								
*CDC McGwire †	2	R	93-	(107)	88-	93-	95-	XX
CDC Carter	2	R	97	(30)	XX	99	96	94-
Falcon	6	S	85-	(96)	82-	84-	86-	87
Millhouse†	2	R	84-	(35)	86-	87-	80-	XX
Tyto	6	S	84-	(43)	78-	84-	85-	XX
RECOMMENDED MALTING VARIETIES								
AC Metcalfe	**2**	**R**	**100**	**(396)**	**100**	**100**	**100**	**100**
CDC Copeland	2	R	103+	(137)	100	103	104+	102
CDC Kendall	2	R	98-	(165)	100	98	97-	96-
LEGACY	6	SS	101	(74)	XX	100	100	103
Newdale	2	R	105+	(88)	108+	105+	103+	107+
Stellar ND	6	SS	95-	(58)	XX	88-	97	99
Tradition	6	SS	100	(90)	92	100	100	101
MALTING VARIETIES UNDER TEST								
Bentley ▲	2	R	103+	(46)	109	102	103	103
CDC Clyde	6	SS	102	(77)	99	100	103	103
CDC Kamsack	6	R	97	(37)	XX	94	101	100
CDC Mayfair	6	R	97	(37)	XX	99	96	95
CDC Meredith	2	R	105+	(46)	102	110+	104+	103
CDC Reserve	2	R	101	(46)	112	101	99	99
Cerveza	2	R	107+	(30)	XX	109+	105+	107+
Major ▲	2	R	103	(30)	XX	104	106+	101
Merit 57	2	R	107+	(68)	110+	108+	105+	106+
TR05671 †	2	R	102	(46)	98	106	100	103
OTHER MALTING VARIETIES								
*Excel †	6	SS	102	(50)	95	106	100	102
CDC Battleford	6	S	102+	(76)	XX	99	102	107+
CDC Select	2	R	101	(76)	103	100	100	100
CDC YORKTON	6	S	100	(37)	XX	98	99	106
Formosa	2	R	98	(36)	XX	99	94-	102
Harrington	2	R	93-	(284)	99	96-	92-	89-

Alberta and British Columbia Pedigreed Seed Growers Directory of Varieties Produced in 2010

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)

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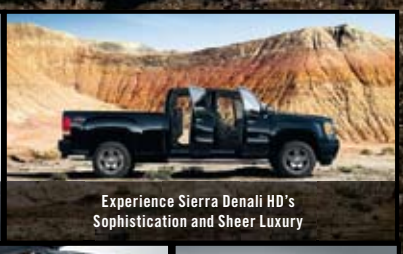
- Maximum Conventional Towing 5897kg (13,000lb.)
- Maximum 5th Wheel Towing 7575kg (16,700lb.)

Sierra Denali HD Model Shown.

Accessory Bed Liner Available



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- Chrome Door Handles
- 18" Polished Aluminum Denali Wheels (SRW)
- Body-Colour Bumpers
- EZ Lift Tailgate with Lock
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- Power Adjustable Pedals
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BARLEY – *CONTINUED*

Variety	Agronomic Characteristics: Maturity Rating +/- Metcalfe	TWT lb/bu	KWT g/1000	Ht. (cm)	Resistance to: Ldg.	Loose Smut	Fl. & Cov. Smut	Com. Rt. Rot	Scald.	Spot Form Net Blotch	Net Form Blotch	Toler. FHB
GENERAL PURPOSE												
*AC Harper	M	48	40	80	G	P	F	F	F	F	F	P
*AC Lacombe	M	48	42	84	G	P	G	P	P	G	P	VP
*AC Ranger	L	49	43	74	F	P	F	G	P	G	F	VP
*AC Rosser	L	48	41	82	F	P	VG	G	VP	G	F	VP
*Stander	M	51	41	85	G	P	P	F	VP	G	VP	VP
Busby ▲	M	52	48	78	G	VP	G	VP	F	G	P	F
CDC Austenson	L	52	46	75	G	VP	VG	F	VP	G	P	F
CDC Coalition	L	53	47	73	G	VG	VG	F	VP	G	VP	F
CDC Cowboy	L	52	55	102	G	P	G	F	P	G	F	G
CDC Dolly	M	53	49	74	F	VP	F	F	F	P	VP	G
CDC Helgason	E	52	46	75	G	VG	G	F	VP	G	G	P
CDC Mindon	M	52	48	77	G	VG	VG	XX	VP	G	VP	G
CDC Trey	M	52	50	80	G	P	VG	G	P	VG	F	F
Champion	M	52	48	76	G	VP	VG	XX	VP	F	VP	F
Chigwell ▲	M	49	40	72	G	P	G	P	G	G	F	VP
CONLON	VE	52	52	79	G	F	F	G	VP	G	F	G
Harrington	M	50	44	78	F	P	P	F	VP	P	VP	G
Manny	E	48	41	86	G	XX	VG	P	VG	F	P	P
McLeod	L	51	49	76	G	VP	VG	F	VP	F	VP	F
Niobe	E	50	45	75	G	P	G	P	F	VG	P	P
Ponoka	L	50	46	79	G	VG	VG	F	G	G	P	F
Seebe	VL	52	50	86	G	VP	VG	F	G	P	VP	G
Sundre	L	51	43	84	G	P	VG	P	VG	F	P	VP
Trochu	M	49	42	77	G	P	G	G	F	G	VP	F
XENA	M	52	49	78	G	P	P	G	VP	F	VP	G
SEMI-DWARF												
CDC Bold	M	53	48	72	VG	P	G	G	F	F	VP	VP
*Mahigan	M	49	36	47	VG	VP	VG	P	G	F	F	VP
Vivar	M	49	44	73	VG	F	VG	G	F	G	VG	VP
HULLESS												
*CDC McGwire†	M	61	39	80	VG	P	G	G	F	G	F	G
CDC Carter	M	57	39	73	VG	VG	VG	VP	P	G	F	F
Falcon	E	58	35	68	VG	P	G	F	F	F	F	VP
Millhouse†	M	57	42	87	F	VP	G	F	P	P	P	F
Tyto	M	55	39	73	VG	VP	VG	F	P	F	VP	P
RECOMMENDED MALTING VARIETIES												
AC Metcalfe	**M**	**46**	**52**	**80**	**F**	**VG**	**F**	**F**	**VP**	**F**	**VP**	**F**
CDC Copeland	M	47	51	81	F	P	F	F	VP	F	F	F
CDC Kendall	E	45	52	78	F	P	P	G	VP	G	F	F
LEGACY	M	40	49	85	G	F	G	G	VP	G	VP	P
Newdale	M	46	52	71	F	VP	G	G	P	G	F	F
Stellar ND	E	41	48	77	G	G	G	F	P	F	P	F
Tradition	E	41	49	82	G	VP	G	G	VP	F	VP	VP
MALTING VARIETIES UNDER TEST												
Bentley ▲	M	46	51	78	G	P	G	G	VP	VG	P	P
CDC Clyde	VE	40	49	76	G	F	VG	G	P	G	F	VP
CDC Kamsack	M	41	48	69	G	F	G	F	P	F	VP	VP
CDC Mayfair	VE	41	48	72	G	VP	G	F	VP	G	P	P
CDC Meredith	L	46	50	73	F	VG	G	G	VP	VG	VP	F
CDC Reserve	M	44	52	75	F	VP	P	F	P	P	VP	P
Cerveza	M	45	50	72	F	VG	VG	F	VP	G	P	F
Major ▲	M	45	51	72	G	VG	G	F	P	G	F	F
Merit 57	VL	44	50	78	F	P	VP	F	P	G	P	G
TR05671 †	L	47	51	76	G	VP	VG	G	F	G	VP	G
OTHER MALTING VARIETIES												
*Excel †	M	75	40	50	G	P	F	G	VP	F	VP	VP
CDC Battleford	M	41	49	84	G	P	G	G	P	VG	P	VP
CDC Select	M	45	50	75	F	G	G	P	VP	G	P	P
CDC YORKTON	M	39	47	81	G	P	G	G	P	G	F	VP
Formosa	M	48	53	79	XX	XX	XX	XX	VP	F	VP	XX
Harrington	M	44	50	78	F	P	P	F	VP	P	VP	G

Remarks: Barley varieties are described as follows: General Purpose: standard height general purpose varieties. Semi Dwarf: varieties shorter than standard general purpose varieties. Hulless: hulless general purpose types. Malting barley varieties are described as follows: Recommended: varieties with market acceptance and recommended by the CMBTC (Canadian Malt Barlkey Technical Centre). Under Test: varieties currently undergoing evaluation for market acceptance. Other: not currently recommended but varieties where a market may exist. Yieldisdescribedbythefollowingtwomethods. 1) All Station Yields: variety yields compared to AC Metcalfe at a similar number of stations. To compare Busby to AC Metcalfe - Busby is 103% of AC Metcalfe at 46 stations where these varieties were grown together. 2) Yield by Test Category: Described as the % of AC Metcalfe in bu/ac under low, medium, high and very high growing conditions. Note: Theaverage bu/ac yield per test category for ACMetcalfeis (low 45) (medium 77) (high 105) (very high 136). Yield values with a + symbol indicate a significantly higheryieldthanthecheckvariety.Yield values with a - symbol indicate a significant loweryieldthanthecheckvariety.Yield valueswithoutasymbolarenotsignificantlydifferentfromthecheckvariety. Varieties designated with a * have limited data compared with AC Metcalfe - as a result, yields for these varieties have been adjusted to AC Metcalfe from Harrington. Lodging&DiseaseTolera nceRatings:VG=VeryGood,G=Good,F=Fair,P=Poor,VP=VeryPoor. Maturity: Long term average for days to maturity for AC Metcalfe is 95 days and rated as M (medium maturing). Maturity is described as VE (very early), E (early), M (medium), L (late) and VL (very late) in relation to AC Metcalfe. Awn types are described as R = rough, SS = semi-smooth, S= smooth.

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BARLEY

	S	F	R	C
AC ALBRIGHT				
BI: AAFC (Beaverlodge), Dist: SeCan Members				
Wuthrich, David / Cecil Lake / (250) 781-3527				C
AC HARPER				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Mans, John / Nobleford / (403) 824-3585				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
AC LACOMBE				
BI: AAFC (Lacombe), Dist: SeCan Members				
Jones, Danny / Beaverlodge / (780) 354-8089				C
AC METCALFE				
BI: AAFC (Brandon), Dist: SeCan Members				
Andersen, Ed. A. & N.A. & K. & B.W. & J. / Kitscoty / (780) 847-2586				C
Baier, Bill, Joy & Dean / Clyde / (780) 348-5791				C
Benci, Dennis / Carmangay / (403) 643-2294				C
Bright, David / New Norway / (780) 855-2240				C
Cameron, Danny / Millet / (780) 387-5313				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Dallas, Bradley C. / Bowden / (403) 224-2162				C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456			R	C
Dueck, Ralph E. & Brent / Olds / (403) 556-2602		F	R	
Eliason, Bruce W. / Wrentham / (403) 222-3755			R	C
Foster, Norman R. / Beaverlodge / (780) 354-2107		F		C
Goldstrom, David / Innisfail / (403) 227-2133			R	C
Hallett, Dale R. / Carstairs / (403) 337-2469				C
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268				C
Kapitski, Lawrence / Andrew / (780) 365-2134				C
Kaun, David E. / Penhold / (403) 886-4562			R	
King, Harold F. / Three Hills / (403) 443-7330				C
Knight, William H. & G. & B. & C. & B. / Tees / (403) 784-3633				C
Kopjar, Gerald M. / Rowley / (403) 368-2409				C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500			R	C
Limoges, Marcel / McLennan / (780) 324-3024				C
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240				C
Markert, Louise / Vulcan / (403) 485-6708				C
Massey, Derwin / Stettler / (403) 883-2503				C
McNelly, Bevin / Clyde / (780) 348-5749				C
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595			R	
Murray, Bruce / Lethbridge / (403) 327-9389				C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645			R	C
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F	R	
Oatway, Ward / Lacombe / (403) 784-3418			R	
Penner, Larry / Three Hills / (403) 443-7212			R	
Rasmuson, Dennis G. & Cory Dean / Gwynne / (780) 361-3813			R	
Svean, Alan Carl & Scott / Rivercourse / (780) 745-2578			R	C
Thomas, Earl J. / Warner / (403) 642-2253				C
Trueblood, Brian G. / Dapp / (780) 954-3745			R	
Vipond, Gene / Dawson Creek / (250) 782-5561				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
Webber, John D.J. / Berwyn / (780) 338-3657				C
Weigum, Garry / Three Hills / (403) 443-2476				C
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928			R	
AC RANGER				
BI: AAFC (Brandon), Dist: FP Genetics				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
BENTLEY				
BI: AAFRD, Dist: Canterra Seeds				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372		F		
Andrukow, Allan / Viking / (780) 385-6402			R	
Cameron, Danny / Millet / (780) 387-5313			R	
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517			R	
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268			R	
Kaun, David E. / Penhold / (403) 886-4562			R	C
King, Harold F. / Three Hills / (403) 443-7330			R	
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240	S	F		
Logan, Glenn C. & Marie & D. / Lomond / (403) 792-3696		F		
Markert, Ron / Vulcan / (403) 485-6708		F	R	
Plante, Jacques / St. Paul / (780) 645-4604			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322		F	R	C
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358		F		
Welsh, Donald Alan / Milk River / (403) 647-2228		F		
Zwack, Thomas / Daysland / (780) 374-2450				C

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BUSBY				
BI: AAFRD, Dist; Mastin Seeds				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670			R	
Gibson, Donald / Sangudo / (780) 785-2214			R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	
Hallett, Dale R. / Carstairs / (403) 337-2469			R	
Jones, Greg Thomas / Ponoka / (403) 783-6495		F		
Mastin, Robert B. / Sundre / (403) 556-2609		F		
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595			R	
Schultz, Jason / Bashaw / (780) 372-2286			R	
Smith, Gary W. / Eckville / (403) 746-5878			R	
CDC AUSTENSON				
BI: CDC, Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151			R	
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929	S		R	
Hallett, Dale R. / Carstairs / (403) 337-2469			R	
Hoff, Peter Edward / Gleichen / (403) 734-2140			R	
Huvenaars, John & Lisa / Hays / (403) 725-2126		F		
King, Harold F. / Three Hills / (403) 443-7330		F	R	
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	
Markert, Ron / Vulcan / (403) 485-6708		F	R	
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595			R	
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645	S		R	
Oatway, Ward / Lacombe / (403) 784-3418		F	R	
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617		F		
Weigum, Garry / Three Hills / (403) 443-2476			R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			R	
CDC BATTLEFORD				
BI: CDC, Dist: SeCan Members				
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F		
Wagner, Terry & Loree / Lacombe / (403) 782-2107			R	
CDC COALITION				
BI: CDC, Dist: Canterra Seeds				
Bright, David / New Norway / (780) 855-2240				C
Cameron, Danny / Millet / (780) 387-5313		F		C
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151			R	
Cyre, Clifford & Greg / Barrhead / (780) 349-4775				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
Kaun, David E. / Penhold / (403) 886-4562				C
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240				C
Markert, Ron / Vulcan / (403) 485-6708			R	C
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736		F		
Plante, Jacques / St. Paul / (780) 645-4604				C
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
CDC COPELAND				
BI: CDC, Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	C
Dallas, Bradley C. / Bowden / (403) 224-2162				C
Dueck, Ralph E. & Brent / Olds / (403) 556-2602		F	R	
Eliason, Bruce W. / Wrentham / (403) 222-3755				C
Goldstrom, David / Innisfail / (403) 227-2133				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929				C
Hallett, Dale R. / Carstairs / (403) 337-2469			R	C
Kittle, James William & Andrew / Viking / (780) 336-2583	S		C	
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	C
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240				C
McNelly, Bevin / Clyde / (780) 348-5749				C
Mueller, Donald A. / Three Hills / (403) 823-3177				C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F	R	
Sich, Louis John & Ivan / Trochu / (403) 442-2112				C
Smith, Miles A. / Trochu / (403) 442-2693				C
Strain, Arthur George / Foremost / (403) 867-2227				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
Zwack, Thomas / Daysland / (780) 374-2450				C
CDC COWBOY				
BI: CDC, Dist: SeCan Members				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
Andersen, Ed. A. & N.A. & K. & B.W. & J. / Kitscoty / (780) 847-2586			R	
Bright, David / New Norway / (780) 855-2240				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456			R	C
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383				C
Foster, Norman R. / Beaverlodge / (780) 354-2107				C
Goldstrom, David / Innisfail / (403) 227-2133			R	
Hadland, Edward & Lori / Baldonnel / (250) 789-3646				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929				C
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	C
Kotowich, Paul / St.Paul / (780) 645-2535				C
McDonald, Gerald / Grande Prairie / (780) 538-3868				C
McNelly, Bevin / Clyde / (780) 348-5749			R	C
Metzger, Don / Three Hills / (403) 572-3284				C
Oatway, Grant / Lacombe / (403) 784-3418			R	
Pare, Raymond A. / Wainwright / (780) 842-2073			R	
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251			R	
Selte, Donald / Vermilion / (780) 853-2484			R	C
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358			R	
Stewart, Eldon / Big Valley / (403) 876-2784				C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617				C
Webber, Curtis / Stony Plain / (780) 963-6897				C
Zwack, Thomas / Daysland / (780) 374-2450				C
CDC EARL				
BI: CDC, Dist: SeCan Members				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
CDC HELGASON				
BI: CDC, Dist: SeCan Members				
Hadland, Edward & Lori / Baldonnel / (250) 789-3646		F	R	
Smith, Gary W. / Eckville / (403) 746-5878				C
CDC KINDERSLEY				
BI: CDC, Dist: N/A				
Kittle, James William & Andrew / Viking / (780) 336-2583	S			
CDC MAYFAIR				
BI: CDC, Dist: Canterra Seeds				
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322		F		
CDC MEREDITH				
BI: CDC, Dist: SeCan Members				
Benci, Dennis / Carmangay / (403) 643-2294			R	
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240			R	
CDC MINDON				
BI: CDC, Dist: SeCan Members				
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321		F		
CDC POLAR STAR				
BI: CDC, Dist: Canterra Seeds				
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
CDC THOMPSON				
BI: CDC, Dist: FP Genetics				
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036			R	
Templeton, Brant / Lethbridge / (403) 345-4124				C
Thompson, M. Ellwood & K. / Innisfail / (403) 728-3535			R	C
CDC TREY				
BI: CDC, Dist: FP Genetics				
Andersen, Ed. A. & N.A. & K. & B.W. & J. / Kitscoty / (780) 847-2586				C
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928	S	F		C
CDC YORKTON				
BI: CDC, Dist: Canterra Seeds				
Benci, Dennis / Carmangay / (403) 643-2294		F		C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322	S	F	R	C
CHAMPION				
BI: Viterra, Dist: Viterra				
Moore, Dean W. / Innisfail / (403) 227-2865				C
Schmermund, Donnie / Calahoo / (780) 967-2850			R	
Viterra / Regina / (306) 569-5027		F	R	C
Wurz, John / Picture Butte / (403) 757-2330			R	
CHIGWELL				
BI: AAFRD (Lacombe), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	
Dueck, Ralph E. & Brent / Olds / (403) 556-2602		F		
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321				C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
Huvenaars, John & Lisa / Hays / (403) 725-2126			R	

Mans, John / Nobleford / (403) 824-3585				C
McDonald, Grant / Didsbury / (403) 335-8188			R	
Wagner, Terry & Loree / Lacombe / (403) 782-2107		F		
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617		F	R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
CONLON				
BI: NDSU, Dist: Seed Depot				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Welsh, Donald Alan / Milk River / (403) 647-2228				C
DUKE				
BI: CDC, Dist: SeCan Members				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
FALCON				
BI: AAF, Dist: N/A				
Stickland, Melvin G. & Irma & B. / Red Deer / (403) 886-4875				C
FORMOSA				
BI: C&M Seeds, Dist: FP Genetics				
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
GADSBY				
BI: N/A, Dist: N/A				
Oatway, Lori / Lacombe / (403) 784-3418		F		
LACEY				
BI: Newfield Seed Co. Ltd., Dist: FP Genetics				
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
LEGACY				
BI: Busch Ag. Res., Dist: Viterra/FP Genetics/Viterra				
Niemela, Terrance & Tracy / Sylvan Lake / (403) 746-2645				C
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928	S			C
MAJOR				
BI: N/A, Dist: N/A				
Viterra / Regina / (306) 569-5027		F	R	
MERIT 57				
BI: Busch Ag. Res., Dist: Canterra Seeds				
Kaun, Mark L. / Penhold / (403) 886-4562		F		
NEWDALE				
BI: AAFC (Brandon), Dist: FP Genetics				
Dalton, Dennis / Wainwright / (780) 842-2361				C
Thompson, M. Ellwood & K. / Innisfail / (403) 728-3535			R	C
NIOBE				
BI: AAFRD (Lacombe), Dist: SeCan Members				
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595		F		C
NORMAN				
BI: N/A, Dist: N/A				
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303		F		
PONOKA				
BI: AAFRD (Lacombe), Dist: SeCan Members				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670			R	
Gibson, Donald / Sangudo / (780) 785-2214				C
McDonald, Gerald / Grande Prairie / (780) 538-3868				C
Metzger, Don / Three Hills / (403) 572-3284				C
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595			R	
Niemela, Raymond / Benalto / (403) 746-5848				C
Persely, Edward & Shirley / Bonnyville / (780) 826-2992				C
Selte, Donald / Vermilion / (780) 853-2484				C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617			R	
Webber, Curtis / Stony Plain / (780) 963-6897				C
SEEBE				
BI: AAFRD (Lacombe), Dist: SeCan Members				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670				C
Cross, Douglas / Westlock / (780) 349-2587			R	
Meinczinger, Matthew Jr. / Busby / (780) 349-2456				C
Schmermund, Donnie / Calahoo / (780) 967-2850			R	
Webber, Curtis / Stony Plain / (780) 963-6897				C
SUNDRE				
BI: AAFRD (Lacombe), Dist: Mastin Seeds				
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	
Cross, Douglas / Westlock / (780) 349-2587				C
Gibson, Donald / Sangudo / (780) 785-2214				C
Hadland, Arthur Austin / Baldonnel / (250) 789-3566				C
Hallett, Dale R. / Carstairs / (403) 337-2469				C
Jones, Greg Thomas / Ponoka / (403) 783-6495				C
Jonk, Nicholas / Westlock / (780) 349-5458			R	C
Kemp, Richard L. / Innisfail / (403) 227-4836			R	
King, Harold F. / Three Hills / (403) 443-7330			R	
Mastin, Robert B. / Sundre / (403) 556-2609		F		C
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595			R	C
Schultz, Jason / Bashaw / (780) 372-2286			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Smith, Gary W. / Eckville / (403) 746-5878				C
Templeton, Doran / Lethbridge / (403) 345-4144			R	
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
TROCHU				
BI: AAFRD (Lacombe), Dist: SeCan Members				
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	C
Hallett, Dale R. / Carstairs / (403) 337-2469				C
Kittle, James William & Andrew / Viking / (780) 336-2583			R	
McDonald, Grant / Didsbury / (403) 335-8188			R	
Wagner, Terry & Loree / Lacombe / (403) 782-2107		F		
Webber, Curtis / Stony Plain / (780) 963-6897				C
VIVAR				
BI: AAFRD (Lacombe), Dist: SeCan Members				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670				C
Beamish, Dale / Jarvie / (780) 954-3960			R	C
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Dueck, Ralph E. & Brent / Olds / (403) 556-2602				C
Mans, John / Nobleford / (403) 824-3585				C
McDonald, Grant / Didsbury / (403) 335-8188				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Thompson, M. Ellwood & K. / Innisfail / (403) 728-3535				C
Webber, Curtis / Stony Plain / (780) 963-6897				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
XENA				
BI: Western Plant Breeders, Dist: Viterra				
Juhar, John P. / Turin / (403) 738-4387				C
Moore, Dean W. / Innisfail / (403) 227-2865				C
Schmermund, Donnie / Calahoo / (780) 967-2850				C
Viterra / Regina / (306) 569-5027		F	R	C

CMBTC Recommended Malting Barley Varieties 2011-12

THESE recommendations are based on the varieties expected to be selected by grain and malting companies for both domestic and export markets from the 2011 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 selected in 2010.

RECOMMENDED TWO-ROW BARLEY VARIETIES

VARIETY	DOMESTIC	EXPORT	MARKET DEMAND
AC METCALFE[4]	ESTABLISHED	ESTABLISHED	STABLE DEMAND
CDC COPELAND[4]	ESTABLISHED	ESTABLISHED	STABLE DEMAND
NEWDALE[3]	LIMITED	LIMITED	STABLE DEMAND
CDC KENDALL[1]	ESTABLISHED	ESTABLISHED	DECLINING DEMAND
CDC POLARSTAR[5] **	LIMITED	LIMITED	INCREASING DEMAND

BENTLEY, CDC LANDIS, MAJOR, MERIT 57, NORMAN, CERVEZA AND CDC RESERVE ARE NOT YET BEING GROWN FOR THE COMMERCIAL MARKET. PRODUCTION IS LIMITED TO QUANTITIES REQUIRED FOR TESTING AND MARKET DEVELOPMENT. CDC MEREDITH REACHED CAPACITY FOR PLANT SCALE TESTING IN 2010. ** CDC POLARSTAR IS AVAILABLE ONLY THROUGH A CLOSED LOOP IDENTITY PRESERVED PROGRAM OFFERED BY PRAIRIE MALT LIMITED/SAPPORO BREWERIES AND THEIR AGENTS.

RECOMMENDED SIX-ROW BARLEY VARIETIES

VARIETY	DOMESTIC	EXPORT	MARKET DEMAND
LEGACY[1,2,3]	ESTABLISHED	ESTABLISHED	DECLINING DEMAND
TRADITION[1,2,3]	ESTABLISHED	ESTABLISHED	DECLINING DEMAND
STELLAR-ND[5]	LIMITED	LIMITED	INCREASING DEMAND

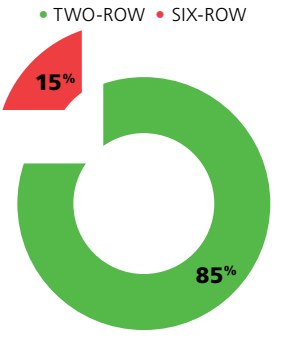
CELEBRATION, CDC CLYDE, CDC KAMSACK AND CDC MAYFAIR ARE NOT YET BEING GROWN FOR THE COMMERCIAL MARKET. PRODUCTION IS LIMITED TO QUANTITIES REQUIRED FOR TESTING AND MARKET DEVELOPMENT. PLEASE TALK TO LOCAL MALTING COMPANY SELECTOR IN REGARDS TO DEMAND FOR CDC BATTLEFORD, LACEY AND ROBUST.

"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. CMBTC Members: Alfred C. Toepfer (Canada) Ltd., Canadian Wheat Board, Canadian Grain Commission, Cargill AgHorizons, SABMiller, Richardson International, Parrish and Heimbecker, Prairie Malt Limited, the Public Barley Breeders, Rahr Malting Canada, SeCan, Manitoba Liquor Control Commission, Alberta Ag, Saskatchewan Ag, Manitoba Ag, Prairie West Terminal, FP Genetics and Viterra. Other organizations providing input to this list: BMBRI. The following companies have pedigreed seed distribution rights for those varieties that are footnoted: 1-Viterra; 2-BARI-Canada; 3-FP Genetics; 4-SeCan; 5-Canterra Seeds.

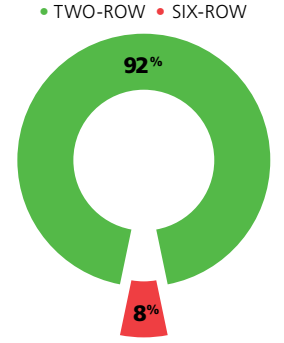
The CMBTC recommends the use of Certified seed to ensure varietal purity and to increase opportunity for selection.

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

VARIETIES SELECTED FOR EXPORT
(FIVE YEAR AVERAGE)
1,000,000 TONNES DELIVERED



VARIETIES SELECTED FOR DOMESTIC USE
(FIVE YEAR AVERAGE)
960,000 TONNES DELIVERED
365,000 TONNES TO DOMESTIC BREWERS



OATS

Yield Data	Overall Yield (1)		Yield by Test Yield Category								Resistance to:	
Variety	All Sites	Stn. Yrs of Testing	Low <70 bu/ac	Medium 70 to 100 bu/ac	High 100 to 130 bu/ac	Very High >130 bu/ac	Comp. Mat. Rating	Height cm	Te. Wt. lb/bu	Kn. Wt. g/1000	Ldg.	Smuts
CDC Dancer Avg bu/ac	**93**		**50**	**86**	**114**	**147**						
						YIELD AS % CDC DANCER						
						MILLING						
CDC Dancer	**100**	**(88)**	**100**	**100**	**100**	**100**	**E**	**91**	**41**	**37**	**G**	**VG**
AC Juniper	104+	(29)	104	102	103	108+	E	90	41	38	VG	F
AC Morgan	112+	(65)	113+	111+	111+	110+	M	90	40	40	VG	P
Bradley ▲	105+	(21)	XX	105	XX	XX	E	85	39	39	VG	VG
Cascade	101	(77)	104	100	102	99	E	95	39	36	G	VP
CDC Boyer	99	(26)	103	96	95-	99	M	99	39	48	G	VP
CDC Minstrel	102+	(41)	99	103	103	102	M	85	39	38	VG	VG
CDC Orrin	111+	(42)	113+	111+	109	XX	M	83	42	39	G	VG
CDC ProFi †	93-	(30)	98	96	XX	87-	M	80	38	41	G	P
CDC Weaver	105+	(33)	108+	105	XX	100	M	88	40	41	F	VG
Derby	101	(79)	108	101	97	99	L	103	41	39	G	P
Jordan	112+	(36)	112+	110+	118+	XX	VL	87	38	44	G	VG
Leggett	95-	(40)	98	95-	92	95	M	88	41	39	G	VG
Ronald	97-	(47)	98	95	98	95	M	84	42	36	VG	VG
SW Betania †	103	(32)	107	103	100	XX	E	86	39	38	G	VG
Triactor	109+	(41)	109	108+	111+	108+	M	87	38	39	G	G
						FEED						
*AC Mustang	114+	(102)	121+	111+	110+	112+	L	104	42	38	G	F
*Lu	99	(52)	100	97	103	99	VE	83	41	39	G	VG
						FORAGE						
*CDC Baler	97	(23)	93	XX	102	XX	L	99	40	43	XX	VP
*Murphy	97	(32)	95	98	106	XX	M	108	39	36	XX	VP

Remarks: The check variety is CDC Dancer. Use a higher seeding rate for large seeded varieties. OT3037, OT3039 and OT3044, insufficient data to describe. Yield is described by the following two methods. 1) All Station Yields: variety yields compared to CDC Dancer at a similar number of stations. To compare Triactor to CDC Dancer - Triactor is 109% of CDC Dancer at 41 stations where these varieties were grown together. 2) Yield by Test Category: Described as the % of CDC Dancer in bu/ac under low, medium, high and very high growing conditions. Varieties designated with a * have limited data compared to CDC Dancer - as a result, yields for these varieties have been adjusted to CDC Dancer from Cascade. Lodging & Disease Tolerance Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor. Maturity: Long term average for days to maturity for CDC Dance is 98 days and rated as E (early maturing). Maturity is described as VE (very early), E (early), M (medium), L (late) and VL (very late) in relation to CDC Dancer.

OATS

	S	F	R	C
AC JUNIPER				
BI: Viterra, Dist: Mastin Seeds				
Hadland, Edward & Lori / Baldonnel / (250) 789-3646		F		
Mastin, Robert B. / Sundre / (403) 556-2609		F		
Tolway, Wilfred / Clairmont / (780) 567-2422		F		
AC MORGAN				
BI: AAFC (Lacombe), Dist: SeCan Members				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670	S	F	R	
Blotski, John & Elizabeth / Edmonton / (780) 454-7277				
Bright, David / New Norway / (780) 855-2240			R	C
Graham, Lawrence W. / Innisfail / (403) 227-2336	S			
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268			R	
Hegland, David Olaf / Wembley / (780) 766-2450				C
Hirsekorn, Richard E. / Millet / (780) 387-4758			R	
Jonk, Nicholas / Westlock / (780) 349-5458			R	C
Kemp, Richard L. / Innisfail / (403) 227-4836				C
Klassen, Ken / Rosemary / (403) 378-4408				C
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240				C
Massey, Derwin / Stettler / (403) 883-2503				C
McDonald, Gerald / Grande Prairie / (780) 538-3868				C
Miller, Brian / Barrhead / (780) 674-5001				C
Richard, Gerald / Spirit River / (780) 864-4352			R	
Selte, Donald / Vermilion / (780) 853-2484				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322	S	F		
Tomlinson, Chelsea / Redwater / (780) 777-5885				C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617		F	R	
Webber, Curtis / Stony Plain / (780) 963-6897				C
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928				C

2010 Regional Variety Trials were conducted for oats at the sites indicated on the map above.

AC MURPHY					
BI: N/A, Dist: N/A					
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383				R	
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617			F	R	
Webber, Curtis / Stony Plain / (780) 963-6897					C
AC MUSTANG					
BI: AAFC (Lacombe), Dist: Mastin Seeds					
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464					C
Crop Production Services-Canada / Didsbury / (403) 335-9171					C
Dallas, Bradley C. / Bowden / (403) 224-2162					C
Fabian, Patrick V. / Tilley / (403) 377-2000					C
Gibson, Donald / Sangudo / (780) 785-2214				R	C
Hadland, Edward & Lori / Baldonnel / (250) 789-3646				R	C
Hallett, Dale R. / Carstairs / (403) 337-2469				R	
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268				R	
Jonk, Nicholas / Westlock / (780) 349-5458				R	
King, Harold F. / Three Hills / (403) 443-7330				R	
Kopjar, Gerald M. / Rowley / (403) 368-2409					C
Lyster, Norman / Stettler / (403) 742-4456				R	
Markert, T. Lee / Vulcan / (403) 485-6708					C
Mastin, Robert B. / Sundre / (403) 556-2609				R	C
Richard, Gerald / Spirit River / (780) 864-4352				R	
Schultz, Jason / Bashaw / (780) 372-2286				R	
Sim, Darwin & Derek / Ponoka / (780) 372-2111				R	
Tolway, Wilfred / Clairmont / (780) 567-2422				R	C
Wurz, John / Picture Butte / (403) 757-2330				R	
ATHABASCA					
BI: AAFC (Lacombe), Dist: SeCan Members					
Mastin, Robert B. / Sundre / (403) 556-2609					C
CDC BALER					
BI: CDC, Dist: FP Genetics					
Crop Production Services-Canada / Didsbury / (403) 335-9171				R	C
Fabian, Patrick V. / Tilley / (403) 377-2000					C
Kotowich, Paul / St.Paul / (780) 645-2535					C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251					C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				R	
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358				R	
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928	S	F			
CDC MINSTREL					
BI: CDC, Dist: N/A					
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268		F			
CDC SO-I					
BI: CDC, Dist: FP Genetics					
Gibson, Donald / Sangudo / (780) 785-2214				R	
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268					C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				R	
CDC WEAVER					
BI: CDC, Dist: FP Genetics					
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358		F			
FOOTHILL					
BI: N/A, Dist: N/A					
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383					C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617					C
JORDAN					
BI: AAFC (Winnipeg), Dist: SeCan Members					
Jones, Greg Thomas / Ponoka / (403) 783-6495				R	
Knight, William H. & G. & B. & C. & B. / Tees / (403) 784-3633					C
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788			F		
Penner, Larry / Three Hills / (403) 443-7212				R	
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358					C
LU					
BI: AAFC (Lacombe), Dist: SeCan Members					
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617			F		
SOURIS					
BI: N/A, Dist: N/A					
Jonk, Nicholas / Westlock / (780) 349-5458					C
TRIACTOR					
BI: SW Seed Ltd., Dist: Canterra Seeds					
Kapitski, Lawrence / Andrew / (780) 365-2134				R	
Laliberte, Adam / Fairview / (780) 835-3003					C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				R	C
Wuthrich, David / Cecil Lake / (250) 781-3527				R	C
WALDERN					
BI: AAFC (Lacombe), Dist: SeCan Members					
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338	S			R	
Richard, Gerald / Spirit River / (780) 864-4352				R	
Selte, Donald / Vermilion / (780) 853-2484				R	C

FALL RYE

Yield Data*	Overall Yield (% Prima)		Yield Test Category (% Prima)			
Variety	All Sites	Station Years of Testing	Low <48 bu/ac	Medium 48-80 bu/ac	High 80-112 bu/ac	Very High >112 bu/ac
Prima (bu/ac)	**80**		**36**	**60**	**93**	**139**
Prima	**100**	**(79)**	**100**	**100**	**100**	**100**
AC Remington	101	(31)	120	100	98	88-
AC Rifle	101	(79)	114	106	97	87-
Dakota	120+	(45)	120+	123+	116+	XX
Hazlet	119+	(22)	XX	128+	XX	106
Musketeer	91-	(40)	88-	92	93	93

	Agronomic Characteristics					Resistance to:	
Variety	Comp. Mat.	Hgt. (cm)	Test Wt. (lb/bu)	Seed Wt. (mg)	Winter Survival	Ldg.	Shat.
Prima	**E**	**119**	**58**	**33**	**EX**	**F**	**F**
AC Remington	M	97	57	30	EX	G	VG
AC Rifle	E	87	57	30	EX	VG	VG
Dakota	M	111	56	34	EX	F	--
Hazlet	M	105	58	39	EX	G	--
Musketeer	M	120	56	33	EX	F	F

REMARKS: Yield test categories are based on the individual site means for small plot trials. The provincial average maturity date for Prima is August 3 (215 days after January 1). AC Rifle and AC Remington are semi-dwarf varieties. Hazlet has lower viscosity which improves feed performance in monogastric livestock. No data for fall rye variety performance were collected in 2009 and 2010. XX = insufficient data to report. Ratings: VE = Very Early, E = Early, M = Medium, L = Late, VL = Very Late. EX = Excellent, VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

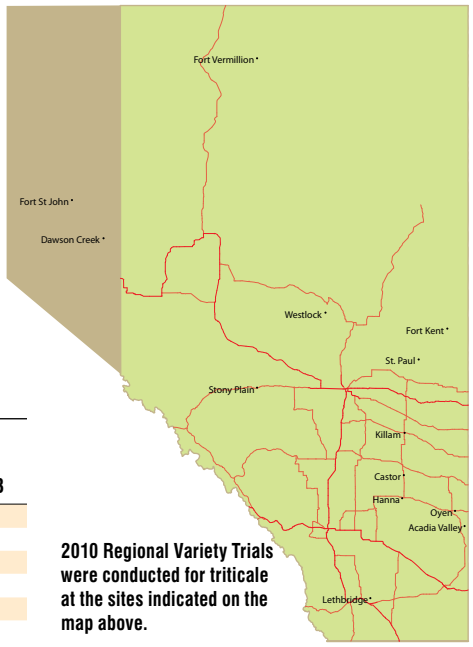
RYE

	S	F	R	C
AC REMINGTON				
BI: AAFC (Swift Current), Dist: Viterra				
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
HAZLET				
BI: AAFC (Swift Current), Dist: SeCan Members				
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383			R	
MUSKETEER				
BI: AAFC (Swift Current), Dist: SeCan Members				
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383				C
PRIMA				
BI: AAFC (Swift Current), Dist: SeCan				
Mueller, Darcy / Three Hills / (403) 820-4115			R	
Weigum, Garry / Three Hills / (403) 443-2476			R	

SPRING TRICITICALE

Variety	Overall Yield (1) All Sites	Overall Yield (1) Station Years of Testing	Test Yield Category (2) Low <60 bu/ac	Med 60 - 80 bu/ac	High 80 - 110 bu/ac	V. High >110 bu/ac
Pronghorn bu/ac	**88**		**45**	**72**	**96**	**132**
Pronghorn	100	(202)	100	100	100	100
AC Ultima	101	(141)	105	99	100	96-
Bumper	107	(24)	116+	XX	98	XX
Bunker	90-	(49)	92	88-	90-	89-
Companion	92-	(50)	101	90-	91	85-
Tyndal	101	(51)	108+	101	96	93-

Variety	Resistance to: Rel Mat.	Test Wt (lb/bu)	Kernel Wt (g/1000)	Plant Height (cm)	Ldg.	Shat.	Loose Smut	Bunt	Tolerance to: Sprout	FHB
Pronghorn	**M**	**55**	**43**	**101**	**G**	**G**	**VG**	**VG**	**F**	**G**
AC Ultima	E	56	45	96	G	G	VG	VG	F	F
Bumper	E	58	45	86	VG	G	XX	VG	F	P
Bunker	VL	57	48	107	F	G	VG	VG	F	F
Companion	M	55	51	116	XX	XX	VG	VG	XX	XX
Tyndal	L	57	44	96	G	G	VG	VG	P	P



2010 Regional Variety Trials were conducted for triticale at the sites indicated on the map above.

REMARKS: Remarks: All varieties are late maturing compared to CWRS wheat (approximately 5 days later). Companion is a forage type. Bunker, Taza and Tyndal are reduced-awn varieties. Pronghorn yields about 30% greater than AC Barrie CWRS wheat in areas of adaptation. XX: insufficient data. Taza (T198) - insufficient data to describe. Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor. Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to the check with similar stations years of testing. 2) Yield by Test Category is described as the % of Pronghorn in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than Pronghorn, yield followed by - is significantly lower than Pronghorn and yield without + or - is not significantly different than Pronghorn. Maturity: Long term average for days to maturity for Pronghorn is 112 days and rated as M (medium maturing). Maturity is described as VE (very early), E (early), M (medium), L (late) and VL (very late) in relation to Pronghorn.

WINTER TRITICALE

Variety	Overall Yield All Sites	Overall Yield Station Years of Testing	Agronomic Characteristics Mat. Rating	Ht. (cm)	Winter Survival	Resist to Ldg.	Test Wt. (lb/bu)	Seed Wt. (mg)
Pika (bu/ac)	73							
		(% Pika)						
Bobcat	94	(40)	VL	99	F	G	54	36
CDC Osprey	111 +	(28)	M	88	VG	G	64	32
Luoma	105	(14)	VL	118	VG	F	54	39
Metzger	102	(14)	L	107	VG	G	54	35
Pika	**100**	**(42)**	**L**	**119**	**VG**	**VP**	**54**	**38**

REMARKS: The provincial average maturity date for Pika is August 12 (224 days after January 1) or about a week later than winter wheat. 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 data for winter triticale were collected in 2009 and 2010. Fridge and High Octane are forage varieties for which data are not available. Ratings: VE = Very Early, E = Early, M = Medium, L = Late, VL = Very Late. VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

TRITICALE - SPRING

	S	F	R	C
AC ULTIMA				
BI: AAFC (Swift Current), Dist: FP Genetics				
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303		F		
BUMPER				
BI: N/A, Dist: N/A				
Kittle, James William & Andrew / Viking / (780) 336-2583	S			
BUNKER				
BI: AAFRD (Lacombe), Dist: FP Genetics				
Fabian, Patrick V. / Tilley / (403) 377-2000				C
Markert, Louise / Vulcan / (403) 485-6708			R	
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358				C
PRONGHORN				
BI: AARD Dist: Progressive Seeds				
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Lyster, Norman / Stettler / (403) 742-4456		F		
Mans, John / Nobleford / (403) 824-3585				C
Webber, Curtis / Stony Plain / (780) 963-6897				C
TYNDAL				
BI: N/A, Dist: N/A				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464		F		C
Jonk, Nicholas / Westlock / (780) 349-5458			R	

TRITICALE - WINTER

	S	F	R	C
FRIDGE				
BI: N/A, Dist: N/A				
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928				C
HY OCTANE				
BI: N/A, Dist: N/A				
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517		F		
LUOMA				
BI: N/A, Dist: N/A				
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464		F		
METZGER				
BI: N/A, Dist: N/A				
Helm, James, Dr. / Lacombe / (403) 782-8696		F		
PIKA				
BI: AFC, Dist: N/A				
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				C

AMBER DURUM WHEAT

Variety	Overall Yield (1) All Sites	Overall Yield (1) Station years of testing	Test Yield Category (2) Low <45 bu/ac	Test Yield Category (2) Med 45-75 bu/ac	Test Yield Category (2) High >75 bu/ac	Mat. Rating	Test. Wt.	Kn. Wt.	Ht.	Ldg.	Resistance To: Shat.	Resistance To: Loose Smut	Resistance To: Bunt	Resistance To: Stripe Rust	Resistance To: Leaf Spot	Tolerance to: Sprout	Tolerance to: FHB
	Yield as % of Strongfield						lb/bu	g/1000	cm								
Strongfield bu/ac	**62**		**34**	**61**	**91**												
Strongfield	**100**	**(82)**	**100**	**100**	**100**	**M**	**62**	**45**	**85**	**F**	**VG**	**VP**	**G**	**G**	**P**	**F**	**VP**
AC Avonlea	96-	(20)	XX	96	95	M	63	43	94	F	G	VP	VG	F	P	F	P
AC Morse	97-	(18)	XX	99	XX	E	60	45	89	F	G	VP	VG	F	VP	F	VP
AC Navigator	96-	(31)	XX	97	93-	M	63	45	79	G	G	VP	VG	F	VP	F	VP
Brigade	102	(33)	102	103	97	L	63	46	86	G	XX	P	G	G	F	F	P
CDC Verona ▲	98	(23)	96	100	97	M	62	45	75	G	XX	P	G	XX	P	F	P
Commander†	103	(39)	XX	106+	99	M	62	45	78	VG	VG	F	VG	F	P	F	VP
Enterprise ▲	101	(23)	104	98	100	M	63	42	76	G	XX	P	G	XX	G	F	P
Eurostar	101	(33)	99	102	100	L	64	46	86	G	XX	P	VG	G	F	F	P
Kyle	89-	(68)	91-	91-	84-	M	62	45	100	P	G	VP	VG	G	P	F	P

WHEAT - DURUM

	S	F	R	C
AC NAVIGATOR				
BI: AAFC (Swift Current), Dist: Viterra				
Viterra / Regina / (306) 569-5027		F	R	C
BRIGADE				
BI: AAFC (Swift Current), Dist: Viterra				
Viterra / Regina / (306) 569-5027	S			C
Willms, Kevin J. / Grassy Lake / (403) 655-2450			R	
CDC VERONA				
BI: CDC, Dist: Paterson Grain				
Fabian, Patrick V. / Tilley / (403) 377-2000			R	
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338			R	C
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	C
Mercer, Ryan / Lethbridge / (403) 327-9736	S			
Nikkel, Ed / Lethbridge / (403) 792-2116			R	
Van Roessel, William & Jean / Bow Island / (403) 545-6018			R	C
Wiens, David Paul / Lomond / (403) 739-3762			R	C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
Willms, Kevin J. / Grassy Lake / (403) 655-2450	S		R	C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395			C	
ENTERPRISE				
BI: N/A, Dist: N/A				
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736	S	F		
STRONGFIELD				
BI: AAFC (Swift Current), Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151				C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
Hierath, Michael W. & Philip / Milk River / (403) 647-2347			R	C
Strain, Arthur George / Foremost / (403) 867-2227				C
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
Welsh, Donald Alan / Milk River / (403) 647-2228				C
Willms, Kevin J. / Grassy Lake / (403) 655-2450	S	F	R	C

2010 Regional Variety Trials were conducted for durum at the sites indicated on the map above.

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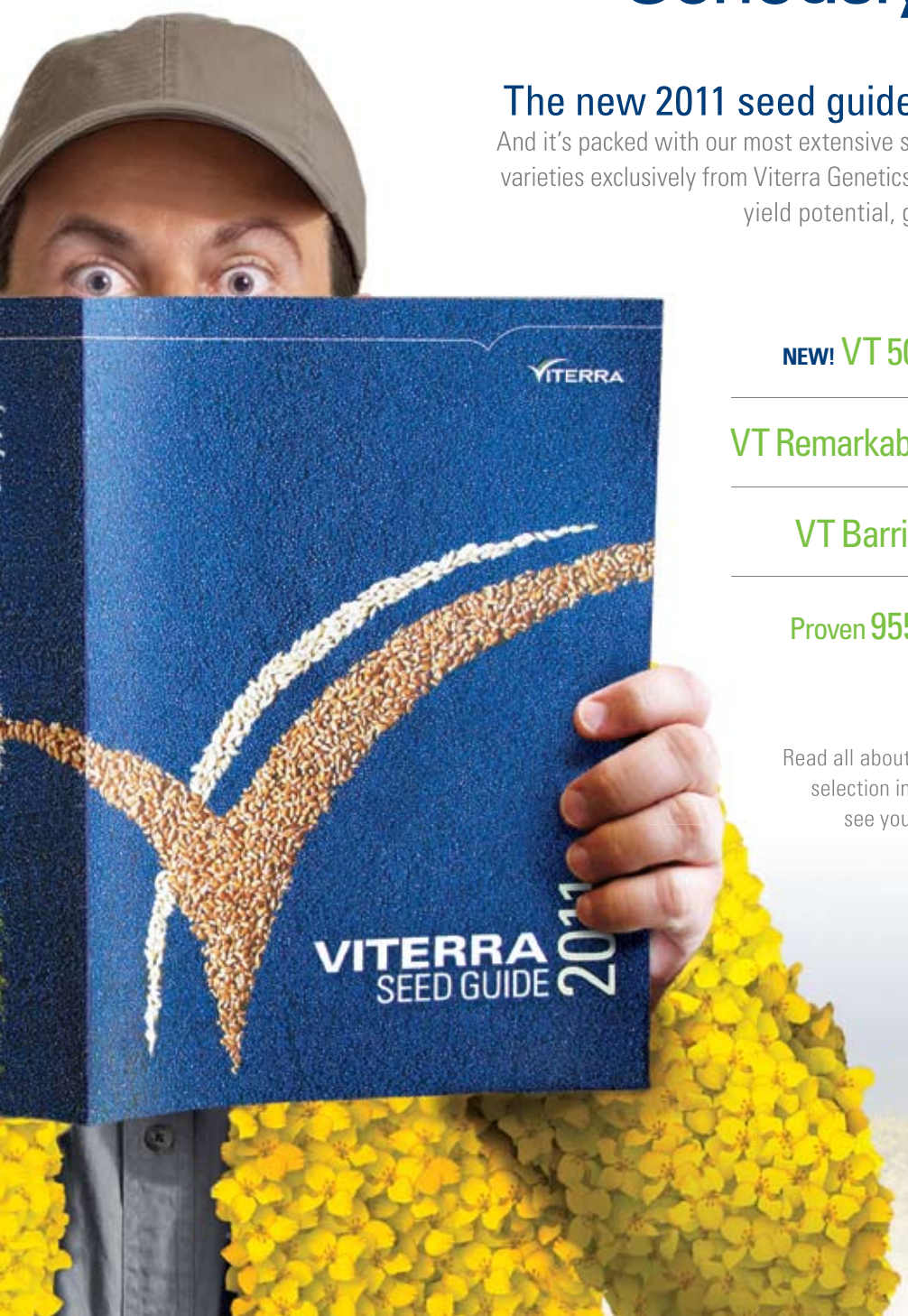

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NEW! VT 500	**Viterra's new hybrid with superior standability and excellent yield.**
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Proven 9553	**A leading variety offering high oil and strong yields.**

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PRAIRIE SPRING WHEAT

Variety	Overall Yield (1) All Sites	Overall Yield (1) Station years of testing	Test Yield Category (2) Low <45 bu/ac	Test Yield Category (2) Med 50-90 bu/ac	Test Yield Category (2) High >90 bu/ac	Comp. Mat.	Prot.	Test Wt.	Kn. Wt.	Ht.	Resistance To: Ldg.	Resistance To: Loose Smut	Resistance To: Bunt	Resistance To: Stripe Rust	Tolerance to: Leaf Spot	Tolerance to: Sprout	Tolerance to: FHB
	Yield as % of AC Taber					rating	%	lb/bu	g/1000	cm							
AC Taber bu/ac	**71**		**39**	**69**	**107**												
AC Taber	**100**	**(282)**	**100**	**100**	**100**	**L**	**12.3**	**62**	**42**	**79**	**G**	**P**	**VG**	**P**	**F**	**P**	**VP**
5700PR	102+	(115)	105+	101	102	M	0.4	62	42	75	VG	P	G	P	P	P	VP
5701PR	101	(91)	103	101	96-	M	0.4	60	43	77	G	F	F	G	P	P	VP
5702PR	101	(50)	113	99	97	M	0.4	61	40	78	G	P	F	F	F	F	P
AC Crystal	99	(204)	98	98	100	L	0.3	62	43	78	G	F	VG	P	F	P	VP
AC Foremost	98-	(122)	100	96-	99	M	XX	62	43	73	VG	F	VG	P	P	F	VP

REMARKS: Varieties with fair (F) or poor (P) ratings to loose smut or bunt require a systemic fungicide seed treatment. CPS varieties is more susceptible to take-all root rot than other wheat classes. AC Taber yields about 20 % higher than AC Barrie. AC Crystal, 5700PR and 5701PR have improved quality compared to AC Foremost and AC Taber. AC Vista and 5700PR are grown under contract with the CWB market development program. Conquer VB and CDC NRG003 - insufficient data to describe. Maturity: Long term average for days to maturity for AC Taber is 108 days and rated as M (medium maturing). Maturity is described as VE (very early), E (early), M (medium), L (late) and VL (very late) in relation to the check variety. Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor. Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to the check with similar stations years of testing. 2) Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check.

SOFT WHITE SPRING WHEAT

Variety	Overall Yield (1) All Sites	Overall Yield (1) Station years of testing	Test Yield Category (2) Low <55 bu/ac	Test Yield Category (2) Med 55-85 bu/ac	Test Yield Category (2) High >85 bu/ac	Comp. Mat.	Prot.	Test Wt.	Kn. Wt.	Ht.	Resistance To: Ldg.	Resistance To: Shat.	Resistance To: Loose Smut	Resistance To: Bunt	Resistance To: Stripe Rust	Tolerance to: Leaf Spot	Tolerance to: Sprout	Tolerance to: FHB
	Yield as % of AC Taber					rating	%	lb/bu	g/1000	cm								
AC Andrew bu/ac	**81**		**49**	**70**	**109**													
AC Andrew	**100**	**(102)**	**100**	**100**	**100**	**M**	**11.5**	**62**	**38**	**78**	**VG**	**VG**	**VP**	**P**	**G**	**G**	**F**	**VP**
AC Meena	97-	(51)	102	98	94-	L	-0.6	61	37	80	G	G	VP	VP	G	F	F	P
Bhishaj	100	(24)	XX	102	100	M	XX	62	37	85	VG	VG	G	VP	G	F	F	VP
Sadash	110+	(51)	120+	107+	108+	M	-0.4	63	39	82	VG	VG	VP	VP	VG	F	F	P

Remarks: Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to the check with similar stations years of testing. Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check. All soft white spring wheat varieties have a semi-dwarf stature and excellent straw strength. Seed should be treated with a systemic fungicide to control seed borne diseases. AC Andrew yields about 35% more than AC Barrie. XX: insufficient data. Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor.

EXTRA STRONG WHEAT

Variety	Overall Yield (1) All Sites	Overall Yield (1) Station years of testing	Test Yield Category (2) Low <45 bu/ac	Test Yield Category (2) Med 45-70 bu/ac	Test Yield Category (2) High >70 bu/ac	Comp. Mat.	Test Wt.	Kn. Wt.	Ht.	Resistance To: Ldg.	Resistance To: Shat.	Resistance To: Loose Smut	Resistance To: Bunt	Resistance To: Stripe Rust	Tolerance to: Leaf Spot	Tolerance to: Sprout	Tolerance to: FHB
	Yield as % of Amazon						lb/bu	g/1000	cm								
Amazon bu/ac	**58**		**38**	**67**	**95**												
Amazon	**100**	**(154)**	**100**	**100**	**100**	**L**	**61**	**46**	**97**	**G**	**G**	**VG**	**F**	**XX**	**F**	**P**	**P**
Bluesky	99	(59)	96	101	XX	E	61	44	96	F	G	XX	XX	XX	P	P	P
CDC Rama	108+	(60)	108+	108+	XX	L	63	48	98	F	G	VG	G	G	P	P	F
Laser	97	(59)	100	100	XX	E	61	39	88	VG	G	VG	VP	XX	P	F	P

REMARKS: Amazon yields approximately 10% more than Katepwa. CDC Bison, not enough data to describe. Long term average for days to maturity for Amazon is 110 days and rated as M (medium maturing). Maturity is described as VE (very early), E (early), M (medium), L (late) and VL (very late) in relation to the check variety. Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor. CWES varieties have limited market potential at present and growers are advised to contact the Canadian Wheat Board. Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to the check with similar stations years of testing. 2) Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check.

GENERAL PURPOSE WHEAT

Variety	Overall Yield (1) All Sites	Overall Yield (1) Station years of testing	Test Yield Category (2) Low <50 bu/ac	Test Yield Category (2) Med 50-90 bu/ac	Test Yield Category (2) High >90 bu/ac	Comp. Mat.	Prot.	Test Wt.	Kn. Wt.	Ht.	Resistance To: Ldg.	Resistance To: Shat.	Resistance To: Loose Smut	Resistance To: Bunt	Resistance To: Stripe Rust	Tolerance to: Leaf Spot	Tolerance to: Sprout	Tolerance to: FHB
	Yield as % of Amazon					rating	%	lb/bu	g/1000	cm								
AC Taber bu/ac	**71**		**39**	**69**	**107**													
AC Taber	**100**	**(282)**	**100**	**100**	**100**	**L**	**12.3**	**62**	**42**	**79**	**G**	**VG**	**P**	**VG**	**P**	**F**	**P**	**VP**
Minnedosa	105	(30)	XX	107	XX	L	XX	61	43	80	G	XX	F	G	XX	P	G	P
NRG010▲	114+	(28)	XX	109+	107	M	XX	61	41	80	G	VG	VG	VG	XX	P	XX	VP

REMARKS: Varieties with fair (F) or poor (P) ratings to loose smut or bunt require a systemic fungicide seed treatment. AC Taber yields about 20 % higher than AC Barrie. Conquer VB and CDC NRG003 - insufficient data to describe. Maturity: Long term average for days to maturity for AC Taber is 108 days and rated as M (medium maturing). Maturity is described as VE (very early), E (early), M (medium), L (late) and VL (very late) in relation to the check variety. Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor. Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to the check with similar stations years of testing. 2) Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check.

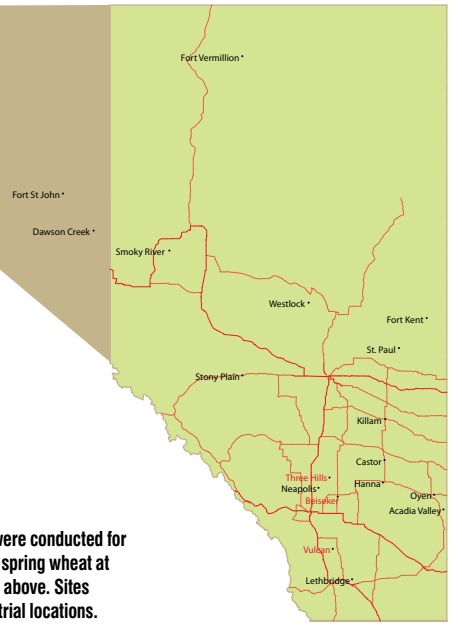
SPRING WHEAT

	Overall Yield (1)		Test Yield Category (2)								Resistance to:				Tolerance to:		
	All Sites	Station years of testing	Low < 45 bu/ac	Med 45 - 70 bu/ac	High >70 bu/ac	Mat. Rating	Prot.	Test Wt.	Kn. Wt.	Ht.	Ldg.	Loose Smut	Bunt	Stripe Rust	Leaf Spot	Sprout	FHB
	Yield as % of AC Barrie						%	lb/bu	g/1000	cm							
AC Barrie bu/ac	**59**		**36**	**57**	**82**												
AC Barrie	**100**	**(340)**	**100**	**100**	**100**	**M**	**14.3**	**63**	**37**	**88**	**G**	**G**	**F**	**P**	**P**	**G**	**F**
5602HR	105+	(80)	103	105+	104+	M	0.5	63	37	91	G	VG	G	G	F	F	G
5603HR	105+	(50)	103	107+	104	M	-0.3	63	34	87	G	G	G	P	F	XX	F
AC Cadillac	96-	(103)	97	98	94-	M	0.2	64	39	98	F	VG	VG	F	F	F	F
AC Eatonia	94-	(78)	98	96	88-	M	-0.1	62	35	92	P	F	G	G	P	G	X
AC Elsa	103+	(110)	104	106+	100	M	-0.4	62	35	89	G	G	F	F	G	F	P
AC Intrepid	102	(107)	103	104	99	E	-0.5	62	39	90	G	F	G	F	F	P	P
AC Splendor	95-	(149)	96	96-	94-	VE	0.4	61	37	89	F	F	F	F	F	F	P
Alikat	96-	(70)	100	94-	94-	E	-0.4	63	36	87	F	G	XX	VP	P	F	F
Alvena	101	(66)	100	102	100	E	0.3	63	37	90	G	G	G	G	XX	F	P
5604HR CL	99	(32)	100	99	96	M	-0.2	63	34	84	G	P	F	XX	P	G	F
Carberry ▲	101	(32)	108	99	98	M	0.1	63	38	77	VG	G	G	G	P	F	G
CDC Kernen ▲	104+	(32)	107	102	105	M	0.1	63	38	90	G	VG	F	XX	F	F	F
CDC Abound	110+	(82)	110+	111+	108+	M	0.0	63	40	82	G	F	F	F	P	G	P
CDC Alsask	107+	(98)	107+	108+	105+	M	0.1	62	36	91	F	G	G	F	P	F	P
CDC Bounty	104+	(65)	107	104	101	M	-0.4	64	37	94	F	G	F	F	P	F	F
CDC Go	110+	(84)	106	113+	110+	M	0.1	61	42	82	G	P	G	F	P	P	P
CDC Imagine	104+	(76)	104	104	105	M	-0.2	61	37	83	G	G	G	P	P	F	VP
CDC Osler	106+	(68)	107	106+	103	E	0.0	61	35	84	G	G	G	G	F	F	VP
CDC Stanley ▲	107+	(32)	108	108+	105	M	-0.3	62	33	82	G	G	VP	XX	F	VG	P
CDC Teal	100	(84)	99	103	97	E	-0.2	62	36	89	G	F	F	G	P	P	VP
CDC Thrive ▲	106+	(32)	110	106	104	E	0.1	62	36	85	G	G	F	XX	F	P	P
CDC Utmost VB ▲	107+	(32)	107	108	107	M	0.2	62	36	83	G	P	VP	XX	F	G	P
Fieldstar VB	102	(50)	102	103	102	M	-0.3	63	33	88	F	F	G	F	XX	G	F
Glenn	98	(32)	104	96	98	L	0.3	64	37	82	VG	F	F	XX	F	F	F
Goodeve VB	103	(67)	105+	103	100	E	0.1	62	37	87	VG	G	P	G	P	G	VP
Harvest	102	(110)	99	103+	101	M	0.0	62	36	83	VG	G	F	F	P	VG	VP
Infinity	104+	(68)	107+	102	102	M	-0.3	62	33	88	G	G	F	P	P	G	VP
Journey	99	(69)	98	99	99	M	0.6	62	36	83	VG	F	G	F	P	G	P
Kane	99	(51)	96-	100	100	M	0.1	64	36	85	G	P	F	G	F	VG	F
Katepwa	98-	(284)	100	99	96-	M	-0.3	61	35	92	F	G	G	P	P	F	F
Lillian	103	(80)	107	102	100	M	-0.1	61	37	86	G	F	G	G	P	G	VP
Lovitt	97	(37)	98	97	98	M	-0.3	62	35	89	G	G	F	P	XX	VG	VP
McKenzie	103+	(104)	107+	103	101	M	-0.9	62	34	90	F	P	VG	P	F	VG	F
Muchmore ▲	104	(32)	110+	102	101	M	-0.3	62	37	72	VG	G	G	XX	P	F	P
Park	97	(45)	93	99	96	VE	0.0	62	35	92	F	G	XX	P	P	G	VP
Peace	100	(53)	101	100	99	M	0.2	63	37	92	G	VG	VG	G	XX	P	VP
Prodigy †	104+	(84)	106+	105+	100	M	0.3	63	35	94	G	F	G	F	P	F	VP
Roblin	95-	(82)	96	98	91-	VE	0.1	62	36	87	G	G	VP	F	VP	F	VP
Shaw VB	107+	(32)	109+	106+	106+	M	-0.2	63	37	89	G	P	G	XX	P	G	P
Somerset	100	(50)	102	100	97	M	-0.2	62	36	97	G	VG	F	P	P	F	P
Stettler	109+	(50)	115+	107+	105	M	0.1	63	37	83	G	G	G	G	P	G	P
Superb	112+	(173)	112+	112+	111+	M	-0.1	62	42	84	G	F	G	P	P	G	P
Unity VB	107+	(50)	108+	109+	105+	M	-0.3	64	36	88	F	P	VG	P	P	G	P
BW878	103	(50)	106+	103	102	M	-0.1	63	35	79	G	VG	VG	XX	P	G	G
Waskada	100	(67)	102	99	101	M	0.1	64	37	92	G	G	G	G	P	G	G
C.W. HARD WHITE SPRING WHEAT																	
Kanata †	90-	(45)	92-	89-	91	E	0.2	60	33	82	G	F	P	F	P	G	F
Snowbird	101	(87)	100	102	98	M	-0.4	62	36	88	G	G	F	F	P	G	P
Snowstar	101	(52)	101	102	99	M	-0.9	64	30	83	XX	P	P	P	F	F	P

REMARKS: AC Eatonia and Lillian - adapted to sawfly areas. Varieties having a rating of fair (F) or poor (P) to loose smut or bunt require a systemic fungicide seed treatment. C.W. Red Spring Wheat grown under irrigation tends to have lower grades. Alikat - special adaptation to acid soils. CDC Imagine, CDC Abound, WR859CL, CDC Thrive are Clearfield tolerant. Maturity: Long term average for days to maturity for AC Barrie is 106 days and rated as M (medium maturing). Maturity is described as VE (very early), E (early), M (medium), L (late) and VL (very late) in relation to the check variety. Ratings: VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor. Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to the check with similar stations years of testing. 2) Yield by Test Category is described as the % of the check variety in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than the check, yield followed by - is significantly lower than the check and yield without + or - is not significantly different than the check.

WHEAT - SPRING

	S	F	R	C
5700PR				
BI: Viterra, Dist: Viterra				
Enns, David / Vauxhall / (403) 654-2780				C
Moore, Dean W. / Innisfail / (403) 227-2865			R	C
Schmermund, Donnie / Calahoo / (780) 967-2850				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				C
Viterra / Regina / (306) 569-5027	S	F	R	C
5702PR				
BI: Syngenta Seeds Canada, Dist: Viterra				
Viterra / Regina / (306) 569-5027	S	F	R	C
AC ANDREW				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383				C
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
AC BARRIE				
BI: AAFC (Swift Current), Dist: SeCan Members				
Baier, Bill, Joy & Dean / Clyde / (780) 348-5791			R	
AC CRYSTAL				
BI: AAFC (Swift Current), Dist: SeCan Members				
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303				C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456				C
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321		F		C
Pare, Raymond A. / Wainwright / (780) 842-2073		F		C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
AC EATONIA				
BI: Viterra, Dist: Viterra				
Strain, Arthur George / Foremost / (403) 867-2227			R	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	C
Willms, Kevin J. / Grassy Lake / (403) 655-2450	S		R	
AC ELSA				
BI: AAFC (Swift Current), Dist: SeCan Members				
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617			R	
AC FOREMOST				
BI: AAFC (Swift Current), Dist: SeCan Members				
Anderson, Ken & Evelyn / Barrhead / (780) 674-5670				C
Beamish, Dale / Jarvie / (780) 954-3960			R	C
Bowe, Reg J. / Innisfail / (403) 227-2184				C
Bright, David / New Norway / (780) 855-2240				C
Clark, Todd / Edmonton / (780) 472-6308				C
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	C
Cyre, Clifford & Greg / Barrhead / (780) 349-4775			R	C
Dallas, Bradley C. / Bowden / (403) 224-2162				C
Ellis, Brian / Olds / (403) 556-2890				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929				C
Laliberte, Adam / Fairview / (780) 835-3003				C



2010 Regional Variety Trials were conducted for soft white wheat and hard red spring wheat at the sites indicated on the map above. Sites indicated in red are HRS only trial locations.

Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240				C
Meinczinger, Matthew Jr. / Busby / (780) 349-2456			R	
Nisbet, Andrew E. & Diane E. / Bowden / (403) 224-3788		F	R	C
Radke, Bryan Victor / Barrhead / (780) 674-5715			R	C
Smith, Gary W. / Eckville / (403) 746-5878				C
Thompson, M. Ellwood & K. / Innisfail / (403) 728-3535				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928				C
AC INTREPID				
BI: AAFC (Swift Current), Dist: Canterra Seeds				
Cyre, Clifford & Greg / Barrhead / (780) 349-4775		F	R	
Kaun, Mark L. / Penhold / (403) 886-4562				C
AC MEENA				
BI: AAFC (Lethbridge), Dist: Haney Farms				
Murdoch, Jody / Cranbrook / (250) 919-1074				C
Saari, Sue / Cranbrook / (250) 421-0874				C
AC SPLENDOR				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251			R	
ALIKAT				
BI: U of Alberta (Edmonton), Dist: N/A				
Wuthrich, David / Cecil Lake / (250) 781-3527				C
ALVENA				
BI: Semiarid Prairie Agricultural Research Centre, Dist: SeCan Members				
Knight, William H. & G. & B. & C. & B. / Tees / (403) 784-3633				C

The Farm King Grain Vac is an efficient way to transport grain from bin to truck, bin to bin, storage shed to truck and basic bin cleanup. The high vacuum suction carries the crop on a pillow of air and aids in cleaning out trash particles as the crop goes through the grain vac. The versatility of the grain vac hoses and cleanup wands allow the operator to access hard-to-reach areas for superior cleaning. The optional self-contained hydraulics allow the grain vac to be fully operational without using the hydraulic ports of the tractor.

Farm King

Airlock

Blower

Camlock Couplers

New for 2010 - Model 6644 is equipped with a 130 hp Cummins engine.

Laliberte, Adam / Fairview / (780) 835-3003				C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500			R	
McDonald, Gerald / Grande Prairie / (780) 538-3868				C
Oatway, Ward / Lacombe / (403) 784-3418				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322	S	F		
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107			R	
Webber, John D.J. / Berwyn / (780) 338-3657			R	C
CARBERRY				
BI: N/A, Dist: SeCan Members				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151		F	R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	
Hoff, Peter Edward / Gleichen / (403) 734-2140			R	
Huvenaars, John & Lisa / Hays / (403) 725-2126		F		
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736				C
Peters, Edward W. / Didsbury / (403) 335-4506			R	
Stamp, Richard & Marian & G. / Enchant / (403) 739-2233			R	
Strain, Arthur George / Foremost / (403) 867-2227	S		R	
Van Roessel, William & Jean / Bow Island / (403) 545-6018		F		
Viterra / Regina / (306) 569-5027			R	
CDC ABOUND				
BI: CDC, Dist: N/A				
Krywko, Edward William / Morinville / (780) 939-2166				C
Viterra / Regina / (306) 569-5027			R	C
CDC ALSASK				
BI: CDC, Dist: Viterra				
Viterra / Regina / (306) 569-5027		F	R	C
CDC GO				
BI: CDC, Dist: Public				
Blotski, John & Elizabeth / Edmonton / (780) 454-7277		F		
Boles, Don / Three Hills / (403) 443-0123			C	
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	C
Clark, Todd / Edmonton / (780) 472-6308				C
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151			R	C
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Dyck, Heinz W. & Colin & Alan / Rosemary / (403) 378-3321		F	R	C
Eliason, Bruce W. / Wrentham / (403) 222-3755				C
Ellis, Brian / Olds / (403) 556-2890				C
Feenstra, Lloyd / Barons / (403) 757-3737				C
Goldstrom, David / Innisfail / (403) 227-2133				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	C
Hoff, Peter Edward / Gleichen / (403) 734-2140				C
Jensen, Albert / Drumheller / (403) 823-9976				C
Kaun, David E. / Penhold / (403) 886-4562			R	
Kemp, Richard L. / Innisfail / (403) 227-4836				C
King, Harold F. / Three Hills / (403) 443-7330				C
Kopjar, Gerald M. / Rowley / (403) 368-2409				C
Limoges, Marcel / McLennan / (780) 324-3024			R	
Lyster, Norman / Stettler / (403) 742-4456		F	R	
Macfarquhar, Bill / Cremona / (403) 337-2910				C
Markert, Louise / Vulcan / (403) 485-6708		F		
Markert, T. Lee / Vulcan / (403) 485-6708				C
Massey, Derwin / Stettler / (403) 883-2503				C
Mastin, Robert B. / Sundre / (403) 556-2609		F	R	
Metzger, Don / Three Hills / (403) 572-3284			R	C
Murray, Bruce / Lethbridge / (403) 327-9389	S	F	R	C
Nikkel, John Jr. / Coaldale / (403) 345-4963			R	C
Nisbet, Herbert Rex / Bowden / (403) 224-3990			R	C
Penner, Larry / Three Hills / (403) 443-7212				C
Richard, Gerald / Spirit River / (780) 864-4352			R	
Schmermund, Donnie / Calahoo / (780) 967-2850				C
Sich, Louis John & Ivan / Trochu / (403) 442-2112			R	C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Templeton, Doran / Lethbridge / (403) 345-4144				C
Vipond, Gene / Dawson Creek / (250) 782-5561				C
Weigum, Garry / Three Hills / (403) 443-2476				C
CDC IMAGINE				
BI: CDC, Dist: Viterra				
Viterra / Regina / (306) 569-5027			R	C
CDC NRG003				
BI: N/A, Dist: N/A				
Laliberte, Adam / Fairview / (780) 835-3003			R	
CDC OSLER				
BI: CDC, Dist: Public				
Hill, Gordon P. / Taylor / (250) 789-3469				C
CDC STANLEY				
BI: N/A, Dist: N/A				
Viterra / Regina / (306) 569-5027	S	F		
GLENN				
BI: NDSU Research Foundation, Dist: Canterra Seeds				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
King, Harold F. / Three Hills / (403) 443-7330				C
Logan, Glenn C. & Marie & D. / Lomond / (403) 792-3696				C
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322				C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C
HARVEST				
BI: AAFC (Winnipeg), Dist: FP Genetics				
Andersen, Ed. A. & N.A. & K. & B.W. & J. / Kitscoty / (780) 847-2586				C
Andrukow, Allan / Viking / (780) 385-6402				C
Appleby, Kenneth Arthur / Tofield / (780) 662-3583				C
Benci, Dennis / Carmangay / (403) 643-2294				C
Cameron, Danny / Millet / (780) 387-5313				C
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303				C
Dalton, Dennis / Wainwright / (780) 842-2361		F	R	C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F	R	C
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268				C
Kapitski, Lawrence / Andrew / (780) 365-2134				C
King, Harold F. / Three Hills / (403) 443-7330				C
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240			R	C
Markert, Ron / Vulcan / (403) 485-6708			R	C
Massey, Derwin / Stettler / (403) 883-2503				C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358			R	C
Tomlinson, Chelsea / Redwater / (780) 777-5885				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			R	
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928	S	F	R	C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Dry and liquid tank systems
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Zwack, Thomas / Daysland / (780) 374-2450				C
INFINITY				
BI: AAFC (Swift Current), Dist: Canterra Seeds				
Hegland, David Olaf / Wembley / (780) 766-2450				C
KANE				
BI: Cereal Research Centre, Dist: SeCan Members				
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303			R	
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Kopjar, Gerald M. / Rowley / (403) 368-2409		F		C
Lopushinsky, Julian / Bruderheim / (780) 796-2048				C
Oatway, Lori / Lacombe / (403) 784-3418				C
Pare, Raymond A. / Wainwright / (780) 842-2073		F		C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
LILLIAN				
BI: AAFC (Swift Current), Dist: SeCan Members				
Benci, Dennis / Carmangay / (403) 643-2294				C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151				C
Hierath, Michael W. & Philip / Milk River / (403) 647-2347			R	C
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				C
Markert, Ron / Vulcan / (403) 485-6708			R	
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	
Welsh, Donald Alan / Milk River / (403) 647-2228			R	
Willms, Kevin J. / Grassy Lake / (403) 655-2450	S		R	C
MINNEDOSA				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	
NRG010				
BI: N/A, Dist: N/A				
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322		F		
PEACE				
BI: AAFC (Winnipeg), Dist: Canterra Seeds				
Wuthrich, David / Cecil Lake / (250) 781-3527				C
SADASH				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151			R	
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456				C

Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
Huvenaars, John & Lisa / Hays / (403) 725-2126				C
Jackson, Thomas / Killam / (780) 385-2332		F		C
Klassen, Ken / Rosemary / (403) 378-4408				C
Templeton, Doran / Lethbridge / (403) 345-4144			R	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
Wood, Robert & Patricia & M. / Bowden / (403) 224-3928			R	C
SNOWBIRD				
BI: AAFC (Winnipeg), Dist: FP Genetics				
Cameron, Danny / Millet / (780) 387-5313				C
Dalton, Dennis / Wainwright / (780) 842-2361			R	
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F		C
Kapitski, Lawrence / Andrew / (780) 365-2134				C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500			R	
Massey, Derwin / Stettler / (403) 883-2503				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253			R	C
SNOWSTAR				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Benci, Dennis / Carmangay / (403) 643-2294		F		C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517				C
STETTLER				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Baier, Bill, Joy & Dean / Clyde / (780) 348-5791	S	F		C
Benci, Dennis / Carmangay / (403) 643-2294		F		C
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Crooymans, Tony, John, J. & A. / Bow Island / (403) 545-2151			R	
Crop Production Services-Canada / Didsbury / (403) 335-9171			R	C
Cyre, Clifford & Greg / Barrhead / (780) 349-4775		F	R	
Dechaine, Louis / St. Lina / (780) 635-2235				C
Fabian, Patrick V. / Tilley / (403) 377-2000				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929		F		
Hoff, Peter Edward / Gleichen / (403) 734-2140		F		C
Huvenaars, John & Lisa / Hays / (403) 725-2126		F		C
Kittle, James William & Andrew / Viking / (780) 336-2583		F		C
Klassen, Ken / Rosemary / (403) 378-4408			R	C
Kopjar, Gerald M. / Rowley / (403) 368-2409				C
Lopushinsky, Julian / Bruderheim / (780) 796-2048				C
Markert, Ron / Vulcan / (403) 485-6708				C
McDonald, Gerald / Grande Prairie / (780) 538-3868				C
Nemetz, Larry J. / Stettler / (403) 742-6882			R	
Oatway, Ward / Lacombe / (403) 784-3418		F		C
Penner, Larry / Three Hills / (403) 443-7212				C
Peters, Edward W. / Didsbury / (403) 335-4506			R	
Plante, Jacques / St. Paul / (780) 645-4604				C
Sendziak, Don P & Stephen / Edmonton / (780) 434-1322				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
Trueblood, Brian G. / Dapp / (780) 954-3745	S			C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
Wagner, Terry & Loree / Lacombe / (403) 782-2107				C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617			R	
Weigum, Garry / Three Hills / (403) 443-2476				C
Zwack, Thomas / Daysland / (780) 374-2450				C
SUPERB				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Archer, Charles Darrel / Wetaskiwin / (780) 352-3179				C
Baier, Bill, Joy & Dean / Clyde / (780) 348-5791			R	
Clark, Todd / Edmonton / (780) 472-6308			R	
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456				C
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383				C
Fabian, Patrick V. / Tilley / (403) 377-2000				C
Foster, Norman R. / Beaverlodge / (780) 354-2107				C
Holmen, Wallace P. & Carson R. / Rosedale / (403) 823-9296				C
Huvenaars, John & Lisa / Hays / (403) 725-2126				C
Jackson, Thomas / Killam / (780) 385-2332				C
Jones, Danny / Beaverlodge / (780) 354-8089			R	C
Kittle, James William & Andrew / Viking / (780) 336-2583				C
Knight, William H. & G. & B. & C. & B. / Tees / (403) 784-3633				C
Miller, Brian / Barrhead / (780) 674-5001				C
Pare, Raymond A. / Wainwright / (780) 842-2073				C
Strain, Arthur George / Foremost / (403) 867-2227				C
Trueblood, Brian G. / Dapp / (780) 954-3745		F		

	S	F	R	C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
VESPER				
BI: N/A, Dist: N/A				
Pare, Raymond A. / Wainwright / (780) 842-2073	S			
WASKADA				
BI: AAFC (Winnipeg), Dist: SeCan Members				
Benci, Dennis / Carmangay / (403) 643-2294				C
Degenhardt, Keith L., T.L. & K. / Hughenden / (780) 856-2383				C
King, Harold F. / Three Hills / (403) 443-7330			R	
WR859 CL				
BI: N/A, Dist: N/A				
Syngenta Seeds Canada, Inc. / Cottam / (519) 839-4851		F	R	

WHEAT - MIDGE TOLERANT

	S	F	R	C
CDC UTMOST VB				
Dalton, Dennis / Wainwright / (780) 842-2361				
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				
Markert, Ron / Vulcan / (403) 485-6708				
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				
Sim, Darwin & Derek / Ponoka / (780) 372-2111				
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				
FIELDSTAR VB				
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929		F		
Mueller, Darcy / Three Hills / (403) 823-9788				
GOODEVE VB				
Harbin, Clifford T. & Bruce Clifford / Rivercourse / (780) 745-2268				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500				
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				
Solick, Leonard & Kelsey & Corwin / Halkirk / (403) 884-2358				
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				
SHAW-VB				
BI: N/A, Dist: N/A				
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617				
UNITY VB				
Dallas, Bradley C. / Bowden / (403) 224-2162				
Dow, Willard & Dale / Rivercourse / (306) 387-6767				
Hoff, Peter Edward / Gleichen / (403) 734-2140				
Holmstrom, Darrell & Barbara / Killam / (780) 385-3574				
Jacula, Dean S. & Shawn D. / Vermilion / (780) 853-7333				
King, Harold F / Three Hills / (403) 443-7330				
Lindholm, Craig, & Stevan & Dane / New Norway / (780) 352-3240				
Markert, Ron / Vulcan / (403) 485-6708				
Pare, Raymond A. / Wainwright / (780) 842-2073				C
Shultz, Shawn / Didsbury / (403) 335-3694				
Warkentin, Harold Kenneth & Errol / Tofield / (780) 662-2617				

WINTER WHEAT

Variety	Overall Yield: All Sites	Overall Yield: Station years of testing	Test Yield Category: Low <45 bu/ac	Test Yield Category: Med 45-75 bu/ac	Test Yield Category: High 75-105 bu/ac	Test Yield Category: Very High >105 bu/ac	Comp. Mat.	Prot.	Ht.	Test Wt	Seed Wt.	Wint. Surv.	Krnl Hard. & Col.	Resistance To: Ldg.	Shat.	Bunt	Stripe Rust	Leaf Spot	Stem Rust	FHB
	Yield as % of CDC Osprey						rating	%	cm	lb/bu	mg									
C.W. Red Winter "Select"																				
CDC Osprey (bu/ac)	**76**		**35**	**62**	**86**	**118**	**117**													
CDC OSPREY	**100**	**(194)**	**100**	**100**	**100**	**100**	**M**	**12.3**	**88**	**63**	**32**	**VG**	**HR**	**G**	**G**	**VP**	**XX**	**P**	**P**	**P**
AC Bellatrix	103 +	(159)	110 +	102	101	101	L	+0.3	87	64	36	F	HR	G	G	F	VP	VP	VP	F
AC Readymade	96 -	(83)	99	96 -	95 -	97	VL	+1.7	89	63	37	P	HR	VG	F	P	XX	VP	VP	XX
AC Tempest	98	(132)	100	96 -	99	98	VL	+1.5	88	64	38	P	HR	VG	G	P	XX	VP	VP	F
CDC Buteo	98	(85)	102	97	98	101	M	+0.2	87	65	34	VG	HR	F	G	VP	P	G	G	G
McClintock	96 -	(78)	89	97	95	100	L	0.0	90	64	32	F	HR	VG	G	VP	G	G	VG	VP
Norstar	95 -	(131)	103	96 -	92 -	88 -	L	-0.1	106	64	34	VG	HR	VP	G	VP	XX	VP	VP	G
Radiant	102 +	(129)	104	100	105 +	100	L	-0.1	86	63	36	VG	HR	VG	G	P	F	VP	VP	VP
C. W. Red Winter "Generic"																				
CDC CLAIR	103 +	(125)	103	103+	104	105+	M	-0.4	87	63	34	VG	HR	F	G	VP	XX	P	P	XX
CDC Falcon	102	(135)	93	102	102	103	E	-0.5	73	63	31	F	HR	VG	G	VP	XX	G	G	VP
CDC Harrier	106 +	(120)	108	106+	106+	104	M	-1.1	92	62	32	G	HR	G	G	VP	XX	P	G	P
CDC Kestrel	104 +	(108)	106	104	105+	102	M	-1.4	92	62	33	VG	HR	G	G	VP	XX	P	P	XX
CDC Raptor	101	(95)	96	102	102	98	M	-0.4	80	63	30	G	HR	VG	G	VP	XX	G	VG	XX
C.W. General Purpose																				
Accipiter	108+	(21)	XX	XX	110+	105+	M	-0.1	81	64	30	G	HR	VG	G	VP	XX	G	VG	VP
Broadview	105+	(35)	XX	104	105	XX	E	-0.8	77	63	33	G	HR	G	G	VP	XX	VG	VG	VP
CDC Ptarmigan	113+	(53)	XX	113 +	113+	111+	L	-2.0	89	61	34	G	SW	F	G	VP	XX	P	P	XX
Peregrine	106 +	(22)	XX	XX	106+	105	M	-0.3	93	65	34	VG	HR	F	G	VP	G	VG	VG	P
Sunrise	110+	(14)	XX	XX	111+	XX	M	-0.6	87	62	33	G	SR	G	G	VP	G	G	G	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. Yield figures are from trials with good winter survival. Yield Test Categories are based on the individual site means for small plot trials. Note that small plot yields are often 10-15% higher than field scale results. All comparisons are relative to CDC OSPREY, the current standard check variety. The provincial average maturity date for CDC OSPREY is August 7 (219 days after January 1). Radiant has resistance to the wheat curl mite, the vector that carries Wheat Streak Mosaic Virus. AC Bellatrix is the only variety with resistance to common bunt; other varieties should be treated with a systemic seed treatment to reduce the potential for plant infection. Fields in southern Alberta should be inspected in the fall for infestation by Russian wheat aphid, as it may reduce winter survival. Winter wheat will normally escape Fusarium head blight infection if seeded before September 15. CWRW Select varieties receive price and protein premiums under a CWB identity preserved contract program. For details see http://www.cwb.ca. Winter wheat is a good feedstock for ethanol production. Note that the Canadian Grain Commission advises that CDC CLAIR, CDC Falcon, CDC Harrier, CDC Kestrel and CDC Raptor will be moved to the Canada Western General Purpose class effective August 1, 2013. XX = insufficient data to report. Plus (+) or minus (-) symbols following relative yield figures indicate significantly higher or lower yields than the common check (CDC OSPREY). Ratings: VE = Very Early, E = Early, M = Medium, L = Late, VL = Very Late. VG = Very Good, G = Good, F = Fair, P = Poor, VP = Very Poor. Hardness & Colour: HR = Hard Red, SW = Soft White, SR = Soft Red.

WHEAT - WINTER

	S	F	R	C
CDC BUTEO				
BI: CDC, Dist: SeCan Members				
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Knight, William H. & G. & B. & C. & B. / Tees / (403) 784-3633				C
Kopjar, Gerald M. / Rowley / (403) 368-2409			R	C
Metzger, Don / Three Hills / (403) 572-3284				C
RADIANT				
BI: AAFC (Lethbridge), Dist: Canterra Seeds				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
Corns, Bryan & Gary / Grassy Lake / (403) 655-2464				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036		F		C
Haney Farms (1985) Limited / Picture Butte / (403) 738-4517		F		C
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268				C
Huvenaars, John & Lisa / Hays / (403) 725-2126				C
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	C
Thirsk, Theo R. / Kelsey / (780) 375-2408				C

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Canola Variety Information for 2011

WITH the absence of the Prairie Canola Variety Trials in 2010, the only other independent, prairie-wide source of canola variety performance data is registration data. This data is accepted by the Western Canadian Canola/Rapeseed Recommending Committee and used to register varieties with the Canadian Food Inspection Agency Variety Registration office. The data presented in the table includes most commercial varieties with seed available for 2011 planting.

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

The WCC/RRC trial data is a two year data set, where the first year "private" data is from trials conducted only by the breeding organization, and the second year "co-op" data is from sites publicly organized through WCC/RRC. The varieties are tested at 25 or more locations over the two years and compared to standard check varieties. Trial design was small plot replicated trials, with weed control managed through conventional herbicides (not by herbicide tolerance specific products). Trial protocols aim for minimal weed competition in order to only show the genetic (yield, height, maturity, lodging, quality) differences between the varieties under various conditions. Contact Raymond Gadoua with the Canola Council of Canada for a complete summary of canola registration data from 1998–2009 (gadouar@canolacouncil.org or (306) 683-2403).

Note that data shown is from different years and all varieties are NOT tested within the same year and location. The table indicates which years the variety data is derived from. Although the numbers are an average of performance at all locations, an individual variety may perform unpredictably different at specific location/years. Industry variety performance data from individual seed companies can be used to complement the registration data for variety purchase decisions.

Blackleg Rating

The blackleg rating represents disease tolerance relative to the highly susceptible variety Westar. Varieties with a resistant (R) or moderately resistant (MR) rating for blackleg have shown the greatest ability to suppress blackleg incidence and severity, but can still develop some lesions or cankers. Newer pathotypes of blackleg have been confirmed and not all varieties will have resistance in all fields. As a result, individual field performance may vary from performance in the registration trials. Lengthening rotation to improve blackleg control may be needed in fields where newer blackleg pathotypes have been confirmed, or where fall field scouting shows higher than expected levels of blackleg, or where there is a history of tight rotation canola.

Clubroot Rating

The clubroot rating identifies varieties with resistance that greatly reduced root galls in Alberta field nurseries relative to susceptible varieties. Clubroot-resistant varieties should be grown on fields infested by this disease, but not more frequently than once every four years to delay resistance breakdown.

Early Maturing Canola

Canola growers in short season zones, or in areas with adverse spring conditions that greatly delay seeding have several options of varieties with shorter maturity. There are several varieties that were tested in special early napus trials, where maturity targets were about one week earlier than normal Argentine (B. napus) canola. Three early napus varieties currently available are 43E01, 43H57 (Pioneer Hi-Bred) and 9350 (Viterra); all are early Roundup Ready hybrids with similar to slightly higher yield than normal open-pollinated canola varieties, and about 50 per cent higher yield than Polish types. Another option is to grow Polish types of canola, which mature approximately two weeks earlier than normal Argentine canola. Although seed sources of Polish canola have greatly diminished over the past decade, there are several varieties available: AC Sunbeam (Secan); Early One (Mastin Seeds). Polish types of canola only have tolerance to conventional herbicides, and are susceptible to blackleg and clubroot.

Canola Quality Juncea

Canola quality Brassica juncea is a relatively new class that is slightly better adapted to areas with periods of hot, dry conditions. Juncea canola has very good blackleg resistance, and similar shattering resistance as Polish canola. Production is through contract system only. Viterra has several juncea canola varieties available: XCEED brands VT Oasis CL and 8571. XCEED varieties are Clearfield tolerant.

De-registered Canola Varieties

De-registered varieties can be detected at very low levels and will result in rejected export shipments and increased monitoring of Canadian canola. If you have canola seed of these de-registered varieties, please contact your grain company before you deliver.

- Bromoxynil tolerant: 295BX, Cartier BX, Zodiac BX, Renegade BX
- Roundup Ready: Hysyn 101RR
- Liberty tolerant: Exceed, 2631 LL, Swallow, SW Legion LL, SW Flare LL, LBD 2393 LL, Innovator, Independence, HCN 14, Phoenix, Liberty Link hybrids 3850, 2153, 3640, 3880, 2163, 2273


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You know Raxil® seed treatment as the most effective opponent of smut in wheat, barley and oats. You trust it to have your back against seed and soil-borne fusarium. And there is no doubt that it is the undisputed champion when it comes to return on investment.
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12/10-15156A

CANOLA PERFORMANCE DATA

ARGENTINE CANOLA (Brassica napus)			WCC/RRC Registration Data					
Variety	**Type**	**Yield (% of checks)**	**Years Tested**	**Maturity (+/- days)**	**Height (+/-cm)**	**Blackleg Resistance**	**Clubroot Resistance**	**Distributor**
Checks								
46A65 and Q2	OP	100		0	0			
				Clearfield				
1651 H	H	120	2005-06	0	6	R		Canterra Seeds
45H73	H	122	2004-05	-2	2	R		Pioneer Hi-Bred
45H74	H	126	2008-09	-1	1	R		Pioneer Hi-Bred
45P70	H	119	2004-05	-1	5	R		Viterra
5525 CL	H	126	2007-08	1	11	R		BrettYoung
5535 CL	H	127	2008-09	-2	4	R		BrettYoung
71-40 CL	H	117	2006-07	0	7	R		Dekalb
NX4-205 CL *	OP	108	2008-09	0	7	R		Dow AgroSciences
				Liberty Link				
5020	H	125	2001-02	0	2	R		Bayer CropScience
5030	H	131	2001-02	0	20	R		Bayer CropScience
5440	H	135	2004-05	-0	7	R		Bayer CropScience
5770	H	135	2007-08	3	8	R		Bayer CropScience
8440	H	132	2004-05	-1	-0	R		Bayer CropScience
1141 *	H	120	2005-06	-2	3	MR		Bayer CropScience
L130	H	136	2008-09	-0	4	R		Bayer CropScience
L150	H	143	2008-09	1	9	R		Bayer CropScience
3303 LL	Syn	115	2004-05	-1	-2	MR		BrettYoung
1145 *	H	133	2007-08	1	9	R		Cargill
9590	H	130	2003-04	-0	4	R		Viterra
				Roundup Ready				
4414 RR	H	113	2004-05	0	3	R		BrettYoung
4424 RR	H	112	2006-07	1	11	MR		BrettYoung
4434 RR	H	111	2006-07	0	4	MR		BrettYoung
6020 RR	H	119	2007-08	1	0	MR		BrettYoung
6040 RR	H	121	2007-08	1	9	R		BrettYoung
6060 RR	H	134	2008-09	2	10	R		BrettYoung
6130 RR	Syn	118	2007-08	-1	-0	R		BrettYoung
997 RR	OP	105	2004-05	-1	-3	R		BrettYoung
1818	OP	106	2002-03	1	-8	R		Canterra Seeds
1841	H	114	2000-01	2	6	R		Canterra Seeds
1896	H	106	2002-03	-1	2	R		Canterra Seeds
1918	OP	115	2007-08	0	1	MR		Canterra Seeds
1950	H	123	2007-08	0	5	MR		Canterra Seeds
1956	Syn	119	2007-08	0	4	R		Canterra Seeds
1970	H	128	2008-09	2	7	R		Canterra Seeds
1852H	H	108	2004-05	-1	3	R		Canterra Seeds
1855H	H	110	2004-05	-1	0	R		Canterra Seeds
1960 **	H	121	2009	2		R	R	Canterra Seeds
v1037 *	H	114	2005-06	-1	8	R		Cargill - Victory Hybrid Canola
v1040 *	H	123	2008-09	1	4	R		Cargill - Victory Hybrid Canola
v2035 *	H	118	2008-09	-1	2	R		Cargill - Victory Hybrid Canola
32-75	OP	107	2002-03	-3	-6	R		Dekalb
34-65	OP	104	2003-04	1	5	R		Dekalb

OTHER CANOLA IS YELLOW…
OURS IS GOLD

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6040 RR

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BrettYoung's newest and highest yielding hybrid, 6060 RR, out-yielded commercial checks by 2.6 bu/ac (106%). Providing impressive yields, 6060 RR is an emerging leader in its class.

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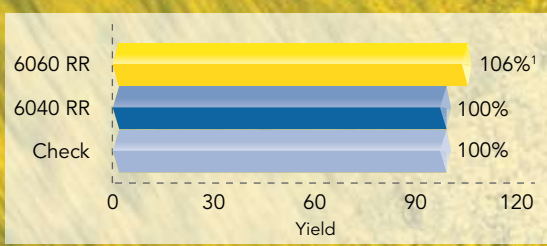

[1]Check is an average of 45H28 and 7265 over 18 replicated field scale grower trials (2010).

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2010 Olympic Gold Medalist – Skeleton
2008 World Championship Silver Medalist

BrettYoung™

71-45 RR	H	125	2003-04	-1	3	MR		Dekalb
72-35 RR	H	116	2005-06	-3	-6	MR		Dekalb
72-55 RR	H	121	2006-07	-1	-4	MR		Dekalb
72-65 RR	H	117	2007-08	1	0	R		Dekalb
73-35 RR	H	122	2008-09	-2	-6	R		Dekalb
73-45 RR	H	126	2008-09	-3	-5	R		Dekalb
73-55 RR	H	129	2008-09	-1	-2	R		Dekalb
73-65 RR	H	126	2008-09	-1	1	R		Dekalb
73-67 RR **	H	113	2009	-1		R	R	Dekalb
73-77 RR **	H	114	2009	-0		R	R	Dekalb
NX4-105 RR *	OP	109	2007-08	2	3	R		Dow AgroSciences
NX4-106 RR *	OP	106	2008-09	1	6	R		Dow AgroSciences
D3150	H	117	2006-07	-1	10	MR		DuPont
D3151	H	118	2006-07	-1	6	MR		DuPont
D3152	H	126	2008-09	-2	4	R	R	DuPont
83S01 RR	Syn	117	2005-06	-2	6	MR		FP Genetics
93H01 RR	H	118	2005-06	-0	7	MR		FP Genetics
45H26	H	119	2004-05	-1	0	R		Pioneer Hi-Bred
45H28	H	122	2006-07	-1	2	R		Pioneer Hi-Bred
45H29	H	131	2008-09	-1	10	R	R	Pioneer Hi-Bred
45S51	H	115	2006-07	-0	-0	R		Pioneer Hi-Bred
45S52	H	119	2008-09	-1	5	MR		Pioneer Hi-Bred
Café	OP	104	2004-05	-5	-5	R		Secan
RUGBY	OP	106	2005-06	0	1	R		Secan
	H	121	2006-07	-1	3	R		Viterra
46P50	H	119	2004-05	1	3	R		Viterra
9557S	H	125	2008-09	-2	5	R		Viterra
9558C	H	124	2008-09	-1	9	R	R	Viterra
VT 500	H	117	2008-09	-0	4	R		Viterra
VT Barrier	OP	111	2006-07	-1	1	R		Viterra
VT Remarkable	Syn	120	2007-08	1	9	R		Viterra

Type: H - hybrid; Syn - synthetic or composite hybrid; OP - open-pollinated * Indicates varieties with Specialty oil profiles ** Indicates varieties with three year interim registration as of 2010

CANOLA - ARGENTINE

	S	F	R	C
1956				
BI: N/A, Dist: Canterra Seeds				
Canterra Seeds Ltd. / Winnipeg / (204) 988-9750				C
6130 RR				
BI: N/A, Dist: N/A				
McNaughton, Brian / Lethbridge / (403) 308-9914				C
72-35 RR				
BI: N/A, Dist: N/A				
Monsanto Canada Inc. / Winnipeg / (204) 958-1000				C
72-65 RR				
BI: N/A, Dist: N/A				
Monsanto Canada Inc. / Winnipeg / (204) 958-1000				C
73-45RR				
BI: N/A, Dist: N/A				
Monsanto Canada Inc. / Winnipeg / (204) 958-1000				C
73-55RR				
BI: N/A, Dist: N/A				
Monsanto Canada Inc. / Winnipeg / (204) 958-1000				C
73-65RR				
BI: N/A, Dist: N/A				
Monsanto Canada Inc. / Winnipeg / (204) 958-1000				C
73-67RR				
BI: N/A, Dist: N/A				
Monsanto Canada Inc. / Winnipeg / (204) 985-1000				C
73-77RR				
BI: N/A, Dist: N/A				
Monsanto Canada Inc. / Winnipeg / (204) 958-1000				C
CAFE				
BI: SW Seed Ltd., Dist: SeCan Members				
Hadland, Edward & Lori / Baldonnel / (250) 789-3646				C
NX4-105 RR				
BI: N/A, Dist:				
Dow AgroSciences Canada / Calgary / (403) 735-8838				C
PPS01-140				
BI: N/A, Dist: N/A				
Bayer Cropscience Inc. / Kamloops / (250) 377-4157		F		
RUGBY				
BI: Lembke, Dist: SeCan Members				
Hadland, Edward & Lori / Baldonnel / (250) 789-3646				C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617				C
SW WIZZARD				
BI: Viterra, Dist: N/A				
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500				C
VT BARRIER				
BI: Viterra, Dist: Viterra				
Viterra / Regina / (306) 569-5027				C
VT DESIRABLE				
BI: Viterra, Dist: Viterra				
Viterra / Regina / (306) 569-5027				C
VT REMARKABLE				
BI: Viterra, Dist: Viterra				
Viterra / Regina / (306) 569-5027				C
VT500				
BI: Viterra, Dist: Viterra				
Viterra / Regina / (306) 569-5027				C

CANOLA - POLISH

	S	F	R	C
AC SUNBEAM				
BI: AAFC, Dist: SeCan Members				
Foster, Norman R. / Beaverlodge / (780) 354-2107				C
Early One				
BI: N/A, Dist: N/A				
Mastin, Robert B. / Sundre / (403) 556-2609				C
Mueller, Darcy / Three Hills / (403) 823-9788				C
Lyster, Norm / Stettler / (403) 742-4456				C

Field-scale trials
Best predictor of canola performance

Field scale testing of canola hybrids is a trial method that has been developed to produce data that is a more accurate predictor of canola hybrid performance.

Monsanto's **FACT™ (Field Analysis Comparison Trials)** program is conducted and managed by leading growers across the country, exposing seed to real life conditions including local weather, soil types, production systems and equipment.

Participants in the FACT™ program use appropriate herbicide systems and hybrids are swathed at correct maturities. The results come directly from growers and all data is published within a few days of harvest.

FACT™ ADVANCEMENT
- Field–scale trials one seeder width x 1000 feet
- DEKALB® harvested 43 sites in western Canada in 2010

FACT™ FARM TEST
- Farm-scale fields 20 to 40 acres
- DEKALB® had 302 comparisons in western Canada in 2010

Summary of Prairie 2010 FACT™ data - 72-65 RR & 73-45 RR vs Competitors

Check Products		Other Products		Performance			Yield BU/Ac		
Product	Trait(s)	Product	Trait(s)	# of Comps	Years #	Win %	Check	Other	Adv.
72-65 RR	GENRR	45H29	GENRR	57	1	61.4	47.7	**47.5**	0.2
72-65 RR	GENRR	5440	LL	24	1	45.8	45.8	**46.4**	-0.6
72-65 RR	GENRR	5770	LL	20	1	65.0	44.2	**43.5**	0.7
73-45 RR	GENRR	45H28	GENRR	10	1	90.0	48.7	**46.7**	2.0
73-45 RR	GENRR	45H29	GENRR	32	1	68.8	48.4	**46.8**	1.6
73-45 RR	GENRR	5440	LL	27	1	40.7	48.2	**48.1**	0.1
73-45 RR	GENRR	5770	LL	27	1	63.0	48.1	**47.8**	0.3

*Results as of November 2, 2010

FACT™ tested for you, by you. To view all individual trials go to **www.DEKALB.ca**

A Big Thanks To The Alberta Growers Who Helped Make Our 2010 FACT™ Program A Success:

Keith Stollery, Armena
Keith Guay, Athabasca
Brian Penno, Barrhead
Jason Schultz, Bashaw
Brad Dallas, Bowden
Ed Zilinski, Boyle
Ron Rockey, Calgary
Weyga Farms, Camrose
Nico Rookmaker, Camrose
Hillcrest Acres, Camrose
Kevin Auch, Carmangay
Rob Hamilton, Cochrane
Larry Chotowetz, Compeer
Bill Hall, Dapp
Chris Lindberg, Deadwood
Brett Israelson, Didsbury
Ken Livam, Eckville
Triple T Dairy, Edmonton
Mark Dechant, Fairview
Murray Lewis, Fairview
Kim Mohr, Fort SK
Kelly Friesen, Fort Vermillion
Wendell Whittleton, Grimshaw
Rick Kemp, Innisfail
Kelly Thompson, Innisfail
Scott Little, Innisfail
Dean Moore, Innisfail
Chris And Harold Solick, Lacombe
Derek Sanford, Lavoy
Darcy Sarafinchan, Lavoy
Thad Bentley, Leduc
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Stacy Lievaart, Nanton
Gary Wierenga, Neerlandia
Don Plantinga, Neerlandia
Jonathan Chumulka, Nisku
Cam Klapstein, Nisku
Sunderland Hog Farms, Paradise Valley
Dave Hofer, Raymond
Alfred Heilemann, Rimbey
Craig Gabrielson, Rivercourse
Derrick Dechief, Rycroft
Kevin Cliffe, Rycroft
Joe Kauffman, Ryley
Dale Squair, Sedgewick
Myroslav Zukiwski, Smoky Lake
Pierre Allard, St. Isidore
Rick Page, Strathmore
Dan Hochhausen, Strome
Ron Kyrwko, Sturgeon County
Monte Bauer, Thorhild
Larry Chekerda, Thorhild
Rick Kubica, Thorhild
Leonard Loyek, Thorsby
Don Boles, Three Hills
Torrington trial
Darryl And Wayne Tuck, Vegreville
Viking Colony, Viking
Darcy Zadunayski, Vimy
Andre Huot, Vimy
Brian Markert, Vulcan
Glen Tharle, Vulcan
Walter Entz, Warner
Larry Arndt, Westlock
Keith Taylor, Westlock
Nelson Farms, Wetaskiwin
Bearhill Farms, Wetaskiwin
Jerry Repka, Willingdon

FLAX

Variety	Station Yrs of Testing	All Sites	Low <20 bu/ac	Medium 20-30 bu/ac	High 35-50 bu/ac	Very High >50 bu/ac	Rel. Maturity	Seed Size>	Ht.	Lodge**
				Yield as % of CDC Bethune					cm	
CDC Bethune bu/ac		**35**	**14**	**28**	**42**	**60**				
CDC Bethune	**(92)**	**100**	**100**	**100**	**100**	**100**	**L**	**M**	**57**	**VG**
CDC Arras †	(27)	94-	97	95	97	87-	L	L	61	F
CDC Sorrel	(32)	104	112	107	98	99	L	L	61	G
Flanders	(43)	100	108	100	98	97	L	S	57	G
Hanley	(35)	97	98	101	94	97	L	M	52	VG
Macbeth †	(18)	91	XX	XX	XX	XX	L	M	52	G
NorLin †	(92)	95-	107	93-	93-	90-	M	M	57	G
Prairie Blue	(13)	95	XX	99	XX	XX	L	S	53	VG
Prairie Grande	(36)	98	99	100	95	XX	M	M	52	VG
Prairie Thunder	(28)	99	105	93	96	XX	M	M	52	VG
Taurus	(27)	98-	108	95	XX	XX	L	M	53	VG

Remarks: Yield is described as Overall Yield (1) and by Yield Test Category (2). 1) Province wide yields compared to CDC Bethune with similar stations years of testing. 2) Yield by Test Category is described as the % of CDC Bethune in bu/ac categories under low, medium, high and very high conditions. Yield followed by + is significantly higher than CDC Bethune, yield followed by - is significantly lower than CDC Bethune and yield without + or - is not significantly different than CDC Bethune. Maturities rated as VE, E, M, L and VL. Long term average days to maturity for CDC Bethune is 111 days rated as L (late maturing). No new data in 2010.

FLAX

	S	F	R	C
CDC BETHUNE				
BI: CDC, Dist: SeCan Members				
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268				C
CDC SORREL				
BI: CDC, Dist: SeCan Members				
Benci, Dennis / Carmangay / (403) 643-2294				C
Huvenaars, John & Lisa / Hays / (403) 725-2126			R	
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				C
King, Harold F. / Three Hills / (403) 443-7330			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322			R	
Stamp, Richard & Marian & G. / Enchant / (403) 739-2233	S			
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434			R	
HANLEY				
BI: AAFC (Morden), Dist: SeCan Members				
Klassen, Ken / Rosemary / (403) 378-4408			R	
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500			R	C
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	C
Sich, Louis John & Ivan / Trochu / (403) 442-2112				C
Stamp, Richard & Marian & G. / Enchant / (403) 739-2233			R	
Weigum, Garry / Three Hills / (403) 443-2476				C
NULIN 50				
BI: N/A, Dist: Viterra				
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736		F		
Viterra / Regina / (306) 569-5027	S	F	R	
PRAIRIE GRANDE				
BI: AAFC (Lacombe), Dist: SeCan Members				
Kopjar, Gerald M. / Rowley / (403) 368-2409		F		
Sim, Darwin & Derek / Ponoka / (780) 372-2111				C

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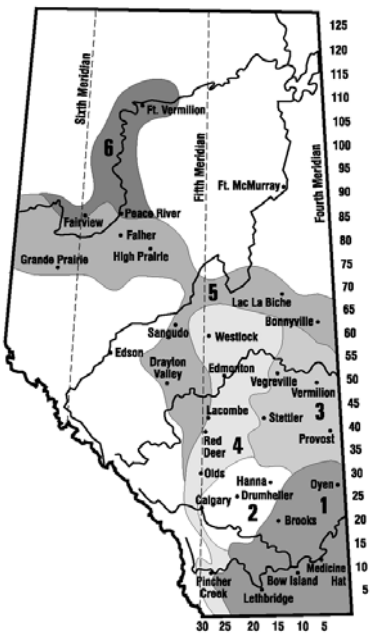
2010 Regional Silage Variety Trials

THE grain and livestock industries have been well served through the advent of the Regional Variety Testing program in Alberta and the subsequent publishing of results in seed.ab.ca. However, one key element was missing. As cattle producers grow ever increasing amounts of annual crops for feed (silage, green feed and swath grazing), 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. With these facts in mind, the Regional Silage Variety Trial concept was born.



Participating Organizations

Under the umbrella of the Agricultural Research and Extension Council of Alberta, six applied research groups initiated the project.

- Agricultural Research and Extension Council of Alberta, Sherwood Park, AB, (780) 416-6046
- Battle River Research Group, Forestburg, AB, (780) 582-7308
- Chinook Applied Research Association, Oyen, AB, (403) 664-3777
- Gateway Research Organization, Westlock, AB, (780) 349-4546
- Lakeland Agricultural Research Association, Bonnyville, AB, (780) 826-7260
- Smoky Applied Research and Demonstration Association, Falher, AB, (780) 837-2900
- West Central Forage Association, Evansburg, AB, (780) 727-4447

Major Sponsors

- Alberta Beef Producers
- Agricultural Opportunity Fund
- A and L Canada Laboratories
- Association of Alberta Co-op Seed Cleaning Plants
- Alberta Seed Growers' Association

Trial Information

This is only the second year of the trials and concrete conclusions shouldn't be drawn, however, many of the groups involved have been growing silage trials for several years, the involved groups would willingly share this information with anyone who is interested.

The barley, oat, and triticale silage trials are self explanatory, however we thought the late seeded and pulse mixture trials required a little more explanation. The late seeded trial was born of the increasing number of companies promoting, and producers growing, C4 crops for forage. Millet and sorghum fall into this category. Several of the groups have grown sorghum in past years and yields had been very disappointing, therefore it was left out of this trial. Millet has shown more promise and there seems to be more producer interest in growing it. Both these crops need to be sown into warm soil (approximately mid-June) and thus the trial name. Cereals were seeded at the same time to measure them against the millet.

The pulse mixture trial looked at decreasing nitrogen costs, and/or increasing nutritional value of silage. The pulse mix plots were seeded with 50 pounds of 11-52-0-0 while the straight 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. Monocrop cereals were seeded at 100 per cent the recommended seeding rate.

Site Information

There were 11 sites across the province. Sites were located near Castor, Concert, Evansburg, Ft. Kent, , Lac La Biche, St. Paul, Stanmore, Stettler, Stony Plain, Tawatinaw and Valleyview. Several sites were lost to flooding and weather pressure in the 2010 growing season, the data was not reported. 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, and the samples are also being tested by the Field Crop Development Centre in Lacombe (by Mary Lou Swift) using near infra-red technology to strengthen the NIR database for forages.

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

BARLEY

Yield Data			Yield by Area (see map)				Nutritional Data					
Variety	Row Type	Awn Type	1	3	4	5	CP	TDN	Ca	P	K	Mg
			% of Vivar				% of Vivar					
AC Lacombe	6	S	121	94	122	89	103	99	117	105	104	102
AC Ranger	6	S	133	108	91	91	106	100	99	111	105	93
CDC Austenson	2	R	141	116	119	107	100	99	78	99	99	77
Chigwell	6	S	123	101	95	94	104	98	92	101	104	97
Cowboy	2	R	140	111	100	95	95	101	94	101	98	87
Ponoka	2	R	151	117	106	106	103	99	99	94	94	86
Seebe	2	R	129	112	118	108	100	98	86	101	91	80
Sundre	6	S	128	96	118	87	101	100	97	102	103	94
Trochu	6	S	124	92	105	83	101	101	97	98	98	96
Vivar	6	R	100	100	100	100	100	100	100	100	100	100
Xena	2	R	118	100	119	93	100	100	78	110	95	80

OATS

Yield Data	Yield by Area (see map)				Nutritional Data					
Variety	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Murphy				% of Murphy					
Baler	129	107	92	95	96	105	100	101	96	90
Everleaf	97	101	91	71	111	101	109	100	113	94
Foothills	97	114	91	96	95	102	108	98	104	94
Jordan	88	102	109	90	105	104	103	103	107	99
Morgan	101	99	99	86	95	103	106	109	97	88
Murphy	100	100	100	100	100	100	100	100	100	100
Mustang	102	97	102	92	104	101	106	99	98	96
Waldern	95	102	100	98	93	102	111	97	99	93

TRITICALE

Yield Data	Yield by Area (see map)				Nutritional Data					
Variety	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Pronghorn				% of Pronghorn					
AC Ultima	107	102	97	96	93	102	96	104	89	107
Bunker	103	93	95	94	96	97	115	95	93	100
Companion	101	83		103	94	95	123	92	95	101
Pronghorn	100	100	100	100	100	100	100	100	100	100
Tyndal	99	98	93	87	100	98	107	109	99	100

LATE SEEDED

Yield Data	Yield by Area (see map)				Nutritional Data					
Variety	1	3	4	5	CP	TDN	Ca	P	K	Mg
	% of Vivar				% of Vivar					
Crown Millet	51	62	79	69	105	97	93	103	137	178
Golden German Millet	52	60	51	57	104	93	118	93	138	146
Millet King Red Proso	52	55	53	75	100	94	84	96	144	149
Murphy	158	118	134	101	82	88	93	91	119	93
Pronghorn	126	120	151	115	88	94	79	121	104	85
Siberian Millet	32	70	51	57	104	95	94	107	148	177
Vivar	100	100	100	100	100	100	100	100	100	100

PULSE MIXTURES

Yield Data	Yield by Area (see map)				Nutritional Data					
Variety	1	3	4	5	CP	TDN	Ca	P	K	Mg
		% of Vivar			% of Vivar					
Vivar		100	100	100	100	100	100	100	100	100
Murphy		136	118	104	88	88	75	91	122	89
Pronghorn		111	124	108	81	94	64	103	100	71
40-10/Vivar		98	65	92	131	100	171	109	95	127
40-10/Murphy		112	78	106	115	93	172	109	114	122
40-10/Pronghorn		86	103	92	123	96	144	119	114	116
Cooper/Vivar		87	91	83	115	97	135	102	101	110
Cooper/Murphy		147	96	94	103	93	114	110	121	97
Cooper/Pronghorn		90	112	91	88	95	111	97	96	90

Hay and Pasture Crops

DISTRIBUTOR INFORMATION:

BrettYoung..... 1-800-665-5015
..... paul.sinkevich@brettyoung.ca / www.brettyoung.ca
Dore Seeds .....780-623-7069 / hyoder@telusplanet.net
FP Genetics..... 1-866-791-4522 / emyers@farmpureseeds.com
Foster's Seed & Feed Ltd.....1-800-379-4804
..... doug.thiessen@fosterseed.com / www.fosterseed.com
Hannas Seeds Ltd. 403-782-6671
.....patricia@hannasseeds.com / www.hannasseeds.com
Peace Country Seeds / Interlake Forage Seeds 780-338-2934
.....plundgard@telus.net / www.interlakeforageseeds.com
Johnson Seeds..... 1-800-363-9442
..... info@johnsonseeds.com / www.johnsonseeds.com
Sunshine Seeds Ltd. / Ken Long Forage Seed..... 403-758-3444
..... gmcard@theboss.net
Northstar Seed Ltd. 1-800-805-0765
..... info@northstarseed.com / www.northstarseed.com
Pickseed Canada Ltd..... 1-800-265-3925 / www.pickseed.com
Pioneer Hi-Bred Ltd. .....403-346-6031 / www.pioneer.com / canada
SeCan..... 1-800-764-5487 / seed@secan.com / www.secan.com
Seed-Link Inc..... 705-324-0544 / sloffice@seed-link.ca / www.seed-link.ca
Viterra.....1-866-569-4411 / www.viterra.ca

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

Forage references:

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

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DUE to the program reviews in Alberta Agriculture and Rural Development, the variety data for the hay and pasture crops has not been generated this year. As such this means that data is not available for print in seed.ab.ca.

ALFALFA

	S	F	R	C
4S417				
BI: Dairyland Seed, Dist: N/A				
Dairyland Seed Co. / Homedale / (208) 772-2465				C
53V52				
BI: Pioneer Hi-Bred, Dist: Pioneer Hi-Bred				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
54Q25				
BI: Pioneer Hi-Bred, Dist: Pioneer Hi-Bred				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
54Q32				
BI: Pioneer Hi-Bred, Dist: Pioneer Hi-Bred				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
54V46				
BI: Pioneer Hi-Bred, Dist: Pioneer Hi-Bred				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
55V48				
BI: Pioneer Hi-Bred, Dist: Pioneer Hi-Bred				
Pioneer Hi-Bred International Inc. / Lethbridge / (403) 327-6135				C
ABLE				
BI: AAFC (Saskatoon), Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
AC BLUE J				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Marzolf, Dale Cameron / Rolling Hills / (403) 964-2213				C
AC GRAZELAND BR				
BI: AAFC (Saskatoon), Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
AC LONGVIEW				
BI: AAFC (Lethbridge), Dist: BrettYoung/FarmPure Seeds				
BrettYoung / St. Norbert / (204) 261-7932				C
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
AMERISTAND 201+Z				
BI: ABI, Dist: Viterra				
Nikkel, Ed / Lethbridge / (403) 792-2116				C
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
Viterra / Regina / (306) 569-5027				C
BEAVER				
BI: AAFC (Saskatoon & Lethbridge), Dist: Phillips' Seeds Ltd.				
Torkelson, Herbert / Duchess / (403) 378-4544				C
DAKOTA				
BI: N/A, Dist: Northstar Seed Ltd.				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
DALTON				
BI: N/A, Dist: N/A				
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
EQUINOX				
BI: Forage Genetics Int., Dist: Viterra				
Nikkel, Ed / Lethbridge / (403) 792-2116				C
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
Viterra / Regina / (306) 569-5027				C
GALA				
BI: Northrup King Co. (Golden Valley), Dist: Viterra				
Nikkel, Ed / Lethbridge / (403) 792-2116				C
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
GENEVA				
BI: Novartis, Dist: Viterra				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
GENOA				
BI: Forage Genetics Int., Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
GH 700				
BI: N/A, Dist: Northstar Seed Ltd.				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
GIBRALTAR				
BI: Pickseed, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
HAYGRAZER				
BI: Great Plains Research Co., Dist: Northstar Seed Ltd.				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
HYBRIFORCE-400				
BI: Dairyland Seed, Dist: BrettYoung				
Dairyland Seed Co. / Homedale / (208) 772-2465				C
LEADER				
BI: N/A, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C

Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
LEGENDAIRY 5.0				
BI: N/A, Dist: Agronomy Company of Canada				
Forage Genetics International / Nampa / (208) 466-3568				C
MAGNUM VI WET				
BI: Dairyland Research Int. (Clinton), Dist: Seed-Link Inc.				
Dairyland Seed Co. / Homedale / (208) 772-2465				C
Petersen, Donald / Tilley / (403) 377-2367				C
MARVEL				
BI: N/A, Dist: N/A				
Forage Genetics International / Nampa / (208) 466-3568				C
MASKA				
BI: N/A, Dist: N/A				
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
PICKSEED 2065MF				
BI: Pickseed, Dist: Pickseed Canada Inc.				
Nikkel, Ed / Lethbridge / (403) 792-2116				C
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
PICKSEED 3006				
BI: Pickseed, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
PREVAIL				
BI: Pickseed, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
QWEST				
BI: Cal/West Seeds, Dist: Northstar Seed Ltd.				
Cal/West Seeds / Woodland / (530) 666-3331				C
RHINO				
BI: N/A, Dist: Northstar Seed Ltd.				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
SATELLITE				
BI: N/A, Dist: Power Seeds Inc.				
Nikkel, Ed / Lethbridge / (403) 792-2116				C
Power Seeds Inc. / Lindsay / (705) 324-4400				C
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
Wiens, Richard / Rosemary / (403) 378-4409				C
SPREDOR 4				
BI: Forage Genetics Int., Dist: Viterra				
Viterra / Regina / (306) 569-5027				C
STARBUCK				
BI: N/A, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
STEAK				
BI: Pickseed, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
STEALTH SF				
BI: N/A, Dist: Quality Seeds Ltd.				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
SUPER NOVA				
BI: Pickseed, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
SURVIVOR				
BI: N/A, Dist: N/A				
BrettYoung / St. Norbert / (204) 261-7932				C
TOPHAND				
BI: N/A, Dist: Quality Seeds Ltd.				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
TOWER ST				
BI: N/A, Dist: Quality Seeds Ltd.				
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
Viterra / Regina / (306) 569-5027				C
VISION				
BI: N/A, Dist: Pickseed Canada Inc.				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
WL 319HQ				
BI: N/A, Dist: N/A				
Forage Genetics International / Nampa / (208) 466-3568				C
WL327				
BI: N/A, Dist: Quality Seeds Ltd.				
Forage Genetics International / Nampa / (208) 466-3568				C
WL343HQ				
BI: N/A, Dist: Growmark Inc.				
Forage Genetics International / Nampa / (208) 466-3568				C

BROMEGRASS

	S	F	R	C
AC KNOWLES				
BI: AAFC (Saskatoon), Dist: N/A				
Dechant, Clem / Manning / (780) 836-2715				C
Gaugler, Bill / Hotchkiss / (780) 836-3652				C
Viterra / Regina / (306) 569-5027				C
AC ROCKET				
BI: AAFC (Sainte-Foy), Dist: Viterra				
Viterra / Regina / (306) 569-5027				C
ARMADA				
BI: AAFC (Saskatoon), Dist: SeCan Members				
Andersen, Terry / Bon Accord / (780) 921-3461		F		
CARLTON				
BI: AAFC (Saskatoon), Dist: Public				
BrettYoung / St. Norbert / (204) 261-7932				C
Dechant, Henry A. / Fairview / (780) 835-4588		F		
Dechant, Mark / Fairview / (780) 835-3602				C
Downey, Gordon / Manning / (780) 836-2292				C
Driedger, Bernard / Worsley / (780) 685-2889				C
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
Friesen, Henry G. / Fort Vermilion / (780) 927-3608				C
Froese, Cornelius H. / La Crete / (780) 927-4645				C
Hostettler, Fritz / Bluesky / (780) 835-4761				C
Lay, Dennis M. / Beaverlodge / (780) 354-8357				C
Mittelstadt, Mark Andrew / Fairview / (780) 835-3239				C
Noble, Robert / Manning / (780) 836-2337				C
Sallis, Gary / Manning / (780) 836-2381				C
Shaw, Theron Harry / Fairview / (780) 835-0826				C
FLEET				
BI: AAFC (Saskatoon), Dist: SeCan Members				
Andersen, Terry / Bon Accord / (780) 921-3461				C
BrettYoung / St. Norbert / (204) 261-7932				C
Card, Gordon B. / Magrath / (403) 758-3444				C
Froese, Cornelius H. / La Crete / (780) 927-4645				C
Hadland, Edward & Lori / Baldonnel / (250) 789-3646		F		C
Kipke, Bob / Hines Creek / (780) 494-2260				C
Koester, Gordon / Rockyford / (403) 533-2248				C
Kramer, Joseph / Fairview / (780) 835-4594				C
Mueller, Darcy / Three Hills / (403) 820-4115				C
Nikkel, John Alan / Iron Springs / (403) 738-4190				C
Nikkel, John Jr. / Coaldale / (403) 345-4963				C
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
Van Garderen, Case / Picture Butte / (403) 738-4203				C
Vanderstoel, Jeroen & M. / Enchant / (403) 654-2653				C
Witdouck, Dale & Calvin / Iron Springs / (403) 738-4395				C
MANCHAR				
BI: No Rep, Dist: N/A				
Kramer, Steve / Fairview / (780) 835-4494				C
MBA				
BI: N/A, Dist: N/A				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
MONTANA				
BI: N/A, Dist: N/A				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
PEAK				
BI: Cornell University, Dist: Quality Seeds Ltd.				
Stahl, George / Cleardale / (780) 685-2800				C
RADISSON				
BI: AAFC (Saskatoon), Dist: SeCan Members				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C

CICER MILKVETCH

	S	F	R	C
AC OXLEY II				
BI: AAFC (Lethbridge), Dist: FP Genetics				
BrettYoung / St. Norbert / (204) 261-7932				C
VELDT				
BI: AAFC (Lethbridge), Dist: Viterra				
Viterra / Regina / (306) 569-5027				C

CLOVER

	S	F	R	C
AURORA				
BI: AAFC (Beaverlodge), Dist: BrettYoung				
BrettYoung / St. Norbert / (204) 261-7932		F		C
Limoges, Daniel / Girouxville / (780) 833-1287				C
Moore Seed Processors Inc. / Debolt / (780) 957-3964				C
NORGOLD				
BI: N/A, Dist: N/A				
BrettYoung / St. Norbert / (204) 261-7932				C

FESCUE

	S	F	R	C
ARC BUTTE				
BI: ARC, Dist: N/A				
Andersen, Terry / Bon Accord / (780) 921-3461				C
BOREAL				
BI: AAFC (Beaverlodge), Dist: Viterra				
Dreger, Norman Irvin & Derek / Woking / (780) 774-2240				C
Esau, Darren / Clayhurst / (250) 781-3447				C
John Zuelzer & Son Canada Ltd / Sherwood Park / (780) 417-6543		F		
Johnson, Jim / Cherry Point / (780) 595-2198				C
Kramer, Steve / Fairview / (780) 835-4494				C
Longson, Wayne / Beaverlodge / (780) 354-2898				C
Maisonneuve, Robert L. / Donnelly / (780) 837-8296				C
Nelson, Angus Clarence / Beaverlodge / (780) 354-8310				C
Nelson, Barry Kenneth / Spirit River / (780) 351-2158				C
Paszkowski, Walter / Sexsmith / (780) 568-3629				C
Penner, David / Worsley / (780) 685-2154				C
Richard, Gerald / Spirit River / (780) 864-4352				C
Ropchan, Darryll Dale / Grishaw / (780) 338-2208				C
Skrlik, Perry / Nampa / (780) 322-2190				C
Thomi, Chris / Woking / (780) 774-2174				C
Vander Linden, Robert / Clayhurst / (250) 781-3554				C
COURTENAY				
BI: P. Jones (Courtenay), Dist: Northstar Seed				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
KOKANEE				
BI: AMPAC Seed Co., Dist: SeCan Members				
BrettYoung / St. Norbert / (204) 261-7932				C

NEEDLEGRASS

	S	F	R	C
GROUSE				
BI: ARC, Dist: N/A				
Andersen, Terry / Bon Accord / (780) 921-3461				C

ORCHARDGRASS

	S	F	R	C
EARLY ARCTIC				
BI: Tomorrow's Seeds, Dist: Northstar Seed Ltd.				
Northstar Seed Ltd. / Neepawa / (204) 476-5241				C
KAY				
BI: AAFC (Ottawa) Dist: SeCan Memebers/Ken Long Seeds				
Card, Gordon B. / Magrath / (403) 758-3444				C
KAYAK				
BI: N/A, Dist: N/A				
Ford, Paul Timothy / Ashcroft / (250) 453-2550				C

RYEGRASS

	S	F	R	C
ARC CENTENNIAL				
BI: N/A, Dist: BrettYoung				
BrettYoung / St. Norbert / (204) 261-7932				C
SWIFT				
BI: AAFC (Lethbridge), Dist: SeCan Members				
Card, Gordon B. / Magrath / (403) 758-3444		F		

TIMOTHY

	S	F	R	C
AC APEX				
BI: N/A, Dist: SeCan Members				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
ALMA				
BI: Pickseed Canada Inc., Dist: ABT Canada				
Moore Seed Processors Inc. / Debolt / (780) 957-3964				C
Pellerin, Leslie R. / Debolt / (780) 952-2054				C
AURORA				
BI: Mitsui Chemicals Inc., Dist: BrettYoung				
General Feed & Grain Inc. / Bonners Ferry / (208) 267-3185				C
Jorgensen, Eskil / Creston / (250) 428-6156				C
BOTTNIA II				
BI: Henri Malon Ltd., Dist: N/A				
Viterra / Regina / (306) 569-5027				C
CLAIR				
BI: N/A, Dist: FarmPure Seeds				
Jorgensen, Eskil / Creston / (250) 428-6156				C
CLIMAX				
BI: AAFC (Ottawa), Dist: Public				
Dynamic Seeds Ltd. / Fairview / (780) 835-5435				C
Heuston, Scott / Creston / (250) 428-7026				C
Lickacz, Jerome / Calmar / (780) 985-2433				C
Moore Seed Processors Inc. / Debolt / (780) 957-3964				C
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
COMTAL				
BI: N/A, Dist: Pickseed Canada Inc.				
BrettYoung / St. Norbert / (204) 261-7932				C
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C
DERBY				
BI: Growmark Inc., Dist: N/A				
BrettYoung / St. Norbert / (204) 261-7932				C
HOKUO				
BI: Seed Link Inc., Dist: N/A				
Pickseed Canada Inc. / Winnipeg / (204) 633-0088				C

RICHMOND
BI: Pickseed Canada (Mapleleaf Mills), Dist: Pickseed Canada Inc.
Pickseed Canada Inc. / Winnipeg / (204) 633-0088 C

TENHO
BI: Parsons Seeds Ltd., Dist: N/A
Moore Seed Processors Inc. / Debolt / (780) 957-3964 C
Skrlik, Perry / Nampa / (780) 322-2190 C

TITAN (LISCHKA IN GERMANY)
BI: N/A, Dist: Northstar Seed Ltd.
Northstar Seed Ltd. / Neepawa / (204) 476-5241 C

TUUKKA
BI: Boreal Plant Breeding (Finland), Dist: BrettYoung
BrettYoung / St. Norbert / (204) 261-7932 C
Moore Seed Processors Inc. / Debolt / (780) 957-3964 C

WINNETOU
BI: Parsons Seeds Ltd, Dist: N/A
Dynamic Seeds Ltd. / Fairview / (780) 835-5435 C
Wawrzoner, Henry / Guy / (780) 925-2186 C

WHEATGRASS

	S	F	R	C

AC GOLIATH
BI: Saskatoon Research Station, Dist: SeCan Members
BrettYoung / St. Norbert / (204) 261-7932 C
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338 C
Schmitt, Cameron John / Milk River / (403) 647-2157 C

AC SALTLANDER
BI: AAFC (Swift Current), Dist: N/A
Miller, Kenneth F. / Milk River / (403) 647-2127 C

ADANAC
BI: N/A, Dist: BrettYoung
BrettYoung / St. Norbert / (204) 261-7932 C

AG-299 (AEC HILLCREST)
BI: N/A, Dist: N/A
Sorensen, Niels / Berwyn / (780) 338-2205 C

ELBEE
BI: AAFC (Lethbridge), Dist: BrettYoung/Ken Long Seeds
Card, Gordon B. / Magrath / (403) 758-3444 F C
Mueller, Darcy / Three Hills / (403) 820-4115 C

FAIRWAY
BI: U of S (Saskatoon), Dist: Public
Whitney, David / Fairview / (780) 835-4897 C

GREENLEAF
BI: AAFC (Lethbridge), Dist: SeCan Members
Card, Gordon B. / Magrath / (403) 758-3444 F
Viterra / Regina / (306) 569-5027 C

KIRK
BI: AAFC (Saskatoon), Dist: SeCan Members
Kerschbaumer, John A. / Fairview / (780) 835-4595 C
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338 C
Limoges, Daniel / Girouxville / (780) 833-1287 F C
Nikkel, John Alan / Iron Springs / (403) 738-4190 C

NORDAN
BI: George A. Rogler (Mandan), Dist: Public
Schiebout, Everett H. / Barons / (403) 757-3757 C

Special Crops

STAFF of the Pulse Program of Alberta Agriculture's Crop Diversification Centre North did the compilation and co-ordination of the pea, lentil, chickpea and fababean tests. Staff of Agriculture and Agri-Food Canada, Lethbridge, conducted the dry bean trials. Funding was provided by seed companies (field pea entries only), the Alberta Pulse Growers Commission, Alberta Agriculture and Rural Development, the Alberta Seed Growers' Association and the Association of Alberta Co-op Seed Cleaning Plants Ltd.

Data, information and product contributed by the following:

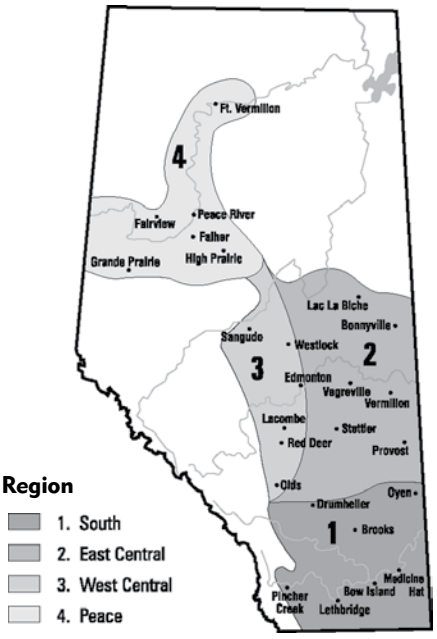
> Applied Research Associations > Agriculture and Agri-Food Canada > Alberta Agriculture and Food > B.C. Grain Producers Association > Three Links AgResearch Inc. > EMD Crop Biosciences – field pea inoculant

Plant Breeders' Rights

The use of the logo indicates the variety is protected by law, and the seed of this cultivar cannot be sold for seed purposes without permission and royalty payment.

2010 Data

In 2010 there were 19 sites grown of a combined green and yellow pea trials. Two sites from British Columbia were used as part of region 4 and were grown as separate green and yellow trials. Fourteen sites of pea trials were used in the final report for the Regional Variety Trials. Only sites with coefficient of variances (CV's) less than 15 per cent were used for field peas and less than 20 per cent for other pulses were included in the final report of pulse crop summaries.



Fully Tested Varieties

Fully tested varieties were not tested in 2010. Direct comparison between field peas fully tested and the 2000-2010 data cannot be made.

First-year Entries

Please use caution interpreting relative yield percentage when overall station years are below 25 sites for green and yellow peas.

DRY BEANS – NARROW ROW

Variety	Type	Station Years 1997-09 ^	Yield as % of Check	Days to Bloom*	Days to Maturity (+/-)	Seed Weight (g/1000)	Plant Height (cm)	Lodge (1-5) 1= erect	Growth Habit +
AC Black Diamond (check)	**black (shiny)**	**14**	**100**	**56**	**0**	**253**	**37**	**2.4**	**II**
AC Black Violet	black (matte)	7	93	59	5	166	40	2.3	II
AC Black Diamond - maturity = 100 days from seeding, yield 2776 kg/ha									
AC Polaris (check)	**great northern**	**15**	**100**	**56**	**0**	**305**	**40**	**3.5**	**II**
AC Alert	great northern	12	96	56	1	333	48	2.8	II
AC Resolute	great northern	11	83	54	-3	334	40	2.5	II
AC Polaris - maturity = 101 days from seeding, yield 2970 kg/ha									
AC Island (check)	**pinto**	**4**	**100**	**60**	**0**	**334**	**44**	**3.0**	**II**
CDC WM-1 (CDC 2005s-1) (A)	pinto	1	75	59	-11	347	35	2.8	I
CDC WM-2 (2793CBB) (A)	pinto	1	74	60	-6	350	50	2.8	II
Winchester (A)	pinto	1	90	58	-5	336	55	3.0	II
AC Island - maturity = 93 days from seeding, 2636 yield kg/ha									
AC Redbond (check)	**small red**	**15**	**100**	**51**	**0**	**301**	**38**	**2.4**	**II**
AC Redbond - maturity = 98 days from seeding, yield 2573 kg/ha									
Viva (check)	**pink**	**14**	**100**	**52**	**0**	**248**	**32**	**3.5**	**III**
Viva - maturity = 99 days from seeding, 2260 yield kg/ha									
Arikara Yellow (check)	**yellow**	**12**	**100**	**50**	**0**	**388**	**35**	**2.0**	**I**
Arikara Yellow - maturity = 96 days from seeding, 2430 yield kg/ha									

Remarks: ^ Trials failed in 2010, so the data presented is the same as that from 2009 * Days from seeding. (A) first year entry in 2009 + Growth habit I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.

DRY BEANS – WIDE ROW

Variety	Type	Station Years 1997-10	Yield as % of Check	Days to Bloom*	Days to Maturity (+/-)	Seed Weight (g/1000)	Plant Height (cm)	Lodge (1-5) 1= erect	Growth Habit +
AC Black Diamond (check)	**black (shiny)**	**34**	**100**	**57**	**0**	**263**	**38**	**2.1**	**II**
AC Black Violet	black (matte)	26	83	61	4	175	41	2.0	II
AC Black Diamond - maturity = 104 days from seeding, yield 2994 kg/ha									
AC Polaris (check)	**great northern**	**34**	**100**	**56**	**0**	**313**	**41**	**3.5**	**II**
AC Resolute	great northern	17	87	53	-4	340	41	2.3	II
AC Polaris - maturity = 105 days from seeding, yield 3275 kg/ha									
Viva (check)	**pink**	**37**	**100**	**55**	**0**	**255**	**36**	**3.0**	**III**
Viva - maturity = 104 days from seeding, yield 3087 kg/ha									
AC Island	**pinto**	**8**	**100**	**57**	**0**	**362**	**38**	**2.8**	**II**
CDC WM-1	pinto	3	64	60	-2	332	36	2.1	I
CDC WM-2	pinto	3	78	59	1	362	45	1.8	II
Othello	pinto	8	90	58	0	353	36	3.5	III
Pecos	pinto	3	87	54	3	314	48	2.5	II
Winchester	pinto	8	88	55	-2	339	38	2.3	II
AC Island - maturity = 103 days from seeding, yield 3507 kg/ha									
AC Redbond (check)	**small red**	**34**	**100**	**53**	**0**	**318**	**41**	**1.3**	**II**
Viva - maturity = 105 days from seeding, 3272 yield kg/ha									
Myasi (A) (check)	**yellow**	**1**	**100**	**67**	**0**	**377**	**23**	**1.0**	**I**
CDC 2253-4 (A)	yellow	1	143	66	-7	441	28	1.0	I
Myasi - maturity = 114 days from seeding, yield 1477 kg/ha									

Remarks: * Days from seeding. (A) first year entry in 2009. + Growth habit I = determinate bush, II = indeterminate bush, III = indeterminate prostrate.

CAMELINA

	S	F	R	C
JASPER				
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	C
PLAINSMAN				
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	
ROCKY				
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	

CANARYGRASS

	S	F	R	C
CDC TOGO				
BI: CDC, Dist: Canterra Seeds				
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338			R	

CHICKPEAS – DESI

Variety	Region (see map) 1 Sty*	1 %	2 Sty	2 %	4 Sty	4 %	Total Station Years	Yield as % of Myles	Seed Weight (g/1000)	Relative Maturity Rating >	Height (cm)	Resistance to: Ascochyta
				Relative yield % of Myles 2003 - 2009 ^								
Myles	**12**	**100**	**4**	**100**	**2**	**100**	**18**	**100**	**217**	**M**	**40**	**F**
CDC Anna	11	114	3	113	2	75	16	109	197	M	52	F
CDC Cabri	12	114	4	95	2	88	18	107	327	E	42	F
CDC Desiray	11	106	3	93	2	109	16	104	202	M	48	F
CDC Nika	11	114	3	103	2	72	16	107	318	E	53	F
CDC Vanguard	4	118	1	108	-	-	5	116	228	M	46	F
CDC Corinne	2	135	-	-	-	-	2	135	265	M	46	F
Myles - Yield in kg/ha		**2841**		**1692**		**1427**		**2428**				

CHICKPEAS – KABULI

Variety	Region (see map) 1 Sty*	1 %	2 Sty	2 %	4 Sty	4 %	Total Station Years	Yield as % of Sanford	Seed Weight (g/1000)	Relative Maturity Rating >	Height (cm)	Resistance to: Ascochyta
				Relative yield % of Sanford 2003 - 2008								
Sanford	**11**	**100**	**4**	**100**	**2**	**100**	**17**	**100**	**397**	**L**	**45**	**VP**
Amit (R P)	11	164	4	148	2	163	17	161	267	L	42	F
CDC Luna	1	156	-	-	-	-	1	156	366	ML	-	P
CDC Chichi	7	126	2	120	-	-	9	125	362	M	52	P
CDC Chico	7	149	2	151	-	-	9	150	246	E	51	VP
CDC Diva	11	99	3	86	2	153	16	104	458	L	50	F
CDC Frontier	11	171	3	155	2	180	16	169	361	L	53	F
CDC Xena	11	106	3	100	2	123	16	107	455	L	50	VP
CDC Yuma	11	114	3	96	2	124	16	112	426	L	54	P
Sanford Yield in kg/ha		**2503**		**1162**		**747**		**1981**				

Remarks: ^ Trials failed in 2010 due to wet and late season, so the data presented is the same as that from 2008. *Stn - station years, - no data. ~VP - very poor, P - poor, F - fair. > Maturity E Maturity E = early, M = medium, ML = medium - late L = late.

CHICKPEAS

	S	F	R	C
CDC FRONTIER				
BI: CDC, Dist: Sask. Pulse Growers				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
CDC LUNA				
BI: CDC, Dist: Sask. Pulse Growers				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C

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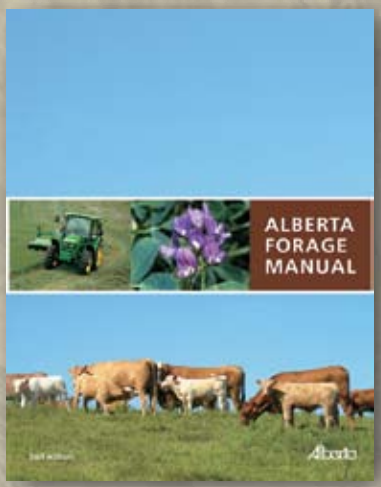

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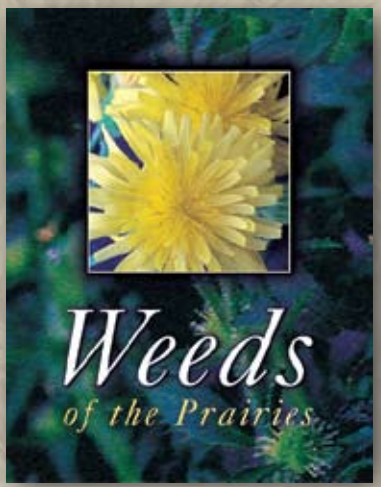

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FABABEANS

Relative yield % of Earlibird 2000-2008

Variety	Station Years	Yield as % of Earlibird	Relative Maturity >	Plant Height (cm)	Weight (g/1000)	Flower Colour**
Earlibird	**27**	**100**	**E**	**86**	**543**	**C**
CDC Blitz (R)	37	98	M-L	96	463	C
CDC Fatima (R)	31	94	M	92	533	C
Snowbird	24	105	E	93	526	W
Earlibird - Yield (kg/ha)		**5462**				

Remarks: Trials failed in 2010 due to wet and late season, so the data presented is the same as that from 2008. Varieties with more than 10 station years are fully tested. Varieties with (R) are registered with CFIA, (P) have Plant Breeder's Rights. ** W - white flowered, zero tannin, C - colored flower, tannin. Fully tested varieties not tested in 2008. > Maturity E = early, M = medium, ML = medium-late L = late.

Fully Tested Varieties

Variety	Station Years	Yield as % of Earlibird	Relative Maturity >	Plant Height (cm)	Weight (g/1000)	Flower Colour**
Aladin (R)	Fully Tested	82	L	100	431	C
Ben (P)	Fully Tested	110	E	101	584	C
Cresta	Fully Tested	98	M	86	591	W
Hertz Freya	Fully Tested	80	L	111	398	C
Orion (R)	Fully Tested	84	M	77	347	C
Outlook	Fully Tested	92	L	100	373	C
Pegasus	Fully Tested	88	L	99	393	C
Scirocco	Fully Tested	104	ML	89	576	C

FABABEANS

	S	F	R	C
IMPOSA				
BI: Innoseeds B.V., Dist: Cyre Seed Farms				
Cyre, Clifford & Greg / Barrhead / (780) 349-4775		F		
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595	S	F		
SNOWBIRD				
BI: Innoseeds B.V., Dist: Bob Park				
Cyre, Clifford & Greg / Barrhead / (780) 349-4775		F		
Logan, Glenn C. & Marie & D. / Lomond / (403) 792-3696				C
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595		F		
Stamp, Richard & Marian & G. / Enchant / (403) 739-2233				C

HEMP

	S	F	R	C
CFX-1				
BI: N/A, Dist: N/A				
Hemp Genetics International Inc. / Saskatoon / (604) 882-4936				C
CFX-2				
BI: N/A, Dist: N/A				
Hemp Genetics International Inc. / Saskatoon / (604) 882-4936				C

LENTILS – EARLY

Relative yield % of CDC Redberry 2004-2010

Variety	Region (see map) 1 Sty*	1 %	2 Sty	2 %	3 Sty	3 %	4 Sty	4 %	Total Station Years	Yield as % of CDC Redberry	Seed Weight (g/1000)	Height (cm)	Relative Maturity Rating >	Coty-ledon Col.	Seed ct. colour ***	Market Class	Disease Resistance Asco-chyta	Anthr-acnose
CDC Redberry	**7**	**100**	**2**	**100**	**1**	**100**	**1**	**100**	**11**	**100**	**43**	**36**	**E**	**R**	**GR**	**SR**	**G**	**G**
CDC Impala (A) (CL)	1	95	-	-	-	-	-	-	1	95	-	33	E	R	GR	ESR	G	P
CDC Imperial (R) (CL)	3	79	1	87	-	-	-	-	4	81	29	30	E	R	GR	ESR	G	G
CDC Redbow (A)	2	116	-	-	-	-	-	-	2	116	33	-	E	R	GR	ESR	-	-
CDC Robin (R)	7	90	2	92	1	65	1	71	11	86	28	33	E	R	GR/BR	ESR	G	G
CDC Rosebud (A)	2	106	-	-	-	-	-	-	2	106	30	-	E	R	T	ESR	-	-
CDC Rosetown	4	123	-	-	-	-	-	-	4	123	30	43	E	R	GR	ESR	-	-
CDC Imvincible (A) (CL)	1	129	-	-	-	-	-	-	1	129	32	-	E	Y	G	SG	-	-
CDC Milestone (R)	7	115	2	89	1	58	1	90	11	104	37	32	E	Y	G	SG	G	VP
CDC Viceroy (R) +	5	112	1	120	1	94	1	100	8	109	32	34	E	Y	G	SG	G	G
Eston (R)	3	93	-	-	-	-	1	70	4	87	34	35	E	Y	G	SG	VP	VP
CDC Blaze (R) +	5	103	1	70	1	66	1	64	8	89	35	31	E	R	GR	SR	G	P
CDC Imax (A)	1	106	-	-	-	-	-	-	1	106	45	-	M	R	GR	SR	-	-
CDC Impact (R) (CL)	3	86	1	56	-	-	-	-	4	78	34	36	E	R	GR	SR	G	G
CDC Maxim (R) (A) (CL)	1	117	-	-	-	-	-	-	1	117	41	-	E	R	GR	SR	F	VP
CDC Redcoat (A)	2	103	-	-	-	-	-	-	2	103	41	-	E	R	GR	SR	-	-
CDC Rouleau (R)	3	103	-	-	-	-	1	117	4	106	37	37	M	R	GR	SR	G	G
Crimson (R) +	3	94	1	70	1	42	1	92	6	81	35	26	E	R	BR	SR	VP	VP
CDC Peridot (A)	1	116	-	-	-	-	-	-	1	116	37	-	E	Y	MRB	FG	-	-
Pardina (A)	1	106	-	-	-	-	-	-	1	106	40	-	-	Y	GR/DT	SB	VP	VP
CDC Redberry - Yield kg/ha		2214		1454		4034		1883		2211								

LENTILS – LATE

Relative yield % of CDC Plato 2003-2010

Variety	Region (see map) 1 Sty*	1 %	2 Sty	2 %	3 Sty	3 %	4 Sty	4 %	Total Station Years	Yield as % of CDC Plato	Seed Weight (g/1000)	Height (cm)	Relative Maturity Rating >	Coty-ledon Colour	Seed ct. colour ***	Market Class	Disease Resistance Asco-chyta	Anthr-acnose
CDC Plato (R)	**13**	**100**	**-**	**-**	**-**	**-**	**2**	**100**	**15**	**100**	**68**	**36**	**L**	**Y**	**G**	**LG**	**G**	**P**
CDC Imigreen (A) (CL)	3	83	-	-	-	-	-	-	3	83	62	-	M	Y	G	MG	-	-
CDC Impress (R) (CL)	5	89	-	-	-	-	-	-	5	89	57	31	VL	Y	G	MG	G	VP
CDC Meteor (R) +	6	100	-	-	-	-	1	88	7	98	53	41	M	Y	G	MG	G	VP
CDC Richlea (R) +	6	104	-	-	-	-	-	-	6	104	53	37	M	Y	G	MG	VP	VP
CDC Vantage (R) +	6	97	-	-	-	-	2	100	8	98	58	33	M	Y	G	MG	G	VP
CDC Glamis (R) +	6	90	-	-	-	-	2	104	8	93	70	35	VL	Y	G	LG	G	VP
CDC Grandora (R) (A)+	3	81	-	-	-	-	-	-	3	81	68	44	L	Y	G	LG	G	VP
CDC Greenland (R)	7	80	-	-	-	-	-	-	7	80	69	38	M	Y	G	LG	G	P
CDC Impower (A) (CL)	3	90	-	-	-	-	-	-	3	90	71	-	ML	Y	G	LG	-	-
CDC Improve (R) (CL)	7	90	-	-	-	-	-	-	7	90	75	38	L	Y	G	LG	F	VP
CDC Sedley (R) +	6	96	-	-	-	-	1	103	7	97	76	30	M	Y	G	LG	F	VP
CDC Sovereign (R) +	8	83	-	-	-	-	2	102	10	87	72	40	L	Y	G	LG	G	P
Laird	12	84	-	-	-	-	2	101	14	86	74	38	VL	Y	G	LG	VP	VP
CDC KR-1 (A)	4	113	-	-	-	-	-	-	4	113	59	34	M	R	GR	LR	-	-
CDC QG-1 (A)	4	99	-	-	-	-	-	-	4	99	51	28	M	G	G	GC	-	-
CDC Plato - Yield kg/ha		**1925**	**-**	**-**	**-**	**-**		**1573**		**1878**								

Remarks: Varieties marked with (A) are first year entries in 2010. (R) - Registered with CFIA; (CL) - Clearfield variety; + not entered in 2010; Stn - station years. Maturity - E = early, M = medium, L = late, VL = very late. Cotyledon Colour - R = red, Y = yellow, G = green; Seed Coat Color/Pattern G = green, GR = grey, BR = brown FG=french green, T = tan, MRB = marbled, DT = dotted. Market class - SG = small green, MG = medium green, LG = large green, FG = french green, ESR = extra small red, SR = Small Red, LR = large red, GC = green cotyledon, SB = spanish brown. "-" no data Resistance - VP = very poor, P = poor, F = fair, G = good.

LENTILS

	S	F	R	C
CDC GREENLAND				
BI: CDC, Dist: University of Saskatchewan				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
CDC IMAX				
BI: CDC, Dist: Sask. Pulse Growers				
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338		F		
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F		
CDC IMPERIAL				
BI: CDC, Dist: Sask. Pulse Growers				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				C
CDC IMPOWER				
BI: CDC, Dist: Sask. Pulse Growers				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434		F		
CDC IMPRESS				
BI: CDC, Dist: Sask. Pulse Growers				
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338	S	F		
CDC IMPROVE				
BI: CDC, Dist: Sask. Pulse Growers				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
CDC MAXIM				
BI: CDC, Dist: Sask. Pulse Growers				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
Markert, Ron / Vulcan / (403) 485-6708				C
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736				C
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358				C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
CDC REDBERRY				
BI: CDC, Dist: Sask. Pulse Growers				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C

MUSTARD

	S	F	R	C
AC PENNANT				
BI: AAFC, Dist: N/A				
Viterra / Regina / (306) 569-5027				C
ANDANTE				
BI: AAFC (Saskatoon), Dist: Viterra				
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736		F		C
Viterra / Regina / (306) 569-5027		F		C
CUTLASS				
BI: N/A, Dist: Viterra				
Viterra / Regina / (306) 569-5027				C
OASIS CL				
BI: N/A, Dist: Viterra				
Viterra / Regina / (306) 569-5027				C

FIELD PEAS – YELLOW

Variety	Region (see map) 1- Irri. Sty*	%	1-Dryland Sty	%	2 Sty	%	3 Sty	%	4 Sty+	%	Total Station Years	Yield as % of Cutlass	Relative Maturity Rating >	Vine Length (cm)	Seed Weight (g/1000)	Standability (1E-9F)**
			Relative yield % of Cutlass 2003-2010											Average of all regions from 2003-2010		
Cutlass (R)	**1**	**100**	**21**	**100**	**34**	**100**	**24**	**100**	**47**	**100**	**127**	**100**	**E**	**68**	**230**	**3.9**
Argus	-	-	2	97	5	112	2	103	5	98	14	103	M	76	228	4.1
Canstar	-	-	10	95	20	104	14	103	21	101	65	102	E	75	247	3.3
CDC Hornet (CDC 1749-8)	–	–	5	96	8	110	5	111	10	105	28	106	M	80	223	3.5
CDC 1897-14 (R) (A)	-	-	2	111	5	113	2	124	5	103	14	111	M	76	201	4.7
CDC Meadow	-	-	8	104	15	114	10	104	21	107	54	108	E	77	217	3.1
CDC Prosper	-	-	6	93	12	97	8	97	13	100	39	97	E	72	150	4
CDC Treasure	-	-	6	96	12	105	8	98	13	100	39	101	E	78	218	3.5
Hugo (A)	-	-	2	101	5	100	2	116	7	106	16	105	E	66	221	4.4
Stella (A) ^	-	-	2	89	5	98	2	98	5	82	14	91	L	84	222	4
Cutlass - Yield kg/ha		**4003**		**3135**		**3485**		**5739**		**4362**		**4182**				
						FULLY TESTED VARIETIES										
Agassiz (R)* **	**-**	**-**	**6**	**100**	**11**	**102**	**9**	**102**	**13**	**105**	**Fully Tested**	**103**	**E**	**76**	**238**	**2.9**
CDC Centennial (R)***	-	-	5	101	12	99	9	104	13	100	Fully Tested	101	E	61	259	4.8
DS-Admiral (R)***	1	91	13	97	18	108	13	98	24	104	Fully Tested	102	M	68	246	3.2
Eclipse (R)***	1	108	17	103	27	103	20	99	33	103	Fully Tested	102	M	64	255	3.0
Miser (R)***	-	-	6	96	11	108	6	99	9	96	Fully Tested	101	E	66	205	5.2
Noble (R)***	-	-	3	88	8	95	6	99	8	92	Fully Tested	94	M	74	237	2.9
Polstead (R)***	-	-	5	97	12	99	9	99	13	104	Fully Tested	101	E	62	262	3.7
Reward (R)***	-	-	5	86	12	106	9	102	13	101	Fully Tested	101	M	76	248	2.5
SW MIDAS (R)***	-	-	10	103	17	106	11	91	20	100	Fully Tested	100	E	66	213	3.1
THUNDERBIRD (R)***	-	-	6	89	11	96	9	99	13	99	Fully Tested	97	M	76	228	2.1
Cutlass - Yield kg/ha		**4003**		**2997**		**3326**		**5791**		**4525**		**4197**				
			Relative yield % of Carrera 2000-2005									Yield as % of Carrera	Average of all regions from 2000-2005			
Carrera (R)	**6**	**100**	**14**	**100**	**28**	**100**	**15**	**100**	**33**	**100**	**Fully Tested**	**100**	**E**	**52**	**257**	**4.6**
CDC Bronco (R)***	1	93	11	91	16	100	8	94	15	117	Fully Tested	102	M	63	220	4.1
CDC Golden (R)***	1	109	11	101	14	105	8	102	15	109	Fully Tested	105	M	68	224	3.4
CDC Handel (R)***	2	116	8	95	17	94	7	87	14	102	Fully Tested	96	L	67	201	6.2
CDC Minuet (R)***	5	115	12	97	26	100	11	92	22	111	Fully Tested	102	M	64	192	4.9
CDC Mozart (R)***	2	110	8	108	17	100	7	97	14	105	Fully Tested	103	M	61	241	5.9
DS-Stalwarth (R)***	5	120	8	98	19	93	10	94	23	107	Fully Tested	101	M	69	231	3.4
Eiffel (R)	4	98	5	106	6	103	5	95	7	112	Fully Tested	103	M	77	268	4.4
Carrera - Yield kg/ha		4459		2593		2926		5098		3986		3677				

Remarks: indicates varieties with Plant Breeders Rights. Varieties marked with (A) are first year entries in 2010, (R) registered with CFIA. Fully tested varieties were not tested in 2010. ^ Stella is a silage type pea. *Stn - station years **, standability - 1 = erect, 9 = flat, *** Powdery mildew resistant "-" no data Resistance - P = poor, F = fair, G = good, VG = very good Maturity - E = early, M = medium, L = late.

Other Characteristics

	Resistance to:					
	Powdery Mildew	Myco. Blight	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling	Green Seed Coat
Cutlass (R)	**VG**	**F**	**F**	**F**	**F**	**G**
Argus	VG	F	F	F	F	G
Canstar	VG	P	G	G	G	G
CDC Hornet (CDC 1749-8)	VG	F	F	P	F	G
CDC 1897-14 (R) (A)	VG	F	F	G	G	F
CDC Meadow	VG	F	F	G	G	G
CDC Prosper	VG	F	G	F	F	G
CDC Treasure	VG	F	F	G	G	F
Hugo (A)	VG	F	F	G	F	F
Stella (A) ^	VG	F	F	G	G	F
	FULLY TESTED VARIETIES					
Agassiz (R)* **	**VG**	**F**	**F**	**G**	**VG**	**G**
CDC Centennial (R)***	VG	F	G	G	G	F
DS-Admiral (R)***	VG	P	F	F	G	F
Eclipse (R)***	VG	F	F	G	F	G
Miser (R)***	VG	F	F	G	G	G
Noble (R)***	VG	F	F	F	F	G
Polstead (R)***	VG	P	P	F	VG	F
Reward (R)***	VG	F	F	G	VG	F
SW MIDAS (R)***	VG	P	F	G	G	G
THUNDERBIRD (R)***	VG	F	F	G	VG	-
Carrera (R)	**P**	**P**	**F**	**F**	**G**	**-**
CDC Bronco (R)***	VG	F	F	G	G	G
CDC Golden (R)***	VG	F	F	G	G	G
CDC Handel (R)***	VG	F	P	G	G	F
CDC Minuet (R)***	VG	F	F	F	G	F
CDC Mozart (R)***	VG	F	F	G	G	F
DS-Stalwarth (R)***	VG	P	P	G	G	-
Eiffel (R)	-	-	-	-	-	-

FIELD PEAS – GREEN

Variety	Region (see map) 1- Irri. Sty*	%	1-Dryland Sty	%	2 Sty	%	3 Sty	%	4 Sty	%	Total Station Years	Yield as % of Nitouche	Relative Maturity Rating>	Vine Length (cm)	Seed Weight (g/1000)	Stand-ability (1E-9F)**
	Relative yield % of Cooper 2000-2010											Average of all regions from 2000-2010				
COOPER ***	**-**	**-**	**13**	**100**	**29**	**100**	**19**	**100**	**33**	**100**	**94**	**100**	**L**	**71**	**276**	**3.1**
CDC 1932-201 (A) ***	-	-	1	103	6	107	2	101	6	99	15	103	M	71	195	5.4
CDC Patrick ***	-	-	5	111	13	99	8	100	15	101	41	101	M	76	191	3.6
Mendel (A)	-	-	1	91	6	97	2	86	10	90	19	92	M	74	207	3.8
Cooper - Yield kg/ha				**3237**		**3846**		**5917**		**4525**		**4418**				
	FULLY TESTED VARIETIES															
	Relative yield % of Nitouche 2000-2009															
Nitouche	**6**	**100**	**18**	**100**	**45**	**100**	**27**	**100**	**53**	**100**	**Fully Tested**	**100**	**M**	**69**	**267**	**3.4**
Camry ***	-	-	8	97	18	95	11	110	22	100	Fully Tested	100	M	57	258	3.0
CDC Striker	1	71	8	90	19	95	8	95	21	95	Fully Tested	94	M	66	244	2.9
CDC Sage ***	-	-	5	80	8	86	8	97	13	91	Fully Tested	90	M	71	199	3.1
Stratus ***	3	97	9	96	24	103	13	100	28	96	Fully Tested	99	M	55	260	4.5
SW PARADE ***	5	90	3	96	15	103	5	91	11	102	Fully Tested	99	M	64	196	4.6
TAMORA ***	-	-	4	90	10	95	9	110	14	97	Fully Tested	99	M	70	268	3.0
Nitouche - Yield kg/ha		**4586**		**2568**		**2955**		**5047**		**3914**		**3691**				

Remarks: All green peas in this table are registered with CFIA, indicates varieties with Plant Breeders Rights, varieties marked with (A) are first year entries in 2010. Fully tested varieties were not tested in 2010.
*Stn - station years ** standability - 1 = erect, 9 = flat *** Powdery mildew resistant "-" no data Resistance - P = poor, F = fair, G = good, VG = very good Maturity - E = early, M = medium, L = late.

Other Characteristics

	Resistance to: Powdery Mildew	Myco. Blight	Fusarium Wilt	Bleaching	Seed Coat Breakage	Seed Coat Dimpling
COOPER ***	**VG**	**F**	**F**	**G**	**F**	**G**
CDC 1932-201 (A) ***	VG	F	G	G	G	G
CDC Patrick ***	VG	F	G	G	G	G
Mendel (A)	VG	F	F	G	F	G
Nitouche	P	P	P	G	F	F
Camry ***	VG	F	F	F	F	G
CDC Striker	P	F	G	G	G	F
CDC Sage ***	VG	F	G	G	VG	G
Stratus ***	VG	F	P	P	G	G
SW PARADE ***	VG	P	G	F	G	G
TAMORA ***	VG	F	P	F	F	G

PEAS

	S	F	R	C
AGASSIZ				
BI: AAFC (Lacombe), Dist: Canterra Seeds				
Kapitski, Lawrence / Andrew / (780) 365-2134				C
Wuthrich, David / Cecil Lake / (250) 781-3527				C
ARGUS				
BI: AAFC (Lacombe), Dist: SeCan Members				
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240	S	F		
Oatway, Ward / Lacombe / (403) 784-3418		F		
CANSTAR				
BI: AAFC (Morden), Dist: Canseed (Canada) Ltd.				
Lyster, Norman / Stettler / (403) 742-4456				C
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595			R	
Richards, Cliff & Dan / Sexsmith / (780) 766-2266				C
Victoor, Rene & Jamie / Sturgeon County / (780) 459-3253				C
Zwack, Thomas / Daysland / (780) 374-2450			R	
CDC CENTENNIAL				
BI: CDC, Dist: Sask. Pulse Growers				
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Jonk, Nicholas / Westlock / (780) 349-5458				C
Lefsrud, Kevin J. & Edmund J. / Viking / (780) 336-2500			R	C
Mercer, Lloyd A. & C. & Ryan / Lethbridge / (403) 327-9736			R	C
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
CDC GOLDEN				
BI: CDC, Dist: Sask. Pulse Growers				
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456				C
Nemetz, Charlie, Jerritt & Lewis / Stettler / (403) 742-0436				C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C
CDC LEROY				
BI: CDC, Dist: N/A				
Jonk, Nicholas / Westlock / (780) 349-5458		F		
CDC MEADOW				
BI: CDC, Dist: Sask. Pulse Growers				
Benci, Dennis / Carmangay / (403) 643-2294				C
Boles, Don / Three Hills / (403) 443-0123				C
Crop Production Services-Canada / Didsbury / (403) 335-9171				C
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303				C
Cyre, Clifford & Greg / Barrhead / (780) 349-4775			R	C
Davidson, E. Daryl & Dean / Kitscoty / (780) 846-2456			R	
Hadland, Edward & Lori / Baldonnel / (250) 789-3646			R	C
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929			R	
Harbin, Clifford T. & Bruce C. / Rivercourse / (780) 745-2268				C
Hoff, Peter Edward / Gleichen / (403) 734-2140				C
Hundeby, Donald G. / Wetaskiwin / (780) 352-9992			R	
Jacula, Dean S. & Shawn D. / Vermilion / (780) 853-7333				C
Kiffiak, Edwin H. & Nathan J. / Foremost / (403) 867-2338				C
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			R	C
Leismeister, Wayne / Medicine Hat / (306) 662-3306				C
Limoges, Marcel / McLennan / (780) 324-3024			R	C
Markert, Ron / Vulcan / (403) 485-6708			R	C
Markert, T. Lee / Vulcan / (403) 485-6708			R	C
Massey, Derwin / Stettler / (403) 883-2503			R	C
Mastin, Robert B. / Sundre / (403) 556-2609		F		
Meinczinger, Matthew Jr. / Busby / (780) 349-2456			R	
Mueller, Darcy / Three Hills / (403) 820-4115				C
Mueller, Donald A. / Three Hills / (403) 823-3177				C
Pare, Raymond A. / Wainwright / (780) 842-2073	S	F	R	
Penner, Larry / Three Hills / (403) 443-7212			R	
Peters, Edward W. / Didsbury / (403) 335-4506				C
Radke, Bryan Victor / Barrhead / (780) 674-5715	S	F	R	
Rewerts, Ken / Fairview / (780) 835-3474				C
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358				C
Tomlinson, Chelsea / Redwater / (780) 777-5885				C
Van Roessel, William & Jean / Bow Island / (403) 545-6018				C
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617			R	
Weigum, Garry / Three Hills / (403) 443-2476				C
Welsh, Donald Alan / Milk River / (403) 647-2228			R	
Welsh, Stuart Jason / Milk River / (403) 647-2228			R	
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
Zwack, Thomas / Daysland / (780) 374-2450				C

	S	F	R	C
CDC PATRICK				
BI: CDC, Dist: N/A				
Baier, Bill, Joy & Dean / Clyde / (780) 348-5791	S	F	R	
Blotski, John & Elizabeth / Edmonton / (780) 454-7277			R	
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900			R	
Cunningham, Rex B. & Joyce V. / Mannville / (780) 763-2303			R	
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036			R	
Hadway, W. Tom & Carol / Didsbury / (403) 335-4929		F		
Hegland, David Olaf / Wembley / (780) 766-2450			R	
Hill, Gordon P. / Taylor / (250) 789-3469			R	
Kupka, Randy / Bittern Lake / (780) 672-7340			R	
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240		F	R	
Longson, Wayne / Beaverlodge / (780) 354-2898		F		
Lopushinsky, Julian / Bruderheim / (780) 796-2048			R	
Lyster, Norman / Stettler / (403) 742-4456			R	
McDonald, Gerald / Grande Prairie / (780) 538-3868			R	
Mueller, Richard J. & R.R. & R. / Barrhead / (780) 674-2595	S	F	R	
Penner, Larry / Three Hills / (403) 443-7212			R	
Peters, Edward W. / Didsbury / (403) 335-4506		F	R	
Richards, Cliff & Dan / Sexsmith / (780) 766-2266			R	
Sand, Ron W. & David R. / McLaughlin / (780) 745-2251			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322			R	
Sich, Louis John & Ivan / Trochu / (403) 442-2112				C
Sim, Darwin & Derek / Ponoka / (780) 372-2111			R	
Tomlinson, Chelsea / Redwater / (780) 777-5885			R	
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617		F	R	
Yaremchuk, Leslie / Myrnam / (780) 366-2105				C
Zwack, Thomas / Daysland / (780) 374-2450			R	C
CDC SAGE				
BI: CDC, Dist: Sask. Pulse Growers				
Chin Ridge Seeds Ltd. / Taber / (403) 223-3900				C
COOPER				
BI: Gebeco Zpden, Dist: Canterra Seeds				
Appleby, Kenneth Arthur / Tofield / (780) 662-3583				C
Cyre, Clifford & Greg / Barrhead / (780) 349-4775		F	R	
Desharnais, Donald / High Prairie / (780) 925-3745			R	
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240			R	C
Plante, Jacques / St. Paul / (780) 645-4604				C
CUTLASS				
BI: Cebeco Zaden, Dist: Canterra Seeds				
Webber, John D.J. / Berwyn / (780) 338-3657				C
DS-ADMIRAL				
Logan, Glenn C. & Marie & D. / Lomond / (403) 792-3696				C
GARDE				
BI: Innoseeds B.V., Dist: Bob Park (Lacombe)				
Rewerts, Ken / Fairview / (780) 835-3474			R	
POLSTEAD				
BI: Innoseeds B.V., Dist: FarmPure Seeds				
Massey, Derwin / Stettler / (403) 883-2503				C
Radke, Bryan Victor / Barrhead / (780) 674-5715			R	
REWARD				
BI: AAFC (Morden), Dist: SeCan Members				
Warkentin, Harold K. & Errol / Tofield / (780) 662-2617		F		C
SORENTO				
BI: Limagrain Nederland B.V., Dist: FP Genetics				
Dalton, Dennis / Wainwright / (780) 842-2361			R	C
SW MIDAS				
BI: SW Seed Ltd., Dist: FP Genetics				
Andersen, Ed. A. & N.A. & K. & B.W. & J. / Kitscoty / (780) 847-2586				C
Dalton, Dennis / Wainwright / (780) 842-2361				C
Kapitski, Lawrence / Andrew / (780) 365-2134				C
Markert, Ron / Vulcan / (403) 485-6708				C
THUNDERBIRD				
BI: AAFC (Lacombe), Dist: Canterra Seeds				
Airth, Jock & Linda & Shawna / Brooks / (403) 362-4372				C
Andrukow, Allan / Viking / (780) 385-6402			R	
Cameron, Danny / Millet / (780) 387-5313				C
Galloway Seeds Ltd. / Fort Saskatchewan / (780) 998-3036				C
Kaun, Mark L. / Penhold / (403) 886-4562			R	C
King, Harold F. / Three Hills / (403) 443-7330			R	
Laliberte, Adam / Fairview / (780) 835-3003			R	
Lindholm, Craig, & S. & D. / New Norway / (780) 352-3240			R	
Sendziak, Don P. & Stephen / Edmonton / (780) 434-1322		F	R	
Solick, Leonard & K. & C. / Halkirk / (403) 884-2358				C

SOYBEANS

	S	F	R	C
LS0028RR				
BI: N/A, Dist: N/A				
Quarry Grain Commodities Inc. / Stonewall / (204) 467-8877			R	
LS0065RR				
BI: N/A, Dist: N/A				
Fabian, Patrick V. / Tilley / (403) 377-2000			R	C
NSC WARREN RR				
BI: N/A, Dist: N/A				
Willms, Henry & Timothy H. / Grassy Lake / (403) 655-2434				C
QGC10N				
BI: N/A, Dist: N/A				
Torrie, David / Grassy Lake / (403) 655-2636			R	
QGC12N				
BI: N/A, Dist: N/A				
Torrie, David / Grassy Lake / (403) 655-2636				C
QGC16T				
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Hate Wheat Midge? Hate Spraying?

Prairie wheat growers have found an answer with midge tolerant wheat.

FOR Randy Cay, a farmer and seed grower southeast of Kinistino, Saskatchewan, the decision to plant midge tolerant wheat offers piece of mind and agronomic benefits. Cay runs a third-generation 5,500 acre farm, primarily growing wheat, barley, canola and peas. After many years of dealing with high midge pressure, this spring he planted the midge tolerant wheat variety AC Goodeve VB on over 800 acres – nearly all of his wheat crop.

"We've been in a bad midge area over the years, so not having to worry about the challenges of determining proper thresholds and insecticide application timing this year was a definite advantage," says Cay, noting that from 2007 to 2009 he had to spray almost every wheat acre to control this damaging pest. In one field that wasn't sprayed a few years ago, Cay recalls losing one grade and about 10 bushels per acre to midge damage, even though the stand looked similar.

"This year we were very satisfied with the yield and quality – all grading No. 2," says Cay. "Plus, these new varieties offer great agronomic traits, and would be good varieties of wheat to grow even if they didn't have the midge tolerance built in."

Dave Cook, another Kinistino area farmer, is also greeting midge tolerant technology with enthusiasm. "After spending about $50,000 on midge spray last year, we decided to grow midge tolerant wheat wall to wall this year," says Cook, who planted over 3,000 acres of AC Goodeve VB. "We're really pleased with the quality and yield of this variety. All our earlier seeded fields graded No. 1 with an average 14.2% protein." He also likes the agronomic benefits, particularly the shorter height and standability which makes straight combining a lot easier.

"The best benefit for me is that I didn't spray for midge – I didn't even look this year," he says. While many of Cook's neighbours were out spraying, he didn't really pay much attention to it. "I had confidence in the midge tolerant technology to do the job and it did."

While this new technology is very effective, it does require proper stewardship in order to keep it viable for future generations. "Maintaining the interspersed refuge system is an important part of preserving this technology. The stewardship agreement is a simple, effective way to do that," says Cay.

Farmers planting midge tolerant wheat are required to sign a Midge Tolerant Wheat Stewardship Agreement, which limits the use of farm-saved seed to one generation past Certified seed. This limitation is critical to ensure that the refuge remains at the desired level of 10% of the plant population, as the refuge in farm-saved seed may change substantially over multiple generations.

"If this is going to preserve the midge tolerant technology, then it's definitely worth it," says Cook.

Visit www.midgetolerantwheat.ca to learn more about these new varieties and how the interspersed refuge system works.

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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Fingerprinting Barley

Work done by crop scientists at SCRI, Scotland's world-leading research institute, could see Alberta's barley acres increase in the next few years. The SCRI scientists have released details of how they are using DNA fingerprinting techniques normally associated with police investigations to improve the quality of barley used in whisky making. Fortunately, it makes the processing easier, so it benefits the producer as well. The scientists have developed the ability to DNA fingerprint different barley varieties. In addition, they have developed collections of different barley types that either have been—or will be—scored for key aspects of barley yield and quality. The technique enables researchers to identify specific DNA markers that can be utilised by plant breeders and processors in the identification of varieties for growing and processing. One of the markers does the valuable job in the very early stages of production of enhancing the purity of Scotch whisky. Barley breeders are using the markers developed by SCRI to improve the long term sustainability of the distilling industry.

Protecting Pollinators

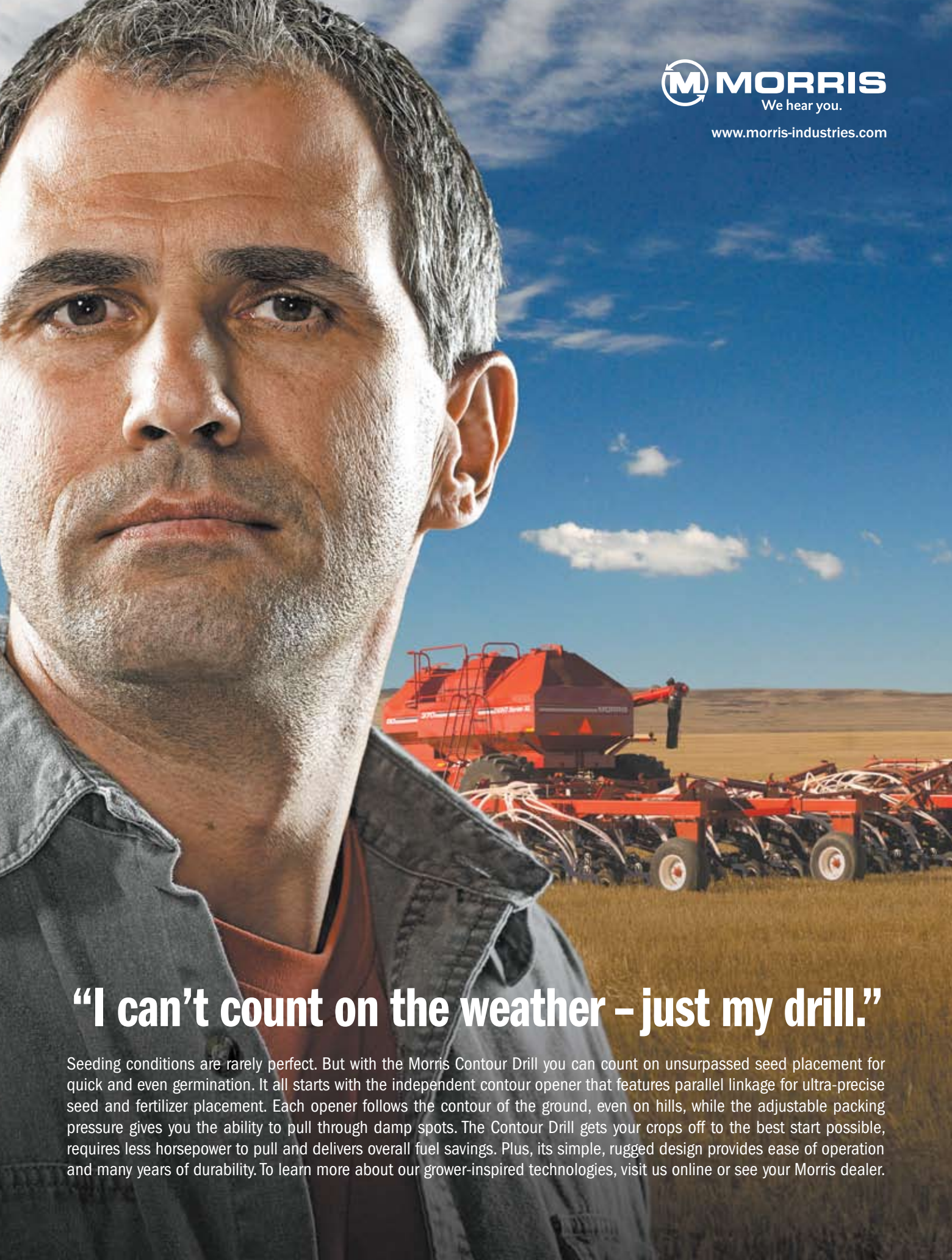
The U.S. Department of Agriculture has released the *2010 Colony Collapse Disorder Progress Report* highlighting current research on this still mysterious disease affecting the world's honey bees. The report summarizes research by federal agencies, state departments of agriculture, universities and private organizations to find the cause of CCD and how to stop or mitigate its impact. CCD, a syndrome characterized by the sudden disappearance of all adult honey bees in a colony, was first recognized in 2006. Since then, surveys of beekeepers indicate that the industry is suffering losses of more than 30 per cent annually. Before the appearance of CCD, losses averaged 15-20 per cent annually from a variety of factors such as varroa mites and other pests and pathogens. During the past three years, numerous causes for CCD have been proposed and investigated. Although the cause or causes of CCD are still unknown, research summarized in the report supports the hypothesis that CCD may be a syndrome caused by many different factors, that work individually or in combination and the sequence and combination may not even be the same in every case.

Reducing Greenhouse Gas Emissions

A new study commissioned by the Canola Council of Canada shows the lifecycle greenhouse gas emissions associated with canola-based biodiesel are 90 per cent lower than emissions related to production and consumption of fossil-based diesel. Canola Council vice-president Robert Hunter explains the study looks at the product's complete lifespan. In the case of canola-based biodiesel, this is from planting all the way to the tailpipe. He says the study results strengthen the Canola Council's push for increased renewable fuel standards. This research may also open new export markets. Both the United States and European Union have sustainability requirements associated with their renewable fuel standards.

Increasing Ag's Footprint

Biofuel derived from crops such as switchgrass certainly holds promise, although some critics maintain that such crops use up too much agricultural land—land that could otherwise be used for growing food crops. A genetic discovery announced recently, however, reportedly allows individual plants to produce more biomass. This means that biofuel crops could have higher yields, without increasing their agricultural footprint. The research was conducted at the Plant Biology Division of Oklahoma's Samuel Roberts Noble Foundation. There scientists discovered a gene that controls the production of lignin within the stems of Arabidopsis and *Medicago truncatula*. Lignin is a compound that adds strength to plant cell walls, which gives stems their rigidity. When the scientists removed the gene, there was a marked increase in the production of lignin and other biomass throughout the plants' stems. Further research with associates at the University of Georgia revealed that by removing the gene, production of cellulose and hemicellulose material in the stem was also increased. These carbohydrate-rich compounds, when converted to sugars, are used to create advanced biofuels like cellulosic-derived ethanol or butanol.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