

SaskSeed

2016 Guide

Saskatchewan Seed Growers Association



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PUBLISHER: Shaun Jessome
MANAGING EDITOR: Michael Raine
EDITOR: Brian Cross
ART DIRECTOR: Michelle Houlden
LAYOUT DESIGNER: Philip Magorrian
ADVERTISING DIRECTOR: Kelly Berg
CREATIVE DIRECTOR: Robert Magnell
MARKETING MANAGER: Jack Phipps

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

ADVERTISING: 1-800-667-7776
Advertising fax: 306-653-8750
advertising@producer.com
NATIONAL SALES: Lisa Graham / Denise Bott
Suite 201 - 300 Willow Road
Guelph, Ontario N1H 7C6
Tel: 519-836-4072 Fax: 519-836-2499

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

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Return undeliverable Canadian addresses to: P.O. Box 2500 Stn Main, 2310 Millar Ave., Saskatoon, SK S7K 2C4.

THE WESTERN PRODUCER

Publications Mail Agreement No. 40069240
Registration No. 10676

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PRESIDENT'S MESSAGE



The adoption of the Agricultural Growth Act at the beginning of 2015 has brought significant change to the seed industry. Now, the industry has uniformity with the UPOV 91 agreement that will provide protection to Plant Breeder Rights and improve the atmosphere for research and development of new varieties.

The industry has reacted positively with announcements of new research initiatives and investment that will benefit producers in

the future with varieties that offer improved genetics and traits.

The Canadian Grain Commission has proposed the adoption of a new variety classification presently known as the Canadian Northern Hard Red Spring (CNHRS). The new classification will provide our end use customers with a more definitive range of milling and baking qualities. Initially, the reclassification of 29 varieties — 25 CWRS and four CPSR — was to take place in August of 2017. That date has been recently moved back to August of 2018 to allow the seed industry and producers more time to adopt new varieties and decide which markets to supply.

In the past few years, producers have been harvesting the success of new varieties with improved genetics and traits. The varieties are higher yielding and more resistant to pests and disease. They also offer improved traits for the end use customer. A good example are the new midge tolerant wheat varieties which have provided significant yield increases with less pesticide use. Less pesticide use also improves our social license as producers.

New crops such as soybeans, fababeans, camelina and carinata are also becoming more common on the prairie landscape. This is the result of investment in research by both the public and private sectors. Through the purchase of pedigreed seed, producers are investing in their future as royalties are returned to variety breeders and developers for reinvestment. The plant breeding process is expensive and time consuming. A variety developed today will take up to 10 years and millions of dollars to bring to market in the future with no guarantee of return on investment.

Included in this guide is a copy of the Varieties of Grain Crops 2015 based on results obtained throughout Saskatchewan. Please use this guide to educate yourself on the attributes of each variety and ensure the most successful result for your operation. Also included is a directory of crop varieties and seed producers with those varieties. Use the expertise of your local pedigreed seed grower who can provide insight of these new varieties and agronomics to your advantage.

The Saskatchewan Seed Growers Association and myself wish you all a prosperous and rewarding year in 2016.

ROY KLYM, PRESIDENT
SASKATCHEWAN SEED GROWERS ASSOCIATION

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SEASON OF SURPRISES BRINGS GOOD AND BAD IN 2015

Drought conditions in spring followed by persistent rains during harvest season



Pedigreed seed crops got off to a tough start in many parts of the province in 2015. Many areas received little or no rain until mid-July. | WP FILE PHOTO

SHIRLEY BYERS | SPECIAL TO SASKSEED

It's an ill wind that doesn't blow somebody some good.

That old expression might be the best way to describe the 2015 growing season in Saskatchewan.

Maurice Palmier grows pedigreed seed — durum, flax, peas and lentils — in the south central part of the province, near Lafleche, Sask.

Yield-wise, the year was a bit above average, he said.

Quality-wise, maybe not so much.

In the northwest, near Meadow Lake, Sask., seed grower Ryan Wilfing grew yellow peas, hard red wheat, CPS wheat, barley and oats.

He described the year as not too bad.

"The CPS (Canada Prairie Spring) wheat didn't perform real well. I think it was hit a little more by lack of moisture. It generally didn't run any better than our hard red wheat," he said.

"We had some surprises — both positive and

negative," he added.

"The canola was better than expected. Some wheat wasn't as good as we thought it was."

In southeast Saskatchewan, near Yellow Grass, James Hansen described the year as "average to a bit above average."

And in east central Saskatchewan, near Kamsack, Mike Fedoruk reported average to below average yields for wheat and barley but above average yields for peas.

"We had an excellent crop of peas," he said.

"They really stood out and our canola did very well."

In 2014, soybean production on the Prairies was up significantly.

Prairie soybean acreage was slightly lower in 2015, but interest in the crop among pedigreed and commercial growers is expected to remain on an upward trend.

Fedoruk and Wilfing both tried soybeans and lentils on their farms this year and gave the experience mixed reviews.

At Kamsack, Fedoruk's Moosomin soybeans,

though one of the early maturing varieties, were harvested on Oct. 15, averaging 33 to 34 bushels per acre.

"Possibly they could have been harvested a bit earlier but we needed that September to mature them," he said. "An early frost could have done big damage."

Fedoruk said he would grow soybeans again but likely not a thousand acres again — maybe more like a quarter section.

At Meadow Lake, Wilfing's lentils had lots of vegetative growth but seed yields were lower than expected.

"They didn't get stressed enough, became indeterminate and never really set much for seed," he said.

"They need to get some heat stress to finish off the flowers and set seed. We decided we were a better fit for peas."

For many Saskatchewan seed growers, early-season drought was the most notable challenge in 2015.

Lack of moisture, especially in May and June, was a limiting factor on Palmier's farm.

In the middle of a hot, hot July, rain finally arrived.

"(The) crop was starting to suffer," he said.

"But the rains gave it a boost and basically gave us some yields as well. We probably had 11 to 12 inches of rain from the middle of July until the end of October."

On Nov. 19, the last of the flax finally went

The canola was better than expected. Some wheat wasn't as good as we thought it was.

RYAN WILFING | MEADOW LAKE, SASK.

Canola thrived and the peas did well too, despite being touched by frost in the spring.

For Fedoruk, the dry spring resulted in patchy emergence for some crops.

Earlier seeded crops such as wheat and cereals were affected the most.

Fedoruk did a trial with Bayer CropScience comparing a new canola variety, L 140 with L 130.

L-140 is considered a straight-cutting variety bred to shatter less.

"When the big winds came through, both varieties were standing," he said.

"Quite a bit shelled out of the L 130 but the new variety didn't really shatter at all. There was probably about a 10 bushel/acre difference."

through Palmier's combine.

The flax he planted was a later maturing variety, and with extra fertilizer and extra moisture, it just didn't want to stop growing, he said.

Wilfing's Meadow Lake farm was also affected by the drought but not as much as some others in the vicinity.

"We either caught a few more showers or our soil held the moisture a little longer," he said.

A dryer than usual spring allowed Wilfing to get his entire crop in the ground by May 1, a very early completion date for the northwest.

"We thought, 'oh this is fun,'" he said.

"Then it never rained, never rained, never rained..."

Wilfing's wheat and other cereals were impacted the most by drought.

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In addition to drought and wind, a variety of other weather related factors affected production, as per usual.

At Yellow Grass, Hansen said two major hail storms hit the area on July 12 and 26.

"Hail storms obliterated some fields but at least gave us some moisture on others," he said. "Not a wipe out, it came back reasonably well."

Before any fields were swathed, a big wind moved one of Hansen's flat bottomed 2,800 bushel steel bins to a neighbour's field.

"Bouncing and rolling across the fields, it got mangled pretty bad," he said.

"I told the neighbour possession is nine tenths of the law. He just got himself a granary — he can deal with it. We laughed and I came back in a few weeks and cleaned up the mess."

Some big winds also tore through Palmier's area in September and October. His farm wasn't affected but some farmers lost swaths and others had to pitchfork some

of their crops into the combine.

In almost all areas of the province, persistent autumn rains prolonged harvest and caused all types of combining headaches.

On the positive side of the ledger, unusual weather conditions in 2015 generally resulted in reduced disease and insect pressure.

Fedoruk noticed a little midge damage in some of his wheat but no fusarium.

Fungicide applications were down noticeably in his area.

"We did a fusarium application ... but there weren't any outbreaks," he said.

"This year, it seemed maybe the type of year plus the fungicide kept it in check."

The dry weather seemed to keep disease at bay on the Wilfing farm too, but there were grasshoppers in the area.

A local retailer told Wilfing he had sold enough grasshopper spray to cover 20,000 or 30,000 acres.

"We've been the only hot spot on the

grasshopper forecast," Wilfing said.

At Yellow Grass, insect pressure was low and Hansen didn't need to apply insecticide.

"While you can never say there were no bugs, this year there were very few," he said.

Palmier sprayed his lentil crop for aphids. He also saw a few grasshoppers, but nothing to get too concerned about.

"Usually what happens in the fall is the hoppers pounce on one field and lay their eggs," he said.

"This year there's so much green around, they're going to be dispersed over some big areas. I don't think it will be a problem."

Fusarium and ergot are generally not an issue in his neck of the Prairies and this year was no different.

"Tests back are pretty decent."

As usual, commercial growers who are finalizing their 2016 seeding plans are encouraged to seek out pedigreed seed supplies as early as possible.

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PEDIGREED SEED ACREAGE REBOUNDS

Inspections were performed on 1.34 million acres last year, the highest level since 2001

Canada's pedigreed seed acreage was up sharply in 2015, according to figures compiled by the Canadian Seed Growers Association (CSGA).

Certified seed growers dedicated nearly 1.34 million acres to pedigreed seed production last year, up from 1.17 million acres in 2014.

Last year's pedigreed acreage was Canada's highest annual total since 2001, when growers planted nearly 1.42 million acres.

Norm Lyster, president of the Canadian Seed Growers Association, said the growth in acreage is a positive sign for the seed industry.

National acreage appeared to be on a steady downward trend between 2001 and 2011. However, acreage has rebounded in the past few years, signifying renewed confidence in the seed industry and agriculture in general.

"Basically the acreage is up from last year and if you look at a slightly longer timeframe, it's a little bit better than it was two years ago," Lyster said in a recent interview with SaskSeed.

"So the overall trend is up and we're pleased that we've recovered from last year's small decline."

According to the CSGA's figures, Manitoba seed growers registered the largest year-over-year increase last year, with 2015 acreage increasing nearly 69,000 acres to 380,000.

Saskatchewan's acreage was up 57,000 acres to 333,000.

Alberta acreage was up nearly 26,000 acres to 305,000.

As usual, wheat was the most widely grown pedigreed seed crop among CSGA members.

Seed growers requested in-

spection on more than 399,000 acres of pedigreed wheat in 2015, up from 320,000 the previous year.

Soybeans were the association's second largest crop at 339,000 acres, followed by barley at 111,000 acres and peas at 71,000.

Lyster said the significant year-over-year increase in pedigreed wheat seed production may have been related to above-average yields that were harvested in 2013.

Pedigreed seed growers harvested huge crops in 2013, with yields that were well above the historical average.

A bumper harvest in the fall of 2013 resulted in unusually large stocks of pedigreed seed available for sale in early 2014.

To some extent, those large inventories entering the 2014 planting season would have influenced seed growers' planting decisions and may have been a key factor contributing to lower pedigreed seed plantings in 2014.

"The wheat acreage had a big rebound in 2015 and I think a lot of that was in Saskatchewan," Lyster said.

"I think seed growers had fairly good inventories or carryovers of wheat and perhaps they didn't want to take any additional risk."

Roy Klym, president of the Saskatchewan Seed Growers Association, said some Saskatchewan growers were also affected by unusually wet conditions in 2014. That may have resulted in the loss of some pedigreed acres in 2014.

"Saskatchewan's pedigreed seed numbers were up substantially (in 2015) and I believe that a lot of that was due to the fact that (some growers)

were severely affected by excess water and disease in 2014 and some of those acres (didn't get inspected)," Klym said.

"Because of the lower 2014 acreage, we also had a lot of declining inventories so I think a lot of pedigreed seed growers were replenishing their stocks (in 2015)."

It remains to be seen how proposed changes to Canada's wheat classification system will impact sales of pedigreed wheat seed over the next year or two, Klym added.

Beginning this year, the Ca-

nadian Grain Commission will make significant changes to the country's wheat classification system.

By August 2018, nearly two dozen CWRS varieties will move into a new milling class, tentatively known as Canada Northern Hard Red (CNHR).

Wheat varieties that are relocated into the new CNHR class will have slightly lower gluten strength than premium CWRS varieties and are expected to sell at slight discount to high-gluten CWRS cultivars.

continued on page 10 >>

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Those changes could result in additional sales of top quality CWRS wheat seed, particularly among commercial grain growers who wish to produce top quality CWRS wheat as opposed to CNHR varieties that are expected to command slightly lower prices.

“The proposed changes are really to assist the end users in buying our product, so in that respect, it should be seen as a real positive,” Klym said.

“It might affect the sale of pedigreed seed (particularly) ... when producers are switching from one class to another, but in the same respect, a lot of producers may decide to stay with the varieties they are already growing, simply for agronomic reasons.”

“We haven’t got an indication from the market yet, that there will be a commercial discount on those new (CNHR) varieties.”

Lyster agreed that the changes could impact pedigreed seed sales, but he said it will be difficult to estimate that impact.

“It’s probably a bit premature to speculate on how that will affect sales but there’s no doubt that there would be a tendency for some farmers to go for (higher quality CWRS) varieties,” he said.

“There’s a huge list of varieties that CGC has already (identified for reclassification) and I think there’s another huge list that they’re still making their decision on.”

On a crop-by-crop basis, wheat was the biggest gainer in 2015, with pedigreed acreage increasing by nearly 79,000 acres year-over-year.

Other crops that saw significant acreage gains in 2015 included soybeans, (up 19,000 acres), barley (up 19,000), alfalfa (up 13,000), barley (up 13,000), peas (up 7,000) and lentils (up 7,000).

For the fourth consecutive year, Canada’s pedigreed soybean seed acreage increased significantly.

In 2011, Canada’s total pedigreed soybean acreage was listed at roughly 220,000 acres.

By 2015, pedigreed soybean seed was grown on almost 339,000 acres, an increase of more than 54 percent over five years.

Lyster said growth in pedigreed soybean acreage is a trend that is likely to continue.

“Soybean acres were up again and that’s part of their continued march west,” he said.

“Certainly, our impression is that that’s not going to stop. We expect to see more of that.”

On a province-by-province basis, Manitoba led the country in overall pedigreed seed acres with 380,000 acres, followed by Saskatchewan (333,000) and Alberta (304,000).

Together, the three prairie provinces accounted for just over one million pedigreed seed acres in 2015, or roughly 76 percent of Canada’s total acreage.

In Saskatchewan, most of the 57,000 acre increase in 2015 was due to increased acres of wheat and barley, Klym said.

But lentil acreage was also up substantially as was acreage of smaller crops such as alfalfa.

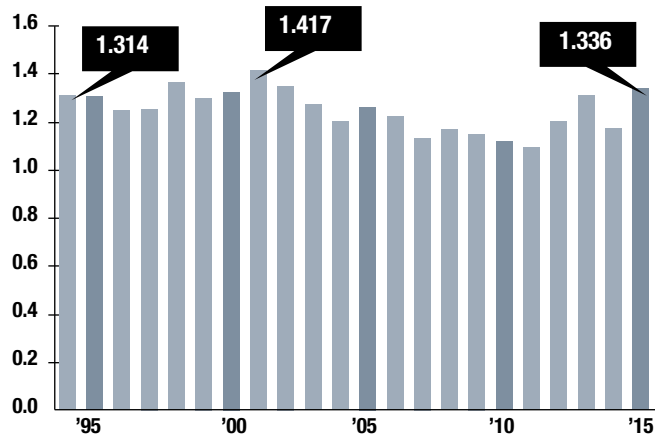
“Alfalfa was up about 2,700 acres which is quite significant for that crop,” he said.

Overall, the higher numbers in 2015 signal an increased level of confidence in the pedigreed seed industry and among commercial farmers in general.

“We have a lot of new varieties out there that are offering people access to better genetics, improved yields and better disease and pest tolerance,” Klym said.

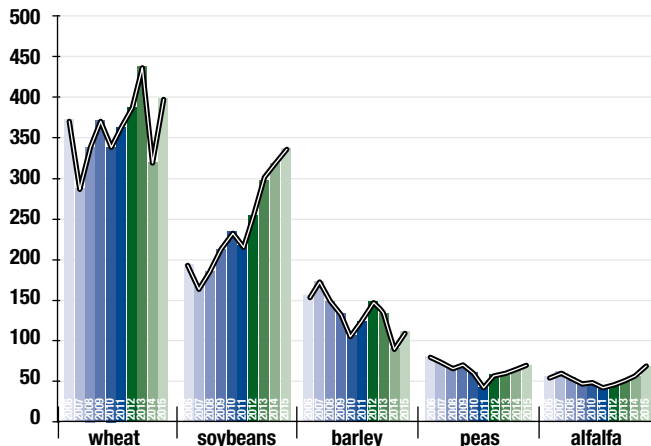
“This is all very positive for the commercial growers, who are beginning to see greater value in using pedigreed seed.”

CANADIAN PEDIGREED SEEDED AREA (MILLION ACRES)



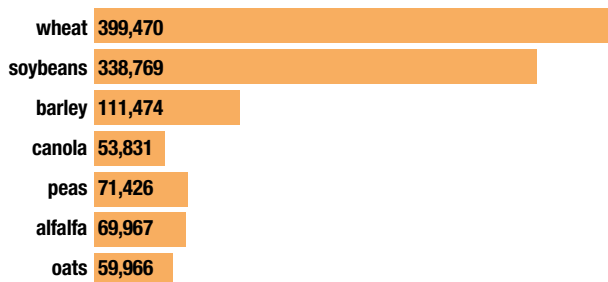
Source: Canadian Seed Growers Association | WP GRAPHIC

PEDIGREED PRODUCTION IN CANADA (000 ACRES), 2006-2015



Source: Canadian Seed Growers Association | WP GRAPHIC

PEDIGREED CROPS IN 2015 (SEEDED ACRES)



Source: Canadian Seed Growers Association | WP GRAPHIC

ASD CONTINUES TO EVOLVE; GROWERS OFFER MIXED REVIEWS

CFIA considers expanding system to include canola and forage crops

SHIRLEY BYERS | SPECIAL TO SASKSEED

The Canadian seed industry is now two years into privatized delivery of pedigreed seed crop inspections, otherwise known as alternative service delivery (ASD).

Pedigreed seed growers say that with one or two exceptions, the new inspection system is working well.

"It's gone quite well for me," says Blair Rempel, who grows pedigreed seed near Nipawin, Sask.

"Other than the higher cost, I've got no problems with it."

"Most people have caught on and aren't having any problems with it," adds Gerald Girodat, who farms near Shaunavon, Sask.

The application process is simple enough and user friendly, he says.

When the federal government announced in 2012 that seed crop inspections services would be privatized, one of the initial concerns raised by pedigreed seed growers was related to cost.

For years, all pedigreed seed crop inspections were conducted by the Canadian Food Inspection Agency. Fees paid by seed growers were subsidized.

Since privatization, inspections costs have gone up, more accurately reflecting the cost of providing the service.

Rempel said his costs have increased. But he said he can live with the higher cost, having benefitted from the subsidized CFIA fees for years. He doesn't pass the extra cost onto his customers.

"Over time, we've attempted to do that but the reality is we charge what the market will bear," he says.

The price of privatized inspection is considerably more than the price that was previously charged by CFIA, Girodat adds.

But CFIA had announced their fees were going up prior to privatization so staying with CFIA might have resulted in increased costs too.

Girodat said re-inspections take a little more time under the ASD model, but they



Most pedigreed seed growers say they are pleased with the level of competition among seed crop inspection companies, but some say service fees are too high. Growers are encouraged to compare prices and service. | WP FILE PHOTO

are usually done early enough to allow producers to make any necessary corrections before harvest.

Girodat says he misses the continuity that existed under the CFIA-only model.

Under the old system, producers often had the same inspector year after year.

If they spotted a problem, they would talk to the producer about it, rather than obliging them to go through the whole inspection process a second time.

Girodat says the company he's using will likely have a different inspector in 2016 and he's not keen on that.

"I'm a little concerned about the consistency of the inspection," he says.

However, fees were a bit lower in 2015 than they were in 2014 — an indication that higher priced providers are adjusting rates in a competitive environment.

He appreciates that and also that growers have a choice and can compare prices.

The CFIA recently conducted a survey that was completed by 175 of 3,500 CSGA members. Results of that survey indicate that most respondents are on the same page as Rempel and Girodat.

"About 18,000 fields are inspected each year," says Mike Scheffel, national man-

ager, seed section at CFIA.

"In 2014 there were 24 accredited seed crop inspection services licensed across Canada. In 2015, that number had increased to 27. There were 313 licensed seed crop inspectors in 2014 and 390 in 2015."

Percentage of fields inspected by privatized inspectors was 98 percent in 2015, up from 89 percent in 2014.

Of producers who returned the survey, 88 percent reported a positive experience with their service provider, up from 83 percent in 2014.

Eighty-seven percent were satisfied with the quality of the inspection and 80 percent felt they had sufficient choice when selecting a service provider.

Growers were asked if they felt inspection fees were competitive in their region. Eighty-three percent said they were.

"Prior to the privatization, CFIA had been doing all inspections for about the past 20 years for \$0.75 per acre plus a per grower charge," says Scheffel.

"That was a highly subsidized service. The real cost was probably closer to four times that amount."

continued on page 12 >>

For 2016, CFIA will continue training inspectors for cereals, pulses and flax. A handful of inspectors will also be trained for hybrid corn.

A pilot project that trained inspectors for plot inspection will be continued and hopefully expanded, says Scheffel.

As far as training for additional crops, the focus will be on hybrid canola in 2016 and forages in 2017.

The Canadian Seed Trade Association (CSTA) would like to see alternative service delivery extended to include canola and would also like to see CFIA approve a second-party inspection model, allowing large canola seed companies to inspect pedigreed seed crops that are being grown for them under contract.

Scott Horner, president of CSTA and a partner in HyTech Production, says he knows there is opposition to the second-party inspection model.

Nevertheless, he believes there are valid reasons for its consideration.

In hybrid canola, there is currently only one service provider offering third party inspection services, while soybeans are under the second party model and corn has first or third, Horner says.

"I guess our belief is if other models exist, other crop kinds should have access to those models and be able to determine on their own which model suits their needs."

Opponents of second-party inspections say the third party inspection model guarantees an unbiased inspector.

Horner concedes that's a common concern but adds that there are many checks and balances in place to address that issue.

The canola seed industry has already demonstrated its ability to self-regulate and to adhere to standards established by the industry itself or by government agencies.

Large canola seed companies spend millions of dollars establishing and maintaining quality assurance systems to make sure that they're not delivering sub-standard seed to the market.

"Outcrossing to volunteers can occur every day in the flowering period," Horner says.

Hybrid canola growers have systems in place to insure that doesn't happen, he adds.

An official field inspection that occurs one time during flowering period is not capable of determining if there will be a quality issue in that seed lot.

INSPECTION COMPANIES ORGANIZING

PRIVATE SEED CROP inspection companies have decided to create a formal organization that will provide unified voice for inspection companies.

Terry Rempel, lead seed inspector at FarmersEdge, says there is a need for private inspection companies to discuss their interests as a group and present their views as a single voice.

Rempel, a former Manitoba seed grower, supports the creation of an association and is in the process of making that happen.

He helped to organize an initial meeting of service providers on Nov. 5 in Saskatoon. About 14 inspection companies participated in that meeting, some via conference call. There were 27 inspection companies licensed to operate in Canada in 2015.

"We wanted a forum where we could all get together and talk about issues involving the inspection program," Rempel said.

"We wanted to be all on the same page dealing with Canadian Seed Growers Association (CSGA) and Canadian Food Inspection Agency (CFIA) and the industry as a whole, to get more of a unified focus."

During the initial meeting, inspection companies discussed a variety of issues that affected their operations.

One of the major issues facing inspection companies is a push by some members of the Canadian Seed Trade Association (CSTA) to implement a so-called "second party" model of inspection.

Under the "second party" model, large seed companies could hire their own employees to inspect pedigreed seed crops that are being grown for them by contracted farmers.

A small number of second party inspections are already being conducted in Canada under a pilot project designed to assess the merits of such a system.

Some private sector inspection companies are concerned that a

move to second party inspections would significantly erode their existing business.

"We feel this would definitely affect our business model," Rempel said.

"I feel, and I think many feel, third party inspection brings a lot of integrity to the whole inspection system."

Service providers also raised concerns about check inspections that are conducted by the Canadian Food Inspection Agency.

On average, about 10 percent of seed crop inspections conducted by private inspection companies are checked by CFIA to assess accuracy and ensure that proper inspection protocols are being used. Inspection companies are required to pay the CFIA for conducting those check inspections.

Rempel said some problems identified by CFIA check inspectors are not communicated to private inspection companies until November or December, after the inspection season is finished. By that time, it's too late to dispute the findings of CFIA's check inspectors or make necessary improvements in the field.

In a late 2015 interview, Rempel said the formation of an association is still in the planning stages.

Another meeting is being planned for January, 2016, with the goal of getting all interested companies together, either in person or on the phone.

"At that time, "we will put forward a proposal for setting up the association formally," he said.

Rempel emphasized the organization's founders will take steps to ensure that a competitive environment is maintained in the seed crop inspection industry.

"We'll definitely include a non-compete clause," he said.

"We're not talking about price fixing or anything like that. We'll make it abundantly clear — that is not what this organization is being formed for."

— BYERS

SEED TREATMENT PROTOCOLS READY FOR ROLLOUT IN 2017

New operational standards will be implemented in less than 12 months

In a little less than a year, a new set of national seed treatment standards will be implemented in Canada.

That means pedigreed seed growers who plan to treat seed for commercial sale or distribution have less than 12 months to ensure their treatment facilities and operations comply with the new regulations.

The new rules will apply to all organizations — including pedigreed seed growers — that treat seed with a designated seed treatment product.

A complete list of designated seed treatment products will likely be made public in early 2016, said Russel Hurst, executive director of the Agrichemical Warehousing Standards Association (AWSA).

The standards take effect Jan 1, 2017.

“Back in 2009... the industry recognized seed treatment as one of the big growth businesses... and we wanted to ensure that we had appropriate stewardship initiatives in place for those seed treatment products,” Hurst explained.

“We also had some conversations with the Pest Management Regulatory Agency (PMRA). They had flagged some concerns about environmental health and safety so we decided as an industry that we should be proactive in addressing stewardship (concerns)...”

According to Hurst, significant steps have been taken during the past few years to develop the standards and ensure compliance.

A pre-audit program that was offered in 2014 and 2015 resulted in a total of 489 pre-audit examinations. Pre-audits involved a site visit by an accredited program auditor, an assessment of facilities and operational procedures, and identification of areas that would require improvements.

Of the 489 pre-audits performed, about one half involved pedigreed seed growers.

“Basically, the pre-audits allowed managers to get a better understanding and a better level of comfort with what our steering group had developed in terms of seed treatment standards,” he said.



The new seed treatment rules were developed by the industry to address safety and stewardship concerns and to ensure that standardized operational procedures are in place. | WP FILE PHOTO

“It also gave them a better idea of how their operations stacked up ... Overall, I think it was a nice opportunity for any facility to get a free gap assessment of their operations.”

According to Hurst, about one-third of the 489 operations that requested a pre-audit were already close to achieving full compliance with the proposed standards.

Operators in that group will need to make only minor modifications to their facilities or operations before Jan. 1, 2017.

Another third of the pre-audit participants will likely require moderate structural or operational improvements, such as enhanced spill containment systems, improved lighting and expanded record keeping systems.

The final third will have more work to do on key system components, he said.

For that group, significant capital outlays may be required to improve critical elements such as storage facilities, floor systems and ventilation.

A preliminary draft of the seed treatment standards — formally known as Accredited

Seed Treatment Operation Standards — was prepared in 2014.

That draft included a total of 76 protocols and best management practices (BMPs).

Sixty six of those were based on existing federal or provincial regulations related to building codes, electrical codes, fire codes, environmental protection measures, labeling and workplace safety standards.

Hurst said some revisions to the standards are likely to be made over the next few months, based on lessons learned during the pre-audit program.

After that, operators of commercial seed treatment facilities will have until Jan. 1, 2017 to ensure their systems are fully compliant and to gain accreditation.

After accreditation is achieved, operators will be subject to regular audits.

Audits will be performed every two years by independent auditors that have been trained and certified by the AWSA.

Auditors will ultimately determine the fees for audit service but Hurst said a typical audit will likely cost around \$500.



Strong feed prices in 2015 will likely contribute to stronger forage seed demand and more plantings in 2016. | WP FILE PHOTO

FORAGE SEED SALES STEADY IN 2016: SURVEY

Demand for forage seed in Saskatchewan is likely to remain stable in 2016 or increase slightly.

That is one of the findings of the 2015 Saskatchewan Forage Market Price Survey, conducted by the Saskatchewan Forage Council.

“There were several reports of producers who had intended on seeding forages in the spring of 2015 (who decided) to postpone due to the dry spring,” said an executive summary of the survey, which was released late last year.

“Saskatchewan forage prices basically doubled (in 2015)...”

As a result “forage seed sales are predicted to remain stable or slightly increased in 2016 due to the higher prices being paid for hay in 2015.”

In a November interview with SaskSeed, Leanna Roussel, executive director of the Saskatchewan Forage Council, said 2015 was a challenging year for livestock and forage producers.

Lack of moisture early in the growing season resulted in poor pasture conditions and forage yields that were well below normal.

“I would say on farm feed inventories (heading into winter) are definitely down,” Roussel said Nov. 26.

“I think people are going to have to be a bit creative with their feeding sources this year.”

The decision to defer planting new forages in 2015 could result in slightly higher demand for forage seed in 2016.

However, Roussel said final planting decisions will depend heavily on soil moisture conditions this spring.

Fall rains that hit much of the province replenished soil moisture reserves in most areas last fall.

However, some areas will be dealing with below average moisture levels this spring, while others will be coping with excess moisture.

“I think, overall, forage producers ended up alright but the rains were really spotty so there were some producers (whose) forage production just didn’t amount too much this year,” Roussel said.

A significant amount of tame hay and greenfeed moved west in 2015, she added.

Hay yields were generally

higher in Manitoba and eastern Saskatchewan. Production in much of western Saskatchewan and Alberta was well below normal.

Forage producers who entered the winter with low soil moisture reserves will be watching winter weather conditions closely.

Weather experts are predicting a mild winter across much of western Canada, with below average snow cover.

A strong El Nino event is likely to add further stress to areas already affected by drought.

Tom Di Liberto, a meteorologist from the National Oceanic and Atmospheric Administration (NOAA), said the current El Nino event is one of the top

three El Ninos observed in the past 60 years or so.

The only stronger events since the early 1950s occurred in 1997-98 and in 1982-83, he said.

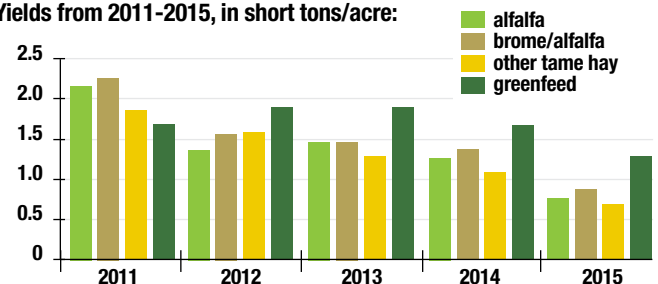
“We don’t see events like this too often,” he said.

“The reason why strength is so important is because usually, the stronger the El Nino, the more likely you’ll see a reliable impact on weather across the mid-latitudes in North America.”

Although El Nino is an oceanic phenomenon that occurs at tropical latitudes, its presence can affect temperatures and precipitation patterns throughout the North American continent.

AVERAGE SASK. HAY YIELDS

Yields from 2011-2015, in short tons/acre:



Source: Saskatchewan Forage Council | WP GRAPHIC

Water temperatures observed during an El Niño event normally peak in the late fall or early winter but the effects on North American weather can be felt for several months afterward.

For western Canadian farmers, there is a strong likelihood that mild, dry winter conditions will have a noticeable impact on agricultural productivity.

“You don’t lose a crop in January but for some growers in the western Prairies, especially some parts of Alberta, they came out of harvest with fairly dry conditions and there hasn’t been much (soil moisture) replenishment,” said Environment Canada meteorologist David Phillips.

Growers might get on to their

fields earlier and ranchers might see lower-than-normal livestock mortality rates in the spring, Phillips said.

At the same time, the impact on pastures and forage production could be significant.

Roussel said existing inventories of hay will also influence forage planting decisions.

Producers will need to weigh their short term feed requirements carefully before mapping out 2016 planting strategies.

According to the SFC report, Saskatchewan’s tame hay acres have remained relatively stable over the past five years, averaging 4.67 million acres per year.

A recent survey of cow-calf producers across western Canada showed that 38 per-

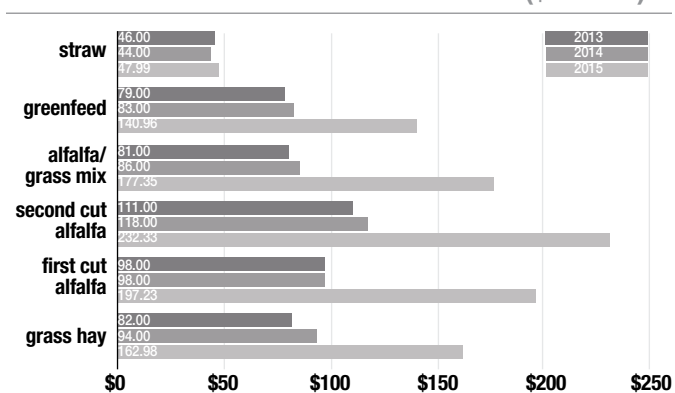
cent of respondents rejuvenate their forage stands every 11 years or more.

Another 25 percent said they renew their forage stands ev-

ery six to 10 years.

That survey was conducted in 2015 by the Western Beef Development Centre.

AVERAGE SASKATCHEWAN FORAGE PRICES (\$/TONNE)



Source: Saskatchewan Forage Council | WP GRAPHIC

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METCALFE, COPELAND TOP LIST OF PREFERRED MALTING VARIETIES

The Canadian Malting Barley Technical Centre (CMBTC) has released its recommended malting barley varieties list for 2016-17.

And once again, CDC Copeland and AC Metcalfe top the list as the most popular varieties of malting barley, with strong established demand among end users.

The annual CMBTC list represents varieties that the malting barley technical centre recommends, based on a combination of factors including quality, performance and commercial demand.

“With this list we provide signals to growers about which varieties we believe have the greatest potential to be selected,” said Peter Watts, managing director of the CMBTC.

“We also recommend growers talk to their local elevators, or selectors from grain and malting companies, about the best two-row and six-row malting barley varieties to grow in their area.”

Watts said the varietal preferences of maltsters and brewers change over time but demand for new varieties often builds slowly.

AC Metcalfe, for example, has been around for roughly 20 years and has been listed as the top variety by CMBTC since 2004.

Newer varieties with improved quality characteristics, better yield potential and enhanced disease packages are available in Canada.

But until demand for those new varieties improves among maltsters and brewers, older established varieties such as Copeland and Metcalfe will continue to command large acres in western Canada.

“Both the brewers and the malting companies are the ones that ultimately decide what’s in demand and what they want to buy,” Watts said.

“From the producer’s perspective, if a variety moves, then producers will continue growing that variety because of the movement, but not always for the yield or the disease package.”

Watts said Metcalfe and Harrington before it were two of Canada’s most popular



The Canadian malting barley industry is looking for ways to more effectively promote new malting varieties to overseas customers, a task that was historically assumed by the Canadian Wheat Board. | WP FILE PHOTO

malting varieties, primarily because they offered very good quality in terms of malting characteristics, processing performance, colour and flavour.

After a number of years however, any variety becomes more prone to disease and is unlikely to be able to match the yield potential and agronomic performance of newer varieties.

“People loved Harrington, for example, but after a while, it was very difficult to wean end users and producers off a variety that sells very well.”

CMBTC and other malting industry stakeholders are assessing strategies aimed at promoting new varieties to end users in Canada and around the world.

Watts said the malting industry is still in a period of transition. It is moving away from an era when the Canadian Wheat Board was solely responsible for promoting new malting barley varieties. Today, private sector companies are in charge of marketing and promotion.

“Historically, the wheat board was in charge of shepherding in new wheat and barley varieties so in the absence of the board, the private industry has had to pick up the ball in terms of shepherding in new varieties and promoting new varieties,” Watts said.

“We’re still trying to figure out how to do that effectively. We’re having discussions right now as to how do we do a better job of introducing new varieties and making sure they get a chance in the marketplace.”

Other two-row varieties on the CMBTC’s 2016-17 recommended list include Bentley, CDC Meredith, CDC PolarStar, Newdale, Merit 57, CDC Kindersley and AAC Synergy.

Six row varieties include Legacy, Tradition and Celebration.

The complete list can be viewed in the yellow section of this publication, on Page VR15.

continued on page 18 >>



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Canada is one of the world's largest suppliers of malting barley and malt to the global brewing industry.

Seeded acres of malting barley across Canada were up 11.5 percent in 2015 compared with the previous year.

Malting varieties accounted for 54 percent of total seeded barley area last year compared with 52 percent in 2014.

According to Watts, strong prices in early 2015 encouraged planting.

The malting barley, malt and brewing industries contribute significantly to the Canadian economy.

Using Statistics Canada data, the CMBTC estimates that Canada exported 1.1 million tonnes of malting barley in 2014-15 worth \$381 million, and 600,000 tonnes of malt worth \$418 million.

Domestically, Canadian brewers use about 230,000 tonnes of malt per year to make 18.5 million hectoliters (400 million imperial gallons) of beer.

Total beer consumption in Canada has



Peter Watts | CMBTC PHOTO

declined by 3.4 percent in the past five years, but the number of breweries has risen 70 percent over the same period to 520, according to Beer Canada.

Despite a small decline in 2014, global beer production has been rising steadily, driven by increased output in Asia, Africa and Latin America.

Global production is on track to surpass two billion hectolitres (44 billion imperial gallons) by 2016.

Coupled with more intensive malt usage in the craft brewing sector, demand for malting barley and malt is growing around the world.

Watts said that is creating greater market opportunities for the Canadian industry.

The recommended barley varieties list is published on behalf of members of the CMBTC with input from grain companies, domestic and international maltsters and brewers, and other affiliated organizations, including the Brewing and Malting Barley Research Institute (BMBRI).

"We consult broadly with the industry gauging the level of interest for specific varieties to have a good understanding of marketing opportunities" said Watts.



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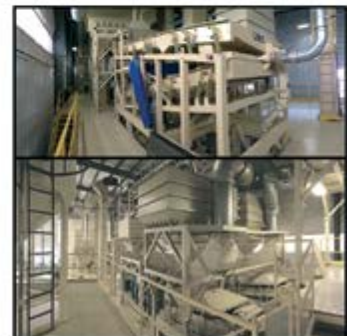
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RESEARCH PROGRAM TARGETS NORTHERN ADAPTED FLAX LINES

Research focuses on flax agronomy and varietal selection

Farmers who grow flax in northern areas of the prairie grain belt can boost yields significantly if they follow some basic rules at seeding time and during the growing season.

That was one of the conclusions drawn from a recently completed, multi-year flax agronomy research project, sponsored by the Western Grains Research Foundation.

Jan Slaski, a researcher who heads the Northern Adapted Flax Agronomy Program, (NAFAP) says flax growers should pay close attention to seeding date, seeding rates and fungicide applications if they hope to maximize flax yields.

In controlled trials conducted over four years at Vegreville, Alta., and Melfort, Sask., flax crops seeded between May 15 and May 20 produced consistently higher yields than crops planted in early May or early June.

Seeding rates are another important consideration, Slaski said.

Plots seeded at a rate of 40 kilograms per hectare produced greater yields than plots seeded at 80 kilograms per hectare. Plots seeded at the heavier rate were more prone to lodging and disease.

“We found, in this year’s plots, that higher seeding rates do not translate into higher seed yields,” said Slaski, a senior researcher with Alberta Innovates Technology Future in Vegreville.

“Conversely, lower seeding rates produced increased

yields across all the tested varieties.”

Between 2011 and 2013, Slaski studied flax agronomy under the Northern Adapted Flax Variety Development Program (NAFVDP), a program that was funded by various groups including the Saskatchewan Flax Development Commission, Crop Production Services (CPS) Canada, Alberta Innovates Technology Futures and the Western Grain Research Foundation (WGRF).

He continued his research under the Northern Adapted Flax Agronomy Program, or NAFAP, a two-year program that began producing data in 2014.

In addition to examining seeding dates and seeding rates, Slaski’s research focused on the beneficial effects of fungicide treatments.

Data collected by Slaski and Cecil Vera, an Agriculture Canada scientist based at Melfort, Sask., seems to support the notion that certain fungicides can boost flax yields significantly, even if disease pressure in the crop appears to be minimal or non-existent.

Although it is still too early to make definitive conclusions, it is possible that some fungicides contain an active ingredient that serves as growth promoter in flax, resulting in higher yields, Slaski said.

The Northern Adapted Flax Variety Development Program was comprised of two elements — a flax agronomy component that examined production practices and a flax breeding component



Flax can be a challenging crop to harvest. New research is identifying lines that are adapted for northern growing conditions. | WP FILE PHOTO

aimed at developing new flax varieties for growers in northern regions of the prairie grainbelt.

Traditionally, flax production in Western Canada has been predominantly focused in the southern prairies.

Michelle Beath, a CPS flax breeder based in Saskatoon, headed the NAFVDP’s flax

breeding efforts.

She said FP2388 and FP2454 are two of the program’s most promising lines.

In their first two years of co-op testing, both lines produced yields similar to CDC Bethune and matured two to three days earlier.

continued on page 20 >>

Straw length of the new lines was shorter than CDC Bethune and stem dry down was improved.

“At physiological maturity, the new lines had browner, drier stems than Bethune which should improve their harvestability,” Beath said.

“They are shorter varieties as well ... which should also help with harvesting.”

In co-op trials, FP2388 was three centimeters shorter than CDC Bethune. FP2454 was six centimetres shorter than Bethune.

The northern adapted flax varieties developed by Beath have shorter straw than traditional or southern adapted varieties.

They also mature more quickly.

So far, Beath’s breeding program evaluated more than 108,000 experimental lines.

In Slaski’s flax agronomy research, seeding date was identified as a key consideration.

“Farmers typically tend to put flax in the ground last,” he said.

“We tested the effects of seeding dates using four different dates and we found that neither a late seeding date nor a very early seeding date resulted in the highest yields.”

Based on Slaski’s trials, flax growers who hope to optimize yields in northern growing areas should sow their crops between May 15 and May 20.

Research that assessed the impact of fungicide applications also produced some interesting results.

At physiological maturity, the new lines had browner, drier stems than Bethune which should improve their harvestability.

MICHELLE BEATH | CPS

Prior to Slaski’s research, a number of flax producers had suggested that applying a fungicide such as Headline EC delivers a significant yield boost, even in fields where disease pressure is minimal.

Headline EC is registered to control Pasmus in flax but anecdotal evidence suggested that the fungicide, or some active ingredient in it, may also act as a growth promoter in flax.

Preliminary research conducted by Slaski and Vera appears to support that theory.

“We found that in certain years, an application of Headline increased the yield of flax by as much as 30 percent,” Slaski said.

“That’s a phenomenal yield increase.”

Slaski said it is still too early to say definitively if Headline acts as a growth promoter or if it simply increases yield by limiting disease-related losses.

Although the Northern Adapted Flax Variety Development Program concluded in 2013, Slaski and Vera received funding to continue their flax agronomy research for two more years under an offshoot program, the North-

ern Adapted Flax Agronomy Program, or NAFAP.

NAFAP produced its first data in 2014. It compared the performance of Beath’s northern adapted lines — FP2388 and FP2454 — with the performance of Prairie Grande, the check variety in northern cooperative trials.

Yield data varied between the two research sites in Vegreville, Alta., and Melfort, Sask., but overall the yields of Beath’s northern adapted lines exceeded those of Prairie Grande.

“One of the northern lines in particular (FP2454) yielded significantly higher,” Slaski said.

“At the Vegreville site, there was almost a 10 percent yield increase when compared to the benchmark.”

Slaski and Vera will continue their NAFAP research but preliminary indications suggest that proper agronomic management is the key to maximizing flax yields in the northern grainbelt.

“It appears that farmers, by adhering to proper seeding dates and applying fungicides, can boost yields by 10 to 20 percent,” Slaski said.



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PLANT BREEDERS RIGHTS: EVOLUTION AND EDUCATION

Canada has a new PBR framework and a new investment landscape. Any questions?

In a few month's time, prairie farmers will return to their fields to begin the massive task of planting wheat, barley, canola and other crops on tens of millions of hectares of farmland.

Collectively, they will spend billions of dollars on chemicals, fertilizer, fuel, labour and seed.

Then, like Jack with his magical beans, they will sink their investments into the ground, pinning hopes of a positive payoff on the weather, global grain markets and the genetic material contained in a tiny kernel of seed.

Top quality seed has always been critically important to the success of western Canada's agricultural producers.

Without it, the productive potential of all other essential inputs including soil, sunshine and moisture, is lost.

This year, as prairie farmers assess their seed requirements, many will be wondering how a new federal law will affect their ability to buy and use seed.

Bill C-18, the Agricultural Growth Act, was enacted by Canada's Parliament less than a year ago, in February, 2015.

Among other things, the Act gives Canada's plant breeders more proprietary control over the seed products they create.

Since its approval, C-18 has been widely celebrated by seed developers, biotechnology companies and organizations involved in the commercial seed trade.

With few exceptions, they say the new law is a breakthrough not only for farmers but for the entire agriculture industry — a move that will spur investment in plant breeding and result in a wider selection of improved seed products with better genetics and enhanced productive potential.

Indeed, the list of organizations that support the new legislation is long and impressive. It includes public plant breeders, private sector seed developers, biotechnology companies and pedigreed seed growers, to name just a few.

But some questions surrounding the new bill have yet to be answered.



Top quality seed is an essential input on Prairie farms. New laws are expected to spur investments in seed development. | WP FILE PHOTO

Some producers, for example, wonder if the new law will have any positive impact on farm productivity, or if it will simply re-

sult in inflated seed costs and larger profits for the companies that develop new seed varieties.

Michel's Industries Ltd.

Generally speaking, companies involved in the development and sale of seed products support the Agricultural Growth Act.

The Canadian Seed Trade Association (CSTA), which represents more than 130 companies involved in seed research, production and marketing, called the new law "a win-win scenario" for all stakeholders in the Canadian seed industry, including farmers.

"Farmers will benefit from greater choice as they will have access to more varieties with a wider range of characteristics, including increased productivity and attributes for specific niche markets," said former CSTA president Dave Baute shortly after the new PBR laws were enacted.

"Plant breeders will gain from a more predictable environment for investment and research and the ability to set the conditions for the use of their inventions."

Closer to home, the Saskatchewan Seed Growers Association also endorses the new PBR framework, saying the new seed laws — including ratification of the UPOV-91 international seed treaty — put Canada's seed breeders on a level playing with seed developers in other countries.

The end result will be more investment into domestic seed breeding programs and the creation of better and more productive seed varieties.

"The SSGA is in agreement with the Agricultural Growth Act C-18 bringing Canada into uniformity with UPOV91," said SSGA president Roy Klym.

"This provides protection to plant breeders to receive compensation for their investment into the development of new varieties and encourages further investment by breeders toward more higher value va-

rieties."

Klym said UPOV-91 still provides growers the right to use "farm saved seed" that was acquired legally but it does impose increased accountability on growers, cleaners and buyers of UPOV-91 protected varieties.

The development of new varieties will provide commercial grain growers with increased choices of desired traits for the betterment of agriculture as a whole, he added.

"We only need to look at the amount of pesticide that was not required due to the adoption of midge tolerant wheat varieties," Klym said.

"The seed industry has always been eager to promote and provide commercial growers with new and improved seed technology and this will hopefully enhance those choices in the future."

In a nutshell, plant breeders' rights are a form of intellectual property protection.

They ensure that the individuals and organizations involved in developing new seed varieties have reasonable proprietary control over the new products they create.

In essence, PBR laws give seed developers a reasonable chance to generate fair financial compensation from the seed products they create and bring to market.

Some of the country's most respected and prolific plant breeders have spoken out in favour of the legislative changes.


Bryan Harvey, a plant breeder from the University of Saskatchewan, was among the bill's most vocal supporters.

Prior to the bill's approval, Harvey said steps aimed at modernizing Canada's PBR Act and bringing it in line with UPOV-91 are long overdue in Canada and should not be feared by producers.



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Harvey, who developed or co-developed more than 50 new varieties of seed, said more investment is needed in plant breeding to ensure that Canada's farmers have access to the best seed genetics possible.

Failure to create a more positive investment environment for plant breeders and seed companies will reduce the ability of Canada's grain farmers to compete with farmers in other major grain producing and exporting nations such as the U.S., Australia and Russia, he added.

Already there are signs that the new PBR framework is attracting investments in Canada's plant breeding sector.

Earlier this year, Canterra Seeds and Limagrain announced a new joint venture aimed at developing new cereal varieties for growers on the Canadian Prairies.

The venture — known as Limagrain Cereals Research Canada — is already taking shape. It has already hired a senior wheat breeder and is in the process of finding a new location for research facilities near Saskatoon.

But just as PBR laws are designed to spur investments in plant breeding, they also restrict how farmers are permitted to use PBR protected seed. Under Canada's new seed laws, farmers still have the ability to save harvested material from PBR-protected seed varieties and use that material for planting subsequent crops on their own farms — a concept known as the Farmer's Privilege.

But at the same time, farmers are prohibited from selling farm-saved seed for the purpose of propagation, exchanging it or transferring it to any other users.

Crosby Devitt, executive director with the CSTA, says producers in Canada have no reason to think that the new PBR laws will erode their ability to use farm saved seed.

The farmer's ability to save seed and re-plant it on their own farms is still intact and protected by law.

"As far as farm saved seed is concerned, the new bill spells out that farmers still have the privilege to save seed... for use on their own farm," Devitt said.

"They can use farm-saved seed from a PBR protected variety, as long as that variety isn't protected by something else like a patent or a contract or a technical use agreement that the farmer has signed."

Another concern raised by commercial grain growers was related to seed costs.



As far as farm saved seed is concerned, the new bill spells out that farmers still have the privilege to save seed... for use on their own farms.

CROSBY DEVITT | CANADIAN SEED TRADE ASSOCIATION

Under Canada's previous PBR laws, plant breeders had the ability to collect royalties on PBR-protected seed varieties for 18 years.

Under the new law, the plant breeder's ability to collect PBR royalties is extended to 20 years.

The new PBR framework also grants seed developers expanded authority to collect revenues but in Canada, it remains to be seen how revenue collections systems will change or if they will be altered at all.

Devitt acknowledged that there has been some discussion within the seed industry about moving to a new revenue collection system known as end-point royalties, or EPRs.

EPRs are a revenue collection mechanism that requires farmers to pay seed royalties on every tonne of grain produced.

Canada's amended PBR Act does not automatically clear the way for the introduction of EPRs but it does contain provisions that would permit such a system at some point in the future.

When the Agricultural Growth Act was being debated in Parliament, former Conservative agriculture minister Gerry Ritz said EPRs would not be introduced in Canada unless they were requested by the industry.

Even then, EPRs would only be considered after a thorough, industry-wide consultation had taken place, involving farmers and all other stakeholders in the Canadian grain industry.

According to Devitt, the seed industry is assessing the merits of different revenue collection mechanisms.

But so far, there are no concerted efforts

to implement EPRs.

Instead, one of the CSTA's top priorities related to Canada's new PBR laws has been to increase awareness and education among growers.

To that end, the CSTA has developed a number of PBR awareness tools, aimed at educating producers, answering questions and debunking some of the unfounded fears that surround Canada's new seed laws.

Key pieces to the CSTA's PBR awareness and education campaign include:

- printed materials, such as post cards, brochures and a document known as PBR FastFacts, which highlights PBR91 changes in a handy fact sheet format;
- a recently launched website, PBRFacts.ca, which contains PBR information for farmers, seed retailers, seed conditioners and buyers of harvested material, and;
- a searchable database of Crop Varieties Registered in Canada and Plant Breeders' Rights Status, developed by CSTA with assistance from the Canadian Food Inspection Agency's variety registration and plant breeders' rights offices.

By accessing the database, farmers and other seed industry stakeholders can easily identify the PBR status of any crop variety registered in Canada. The public database can be accessed at <http://cdnseed.org/library/crop-kinds-database/>.

"We realize there are lots of questions out there, among farmers and other people involved in the seed industry," said Devitt.

"We've put together quite a bit of educational material and we're trying to basically make sure that everyone who's involved or impacted (by the new laws) understands the rules and understands the opportunities related to PBR."

COACHING FOR COMPLIANCE

Canadian Plant Technology Agency offers farmers advice on PBR compliance

By now, a significant number of farmers are probably aware that Canada has a new Plant Breeders Rights Act and a new intellectual property protection framework known as UPOV-91.

But how many farmers have actually had time to sit down and learn about the new Plant Breeders Rights Act?

Between planting a crop, controlling weeds, managing production, spraying for insects and disease, harvesting their crops and marketing their grain, how many growers have found a few spare minutes to think about how UPOV-91 will affect their operations?

Lorne Hadley has spent quite a bit of time thinking about those questions over the past few months.

And in an effort to improve understanding, he's helped to develop a list of recommendations that will ensure farmers and others are operating within the revised PBR framework.

It's part of what Hadley calls "Coaching For Compliance."

"It's really hard to say how much farmers and other stakeholders understand the new PBR framework," says Hadley, executive director of the Canadian Plant Technology Agency (CPTA).

"That's why there is a significant effort to get out and talk to producers and make sure they understand what the new PBR framework means."

In a nutshell, Coaching For Compliance is an industry initiative aimed at increasing PBR awareness and ensuring compliance among farmers and other stakeholders.

According to Hadley, the vast majority of western Canadian farmers will not see any negative impact as a result of the new PBR rules.

"If you're buying legitimate seed and using it on your own farm, there is no impact," he says.

"If you bought certified seed and you're growing it on your own farm and you have no intention of selling it (for propagation), there will be no impact whatsoever."

When the federal government ratified UPOV-91 in mid-2015, it exercised its option to protect the Farmer's Privilege on PBR protected seed varieties.

Farmer's Privilege is a regulatory provision that grants commercial farmers the ability to save harvested material and reuse it for planting subsequent crops on their own farms.

In other words, farmers who legally acquire certified seed can use farm saved-seed for replanting subsequent crops on their own land, unless they have forfeited that privilege by signing technical use agreements, seed use contracts or production contracts that prohibit the use of farm saved seed.

Nonetheless, the new PBR Act does warrant a greater level of understanding.

That's because the new act identifies a number of actions that could be considered infringements of federal law.

For that reason, Hadley says farmers should make efforts to keep accurate production and storage records, scrutinize contracts, pay greater attention to seed tags and labels and

ensure that they sign and retain copies of all seed-related contracts and agreements.

"When the new PBR legislation was brought in, it expanded the number of actions that could be considered infringements," Hadley says.

"That means activities such as stocking seed for sale (without the PBR rights holder's approval), conditioning seed for resale, and processing seed for resale are now considered violations of the new PBR Act."

The legal responsibilities of

other seed industry stakeholders have also changed.

For seed cleaners and conditioners, Hadley recommends that all seed treatment activities be conducted under a written contract or work order, clearly stating that the seed being treated was acquired legally and will be used for legal purposes.

For grain handlers, a key consideration is sourcing of commercial grain.

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In essence, all commercial grain handlers will now be responsible for ensuring that the grain they buy was grown legally, using seed that was lawfully acquired.

Hadley said the commercial seed trade has been working with commercial grain handlers to discuss new obligations and promote the use of farmer declarations, which can be signed at the point of delivery.

Recommendations for other stakeholder groups have also been developed in consultation with lawyers and PBR experts and are currently being distributed by CPTA and other organizations.

“Basically, we’ve put in place recommendations so that the various groups in the value chain will have some way to ensure that they’re complying with the new laws,” explains Hadley.

“We’ve also developed other tools such as the PBR Facts website (www.PBRFacts.ca), written material and a database that lists all of the seed varieties registered in Canada, along with their PBR status.”

“It’s all about the various stakeholders doing their own due diligence to make sure that they are on side.”

CPTA’s Recommendations for Producers

- Purchase certified seed or use seed that was acquired legally
- Keep accurate production and storage records by variety
- Read and understand all contracts
- Understand that labels and tags do outline the terms of a purchase
- Remember, a change in circumstance does not result in a change in the terms of a contracted agreement
- Always keep copies of all contracts and seed related documents.

CPTA’s Recommendations for Seed Processors

- When processing or cleaning seed for farmer clients, always use straightfor-

- ward service agreements or work orders
- Communicate key terms of service agreements clearly and include a producer declaration
- Always confirm the variety and identify its PBR status
- Record and track compliance to service agreement
- If you’re unsure, ask for assistance early

CPTA’s Recommendations for Grain Handlers

- Use a straightforward producer declaration
- Review key terms of agreement
- Confirm variety PBR status
- Record and track compliance
- Don’t buy into a future dispute
- If you’re unsure, ask for assistance early

PBR CHANGES WILL AFFECT SEED CLEANING INDUSTRY

MITCHELL JAPP | SASKATCHEWAN AGRICULTURE

ON FEBRUARY 27, 2015 the Agriculture Growth Act came into force and the revisions of Bill C-18 became law. Included in these changes are upgrades to Canada’s Plant Breeders’ Rights (PBR) Act, which bring it up to UPOV’91 standards.

UPOV’91 is the most recent international treaty of the International Union for the Protection of New Varieties of Plants.

The Saskatchewan Ministry of Agriculture supports the changes to PBR in Canada because of the benefits it provides farmers and breeders.

However, the changes do impact seed cleaning plants. The new act reinforces and extends the right of the breeder to the conditioning (cleaning) of seed (propagating material) for sale or trade. Under the new law, farmers may condition seed of a protected variety that was grown on their own farm for replanting on their own farm (farm saved seed). However, breeder authorization is re-

quired when conditioning seed for other purposes, such as selling, exchanging or trading.

This change places an onus on seed cleaners to ensure that they are not enabling the illegal sale of seed (i.e. brown bag seed).

If seed cleaners condition seed for an illegal sale, they may share a portion of the liability for the infringement of the breeders’ right. Liability is likely to extend beyond the loss of royalties and include costs for enforcement and monitoring.

All varieties granted PBR protection before Feb. 27, 2015 are grandfathered under the old PBR Act. Under the old PBR Act the breeder’s right does not extend to conditioning of propagating material (e.g. seed), which means conditioning these varieties do not present the same risk of liability to seed cleaners. Seed cleaners need to be aware of which varieties are subject to the old rules and which ones are subject to the new rules (granted rights on or after February 27, 2015) under the revised PBR Act. Seed cleaners can review a list of varieties with PBR on the PBR office

website, or unofficial lists are available in the annual publications *Varieties of Grain Crops* and *SaskSeed Guide*.

Seed cleaners are urged to include a declaration in their service agreement or work order, requiring the producer to attest (and sign) that:

- the seed was produced on their own farm;
- they are conditioning the seed for their own use only (unless they are authorized by the breeder to sell the seed);
- the seed was originally acquired legally (as certified seed);
- suggestions for further precautions that seed cleaners can take are available online at the PBR Facts website;
- seed cleaners need to ensure due diligence is maintained in their operations in order to avoid liability of infringement under the revised PBR Act.

Mitchell Japp, (P.Ag) is the Provincial Specialist, Cereal Crops and Irrigation Branch, at the Saskatchewan Ministry of Agriculture. He can be reached at mitchell.japp@gov.sk.ca or at 306-787-4664.

Plant Breeders' Rights Fast Facts



Farmers' privilege

Can farmers save seed?	Yes, the "Farmers' Privilege" is entrenched in the legislation. It allows farmers to produce PBR 91-protected varieties for use as seed on their farms.	It is not spelled out in the legislation, but it is not prohibited.
Can farmers clean grain from PBR-protected varieties for use as seed on their farm?	Yes	Yes
Can farmers sell or advertise for sale seed they have produced from grain of PBR-protected varieties?	No	No
Can farmers exchange seed they have produced from grain of PBR-protected varieties?	No	No

Seed conditioners' and Grain buyers' responsibilities

Can seed conditioners clean seed of a PBR-protected variety for purposes of propagation?	Yes, if the seed was obtained legally (i.e. certified seed was purchased) and if farm-saved seed will only be used on the farmer's own land.	Yes
Do seed conditioners have certain responsibilities when cleaning farm-saved seed of a PBR-protected variety?	Yes, expanded breeders' rights mean that cleaners may be liable for breaches of the breeder's right. They should take precautions to ensure the seed they are cleaning was obtained legally, and that farm-saved seed that they clean will only be used on the farm of the farmer who has brought it in for cleaning.	No
Do grain buyers have certain responsibilities when handling PBR-protected varieties?	Yes, the harvested material provisions mean that grain buyers may be liable for breaches of the breeder's right. They should be aware of the varieties that are protected under the new legislation and be satisfied that the seed used to produce that grain was legally obtained.	No

Want to learn more about Plant Breeders' Rights?
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WORK CONTINUES ON STANDARDIZED SEED VIGOUR TESTS FOR CEREALS

Germination testing is still an important measure of a seedlot's productive potential but it's no longer the only measure.

In addition to germ testing, seed vigour testing can provide seed growers and grain farmers with a more detailed picture of how their seed is likely to perform in less-than-optimal field conditions.

"Germination is an indication of a seedlot's maximum potential — it shows what a seedlot can do under ideal conditions," said Morgan Webb, owner and seed analyst with Seed Check Technologies in Leduc, Alta.

"But vigour is a more sensitive index of seed quality. It can tell you a more about a seedlot than germination alone can."

"For example, it can tell you if a seedlot with adequate germination is going to perform well in the field or poorly, or if it's going to store poorly compared to another seedlot."

In the near future, accredited seed labs throughout Canada will have a standardized protocol for assessing seed vigour — something that's been on the wish list of Saskatchewan seed growers for several years.

Webb sits on a committee of the Commercial Seed Analysts Association of Canada (CSAAC) that's in charge of developing a standardized vigour testing protocol.

Once it's designed, the standardized vigour test will be used by most, if not all commercial seed labs in Canada.

Currently, commercial seed labs that perform vigour tests on cereals are using a variety of testing protocols and methodologies.

In addition to producing variable test results, many of the vigour testing methods in use have not been formally validated or endorsed by the seed testing industry.

Webb's vigour committee is working to change that.

So far, the committee has reviewed and assessed the different vigour testing methods that are currently being used in Canadian seed labs.

It has also identified a vigour testing



The Commercial Seed Analysts Association of Canada is getting closer to developing a standardized lab test to measure seed vigour in cereals. Standardized tests have already been developed for other crops such as peas and canola, and have been adopted by labs across the country. | PHOTO COURTESY SEED CHECK TECHNOLOGIES

methodology that is likely to be adopted as an industry-wide standard.

The preferred methodology is called Radical Emergence Vigour testing.

"It measures rapid uniform emergence and it seems like a fairly rugged and affordable test," said Webb.

"In terms of cost, it's no more costly than

any other vigour test that's out there and it's a test that most labs with germination accreditation will be qualified to use. So we do have a fairly promising method on the outlook."

The push to develop a standardized vigour testing protocol was largely driven by the pedigreed seed industry.

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Vigour is a more sensitive index of seed quality. It can tell you more about a seed lot than germination alone can.

MORGAN WEBB | SEED CHECK TECHNOLOGIES

A few years ago, the Saskatchewan Seed Growers Association raised concerns that vigour tests performed on the same seed lot by different seed labs were producing variable results.

“Over time, some growers began to inquire about getting different test results from different labs,” Webb explained.

“Many felt that there wasn’t a standardized test so they (the SSGA) called us and asked us if we’d take a look at that.”

Webb said efforts to validate a standardized vigour test for cereals was customer driven.

Standardized vigour tests are already in place for many agricultural crops including peas, corn and canola.

But there is no standardized test for cereals.

“Over the last few years, there’s been a little bit of a change in the way that farmers and seed growers do business.

“Today, a lot of them are using agronomists and certified crop advisors ... and a lot of those advisors are asking for vigour tests from seed labs.”

Sarah Foster, president of 20/20 Seed Labs Inc., said some segments of the commercial seed industry have been using vigour tests for

more than two decades.

Foster’s company, for example, began using vigour tests on canola seed back in the late 1980s.

At the time, canola seed companies were looking for ways to enhance the value of their seed products and more accurately assess the productive potential of their new varieties.

Purveyors and users of cereal seeds are moving in the same direction but many labs that test cereal seed vigour have developed their own testing procedures.

Variability within those procedures has led to a situation where comparing one cereal vigour test to another is like comparing apples to oranges.

One of the key factors contributing to test result variability is temperature, Foster said.

“There’s never been a standard method for cereals for a cold test ... so what’s ended up happening is that labs across Canada have developed their own methods,” said Foster.

“One lab’s method may not be far off another lab’s method but even a half a degree or one degree difference in temperature, let alone substrate, can make a huge difference in the establishment and seedling

development rate of a seedlot.”

“In other words, if Lab A tests at 7 degrees Celsius and Lab B tests at 6 degrees, Lab A is always going to get a better result.”

Foster said development of a standardized vigour test for cereals will result in a more accurate testing system that gives seed growers and producers a clearer picture of how their seed will perform.

Although the seed vigour committee has made a lot of progress over the past few years, there’s still a considerable amount of work to be done before a standardized testing procedure is rolled out.

“We’re probably at least two or three years away from having a system that’s recommended by the Commercial Seed Analysts Association of Canada,” Webb said.

“After that, we could probably move into field trials and validation ... so we’re probably a few years off yet”

Once the system is validated and adopted, growers will have a valuable new tool with which to measure seed performance.

“Germination is still an important measurement but rarely is it an accurate indication of exactly what comes up in the field,” Webb said.

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CANADIAN WHEAT INDUSTRY TAKES STEPS TO SECURE MARKET



Milling wheat varieties designated to the new Canada Northern Hard Red classification will offer good milling quality but their gluten strength will be slightly lower than that of Canada Western Red Spring. | WP FILE PHOTO

The Canadian Grain Commission is proposing a number of fundamental changes to the country's wheat classification system, including the creation of a new milling wheat class, Canada Northern Red Spring. How will the changes affect farmers and seed growers?

Prairie farmers will soon be growing wheat for a new class of milling wheat — Canada Northern Hard Red.

In a presentation to seed growers in late 2015, Canadian Grain Commission official Murdoch MacKay said the creation of a new class of milling wheat — CNHR — is just one step in the CGC's plans modernize Canada's wheat classification system.

All told, the grain commission will eliminate three existing wheat classes and create two new ones by Aug. 1, 2016.

The changes are intended to assist the Canadian grain industry with marketing wheat. They are also aimed at ensuring satisfaction among end users, including millers and bakers.

In addition to narrowing quality parameters in key wheat classes such as Canada Western Red Spring (CWRS), the changes will also provide domestic and international users with a more consistent product that offers tighter and more predict-

able end-use characteristics.

"We're looking at developing a new (Canada Northern Hard Red) ... milling class," MacKay said.

"What we want to do is be able to provide a more consistent and balanced functionality because there's been too much variation (in the CWRS class) in the last few years."

A key element of the proposed changes is a plan to narrow the quality parameters within the Canada Western Red Spring (CWRS) class, ensuring that gluten strength and protein levels fall within a more predictable range.

In addition, the creation of a new milling class — tentatively named Canada Northern Hard Red — will allow CGC to reclassify a number of CWRS varieties that have low gluten strength relative to other high gluten CWRS cultivars.

MacKay said varieties within the proposed CNHR class will still offer good milling quality but will have gluten



At this point, I don't think we can say exactly how the changes will impact pricing or marketability.

CAM DAHL | CEREALS CANADA

strength in a range that typically falls below that of Carberry.

The commission has already identified 29 existing wheat varieties that will be moved into the new CNHR milling class.

So far, 25 CWRS varieties have been slated for reclassification, including Lillian, Harvest and Unity.

Four Canada Prairie Spring Red (CPSR) varieties have also been identified for reclassification.

Other varieties could be reclassified as well, pending a more thorough review of CWRS and CPSR varieties in 2016.

American varieties Fallar, Prosper and Elgin will also fall into the proposed new CNHR class.

Fallar, Prosper and Elgin — all registered in Canada in 2015 — and are currently part of an interim wheat class known as Canada Western Interim Wheat (CWIW).

Organizations involved in wheat marketing and promotion, including Cereals Canada and the Canadian International Grains Institute, began sharing details of the new CNHR milling class with domestic and international buyers last year.

Cam Dahl, executive director of Cereals Canada, said stakeholders in the grain industry were consulted about the proposed changes and are generally supportive of the CGC's plan.

"This is a topic that we've spent a fair bit of time on internally ... and we're in a spot now that we think is quite good," Dahl said.

"This is a fairly big change but it's been well received by our international customers and Canadian millers have been

very receptive to the changes as well."

Dahl said grain industry groups have also applauded the timing of the changes, or more accurately, the commission's decision to postpone CWRS reclassifications by one year.

Initially, the CGC had planned to reclassify the low gluten CWRS varieties into the CNHR class on Aug. 1, 2017.

However, commission officials chose to delay those reclassifications by a year, a move that will allow producers and other stakeholders more time to prepare for the changes.

The new transition date is Aug. 1, 2018.

"The fact that the (reclassification) date has been shifted out to Aug. 1 2018 ... will make the adjustment a lot easier," Dahl said.

"A 2017 reclassification would have been difficult for pedigreed seed growers as well as farmers, so I think that extra year will make it a lot easier to get through the transition."

MacKay agreed.

"There were a lot of people that cautioned and advised us to take our time," he said.

"They told us to think about it ... and see if we can get some more information on potential markets, values and grades," before reclassifying.

It remains to be seen how farmers will respond to the reclassification.

Some observers say the creation of a new milling class will result in two different markets, with CWRS commanding a slightly higher price due to its superior milling profile.

However, Dahl said some farmers — depending on their location and yield expectations — might opt to produce wheat for the new CNHR class rather than chasing CWRS premiums.

"At this point, I don't think we can say exactly how the changes will impact pricing or marketability," Dahl said.

"For some growers (the choice between CWRS and CNHR) might depend on where that producer is located.

"For example, if a producer happens to be located within a reasonable distance of a facility that wants to buy CNHR, they might see a very different price structure than producers in other areas."

Wade Sobkowich, executive director of the Western Grain Elevators Association, said Canadian grain handlers also support the proposed changes.

The changes "appear to be on the right track," he said.

"It is important that the classification system evolve to keep up with the demands of customers for Canadian wheat."

"Buyers of Canadian grain like the classification system because they preserve a consistent, premium quality on which they can depend."

MacKay said international and domestic buyers of Canadian wheat began raising concerns several years ago about variability in the milling characteristics and end-use performance of Canada's top grades and classes of wheat.

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Many of the concerns centered on variable gluten strength in the CWRS class.

Those concerns became more pronounced during the past few years, prompting a review of the CGC's wheat classification system.

In Canada, there was consensus among members of the Canadian National Millers Association (CNMA) that there was greater variability than historically observed in the milling and end-use performance of lots of wheat of the same grade and class.

In a recent email to SaskSeed, CNMA president Gordon Harrison said Canadian millers support steps aimed at protecting the integrity of Canada's major wheat classes, specifically CWRS and CWAD.

"CWRS continues to be the most important class of western Canadian hard spring wheat preferred by millers in North America and major export markets," Harrison wrote.

"The wheat class modernization being implemented by the Canadian Grain Commission is consistent with past recommendations of the Canadian National Millers Association to protect the integrity of major milling classes, CWRS in particular, while adding new classes as necessary to accommodate production and marketing of new varieties with end use characteristics not meeting CWRS criteria."

MacKay said the steps in the proposed modernization and reclassification process will include:

- the elimination of three existing wheat classes — Canada Western Feed (CWF), Canada Western General Purpose (CWGP) and Canada Western Interim Wheat (CWIW), which includes Faller, Prosper and Elgin;
- the creation by Aug. 1, 2016 of two new wheat classes, tentatively named Canada Northern Hard Red (CNHR) and Canada Western Special Purpose (CWSP);
- the transfer of U.S. varieties Faller, Prosper and Elgin from the temporary CWIW class to the new CNHR class on Aug. 1, 2016;
- the transfer of 24 already-registered CWRS wheat varieties and four already-registered CPSR varieties to the new northern hard red (CNHR) class on Aug. 1, 2018;
- an ongoing review of additional wheat varieties and classes aimed at optimizing Canada's wheat classification system and ensuring that registered varieties are designated to the proper wheat class.



It is important that the classification system evolve to keep up with the demands of customers for Canadian wheat.

WADE SOBKOWICH | WESTERN GRAIN ELEVATORS ASSOCIATION



It remains to be seen how the new class will affect overall wheat production, varietal selections and pedigreed seed sales of varieties such as Unity, Harvest and Lillian. | WP FILE PHOTO

CGC PROPOSES VARIETY DESIGNATION CHANGES

After consulting with value chain stakeholders and conducting a thorough evaluation of the following varieties, it has been determined that the following varieties do not meet revised quality parameters for the Canada Western Red Spring (CWRS) and Canada Prairie Spring Red (CPSR) wheat classes.

The Canadian Grain Commission will designate these varieties to another class as of August 1, 2018.

CANADA WESTERN RED SPRING (CWRS)

AC Abbey	CDC Osler	Neepawa
AC Cora	Columbus	Park
AC Eatonia	Conway	Pasqua
AC Majestic	Harvest	Pembina
AC Michael	Kane	Thatcher
AC Minto	Katepwa	Unity
Alvena	Leader	5603HR
Alikat	Lillian	
CDC Makwa	McKenzie	

CANADA PRAIRIE SPRING RED (CPSR)

AC Formost
AC Taber
Conquer
Oslo

In addition to the designation changes scheduled to take place on August 1, 2018, the Canadian Grain Commission will initiate a review in 2016, for a period of up to two years, of additional Canada Western Red Spring (CWRS) and Canada Prairie Spring Red (CPSR) varieties.

Varieties to be reviewed include those for which additional quality data is needed before a decision can be made about class designation.

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That's why Jason Farrell, owner of Farrell Agencies in Yorkton, Sask., developed Seed Industry Plus, an insurance program specifically tailored to meet the needs of pedigreed seed growers.

The program was designed more than 20 years ago with input from the Saskatchewan Seed Growers Association and the Manitoba Seed Growers Association.

Farrell describes the program as the only insurance program of its kind in Canada — an insurance products that was built

by prairie seed growers, for prairie seed growers.

"The insurance industry was lacking a program that combined the errors and omissions requirements with replacement cost insurance on the physical seed plants themselves," Farrell explained.

"There just wasn't a product out there at the time that addressed not only errors and omissions but also the unique property insurance requirements for seed processing plants. So in 1994, we put it all together."

Building the program required legwork, know-how and co-operation from the pedigreed seed industry.

After consulting with members of the Saskatchewan and Manitoba provincial seed grower's organizations, Farrell put together a variety of coverage options suitable for the industry and then went out

looking for a company to underwrite the offering.

The Seed Industry Plus program offers the highest coverage limits in the industry and is underwritten by Canadian companies.

Farrell said knowledge of prairie agriculture and a good relationship with the pedigreed seed industry were keys to developing and maintaining the program.

Individual policies offer a variety of coverage levels.

"We have graduated coverage levels but our maximum limit is around \$2 million," Farrell said.

"If you're doing any magnitude of seed retailing, you'd probably want \$2 million coverage."

For additional details on Seed Industry Plus, growers can call Farrell Agencies at 306-783-4477.

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CLUBROOT CONTROL STRATEGIES: ROTATION, ROTATION, ROTATION

Clubroot, a yield-robbing root disease that affects canola yields, continued to show up in fields across the Prairies in 2015, providing a clear reminder to growers about the importance of best-management practices and prevention.

Anastasia Kubinec, an oilseed specialist with Manitoba Agriculture, Food and Rural Development, said the disease was found in Manitoba last year, but it wasn't the first time.

Clubroot has been present in Manitoba since 2011.

"We have found to date seven fields with galls or symptoms," Kubinec said.

"This includes five fields that were discovered in 2015, and two that were discovered in 2013. We have been finding clubroot spores, at concentrations too low to cause symptoms, since 2011."

Evidence of clubroot at very low concentrations is occurring sporadically throughout Manitoba.

On a clubroot map that tracks the disease, 48 fields had been found to have clubroot spores, but only two of those showed symptoms. In the other 46, there was DNA evidence of clubroot and spores but no symptoms on the plants.

Manitoba uses a different method than Alberta to report clubroot evidence.

"In Alberta they are reporting only symptoms," Kubinec said.

"That's where their numbers come from. In Manitoba we're reporting both the DNA findings in the soil and symptoms. We want to let farmers know we have clubroot and it is sporadic. Don't think you're immune because you live in Roblin and the closest we've found it was in Portage. We do want producers to be looking for symptoms in field but prior to that a soil test can be done. We can pick it up at very low concentrations before symptoms or yield losses appear."

In Alberta, Dan Orchard, regional agronomist for central Alberta with the Canola Council of Canada, says clubroot continues to spread in all directions from areas that were previously known to be infested.



With proper management the presence of clubroot spores in soil will not necessarily affect canola production. Spore viability is reduced over time, so the use of proper rotations can limit production risk. | WP FILE PHOTO

A few new counties have identified the disease with a total of 287 new cases discovered in 2015, versus 382 in 2014.

"We are now at about 2,000 fields with known infestation," Orchard said.

"The environment was not very conducive to infection this year (which made) finding the disease more challenging than in previous years."

Brent Flaten, integrated pest management specialist at the Moose Jaw Ag Knowledge Centre, said there were just four findings of clubroot in Saskatchewan in 2015, including two on canola research plots in the St. Louis and Aberdeen areas.

Two other fields in west central Saskatchewan were confirmed with clubroot spores.

The Saskatchewan Ministry of Agriculture coordinates a survey of about 70 fields

each fall looking for clubroot. Even so, Flaten is not sure that all of the existing clubroot is being found.

"We probably have more of it around; it's just that we aren't aware of it," he said.

Saskatchewan, like Manitoba, monitors for clubroot spores as well as symptoms.

"We definitely don't have the issue Alberta has," Flaten said.

"Fortunately for us we can learn from their trials and tribulations."

According to Flaten, clubroot spores will only survive in the soil for a certain period of time.

"We know that the spores have a half-life of about 4 years so half the spores will die within that four years," he said.

"Others may survive up to nine years. It can take quite a long time for the rest of the

spores to still be viable but really, (regarding BMPs), one thing we promote is crop rotation.”

“If we can catch this disease before it gets out of hand, if we’ve got low levels of spore load in the soil and if we can grow canola and also mustard once every four years we can keep that spore load fairly low, you may have clubroot but it may not be enough to affect the root significantly or cause yield loss.”

Regular scouting of fields is also critically important. Look for plants dying prematurely. Check the roots of developing canola plants for the gall formations caused by clubroot.

Field hygiene is also crucial. Although spores can blow in on the wind, they’re much more likely to ride in on trucks and machinery.

Usually clubroot will start in a field at the field access point, said Flaten.

Studies have shown that if you wash the soil off seeding equipment you can actually get rid of 90 percent of clubroot spores.



If we can grow canola and also mustard once every four years we can keep that spore load fairly low.

BRENT FLATEN | SASKATCHEWAN AGRICULTURE

Using a bleach solution for washing adds a further five percent reduction in spores. But remember to rinse thoroughly to avoid rust damage to machinery.

Kubinec recommends having soil tested for clubroot spores but cautions that testing doesn’t eliminate the need for scouting.

Clubroot resistant canola varieties are available but producers are advised to use

them judiciously.

Make sure you don’t “over use” clubroot resistant varieties or put pressure on the resistance by planting canola more than once every four years.

If you’re planting clubroot resistant canola, controlling host weeds that are also in the mustard family — such as stinkweed and shepherd’s purse — is strongly recommended, said Orchard.

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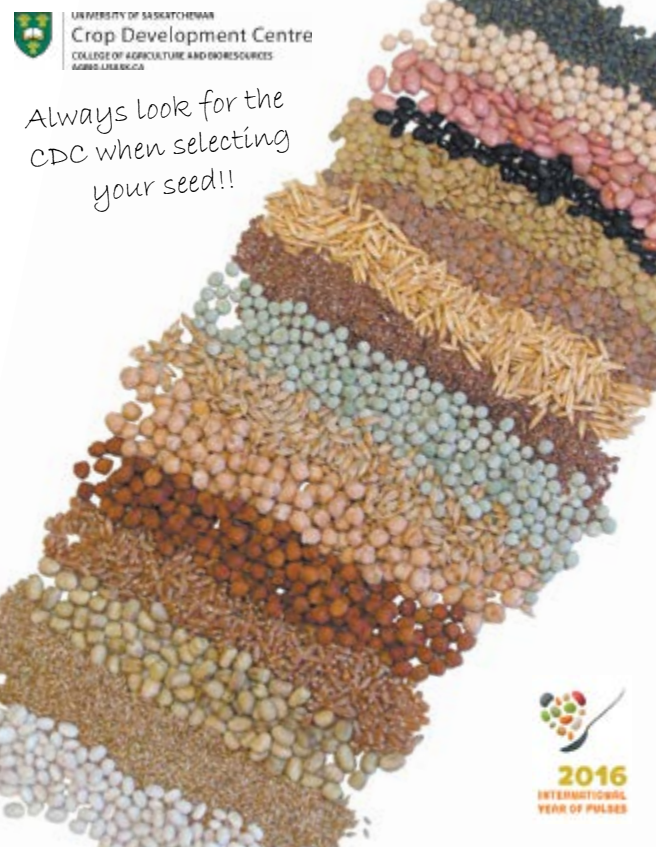
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VARIETY TRIAL PROGRAM BOOSTS MUSTARD BREEDING EFFORTS



Agriculture Canada mustard breeder Bifang Cheng, right, discusses promising experimental mustard lines during a recent tour with growers. | PHOTO COURTESY DARYL MALES

Not long ago, the Saskatchewan mustard industry was facing an uncertain future. Foreign competition and the loss of a system for field testing experimental lines had growers preparing for the worst.

The western Canadian mustard industry has come through some difficult times in the past few years, but today its future looks as bright as ever, thanks in part to some well-timed financial support from the Western Grains Research Foundation (WGRF) and Saskatchewan Agriculture.

In 2013, the WGRF provided the mustard industry with a multi-year grant worth \$165,000.

The money that was used to establish a new pre-registration testing system that assesses the performance of promising new mustard lines under actual field conditions.

“WGRF’s support has been critically important to the industry,” said Baine Fritzer, a long-time mustard producer and board member with the Saskatchewan Mustard Development Commission.

“We’re very pleased that the foundation

is supporting some of western Canada’s minor crops, like mustard, as well as the bigger ones like wheat and barley.”

Pre-registration or co-op testing is a key ingredient to the mustard industry’s success.

It supports breeding efforts and ensures that the new mustard lines being developed and commercialized are well suited to western Canadian growing conditions.

Not long ago, the western Canadian mustard industry was facing some challenging times.

Over a period of several years, funding for the industry’s pre-registration testing program had been declining steadily.

The result was a system that was underfunded and no longer equipped to meet the industry’s needs.

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It's been lifeblood to the industry. (It) has allowed us to re-establish a reliable testing system that supports breeding efforts.

DARYL MALES | MUSTARD 21 CANADA

According to Fritzler, the benefits of a well-funding varietal testing program should not be underestimated

"Without a proper testing system, the mustard industry would be where a lot of other minor crops are right now," he said.

"We would be using a listing system, which basically means that if you're a company and you have a new variety, you simply put it on a list and then you put it out there in the market."

"We've seen this with some other crop kinds and often what happens is the (company) with the biggest advertising budget sells the most seed, and not always for the right reason."

Variety trials are especially important to the mustard industry, he added.

That's because buyers and processors of Canadian mustard are very particular about the quality of mustard that they buy.

A slight deviation in quality or processing characteristics can have a noticeable impact on the end products that processors take to market.

Without a proper testing program, mustard growers would be at risk of growing varieties that aren't suitable for their farms and the companies that process mustard could have difficulty sourcing a product that meets their needs, Fritzler said.

Daryl Males, program coordinator with Mustard 21 Canada Inc., said the re-establishment of a robust testing system has helped put an ailing industry back on solid ground.

"The Canadian mustard industry was one that was falling behind other commodity crops," said Males, who coordinated efforts to rebuild the testing program.

"WGRF funding has been more than critical," he added.

"It's been lifeblood to the industry and has allowed us to re-establish a reliable testing system that supports breeding efforts and will ensure the commercialization of better yielding varieties for the growers."

In western Canada, mustard is not a juggernaut crop like wheat or canola. Production is small — around 400,000 to 500,000 acres a year — and is limited to arid regions in the southern Prairies, usually south of the TransCanada Highway.

Traditionally, Canada has been the world's top exporter, providing nearly 80 percent of the world's condiment mustard.

But Canadian growers are facing new competition from producers in other parts of the world, particularly Eastern Europe.

That, combined with reduced funding from private sector stakeholders in Canada, highlighted the need for additional investments in mustard breeding and varietal development.

"In a matter of a few years, we went from having 12 or 16 test sites for mustard, down to eight and then down to two, and those two weren't even in the traditional production zone for mustard," said Males.

"In plant breeding, a good testing system is everything," he added.

"A good testing program is where a breeding program hits the ground and runs or falls on its face."

Today, the future of the industry has never looked better.

In 2014, Agriculture Canada mustard breeder Bifang Cheng assessed more than 400 synthetic hybrids of yellow mustard at nurseries in Saskatoon and Swift Current.

It is expected that the most promising of those lines will be entered into co-op trials next year.

Work is also continuing on hybrid lines of brown and oriental mustard, which are likely to result in significantly higher yield potential for prairie growers.

"A few years ago, producers were becoming less and less willing to grow mustard because it had not remained competitive as a crop with all of the other cropping options out there," said Males.

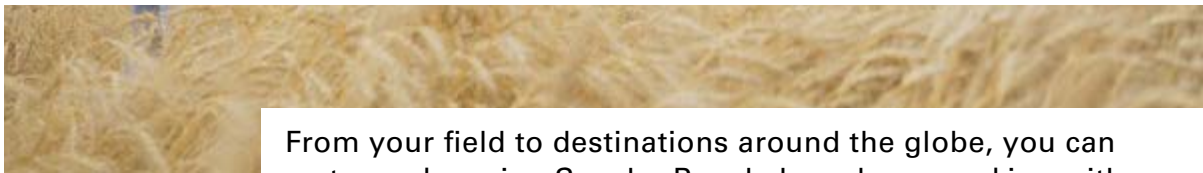
"The money provided by WGRF and Saskatchewan Agriculture has given predictability and stability to the system and to the industry."



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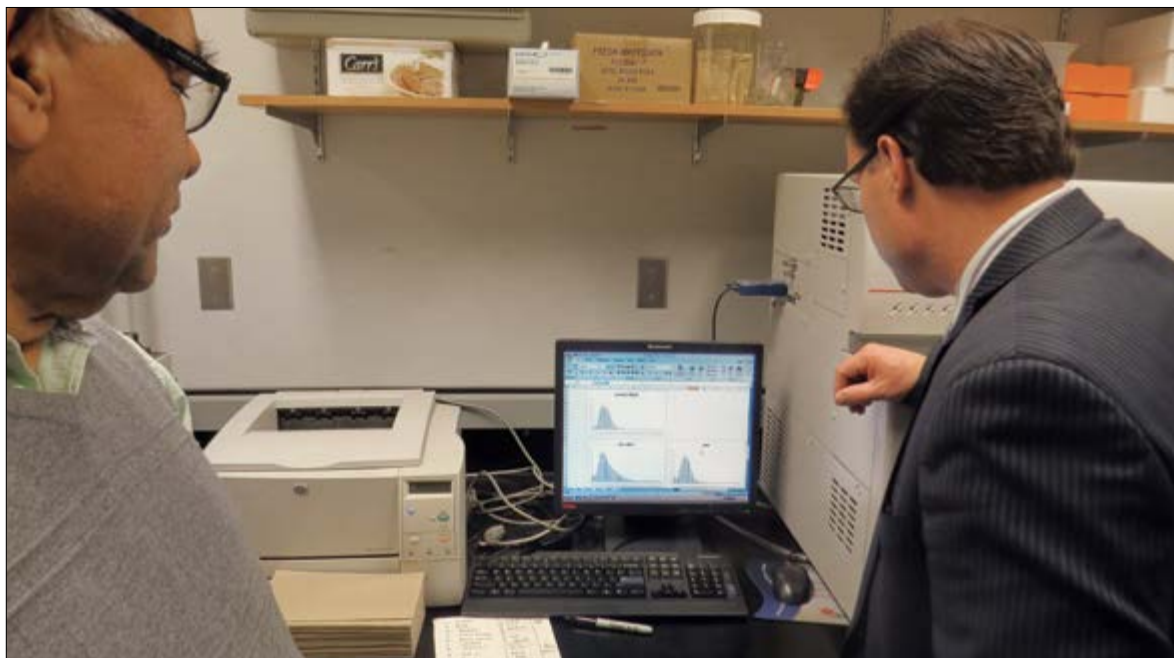
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SASKATCHEWAN RESEARCHER MAKES FUSARIUM BREAKTHROUGH

New screening technique will expedite development of FHB resistant wheat varieties



Plant researcher Ravindra (Ravi) Chibbar, left, describes an in vitro screening method to Saskatchewan MLA Rob Norris during a recent tour of Chibbar's lab at the University of Saskatchewan. The in vitro screening method allows researchers to assess plants in a controlled environment on a year-round basis under defined conditions. | PHOTO COURTESY OF GLORIA GINGERA, UNIVERSITY OF SASKATCHEWAN

A ground-breaking research project supported by prairie farmers and the Western Grains Research Foundation (WGRF) could accelerate the development of valuable new wheat varieties that have improved resistance to fusarium headblight, or FHB.

Ravindra Chibbar, a University of Saskatchewan professor who specializes in molecular biology and genetics, is leading a project aimed at creating new genetic resources that could limit yield losses and quality downgrades caused by FHB.

Chibbar said as many as 10 experimental wheat lines have been identified with enhanced tolerance to FHB, a cereal disease that costs the prairie grain industry tens of millions of dollars annually.

So far, the experimental wheat lines have shown enhanced FHB resistance in a laboratory setting.

In 2015, the lines were tested in the field for the first time.

If they perform well, they could become a source of new genetics for FHB resistant wheat varieties available to growers across western Canada.

"Fusarium headblight is spreading east to west across the prairies and it is a serious challenge to wheat producers," said Chibbar, Canada Research Chair in Crop Quality at the University of Saskatchewan.

"This (2015) will be the first year that the (experimental) lines are actually tested in the field, so we'll see how they perform. If any line stands out, it will be given to wheat breeders ... who will then use the genetics to develop new varieties of wheat."

Chibbar's efforts to develop new sources of FHB resistance grew out of a project that involved the development of wheat spikes in a controlled laboratory setting, or in vitro.

continued on page 48 >>

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A few years ago, he and colleagues at the U of S demonstrated that an immature wheat spike that had not yet emerged from the boot could be grown to maturity in a small test tube under controlled environmental conditions within 35 days.

By growing an immature wheat spike in a test tube, researchers eliminated environmental factors that could not be controlled in a field setting.

After successfully demonstrating the in vitro method, Chibbar then started to think about how the new method could be applied.

He and a colleague decided to apply a mutagenic substance known as ethyl methyl sulfonate, or EMS, to see if the in vitro wheat spikes that develop would contain any genetic mutations.

The results were encouraging.

The addition of EMS created hundreds of genetic mutations in the laboratory population.

The next step was to inoculate the spikes with fusarium spores.

Of the hundred or so mutagenic lines exposed to FHB inoculum, 10 of the most promising have been passed on to plant pathologist Randy Kutcher at the university's Crop Development Centre (CDC) for further assessment in the field nursery.

"We thought the in vitro spike culture would be a very good system to assess and expand the genetic resources to address the problem of fusarium head blight,"

When we assessed the mutagenic lines that had been inoculated with fusarium, some lines had very low disease severity.

RAVI CHIBBAR | UNIVERSITY OF SASKATCHEWAN

said Chibbar.

"It has worked well. When we assessed the mutagenic lines that had been inoculated with fusarium, some lines had very low disease severity. We not only used the in vitro system to diversify the genetic resources but we also used the same system to test for disease resistance"

Chibbar's team has also characterized some of the target genes associated with FHB resistance. The changed nucleotide sequences of these genes have been used to develop genetic (DNA) markers that could be used by wheat breeders to introduce FHB resistance into other non-resistant wheat lines.

Chibbar's research is expected to benefit the western Canadian agriculture sector

in many ways.

For starters, the in vitro method of producing wheat spikes allows researchers to assess plants in a controlled environment on a year-round basis under defined conditions.

This method requires fewer resources, allowing new plant lines to be assessed and developed more quickly and more efficiently.

In terms of limiting FHB, the creation of new mutagenic lines and related genetic markers will give wheat breeders access to valuable new breeding tools.

As it stands, there are few known sources of genetic resistance to FHB.

The only natural wheat variants that offer a beneficial level of FHB resistance are a Chinese line known as Sumai 3 and another experimental line known as Wangshuibai.

"In our mutagenic lines, we have a very good correlation between the genetic markers that we have developed and fusarium resistance," Chibbar says.

"If the marker is present, the plant will be resistant. If the marker is not present, then the plant will probably be susceptible."

Chibbar's project is entitled Combination of Genomics with an Innovative In Vitro Screening Method for Fusarium to Develop Fusarium Head Blight Tolerant Cereal.

The three-year project began in 2013 and will receive more than \$240,000 worth of producer-based funding through the WGRF.



Chibbar's screening method requires fewer resources, allowing new plant lines to be assessed and developed more quickly and more efficiently. | GLORIA GINGERA PHOTO

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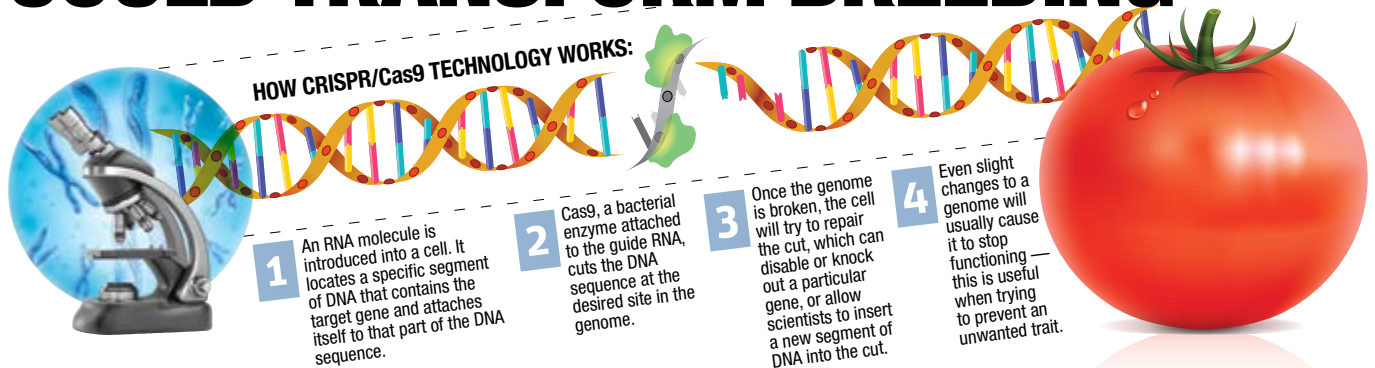


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CRISPR: NEW TECHNOLOGY COULD TRANSFORM BREEDING



ROBERT ARNASON | THE WESTERN PRODUCER

Every story has a beginning, a middle and an end. The story of genetically modified crops began two decades ago, but the tale of that technology may be entering its final chapter.

Many plant scientists believe genome editing, a new method to alter plant DNA, could make GM technology obsolete.

“There’s a whole new tool kit coming, (which) allows genome editing and more sophisticated ways of modifying the plant genome without, I think, giving you a product at the end with this big, hairy GMO label on it,” said Brian Ellis, a University of British Columbia plant scientist.

Ellis is just one of thousands of plant biologists who like the power and simplicity of genome editing. Many think it could revolutionize crop trait development:

“We are at the dawn of a new paradigm in plant breeding,” says Huw Jones, a British plant biologist at Rothamsted Research in nature.com.

“It’s an enormous opportunity, an unfathomable opportunity,” adds Martin Spalding of Iowa State University, in the MIT Technology Review.

Most GM crops were developed with transgenic techniques, or genes from other species, to achieve a trait such as insect resistance in corn or a canola plant with herbicide tolerance.

Genome editing is not transgenic.

Instead, biologists use what is usually described as “molecular scissors” to alter a gene in a plant’s DNA without introducing foreign genes.

The technology has been around for a while, but the established techniques were cumbersome and expensive.

In 2012, scientists unveiled a new method, called CRISPR/Cas9, to precisely cut and paste a gene in a plant’s genome.

Thomson Reuters predicted in September that the CRISPR inventors would win the 2015 Nobel Prize in chemistry, even though the discovery is only three years old.

The CRISPR technology is particularly exciting because it’s efficient, versatile and relatively inexpensive. Its low cost may permit university and government scientists to quickly develop useful crop traits such as disease resistance in wheat or improved oil content in sunflowers.

University of Minnesota scientists and Collectis, a biotech firm, have used genome editing to alter the genes of a Ranger Russet potato so it doesn’t accumulate sweet sugars while in cold storage. When deep-fried, potatoes high in glucose turn a darker brown and can produce acrylamide, a potential carcinogen.

Cibus, an American company, has used genome editing to create a canola variety with tolerance for sulfonylurea, a Group 2 herbicide. Cibus hopes to launch its canola in Canada in 2017.

Faouzi Bekkaoui, executive director of the National Research Council’s Canada

Wheat Improvement Flagship Program, said genome editing is a much-improved version of mutagenesis.

According to the Canadian Food Inspection Agency website, mutagenesis is a method to change the genetic sequence in a plant using chemicals or ionizing radiation. Scientists have used mutagenesis for decades to develop nearly 3,000 plant cultivars. Clearfield canola, which has herbicide tolerance, was created with mutagenesis.

Mutagenesis is time consuming because plant breeders treat tens of thousands of seeds with a chemical mutagen to induce random DNA mutations. Researchers then plant the seeds and look for individual plants that express the desired trait, such as disease resistance.

Mutagenesis can also cause undesirable DNA changes. Bekkaoui said the harmful mutations must be “cleaned up” through cross breeding before a cultivar can be commercialized.

“The advantage of genetic editing ... instead of doing all the random mutations, doing the screening ... you go directly to the gene ... and make that change,” Bekkaoui said.

“I would say it’s very, very promising.”

continued on page 52 >>

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Dave Dzisiak, commercial leader for grains and oils with Dow Agro Science in Canada, said all the major plant science companies have research programs focused on genome editing.

The beauty of the technology lies in its simplicity and cleanliness.

Ellis said biologists can simply tweak one base in the DNA sequence without residual effects.

“Once you’re done that tweaking, there’s going to be no trace of any activity in the genome.”

While many researchers are passionate about the potential of genome editing, others are equally excited about avoiding plant biotech regulations.

Public opinion surveys indicate that half of Canadians and a similar percentage of Americans think GM food is unsafe. Such a hostile environment has prompted government regulators to intensify their scrutiny of GM crops.

Ellis said the investment required to get a GM trait to market has become prohibitive. In some cases it can cost \$100 to \$150 million to develop and register a GM trait.

Even if a GM crop variety does receive regulatory approval in North America, a key export market may still reject it. Dow Agro and Monsanto are currently waiting on Chinese import approval for GM corn and soybeans with herbicide tolerance.

The massive cost and regulatory uncertainty has made biotech firms reluctant to commercialize a GM trait unless it can be used on tens of millions of acres, Ellis said.

“From where I sit, it seems unlikely that many new products developed through the original technology platforms for gene insertion will make it through the regulatory process.”

Genome editing proponents argue the process is distinct from GMO technology. It’s more like mutagenesis, which isn’t regulated as a GMO.

“The new crop variety does not carry any foreign DNA and could therefore be logically excluded from existing regulations on genetically modified crops,” said Jones.

Such logic makes sense, but regulators may not agree.

“The irony is that mutagenesis is just fine in Europe.... This (should) be even more acceptable, but you never know,” said Peter Pauls, department chair in plant agriculture at the University of Guelph.

The U.S. Department of Agriculture al-



Aaron Beattie, a plant scientist from the University of Saskatchewan, said it could be difficult to convince the general public that genome editing differs from genetic modification. | WP PHOTO BY WILLIAM DEKAY

lowed Cibus to launch its herbicide tolerant canola without the regulatory oversight that comes with GMOs. Biotech industry reps say the decision is a sign that genome editing will avoid regulation in North America. European authorities are still evaluating the technology.

Jeff Wolt, who specializes in plant biotechnology at Iowa State University, said industry chatter about regulations and genome editing is troubling.

“We need to stop (saying) this is going to allow us to avoid regulation. (That) is going to do nothing but accelerate activist sentiment against the technology,” he said.

“That kind of message is not going to work with the public.”

Wolt said scientists should emphasize the positive aspects of genome editing to gain public acceptance. Such as it being more precise,

Aaron Beattie, a University of Saskatchewan plant scientist, said making the case that genome editing is different from GMOs could be difficult.

“I think people that don’t like GMOs aren’t going to like genome editing either,” he said.

“It’s too subtle a point to try and pass across to consumers, who already have an issue messing around the genome in any way.”

Dzisiak agreed that explaining the technology is tricky because people are wary of phrases such as genome editing.

“Our science literacy across the popula-

tion is generally quite low,” he said.

“Any time you’re going to (introduce) something new and different... you (need) a good explanation of why it’s safe and what the benefit is.”

While many believe genome editing is a revolutionary advancement, others aren’t as convinced.

Pauls said genome editing is an impressive tool, but it cannot replicate the power of transgenic technology.

“You can modify what exists (in a plant’s DNA) in much more precise ways... but you can’t bring in... absolutely new and novel traits,” he said.

“The old technology... there are no species boundaries. That’s the beauty of it. That’s the magic of it.”

Genome editing can compel a plant to make more of something or less of another, but there are limitations, added Dzisiak.

“You can’t get the plant to make something it doesn’t have the genetic capacity to do.”

However, it is possible that genome editing could be used in combination with genetic modification to improve the precision of transgenic technology, he said.

The use of multiple technologies to develop an improved plant is likely to raise even more questions about the desire, the ability and the capacity of governments to regulate new plant technologies.

This article was originally published in the Nov. 19, 2015 edition of The Western Producer.

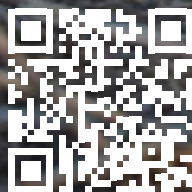


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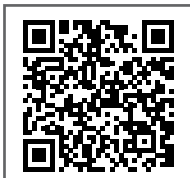


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INDUSTRY BRIEFS

HONOURED – DAVID GEHL

David Gehl was named the 2015 recipient of the Canadian Seed Trade Association's Seed Achievement Award.

Gehl worked at Agriculture and Agri-Food Canada's Seed Increase Unit in Indian Head, Sask., for 25 years.

During that time, he made major contributions to Canada's pedigreed seed industry and became recognized as one of the country's most experienced producers of breeder seed.

During his career, Gehl implemented numerous new protocols for quality assurance in breeder seed production including the use of heat treatments on seed to control seed borne fusarium graminearum.

He was also a pioneer in the development and production of varietal blends of midge tolerant wheat and was largely responsible for the coordination of AAFC's plant breeding activities in overseas winter nurseries.

The CSTA Seed Achievement Award is presented to an individual who has made a significant contribution to the Canadian seed industry in the private or public sector.

The award was presented to Gehl in July during the CSTA's 92nd annual meeting in Windsor, Ont.

SELECTED – SCOTT HORNER

Scott Horner of HyTech Production Ltd., in Lethbridge, Alta., was named the 64th president of the Canadian Seed Trade Association in July, 2015.

Horner has been a member of the CSTA's board of directors since 2008. Prior to becoming CSTA president, he represented the CSTA on the board of directors of the Seed Association of the Americas (SAA) and served as chair of the CSTA's international committee and the CSTA's hybrid canola seed production sub-committee.

"I am truly honoured to have been chosen to represent the Canadian Seed Trade Association as your president," Horner said.

"In my experience, there isn't another industry where people are so dedicated and passionate about what they do and so genuine and amazing to work with. I look forward to working with all of you as we work towards our true potential."

RECOGNIZED – AC ANDREW

AC Andrew was selected Seed of the Year – West for 2014-15.

The soft white spring wheat variety was developed by the late Sadash Sadasivaiah at Agriculture and Agri-Food Canada's Lethbridge Research Centre in Lethbridge, Alta. The line was registered by the Canadian Food Inspection Agency's variety registration office in 2000.

AC Andrew represented a significant breakthrough in terms of grain yield among soft white spring wheat cultivars.

It quickly gained a reputation for large yields in high- and low-input cropping systems and soon became the main cultivar for ethanol production in Canada.

Relative to other varieties, Andrew offered a 20 percent yield advantage and greater ethanol yield per volume.

As part of the Seed of the Year Award, a \$4,000 scholarship is given to a student enrolled in a western Canadian university and currently completing a post graduate degree in plant breeding or genetics.

The 2015 scholarship was awarded to Kirby Nilsen at the University of Saskatchewan whose research focuses on breeding for resistance to the wheat stem sawfly in durum and spring wheat.

APPOINTED – CROSBY DEVITT

Crosby Devitt was appointed chief executive officer of the Canadian Seed Trade Association.

Devitt formerly served as vice-president of strategic development with Grain Farmers of Ontario.

He was also instrumental in forming the Canadian Field Crop Research Alliance and served as chair of the organization

prior to joining the CSTA.

Crosby has a Bachelor of Science in Agriculture and a Master of Science, in Animal Science, from the University of Guelph.

In 2012, he was awarded the prestigious Nuffield Agricultural Scholarship to expand knowledge of international business and farming and build networks with agricultural leaders around the world.

"CSTA has a strong reputation within Canada and internationally as the voice for Canadian seed companies," Devitt said.

"I'm very excited about the opportunity to help meet the challenges and capture the opportunities that lie ahead for the Canadian seed industry."

Devitt joined the CSTA in July, 2015.

RETIRED – PATTY TOWNSEND

Patty Townsend retired in 2015 as chief executive officer of the Canadian Seed Trade Association.

Townsend joined the CSTA as vice-president in 2006 and became the association's top executive in 2011.

Townsend was recognized as a tireless organizer and promoter of the Canadian seed industry.

She was a moving force behind the industry's efforts to modernize the country's Plant Breeders Rights legislation and she led efforts to ensure the ratification of UPOV-91, an international seed treaty that provides enhanced intellectual property protections for plant breeders and seed developers.

Townsend studied agriculture at the University of Saskatchewan in the early 1980s.

She worked in the agricultural media for several years, before pursuing a career in agricultural association management and policy development.

Prior to joining the CSTA, Townsend served as executive director with the Canadian Agri-Food Trade Alliance.

continued on page 58 >>



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LAUNCHED – GUIDE TO TREATED SEED STEWARDSHIP

The Canadian Seed Trade Association and the Canadian Seed Growers' Association in May 2015 jointly launched a new stewardship publication, entitled *Guide to Treated Seed Stewardship: Best Practises for the Safe Handling, Storage, Transportation, Use, and Disposal of Treated Seed*.

The guide was designed for individuals and companies who work with treated seed. It is intended as a tool to assist with the creation of individual seed treatment stewardship plans that comply with provincial and territorial regulations.

The guide was developed by a working group of seed industry professionals and contains a number of best management practices for the handling of seed treated with insecticides and fungicides.

The guide is a complement to the CropLife Canada-developed Agrichemical Warehousing Standards Association (AWSA) Accredited Seed Treatment Operations Standards, which provide uniform health and safety practises for the storage and handling of seed treatment products in Canada.

The guide can be viewed online at www.seedgrowers.ca and www.cdnseed.org.

HIRED – JASON REINHEIMER

Limagrains Cereals Research Canada has hired Jason Reinheimer as its senior cereal breeder. He will join LCRC in February 2016.

Reinheimer, from Western Australia, has 14 years of experience as a senior wheat breeder with Australian Grain Technologies (AGT).

He has undergraduate and post graduate degrees from the University of Adelaide, specializing in agricultural science and plant breeding technologies.

At AGT, he was responsible for durum

and triticale breeding and hybrid wheat development.

LCRC is a joint breeding venture launched by Canterra Seeds and France-based Limagrains.

The new cereal breeding and development program is based in Saskatoon and is led by Erin Armstrong who was named LCRC's chief executive officer.

LCRC's breeding program will focus initially on wheat but will eventually expand into other cereals, including barley.

INDUCTED – RON DEPAUW

Former Agriculture and Agri-Food Canada wheat breeder Ron DePauw was one of five Canadians inducted into the Agricultural Hall of Fame in 2015.

DePauw, along with former Saskatchewan premier Grant Devine, the late E. Ward Jones, Anthony von Mandl and the late Ovila Lebel were formally inducted during a ceremony in Regina, Sask., on Nov. 22.

Until recently, DePauw was a senior principal wheat breeder at Agriculture Canada's Semi-Arid Prairie Agricultural Research Centre (SPARC) in Swift Current, Sask.

He took his first position at Agriculture Canada in the early 1970s and over the next 45 years, became known as one of Canada's most prolific wheat breeders, developing dozens of widely-grown wheat cultivars including AC Barrie, Lillian and Carberry.

DePauw retired from AAFC in 2015.

He is currently working as a science advisor with SeCan.

CHOSEN – GLYN CHANCEY

The Canadian Seed Growers' Association (CSGA) has chosen Glyn Chancey as its new executive director.

Chancey's appointment was announced in July at the CSGA's 111th Annual Meet-

ing in Montreal.

Chancey has held a variety of executive positions in government over the past 30 years.

Prior to joining the CSGA, he worked with the market and industry services branch of Agriculture and Agri-Food Canada, the plant health and biosecurity directorate of the Canadian Food Inspection Agency (CFIA), the red tape reduction commission secretariat at the Treasury Board Secretariat, and most recently, the Canada-U.S. regulatory cooperation council secretariat at the Privy Council Office.

During his time at the CFIA, Chancey was involved in key files that affected the pedigreed seed industry, including seed certification, variety registration and plant breeders' rights.

He also played a pivotal role in the 2004 establishment of the industry-government Seed Sector Review and the establishment of a National Forum on Seed.

Chancey joined the CSGA in October.

He replaces outgoing executive director Dale Adolphe, who has been with the CSGA since January 2002.

MOVING ON – DALE ADOLPHE

Dale Adolphe has retired as the Canadian Seed Growers Association's top executive.

Adolphe served as the CSGA's executive director since January 2002. Over the past 14 years, he led the CSGA through a period of change that saw the implementation of a new variety registration system for Canada, the establishment of a seed sector value chain round table and the introduction of a new on-line seed certification and data management platform.

Most recently, he played a key role in implementing a new alternative service delivery system for seed crop inspection, which has been in place since 2014.

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TOOLS TO HELP YOU MAKE BETTER CHOICES

The CPT system includes both small plot and large field scale trials. Results for 2015 are based on 29 small plot trials and a number of field scale trials across the Prairies. Further information and variety evaluation tools are available online at www.canolaperformancetrials.ca.

Site distribution is based on seeded acres in Manitoba, Saskatchewan, Alberta and British Columbia.

The small plot system ensures that:

- » All varieties are treated with appropriate commercially associated herbicides and seed treatments.
- » An independent third party representative inspects all trials.
- » Varieties are in blocks based on maturity. That way, harvest occurs at the appropriate time to minimize harvest losses due to maturity differences.

Field scale comparisons add extra perspective for assessing consistency in variety performance. For field scale plots, two or more varieties were compared at each site, and each site had a common check, 5440. Comparisons are based on harvested strips of 0.5 to 1.5 acres each. Field scale data is not necessarily replicated in all cases, but the data presented has been audited to make sure it complies with CPT protocols.

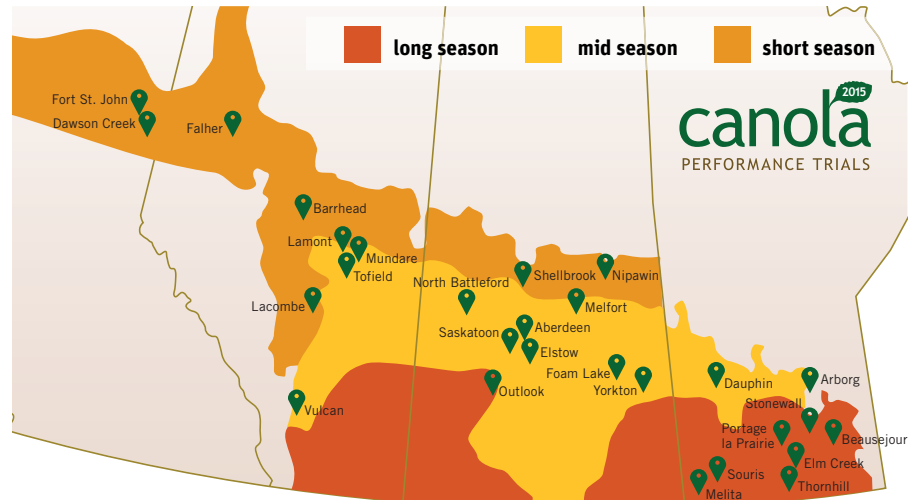
CV – For coefficient of variation (CV), the lower the CV value, the more reliable the test. For example, if comparing results from two test

locations, one with a CV of 4% and the other with a CV of 8%, the test with the CV of 4% can be considered more reliable. There is always variability in research trials. The key is designing and managing experiments so CVs stay within a reasonable range. For the CPT, experience has shown that CVs below 15% indicate good test reliability.

LSD – The least significant difference (LSD at a 5% level of statistical significance) for each dataset indicates whether differences between varieties are statistically meaningful. Varieties should only be considered different in yield performance if the numerical difference between them is greater than the LSD value.

Using the sample table below, if the LSD is 5.0, varieties A and B are not statistically different, B and C are not statistically different, but A and C are statistically different. In the yield graphs for each season zone, LSD for each variety group is given on the left.

Variety	Yield (bu./ac.)
A	52
B	54
C	58
LSD	5.0



USING THE TABLES

Results are organized by short, medium and long season zones. CPT uses the Western Canada Canola/Rapeseed Recommending

Committee (WCC/RRC) season zones, which are based on typical frost free days, growing degree days and soil type. Grey wooded soils, for example, are in the short season zone. See Table A for specific numbers for each zone.

Small plot and field scale data will be presented separately in the following tables. For more detailed performance results, growing conditions and production details for specific trial sites, use the online CPT database at www.canolaperformancetrials.ca.

The tables include yield, days to maturity, height and lodging scores for each variety. Lodging scores are between 1 and 5, with 1 being no lodging and 5 being completely lodged.

Gross revenue is based on yield multiplied by \$10.87/bu. This is based on \$478.30 per tonne, the March 2016 futures close on Oct. 1, 2015 and a 50-pound bushel weight. Premiums are included in the calculations for specialty market varieties.

In the tables, varieties are listed numerically and alphabetically, starting with Clearfield (CL) varieties, followed by Liberty Link (LL) and Roundup Ready (RR).

Each zone and small plot location is identified on the map. Use the map to identify your growing season zone and trial locations closest to your farm.

To evaluate yield potential, look at all small plot and field scale locations in your growing season zone and the average yield for your zone. Consider other information such as maturity, lodging resistance and cost.

Table A: Season Zones

Season	Frost Free Days	Growing Degree Days (Base 5°C)*
Short	75–95	1,100–1,450
Medium	95–115	1,450–1,700
Long	115+	1,700+

*On a base 5°C scale, growing degree days only accumulate on days when highs are above 5°C.

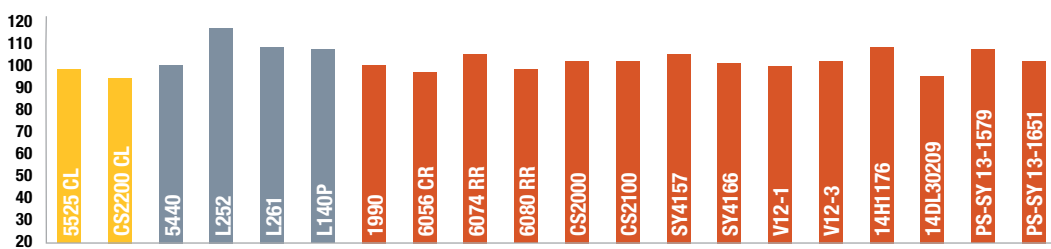
Canola performance trials 2015 results: average results by season zone (small plot data)

Variety	Long Season Zone				Mid Season Zone				Short Season Zone				Disease Tolerance ³	Distributor
	Yield (% 5440)	Maturity (days)	Lodging (1-5)	Height (inches)	Yield (% 5440)	Maturity (days)	Lodging (1-5)	Height (inches)	Yield (% 5440)	Maturity (days)	Lodging (1-5)	Height (inches)		
Clearfield														
5525 CL	98	92	2.3	50	91	96	2.1	48	93	103	2.0	44	BL	BrettYoung
CS2200 CL	94	93	2.5	50	93	97	2.4	47	94	103	2.4	45	BL	CANTERRA SEEDS
LSD (%)	13				14				13					
Liberty Link														
5440	100	93	1.8	51	100	96	1.3	49	100	103	1.6	44	BL	Bayer CropScience
L252	117	93	2.3	49	107	97	2.3	48	111	103	2.0	43	BL	Bayer CropScience
L261	108	94	2.5	54	104	98	1.8	52	106	104	1.5	46	BL	Bayer CropScience
L140P	107	92	3.5	49	99	95	2.9	48	97	101	2.6	43	BL	Bayer CropScience
LSD (%)	10				10				10					
Roundup Ready														
1990	100	92	3.0	46	95	96	3.0	46	89	103	3.4	42	BL	CANTERRA SEEDS
6056 CR	97	95	2.4	49	93	98	2.2	47	90	104	2.1	41	BL / CR	BrettYoung
6074 RR	105	95	2.7	49	102	98	2.1	47	99	105	2.1	44	BL	BrettYoung
6080 RR	98	93	2.4	48	97	97	1.9	48	94	103	2.3	43	BL	BrettYoung
CS2000	102	94	2.4	52	100	97	2.5	50	101	103	3.5	45	BL / CR	CANTERRA SEEDS
CS2100	102	94	2.5	48	-	-	-	-	-	-	-	-	BL	CANTERRA SEEDS
SY4157	105	94	2.3	52	102	98	2.3	49	96	104	2.6	41	BL	Syngenta
SY4166	101	92	3.0	51	98	96	2.9	48	89	104	3.3	41	BL	Syngenta
V12-1 ¹	100	93	2.3	50	94	96	2.8	47	91	103	3.5	41	BL	Cargill – VICTORY Hybrid
V12-3 ¹	102	93	2.7	50	99	97	2.9	47	97	103	3.3	40	BL / CR	Cargill – VICTORY Hybrid
14H1176	108	96	2.4	53	102	99	2.0	50	99	105	2.3	44	BL / CR	Syngenta
14DL30209 ²	95	92	2.8	49	95	96	2.0	46	86	102	3.0	44	BL	DL Seeds
PS-SY 13-1579 ²	107	94	2.0	51	101	98	1.5	49	98	103	1.6	44	BL	Proven Seed / CPS
PS-SY 13-1651 ²	102	92	2.0	48	95	96	2.0	46	90	102	1.9	41	BL	Proven Seed / CPS
LSD (%)	8				11				11					
Check Mean 5440 (bu/ac)	58				64				68					

(1) Indicates varieties with specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details. (2) Indicates varieties that have been supported for registration. (3) Indicates genetic resistance with an "R" or resistant rating to specific disease affecting canola, BL = Blackleg, CR = Clubroot.

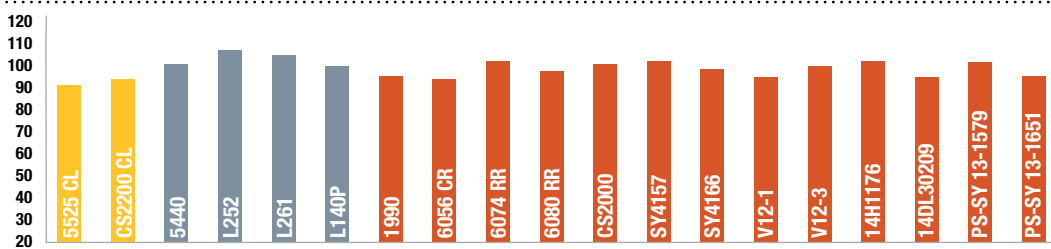
Long Season Zone: % of 5440 (58 bu./ac.)

- Clearfield LSD: 13
- Liberty Link LSD: 10
- Roundup Ready LSD: 8



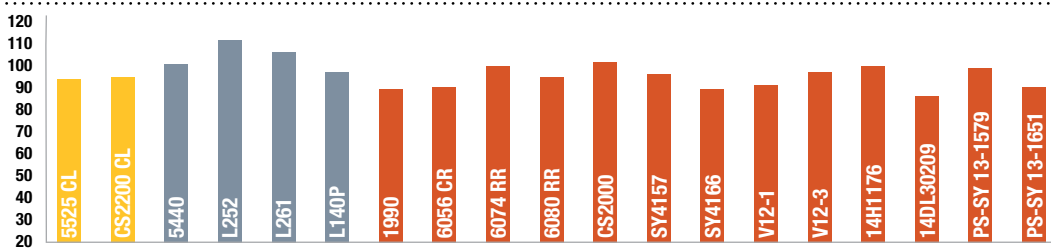
Mid Season Zone: % of 5440 (58 bu./ac.)

- Clearfield LSD: 14
- Liberty Link LSD: 10
- Roundup Ready LSD: 11



Short Season Zone: % of 5440 (58 bu./ac.)

- Clearfield LSD: 13
- Liberty Link LSD: 10
- Roundup Ready LSD: 11



Variety	BEAUSEJOUR, MB					ELM CREEK, MB					MELITA, MB					OUTLOOK, SK				
	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Loaning	Height (in.)	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Loaning	Height (in.)	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Loaning	Height (in.)	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Loaning	Height (in.)
Clearfield																				
5525 CL	104	\$352	94	2	49	108	\$416	94	-	52	109	\$632	97	-	47	95	\$847	97	3	52
CS2200 CL	102	\$343	96	2	51	106	\$409	95	-	50	98	\$564	97	-	42	82	\$735	97	3.3	52
LSD (%)	28					12					9					20				
Liberty Link																				
5440	100	\$338	97	2	51	100	\$385	94	-	49	100	\$577	95	-	46	100	\$894	95	2	48
L252	141	\$474	96	3	55	135	\$521	96	-	49	114	\$661	96	-	47	112	\$1,001	96	2.5	44
L261	121	\$408	97	3	55	114	\$441	97	-	53	117	\$676	97	-	53	103	\$919	97	2.5	51
L140P	129	\$436	97	5	50	111	\$427	94	-	51	104	\$601	96	-	44	102	\$912	96	3.3	49
LSD (%)	21					11					15					13				
Roundup Ready																				
1990	94	\$316	94	3	49	103	\$397	94	-	47	110	\$634	97	-	40	103	\$917	95	3.5	46
6056 CR	108	\$364	95	1	52	108	\$417	96	-	48	102	\$590	98	-	48	95	\$852	100	2.8	49
6074 RR	106	\$359	94	2	47	126	\$485	97	-	49	108	\$624	97	-	43	101	\$907	100	3	53
6080 RR	86	\$289	94	1	50	118	\$453	95	-	48	105	\$604	96	-	38	94	\$842	99	2.8	48
CS2000	103	\$347	96	1	48	115	\$443	95	-	54	102	\$591	96	-	40	97	\$865	98	3	55
CS2100	104	\$350	94	2	50	114	\$438	97	-	50	97	\$560	98	-	40	96	\$859	98	2.8	49
SY4157	109	\$368	95	2	46	124	\$479	97	-	54	111	\$643	98	-	49	100	\$890	98	2.8	52
SY4166	123	\$415	94	3	51	111	\$428	96	-	54	102	\$588	97	-	45	83	\$739	97	3.3	51
V12-1 ¹	100	\$365	95	1	51	118	\$494	96	-	51	104	\$652	97	-	44	88	\$848	99	3	49
V12-3 ¹	125	\$456	94	3	52	115	\$481	96	-	50	103	\$645	97	-	46	94	\$908	97	3	49
14H1176	130	\$440	97	2	54	124	\$480	98	-	53	109	\$632	98	-	45	98	\$877	100	2.8	55
14DL30209 ²	100	\$338	94	2	51	101	\$390	94	-	52	97	\$562	97	-	42	87	\$780	98	3.3	49
PS-SY 13-1579 ²	132	\$446	97	1	53	131	\$506	95	-	50	108	\$624	98	-	43	95	\$851	98	2.5	52
PS-SY 13-1651 ²	118	\$400	95	1	50	117	\$452	95	-	49	104	\$603	96	-	40	87	\$776	98	2.5	49
LSD (%)	18					8					9					11				
Check Mean*	31					35					53					82				
Grand Mean*	35					41					56					79				
CV%	13.1					9.1					6.6					7.8				

(1) Indicates varieties with specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details. (2) Indicates varieties that have been supported for registration. * Check Mean is compared to 5440 and reported in bu./acre. Grand Mean is reported in bu./acre.

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Variety	PORTAGE LA PRAIRIE, MB					SOURIS, MB					STONEWALL, MB					THORNHILL, MB				
	Yield (% 3440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 3440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 3440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 3440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)
Clearfield																				
5525 CL	83	\$622	83	2.8	52	98	\$693	84	1.3	53	88	\$749	91	2	51	99	\$513	98	3	44
CS2200 CL	84	\$629	84	2.8	53	97	\$685	87	1.3	55	83	\$708	92	2.5	49	102	\$528	99	3	47
LSD (%)	11					21					5				2					
Liberty Link																				
5440	100	\$750	84	2	58	100	\$705	88	1	55	100	\$853	91	1.3	55	100	\$518	98	2.5	43
L252	105	\$788	84	2.3	52	105	\$742	89	1.5	51	108	\$926	94	2	52	116	\$599	98	2.8	43
L261	95	\$716	84	2.8	59	103	\$723	90	1.3	56	105	\$893	94	2.5	56	103	\$533	99	3	47
L140P	94	\$707	82	4.5	55	114	\$802	84	2.3	53	97	\$831	89	3	49	105	\$543	97	3	41
LSD (%)	9					6					5				4					
Roundup Ready																				
1990	91	\$680	83	4.3	51	111	\$782	86	1.5	50	97	\$827	89	3	46	95	\$492	98	3	42
6056 CR	82	\$616	85	3.5	54	100	\$702	92	1	53	88	\$755	93	3.3	49	93	\$480	99	3	44
6074 RR	87	\$653	84	3.3	54	111	\$785	91	1.5	55	100	\$850	95	3.3	49	102	\$529	99	3	45
6080 RR	91	\$685	84	3.8	53	108	\$761	87	1.3	51	95	\$814	89	2.8	52	91	\$471	98	3	42
CS2000	88	\$657	85	2.8	57	99	\$695	90	1.8	55	100	\$850	92	2.5	57	112	\$579	99	3.3	47
CS2100	93	\$697	84	2.8	54	109	\$770	88	2	51	94	\$805	93	2.3	50	109	\$564	99	3	41
SY4157	91	\$684	86	2.8	58	104	\$733	89	1.3	54	96	\$819	94	2	55	108	\$559	99	3	48
SY4166	89	\$665	82	4	55	107	\$756	86	2	58	91	\$780	89	2.3	52	103	\$536	97	3.3	42
V12-1 ¹	86	\$702	83	3	58	109	\$833	87	1.5	54	93	\$858	93	2.5	52	103	\$579	98	3	42
V12-3 ¹	83	\$677	84	2.8	54	103	\$783	89	2	54	92	\$851	92	2.5	53	101	\$569	99	3	42
14H1176	87	\$649	87	2.8	56	109	\$766	92	1.3	59	95	\$807	96	2.5	54	110	\$568	99	3	49
14DL30209 ²	89	\$667	82	3.5	54	98	\$693	85	2	54	87	\$742	89	3	48	100	\$519	98	3.3	44
PS-SY 13-1579 ²	92	\$690	85	2.8	56	93	\$653	90	1	53	96	\$818	94	2.5	54	108	\$560	99	2.5	47
PS-SY 13-1651 ²	89	\$671	82	2.5	53	99	\$700	86	1	49	92	\$781	89	2	49	108	\$559	98	3	45
LSD (%)	7					7					5				10					
Check Mean*	69					65					79				48					
Grand Mean*	62					67					74				49					
CV%	5.7					6.6					3.3				6.3					

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Variety	ABERDEEN, SK					ARBORG, MB					DAUPHIN, MB					ELSTOW, SK					FOAM LAKE, SK				
	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)
Clearfield																									
5525 CL	90	\$402	99.5	—	36	80	\$370	—	2.5	44	95	\$605	90	1.0	50	81	\$570	98	2.5	47	85	\$764	95	3.0	49
CS2200 CL	94	\$419	99.5	—	37	80	\$369	—	2.0	44	96	\$611	91	1.0	49	89	\$621	99	3.0	46	85	\$763	96	3.3	52
LSD (%)	15					1					8					33					15				
Liberty Link																									
5440	100	\$447	97.3	—	36	100	\$463	—	1.0	45	100	\$639	89	1.3	53	100	\$702	97	2.8	49	100	\$893	95	1.5	55
L252	114	\$509	97.0	—	36	100	\$502	—	3.8	39	116	\$738	92	1.0	52	93	\$651	99	2.5	48	109	\$970	96	3.0	52
L261	89	\$399	98.8	—	37	103	\$477	—	3.5	47	109	\$698	91	1.3	52	94	\$659	99	2.5	49	102	\$915	98	1.8	57
L140P	93	\$414	99.0	—	34	97	\$450	—	4.8	42	110	\$700	89	1.8	52	92	\$642	97	2.5	44	94	\$842	92	4.0	53
LSD (%)	9					19					13					17					8				
Roundup Ready																									
1990	98	\$436	98.8	—	36	81	\$375	—	3.5	38	111	\$712	94	2.0	47	89	\$623	99	2.5	42	85	\$764	93	4.0	44
6056 CR	91	\$407	99.0	—	36	65	\$302	—	1.3	42	108	\$691	94	1.3	50	98	\$687	99	2.5	44	88	\$790	95	2.8	49
6074 RR	111	\$495	99.0	—	36	81	\$376	—	2.5	42	122	\$719	96	1.5	48	82	\$574	99	2.3	44	101	\$900	97	2.3	49
6080 RR	98	\$438	97.8	—	34	80	\$371	—	1.5	42	115	\$735	95	1.5	51	89	\$625	98	2.5	44	93	\$828	95	2.8	50
CS2000	114	\$509	98.5	—	38	91	\$421	—	2.0	45	117	\$748	94	1.8	51	85	\$597	99	2.8	50	96	\$859	95	3.5	52
SY4157	107	\$476	99.0	—	35	109	\$504	—	2.8	46	108	\$691	92	1.5	53	88	\$615	100	3.0	43	98	\$879	96	2.5	51
SY4166	104	\$465	99.0	—	37	93	\$430	—	4.3	41	112	\$717	91	1.8	51	96	\$670	99	3.0	45	93	\$830	94	3.3	48
V12-1 ¹	97	\$469	99.3	—	35	87	\$439	—	3.0	40	106	\$734	92	1.8	50	98	\$742	99	2.8	45	91	\$878	95	3.3	50
V12-3 ¹	103	\$500	99.0	—	36	90	\$451	—	4.0	39	108	\$748	91	2.0	48	97	\$736	98	3.0	46	92	\$889	96	3.0	48
14H1176	98	\$484	99.5	—	35	99	\$457	—	1.8	45	110	\$700	93	1.5	54	92	\$647	99	3.0	46	91	\$811	97	2.3	51
14DL30209 ²	108	\$437	98.8	—	36	83	\$384	—	3.0	41	99	\$635	94	2.0	48	88	\$618	99	2.8	47	91	\$817	93	3.5	50
PS-SY 13-1579 ²	104	\$467	99.3	—	37	109	\$507	—	1.3	46	116	\$739	94	1.0	54	89	\$627	99	2.5	46	95	\$849	96	1.5	52
PS-SY 13-1651 ²	102	\$455	99.8	—	36	91	\$422	—	2.0	39	105	\$671	93	1.3	49	98	\$685	98	2.8	45	91	\$817	93	1.8	44
LSD (%)	9					16					8					12					8				
Check Mean*	41					43					59					65					82				
Grand Mean*	41					39					64					59					77				
CV%	7.1					9.1					6.9					10.1					5.6				

Variety	LAMONT, AB					MELFORT 1, SK					MUNDARE, AB					NIPAWIN, SK					NORTH BATTLEFORD, SK				
	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (%) 5440	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)
Clearfield																									
5525 CL	90	\$849	98	1.8	49	92	\$701	94	1.5	59	86	\$572	101	—	41	93	\$616	102	2	50	91	\$649	98	1.5	50
CS2200 CL	90	\$844	98	2	48	94	\$717	96	2.8	54	87	\$581	102	—	42	94	\$620	103	2.8	51	90	\$644	98	2	47
LSD (%)	8					6					53				14						8				
Liberty Link																									
5440	100	\$941	98	1	52	100	\$767	96	1	59	100	\$664	101	—	45	100	\$661	104	1	50	100	\$713	97	1	52
L252	111	\$1,042	98	1.8	48	109	\$833	96	2	57	98	\$649	101	—	43	100	\$661	106	2.3	51	105	\$748	98	2	49
L261	113	\$1,066	99	1	55	111	\$848	97	1.5	60	103	\$681	102	—	48	97	\$641	105	1.5	54	103	\$735	98	1.8	57
L140P	108	\$1,018	95	2	49	102	\$782	89	3.3	61	102	\$676	102	—	41	101	\$667	98	3	51	100	\$711	96	2.5	50
LSD (%)	7					6					16				14						6				
Roundup Ready																									
1990	97	\$910	96	2.8	47	100	\$768	91	3	60	81	\$537	103	—	39	96	\$634	103	3.8	51	99	\$704	98	3	47
6056 CR	89	\$834	98	1.5	47	94	\$724	95	2.5	57	88	\$586	102	—	43	97	\$638	104	2.8	49	90	\$639	101	1.8	50
6074 RR	105	\$985	98	1	48	107	\$821	96	2.8	58	99	\$660	102	—	43	101	\$665	102	2.8	50	96	\$686	101	1.3	47
6080 RR	92	\$863	97	1.5	51	101	\$776	95	1.8	60	87	\$581	102	—	47	98	\$646	102	2.5	51	97	\$691	98	1.3	48
CS2000	100	\$941	98	2	50	102	\$781	96	2.3	61	90	\$598	101	—	44	99	\$656	104	2.3	55	104	\$739	99	3.3	53
SY4157	101	\$949	98	2.3	51	100	\$766	97	2	59	96	\$637	102	—	43	92	\$607	104	2	55	100	\$709	99	2.3	47
SY4166	97	\$916	99	2.5	47	88	\$674	92	2.8	60	101	\$670	102	—	45	89	\$588	101	3	53	99	\$703	99	3	51
V12-1 ¹	95	\$965	98	3	45	93	\$771	92	3.3	60	90	\$645	102	—	43	94	\$676	98	2.8	53	94	\$729	99	3	50
V12-3 ¹	102	\$1,042	99	3	48	93	\$773	93	3	56	110	\$792	102	—	44	94	\$670	102	3	52	99	\$761	100	2.8	48
14H1176	104	\$979	100	1.5	54	94	\$717	98	2.3	57	88	\$587	102	—	43	96	\$633	106	1.8	56	100	\$710	101	1.5	52
14DL30209 ²	110	\$1,040	97	2.8	48	95	\$730	93	2	56	84	\$561	102	—	46	99	\$657	104	3	53	89	\$635	96	3	50
PS-SY 13-1579 ²	95	\$894	98	1.5	52	92	\$708	93	1.3	54	93	\$619	102	—	37	100	\$659	105	1	53	96	\$681	101	1	53
PS-SY 13-1651 ²	78	\$734	92	1.8	46	93	\$709	91	1.8	57	104	\$690	102	—	43	104	\$691	101.8	2.3	52	93	\$663	100	1.8	51
LSD (%)	6					5					14				10	7									
Check Mean*	87					71					61				61						66				
Grand Mean*	85					69					58				59						64				
CV%	8.2					3.8					9.8				8.6						4.8				

(1) Indicates varieties with specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details. (2) Indicates varieties that have been supported for registration. * Check Mean is compared to 5440 and reported in bu./acre. Grand Mean is reported in bu./acre.

Variety	SASKATOON 1, SK					SASKATOON 2, SK					TOFIELD, SK					VULCAN, AB					YORKTON, SK				
	Yield (% 5,440)	Gross Revenue/ec.	Days to Maturity	Lodging	Height (in.)	Yield (% 5,440)	Gross Revenue/ec.	Days to Maturity	Lodging	Height (in.)	Yield (% 5,440)	Gross Revenue/ec.	Days to Maturity	Lodging	Height (in.)	Yield (% 5,440)	Gross Revenue/ec.	Days to Maturity	Lodging	Height (in.)	Yield (% 5,440)	Gross Revenue/ec.	Days to Maturity	Lodging	Height (in.)
Clearfield																									
5525 CL	90	\$954	94	3.3	62	94	\$479	95	1	41	101	\$607	-	-	-	93	\$584	-	-	-	98	\$749	95	2.8	50
CS2200 CL	91	\$961	94	3.5	58	103	\$528	97	1	39	105	\$631	-	-	-	95	\$594	-	-	-	98	\$754	95	3.3	46
LSD (%)	12					27					18					7					4				
Liberty Link																									
5440	100	\$1,055	93	1	61	100	\$510	95	1	38	100	\$604	-	-	-	100	\$627	-	-	-	100	\$766	94	2.3	45
L252	111	\$1,168	94	3	56	116	\$591	95	1	39	105	\$635	-	-	-	97	\$610	-	-	-	111	\$849	95	2.8	47
L261	111	\$1,172	95	2	68	101	\$516	96	1	42	105	\$633	-	-	-	103	\$643	-	-	-	116	\$888	97	2.3	52
L140P	102	\$1,076	90	3.8	57	77	\$392	95	1	41	112	\$679	-	-	-	93	\$582	-	-	-	108	\$825	94	3	45
LSD (%)	7					14					13					9					4				
Roundup Ready																									
1990	99	\$1,044	94	4	56	75	\$382	93	1	41	105	\$634	-	-	-	110	\$688	-	-	-	97	\$742	93	3	47
6056 CR	95	\$1,005	97	4.5	58	76	\$386	96	1	38	119	\$719	-	-	-	102	\$642	-	-	-	99	\$758	96	2.3	45
6074 RR	99	\$1,043	98	3.8	61	116	\$592	97	1	42	92	\$555	-	-	-	116	\$726	-	-	-	108	\$827	98	2	48
6080 RR	95	\$1,000	96	2.3	59	92	\$471	94	1	40	112	\$675	-	-	-	101	\$635	-	-	-	108	\$826	95	2.5	46
CS2000	92	\$974	95	3.5	65	88	\$450	95	1	43	111	\$668	-	-	-	101	\$635	-	-	-	106	\$810	94	3.3	50
SY4157	97	\$1,019	97	3.8	63	99	\$503	95	1	43	135	\$813	-	-	-	106	\$667	-	-	-	98	\$753	96	2.8	47
SY4166	106	\$1,116	94	3.8	59	80	\$406	94	1	39	118	\$712	-	-	-	98	\$616	-	-	-	104	\$793	93	3.8	45
V12-1 ¹	94	\$1,079	94	4	59	82	\$451	94	1	41	108	\$707	-	-	-	96	\$649	-	-	-	93	\$772	94	3	45
V12-3 ¹	98	\$1,123	95	4	61	91	\$504	96	1	41	112	\$730	-	-	-	105	\$712	-	-	-	95	\$785	95	3.3	47
14H1176	96	\$1,018	99	3.5	67	104	\$531	96	1	43	135	\$813	-	-	-	107	\$673	-	-	-	107	\$822	97	2.5	48
14DL30209 ²	93	\$980	95	3	61	67	\$344	93	1	41	110	\$667	-	-	-	95	\$593	-	-	-	103	\$791	93	4	47
PS-SY 13-1579 ²	98	\$1,039	97	2.5	63	97	\$492	96	1	44	120	\$722	-	-	-	109	\$684	-	-	-	101	\$777	96	2.3	47
PS-SY 13-1651 ²	92	\$968	92	3	57	74	\$377	93	1	41	104	\$625	-	-	-	97	\$610	-	-	-	104	\$793	93	2.8	44
LSD (%)	7					12					18					9					8				
Check Mean*	97					47					56					58					70				
Grand Mean*	95					43					62					58					72				
CV%	5					10.2					12.2					4.7					5.5				

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66 | SHORT SEASON ZONE | Small plot results by location

Variety	BARRHEAD, AB					DAWSON CREEK, BC					FALHER, AB				
	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)
Clearfield															
5525 CL	87	\$874	101	2.3	47	101	\$796	109	–	44	102	\$578	94	–	33
CS2200 CL	90	\$896	102	2.5	45	103	\$810	110	–	40	103	\$582	95	–	33
LSD (%)	15					11					6				
Liberty Link															
5440	100	\$1,002	102	2	49	100	\$788	110	–	40	100	\$564	94	–	33
L252	111	\$1,112	102	0	46	108	\$850	109	–	41	107	\$603	94	–	30
L261	112	\$1,119	105	2.5	53	95	\$748	110	–	45	108	\$608	95	–	34
L140P	102	\$1,026	98	3.3	48	97	\$764	110	–	41	98	\$551	92	–	32
LSD (%)	8					7					19				
Roundup Ready															
1990	90	\$902	101	3	45	77	\$608	111	–	38	103	\$580	95	–	30
6056 CR	85	\$850	104	2.5	45	91	\$716	111	–	38	87	\$493	97	–	30
6074 RR	95	\$951	104	2.3	45	103	\$814	110	–	38	95	\$537	96	–	31
6080 RR	93	\$929	100	2.3	45	96	\$758	111	–	40	86	\$483	95	–	31
CS2000	100	\$1,004	102	3	47	97	\$762	111	–	39	93	\$525	94	–	34
SY4157	100	\$1,002	104	3	46	104	\$817	110	–	41	90	\$509	96	–	30
SY4166	94	\$943	104	2.8	44	78	\$615	111	–	38	82	\$464	96	–	31
V12-1 ¹	87	\$940	99	4	43	100	\$788	110	–	37	79	\$446	95	–	30
V12-3 ¹	93	\$1,007	103	3.3	43	105	\$823	110	–	39	85	\$482	97	–	29
14H1176	104	\$1,040	105	2.8	49	104	\$819	111	–	41	92	\$520	97	–	30
14DL30209 ²	81	\$814	97	3	46	80	\$631	111	–	39	83	\$466	95	–	32
PS-SY 13-1579 ²	99	\$995	104	1.8	47	98	\$771	110	–	38	91	\$512	96	–	31
PS-SY 13-1651 ²	86	\$860	98	2	45	99	\$776	110	–	40	86	\$487	95	–	30
LSD (%)	8					10					15				
Check Mean 5440 (bu/ac)	92					72					52				
Grand Mean (bu/ac)	88					70					48				
CV%	6.7					7.6					9.7				

Variety	FORT ST. JOHN, BC					LACOMBE, AB					SHELLBROOK, SK				
	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)	Yield (% 5440)	Gross Revenue/ac.	Days to Maturity	Lodging	Height (in.)
Clearfield															
5525 CL	105	\$628	106	–	40	85	\$710	107	2	44	79	\$499	93	2	53
CS2200 CL	107	\$640	106	–	40	83	\$699	107	2	46	77	\$486	92	2.8	53
LSD (%)	20					10					14				
Liberty Link															
5440	100	\$596	106	–	39	100	\$839	103	1.3	45	100	\$631	96	2	52
L252	124	\$738	105	–	37	109	\$915	106	1.5	45	107	\$673	95	2.5	51
L261	118	\$703	106	–	43	104	\$874	107	1	44	100	\$631	97	2	56
L140P	91	\$544	106	–	39	97	\$815	103	1.8	47	97	\$614	90	3.5	49
LSD (%)	12					7					18				
Roundup Ready															
1990	94	\$559	109	–	35	84	\$701	105	2.5	46	88	\$557	90	4.3	52
6056 CR	105	\$624	108	–	37	90	\$758	108	1.5	43	81	\$514	93	2.8	49
6074 RR	121	\$721	108	–	41	95	\$799	106	1.3	44	86	\$546	97	3	49
6080 RR	109	\$651	108	–	37	98	\$821	106	2	46	83	\$525	91	2.5	51
CS2000	130	\$774	108	–	40	93	\$777	104	3.3	46	95	\$597	93	3.8	55
SY4157	110	\$658	109	–	34	88	\$738	104	2.3	43	82	\$515	96	3	55
SY4166	97	\$579	108	–	33	92	\$773	106	2.5	44	89	\$561	92	4	54
V12-1 ¹	105	\$628	108	–	34	100	\$905	106	2.8	44	76	\$519	91	4.3	53
V12-3 ¹	116	\$690	108	–	32	103	\$937	106	3	44	80	\$546	91	3.5	51
14H1176	112	\$666	109	–	39	97	\$817	109	1.5	44	83	\$522	95	3	54
14DL30209 ²	107	\$637	108	–	39	83	\$699	103	3	45	82	\$520	91	3	54
PS-SY 13-1579 ²	111	\$660	107	–	39	99	\$829	108	1	47	89	\$559	92	2.3	51
PS-SY 13-1651 ²	95	\$566	107	–	35	91	\$762	106	1.3	44	81	\$512	89	2.5	51
LSD (%)	14					11					10				
Check Mean 5440 (bu/ac)	55					77					58				
Grand Mean (bu/ac)	59					73					51				
CV%	12.9					8.7					8.4				

(1) Indicates varieties with specialty oil profiles and premiums associated with pricing. Visit www.canolaperformancetrials.ca for more details. (2) Indicates varieties that have been supported for registration.

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**\$5 per
 acre.**

(on pre-treated
 seed only)*



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

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 following canola varieties

InVigor®

InVigor L120 InVigor 5440 InVigor L261
 InVigor L130 InVigor L135C InVigor L156H
 InVigor L150 InVigor L241C InVigor L157H
 InVigor L159 InVigor L252 InVigor L140P



PIONEER®

45H29 RR 45H76 CL D3153 RR
 45H31 RR 45S56 RR D3154S RR
 45S54 RR 45H33 RR D3155C RR
 46H75 CL 46M34

**VICTORY®
 HYBRID CANOLA**

V12-1 V12-3 V22-1



74-44 BL 75-65 RR
 75-45 RR 74-54 RR

**Nexera™
 C A N O L A**

1012 RR 2012 CL 2020 CL
 1020 RR 1022 RR 2022 CL

BrettYoung™

6060 RR 6044 RR 5525 CL
 6056 CR 6076 CR 6074 RR
 6080 RR 5535 CL

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 SEEDS**

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 CS2100 CANTERRA 1990

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 SEED**

PV 530 G VT 500 G VR 9562 CL
 PV 531 G PV 200 CL Xceed X121 CL
 PV 533 G VR 9560 CL

syngenta®

SY4135 SY4157 SY4166
 SY4114 SY4105

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The Western Canadian Canola Rapeseed Recommending Committee evaluates lines based on agronomic performance disease resistance and end-use quality. The table below contains varieties supported for registration in 2016.

Status	Organization	Herbicide Resistance	Entry	Name	Low/in	Interim Request	Met Minimum	Met Acceptable	Request Support	Supported
1 yr data-3 yr interim support	Bayer CropScience	Stacked Liberty Link® and Round-Up® traits	88	4CN0001		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Bayer CropScience	Stacked Liberty Link® and Round-Up® traits	89	4CN0004		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Cargill Limited	ROUNDUP	90	14H1176	Yes	Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Cargill Limited	ROUNDUP	91	14H1187	Yes	Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	76	PS-AFH 13-1704		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	77	PS-ARK 13-2998		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	78	PS-SN 13-1578		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	79	PS-SN 13-1650		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	80	PS-SN 13-2930		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	81	PS-SY 12-1581		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	82	PS-SY 13-1579		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	83	PS-SY 13-1651		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Crop Production Services	ROUNDUP	84	PS-SY 13-2931		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	DL Seeds Inc	ROUNDUP	85	14DL30209		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	DL Seeds Inc	ROUNDUP	86	14DL30420		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	DL Seeds Inc	ROUNDUP	87	14DL30513		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Dow AgroSciences	CLEARFIELD	103	2562966H		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Dow AgroSciences	ROUNDUP	104	G3697124H		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	ROUNDUP	96	G32176		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	ROUNDUP	97	G49720		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	ROUNDUP	98	G49732		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	ROUNDUP	99	G49733		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	ROUNDUP	100	G49735		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	ROUNDUP	101	G49738		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	ROUNDUP	102	G49740		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	TRUFLEX (GLYPHOSATE RESISTANT)	94	X35153G1		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Monsanto Canada	TRUFLEX (GLYPHOSATE RESISTANT)	95	X49732G1		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Pioneer Hi-Bred Production LP	ROUNDUP	92	14GG1204R		Yes	Yes	Yes	Yes	Yes
1 yr data-3 yr interim support	Pioneer Hi-Bred Production LP	ROUNDUP	93	14GG1205R		Yes	Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	1	3CN0035			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	2	3CN0133			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	3	3CN0185			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	4	3CN0188			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	6	3CN0199	Yes		Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	11	3CN0293			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	12	3CN0308			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	14	3CN0413			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	16	3CN0415			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Bayer CropScience	LIBERTY	18	3CN0434			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Cargill Limited	ROUNDUP	20	09H7763	Yes		Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Crop Production Services	ROUNDUP	21	PS-UD 11-2099			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Crop Production Services	ROUNDUP	22	PS-NA 11-2623			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Crop Production Services	ROUNDUP	23	PS-NA 12-1182			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Crop Production Services	ROUNDUP	24	PS-UD 12-1080			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Crop Production Services	ROUNDUP	25	PS-SN 11-2786			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	DL Seeds Inc	CLEARFIELD	27	13DL30217			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	DL Seeds Inc	ROUNDUP	26	13DL30122			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	DL Seeds Inc	ROUNDUP	28	13DL30314			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	DL Seeds Inc	ROUNDUP	30	13DL30422			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	DL Seeds Inc	ROUNDUP	31	13DL30423			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	DL Seeds Inc	ROUNDUP	32	13DL30507			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Dow AgroSciences	ROUNDUP	34	G2537367H	Yes		Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Dow AgroSciences	ROUNDUP	35	G2537376H	Yes		Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	37	G21545			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	38	G25475			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	39	G25574			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	40	G28101			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	41	G37965			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	42	G38111			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	43	G35152			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	ROUNDUP	44	G35153			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Monsanto Canada	TRUFLEX (GLYPHOSATE RESISTANT)	36	X13227N2			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Glufosinate Ammonium (RF3)	55	13N1191L			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Glufosinate Ammonium (RF3)	56	13N1120L			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Glufosinate Ammonium (RF3)	57	13N1121L			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Glufosinate Ammonium (RF3)	58	13N1125L			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Glufosinate Ammonium (RF3)	60	13N1129L			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Optimum gly (GLYPHOSATE RESISTANT)	66	13N0024G			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Optimum gly (GLYPHOSATE RESISTANT)	67	13N0027G			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Optimum gly (GLYPHOSATE RESISTANT)	70	13N0035G			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Optimum gly (GLYPHOSATE RESISTANT)	71	13N0057G			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	Optimum gly (GLYPHOSATE RESISTANT)	75	13N0102G			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	ROUNDUP	53	13N0633R			Yes	Yes	Yes	Yes
2YR FULL SUPPORT	Pioneer Hi-Bred Production LP	ROUNDUP	62	13N1160R			Yes	Yes	Yes	Yes
2YR FULL SUPPORT – Passed by set aside	Bayer CropScience	LIBERTY	7	3CN0206			Yes	*	Yes	Yes
2YR FULL SUPPORT – Passed by set aside	Pioneer Hi-Bred Production LP	CLEARFIELD	61	12N11461			Yes	*	Yes	Yes
2YR FULL SUPPORT – Passed by set aside	Pioneer Hi-Bred Production LP	ROUNDUP	51	12N0572R			Yes	*	Yes	Yes

* Blackleg data over 2 calendar years



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CANADIAN FOOD INSPECTION AGENCY

VARIETY REGISTRATION REPORT

The list below contains the names and details of crop varieties registered by the Canadian Food Inspection's Variety Registration Office (VRO) between Nov 1, 2014 and Nov. 23, 2015.

CROP KIND	VARIETY NAME	EXPERIMENTAL NUMBER	REGISTRATION DATE	REGISTRATION STATUS
ALFALFA				
	FOUNDATION APR	FG 48A178	02/09/15	National Registration
	FSG 420LH	FG 44H368	03/06/15	National Registration
	GEMSTONE	FG 46M446	05/29/15	National Registration
	HYBRIFORCE-3400	msSunstra-803	02/09/15	National Registration
	MAGNUM 7	DS913-T	01/30/15	National Registration
	MAGNUM 7-WET	DSA06-BR	02/09/15	National Registration
	REBOUND PLUS	FG 48A179	01/23/15	National Registration
	SPREDOR 5	FG 36C100	03/06/15	National Registration
	STRONGHOLD	FG 35Q105	06/05/15	National Registration
	VERDANT	FG 46M444	01/23/15	National Registration
BARLEY, TWO-ROW, SPRING				
	CDC BOW	TR11127, SM080361	07/03/15	National Registration
BEAN, FIELD, BLACK TYPE				
	CDC BLACKSTRAP	2921-14	05/01/15	National Registration
BEAN, FIELD, PEA (NAVY) TYPE				
	DS105W0	H60111	05/29/15	National Registration
CANOLA QUALITY BRASSICA JUNCEA L.				
	X122 CL	HJM1Z-3114	09/25/15	Contract Registration
CLOVER, RED, DOUBLE CUT				
	EMARWAN	MR-1-83	08/14/15	National Registration
	RENEGADE	HK, KM	10/02/15	National Registration
FESCUE, MEADOW, FORAGE TYPE				
	PARDUS		02/09/15	National Registration
	SW MINTO	SW AS85	02/13/15	National Registration
FESCUE, TALL, FORAGE TYPE				
	BARELITE	3FA BTR9	05/20/15	National Registration
	BARIANE	BAR FA 489B	05/20/15	National Registration
	BAROPTIMA	FA BE 9301	05/20/15	National Registration
	COWGIRL	5NF	04/10/15	National Registration
	SAVORY	IS-FTF 12	04/02/15	National Registration
	TOWER	INFA 109	10/23/15	National Registration
FLAX, OILSEED				
	AC NUGGET	FP 2002	05/29/15	National Registration
	CDC PLAVA	FP2385	03/23/15	National Registration
	OMEGA	n.a.	06/26/15	Interim Registration
LENTIL				
	CDC KERMIT	3592-13	11/20/15	National Registration
	CDC PROCLAIM	IBC 550	11/20/15	National Registration
	CDC REDMOON	Apr-46	11/20/15	National Registration
	CDC SB-3	IBC 697	11/20/15	National Registration
MUSTARD, BRASSICA JUNCEA L., INDIAN				
	AAC BROWN 100	B474DH71	09/25/15	

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Greenleaf Seeds	873-4261
Lutzer-Latrace Seed Farm	731-2843
Sorgard Seeds	896-2236
Tomtene Seed Farm	749-3447

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* This field swathed because desiccation would hurt germination

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MUSTARD, BRASSICA JUNCEA L., ORIENTAL				
	AAC ORIENTAL 200	060DH17	10/23/15	
OAT, SPRING				
	CDC NORSEMAN	OT3066, SA091413	06/11/15	
ORCHARDGRASS				
	BENCHMARK PLUS	OG9705G	05/01/15	National Registration
	ECHELON	IS-OG 53	05/01/15	National Registration
	HQL	Dg83R01, BAR 6DGL83	07/03/15	National Registration
	INAVALE	IS-OG 52	05/01/15	National Registration
	OLATHE	IS-OG 51	05/01/15	National Registration
PEA, FIELD, GREEN				
	AAC RADIUS	MP 1867	12/18/14	National Registration
	AAC ROYCE	MP 1880	12/18/14	National Registration
PEA, FIELD, YELLOW				
	AAC CARVER	MP 1920	12/04/14	National Registration
	CDC INCA	CDC 2847-21	02/09/15	National Registration
POTATO				
	AAC FORTUNE	F05064_AR2010-12	11/28/14	National Registration
	AAC HAMER	CV96044-3 (AR2012-04)	03/13/15	National Registration
	AAC ISLAND RUBY	F07049_AR2012-09	11/28/14	National Registration
	ABBOT	CMK 1998-601-035	03/13/15	National Registration
	ACCORD	CMK 1986-045-030	03/27/15	National Registration
	ALADIN	WB 89-2510	12/04/14	National Registration
	ALASKA BLOOM	RC111	02/13/15	National Registration
	BERNADETTE	1735/87	03/13/15	National Registration
	BIG ROSSA	BPZ 99174/14B	03/27/15	National Registration
	BOUSTIFAILLES	QP00053.03	06/26/15	National Registration
	CELANDINE	HZD 99-1437	11/13/15	National Registration
	CHOPIN	VZF 96-87	05/01/15	National Registration
	CITADEL	AR 96-560	12/04/14	National Registration
	COLOMBA	HAC 00-277	03/13/15	National Registration
	EXEMPLA	F 5246	03/13/15	National Registration
	FL 2312	FL 2312	01/30/15	National Registration
	FRANCISCA	00-010-3	03/13/15	National Registration
	IVORY RUSSET	HZD 99-7711	03/13/15	National Registration
	JAZZY	CMK2001-069-056	03/27/15	National Registration
	JUWEL	BS 1799-05	03/13/15	National Registration
	KRONE	bs 1133/12	03/13/15	National Registration
	MONTICELLO	NY102	11/20/15	National Registration
	ORIANA	RZD 95-1683	03/13/15	National Registration
	PURPLE MAGIC	L6567-15	02/13/15	National Registration
	RED CHINOOK	KW03-281	03/13/15	National Registration
	RUBICONDE	QP99165.81RF	06/05/15	National Registration
	SOPRANO	CMK 1197-079-0044	03/13/15	National Registration
	SUNDANCE	HZ 97-185	05/01/15	National Registration
RAPE, OILSEED, SPRING, BRASSICA NAPUS, CANOLA				
	UA ALFAGOLD	A07-29NI	11/13/15	National Registration
RAPE, OILSEED, SPRING, BRASSICA NAPUS, HYBRID CANOLA				
	1020 RR	G3697124H, 3697124	03/13/15	Interim Registration
	1022 RR	2537376, 2537376H, G2537376H	03/13/15	National Registration
	13N1119L	13N1119L	02/20/15	Interim Registration
	13N1120L	13N1120L	02/20/15	Interim Registration
	13N1125L	13N1125L	02/20/15	Interim Registration

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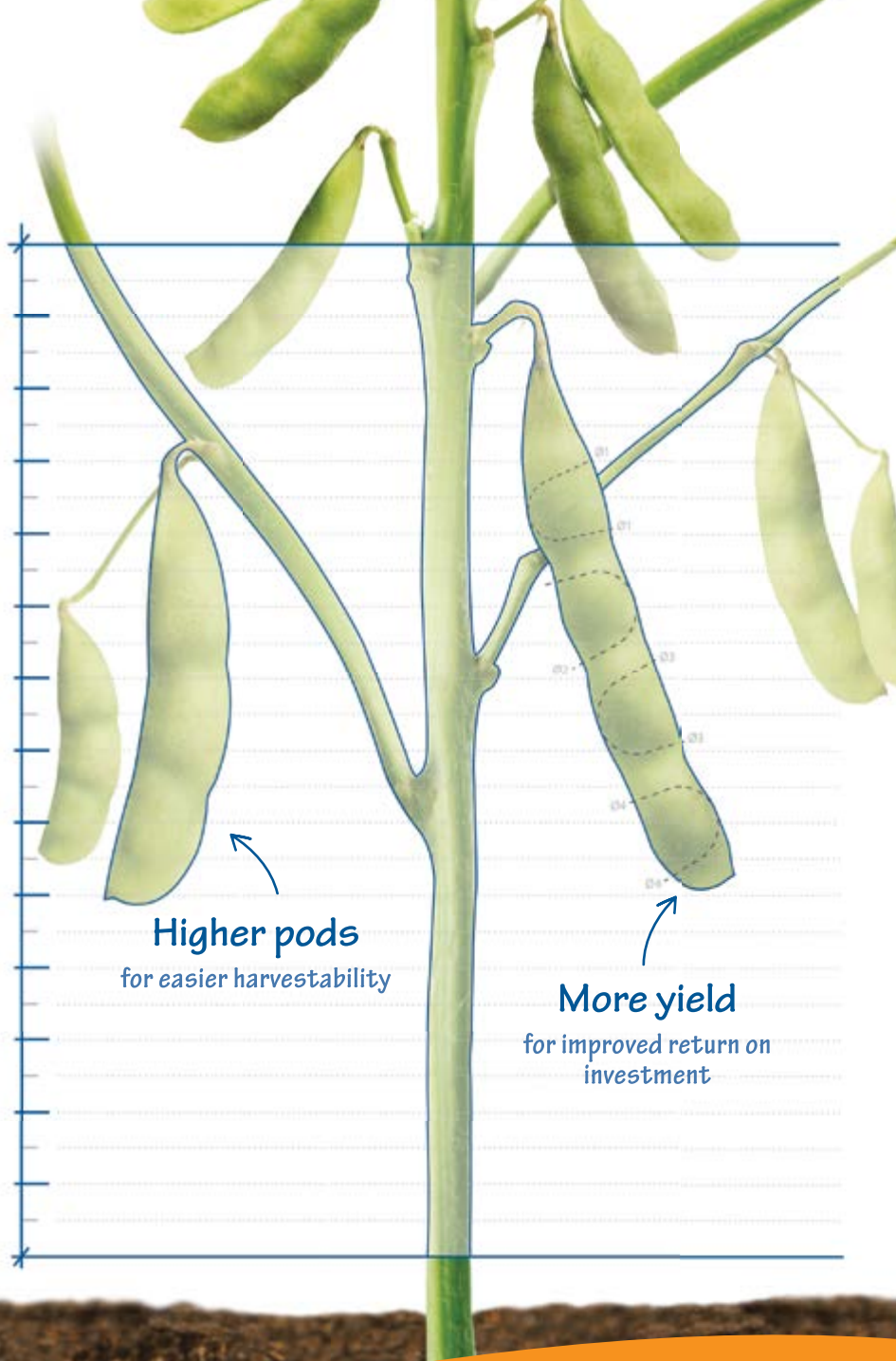
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14H1176	14H1176	06/26/15	Interim Registration	
1CN0152	1CN0152	03/13/15	National Registration	
2022 CL	CL2562968H, 2562968	04/15/15	Contract Registration	
45CS40	14GG1204R	03/23/15	Interim Registration	
46M34	12N0572R	03/23/15	National Registration	
6074 RR	13DL30323	12/12/14	Interim Registration	
6076 CR	14DL30513	09/25/15	Interim Registration	
6080 RR	14DL30420	09/25/15	Interim Registration	
75-45 RR	G28101	05/08/15	National Registration	
75-57 CR	G32176	06/26/15	Interim Registration	
9610 CL	CL2562966H, 2562966H, 2562966	03/13/15	Interim Registration	
CS2000	13DL30122	01/23/15	Interim Registration	
CS2100	G25475	05/08/15	National Registration	
CS2200CL	13DL30217	06/26/15	National Registration	
G49720	G49720	06/26/15	Interim Registration	
G49732	G49732	06/26/15	Interim Registration	
G49733	G49733	06/26/15	Interim Registration	
G49735	G49735	06/26/15	Interim Registration	
G49738	G49738	06/26/15	Interim Registration	
G49740	G49740	06/26/15	Interim Registration	
L157H	3CN0199	08/14/15	National Registration	
L241C	2CN0141	08/14/15	National Registration	
PV 200 CL	12N1146I	03/13/15	National Registration	
PV 531 G	VT-OZ 08-11639	09/18/15	National Registration	
PV 533 G	PS-SN 11-2786	09/18/15	National Registration	
PV 540 G	PS-SY 13-2931	11/13/15	Interim Registration	
PV 580 GC	PS-ARK 13-2998	10/23/15	Interim Registration	
PV 590 GCS	14GG1205R	03/23/15	Interim Registration	
SY4105	G29075	01/30/15	National Registration	
SY4166	09H7763	07/03/15	National Registration	
V12-3	14H1187	06/26/15	Interim Registration	
RAPE, OILSEED, SPRING, BRASSICA NAPUS, RAPESEED				
	HYHEAR 2	H118017RR	06/26/15	Contract Registration
RYE, WINTER				
	BONO	RT212	09/18/15	Interim Registration
	BRASETTO	RT209	05/20/15	National Registration
	GUTTINO	RT210	07/29/15	National Registration
RYEGRASS, ANNUAL				
	ASSIST	B-10 0960	03/06/15	National Registration
	ATHOS	83PX16	10/23/15	National Registration
	BARDELTA	BAR LM 6MY	05/20/15	National Registration
	BARMULTRA II	5LMT510	06/05/15	National Registration
	BARPRISMA	BAR LMD 6591	05/20/15	National Registration
	DANERGO	DP 79-55	10/23/15	National Registration
	JEANNE	DK 85-51	11/20/15	National Registration
	SURREY NOVA	FL X1998 (SII) LR	08/07/15	National Registration
	ZORRO	DP 86-52	10/23/15	National Registration
RYEGRASS, PERENNIAL, FORAGE TYPE				
	MATHILDE	DP 88-54	10/23/15	National Registration
	POLIM	Cebeco ET 348	08/21/15	National Registration
	TETRAGAIN	2YUR	04/10/15	National Registration

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SOYBEAN, OILSEED

AJOK R2	CS084.009.20.05-L017C, CFS12.07.01 R2, CKX4109 R2	09/25/15	National Registration
ALTITUDE R2	SCH13-0901 R2, AR1211948, GS0948	04/02/15	National Registration
CF05GR	GS0359, AR111559	02/09/15	National Registration
CF3176XT	AK2811H5-B1BAH, 01046058	10/09/15	National Registration
CF3256XT	5X2713A4-CODNN, 01050922	10/09/15	National Registration
DKB008-81	FL0113A2-CODNN, 010504998	10/09/15	National Registration
DKB04-41	MK0312A7-CODNN, 01045656, RX0301	10/09/15	National Registration
DKB06-61	0515X, 0616R2X, 1051R2X, CBRB0541RXN, FL0413A7-CODNN, RX0516, 01050536	10/09/15	National Registration
DKB09-91	MK1011B5-B6BAH, 01050599	10/09/15	National Registration
DKB14-41	JW1713B1-CODNN, 01050679	10/09/15	National Registration
DKB20-01	AK2011D9-B1BAH, 01046035	10/09/15	National Registration
DKB22-21	JW2213B7-CODNN, 01050779	10/09/15	National Registration
DKB24-41	BN2413A9-CODNN, 01050836	10/09/15	National Registration
DKB28-81	AG30X6, RX3011, 01051076, BL3013F4-DODNN	10/09/15	National Registration
DONAR R2X	MK0611C2-B1BAH, 01050566, CX0403	10/09/15	National Registration
DURGA R2	C4M14020 R2	09/25/15	National Registration
DYNAMO R2X	FL0513A8-CODNN, 01050547	10/09/15	National Registration
EXPEDITION R2X	FL0413B2-CODNN, 01050540	10/09/15	National Registration
EXPLORER R2X	BL2813D2-CODNN, 01050980	10/09/15	National Registration
FLEX R2X	FL1112B5-CODNN, 01045738, RX1101	10/09/15	National Registration
HANA	PR1309027	06/11/15	National Registration
HS08RY51	08G13B6	05/20/15	National Registration
HS30RYS53	30G13H8	05/20/15	National Registration
KARRA	PR120634	06/11/15	National Registration
LEMPO R2X	FL0113A3-CODNN, 0105499	10/09/15	National Registration
LONO R2	C4M13007 R2, CFS13.2.01 R2	09/25/15	National Registration
LS 008R560	008G12R2	04/02/15	National Registration
LS MAIDAN	GS00872	06/11/15	National Registration
NSC GARNET RR2Y	CR1103	07/03/15	National Registration
NSC PEGASIS RR2Y	MR1112	07/03/15	National Registration
OAC CHALLENGER R2	SeCan 12-205 R2	08/28/15	National Registration
OAC DURHAM	SeCan 11-35C	04/02/15	National Registration
OAC EVE	SeCan 11-40C	03/27/15	National Registration
OAC MORDEN	SeCan 11-05C	04/02/15	National Registration
OAC STRIVE	SeCan 11-12C	04/02/15	National Registration
P006T78R	PH14002	04/10/15	National Registration
P09T74R2	PH14015	04/10/15	National Registration
P15T46R2	PH14108	04/10/15	National Registration
P18T31R	PH14104	02/13/15	National Registration
P24T05R	PH13204	03/27/15	National Registration
P28T08R	PH14222	03/27/15	National Registration
PODAGA R2	CKX4112 R2, CFS12.5.01 R2	09/25/15	National Registration
PRO3225R2X	AK2911K3-B1BAH, 01046182, RX2802	10/09/15	National Registration
PS 0055 R2	H59615RR2Y	03/13/15	National Registration
PS 0555 XRN	FL0613A7-CODNN, 01050562	10/09/15	National Registration
PS 1222 XRN	MK1111B3-B5BAH, 01050611, AG12X6	10/09/15	National Registration
PS 1666 XRN	RM1012A5-CODNN, 01045730, RX1001	10/09/15	National Registration
PS 2020 XRN	JW1713B5-CODNN, 01050683	10/09/15	National Registration
PS 2444 XRN	RM2313D6-CODNN, 01050816	10/09/15	National Registration



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PS 2777 XRN	JW2513D2-C0DNN, 01050882	10/09/15	National Registration
PS 2955 NR2	EXP2915 NR2, MR2917N	02/06/15	National Registration
RR2 GALAXY	SL1219 R2	02/06/15	National Registration
RR2 PULSAR	SL-1420 R2	05/01/15	National Registration
RR2 SPECTRA	SL-1423 R2	05/20/15	National Registration
RX VELOCITY	AK2413C3-C0DNN, 01050821	10/09/15	National Registration
RX3015	FN3013C3-C0DNN, 01051084	10/09/15	National Registration
RXASPIRE	5X2713A5-D0DNN, 01050923, RX2711	10/09/15	National Registration
RXPINNACLE	AW2711J7-B1BAH, 01045954, RX1912	10/09/15	National Registration
RXSTAMINA	RM2313D4-C0DNN, 01050814	10/09/15	National Registration
S0009-M2	x2r000942 (line code AR1215221)	02/06/15	National Registration
S06-C4	AR1210886, X2R0743, GS0686	03/27/15	National Registration
S11-N4	AR121014, X2R1041, GS1104	03/27/15	National Registration
S25-L9	CE1214014	05/01/15	National Registration
S28-D3	CE1211339	05/20/15	National Registration
S32-L8	WN1118398	05/20/15	National Registration
SVX14N00S2	SVX14N00S2	07/29/15	National Registration
SVX14N0S5	SVX14N0S5	07/29/15	National Registration
SVX14T00S3	SVX14T00S3	07/29/15	National Registration
SVX14T0S4	SVX14T0S4	07/29/15	National Registration
SVX14T0S6	SVX14T0S6	07/29/15	National Registration
SVX14T1S3	SVX14T1S3	07/29/15	National Registration
TAMULA R2	C4M14021 R2	09/25/15	National Registration
SUNFLOWER, HYBRID, OILSEED			
9180 DMR	X9180	03/13/15	National Registration
TALON	X4270, NLK12S070	03/13/15	National Registration
TIMOTHY			
BARPENTA	BAR PHL 8718	05/20/15	National Registration
TRYGGVE	WW 32388	02/13/15	National Registration
WHEAT, DURUM			
AAC CONGRESS	DT856	07/29/15	Regional Registration
CDC ALLOY	DT579, D06X.29.107	10/16/15	Regional Registration
CDC DYNAMIC	DT578; D05.09.053	10/23/15	Regional Registration
CDC PRECISION	DT577, D04.66.020	10/23/15	Regional Registration
WHEAT, SPRING			
AAC CAMERON	BW485, G0439-3-NPNB-15-N	03/27/15	Regional Registration
AAC CONNERY	PT245, B0664&AQ028	05/20/15	Regional Registration
AAC CRUSADER	HY 1603	12/18/14	Regional Registration
AAC FORAY	HY1610	12/18/14	Regional Registration
AAC INDUS	SWS427, 10B-22, 09A-512	03/06/15	Regional Registration
AAC JATHARIA	BW483, BD110B-POR-215-C-8-1-PNB-13-N	05/01/15	Regional Registration
AAC TENACIOUS	HY1615	12/18/14	Regional Registration
AAC TRADITION	BW487, BC07B-ORG-NZ-12-UUU-01-N	06/11/15	Regional Registration
CDC BRADWELL	BW472, W09419	05/01/15	Regional Registration
ELGIN ND	SD 13-1, 2014-11	05/20/15	Interim Regional Registration
FALLER	ND 805, HY 2015	04/02/15	Interim Regional Registration
GO EARLY	PT769, Entry 11 Parkland B 2010, 0423*f6MBK20	03/13/15	Regional Registration
PARATA	PT772, Entry 10 Parkland B 2011, UAW0601*f6MBK013	06/11/15	Regional Registration
PROSPER	ND 808, HY 2016	04/02/15	Interim Regional Registration
WHEAT, WINTER			
AAC ELEVATE	W495, LJ083	02/09/15	Regional Registration

RESULTS OF AGRICULTURE CANADA 2015 VARIETY REQUEST FOR PROPOSALS

Agriculture and Agri-Food Canada (AAFC) would like to thank the companies that submitted proposals to commercialize pedigreed seed of AAFC varieties under the 2015 Request for Proposal.

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

Results of Request for Proposals 2015

Variety	Company (Awarded License Rights)
BW963 Wheat	Canterra Seeds
BW965 Canada Western Red Spring Wheat	FP Genetics Inc.
BW966 Canada Western Red Spring Wheat	Alliance Seed Corp.
DT856 Canada Western Amber Durum	Canterra Seeds
FP2357 Flax	SeCan Association
HS5455-1 Six-Row Barley	William Houde Ltée
HS5606-11 Six-Row Barley	Advantage Seed Growers Inc.
HY1627 Canada Prairie Spring Red Wheat	CPS Canada Inc.
MP1907 Yellow Pea	Legume Logic
OA1342-1 Covered Spring Oat	William Houde Ltée
OA1357-2 Covered Spring Oat	Semican Inc.
OT10-04 Natto Soybean	Huron Commodities Inc.
OT11-03 Soybean	Eastern Grains Inc.
OT11-06 Natto Soybean	Huron Commodities Inc.
OT13-02 Edamame Soybean	Curtis Seeds Inc.
OT13-05 High-Protein Soybean	Springfield Mills Inc.
OT13-07 Soybean	Interlake.org Inc.
P0511-06 Field Pea	Canterra Seeds
SFF0105 Timothy	Semican Inc.
SWS433 Western Soft White Spring Wheat	SeCan Association
T225 Triticale	Fabian Seed Farms Inc.
TR12225 Two-Row Malting Barley	Canterra Seeds
W512 Canada Western Red Winter Wheat	SeCan Association
W530 Canada Western White Winter Wheat	FP Genetics Inc.

No proposals were received/accepted for the following lines:

Varieties marked with an asterisk will be offered again through the 2016 RFP process.

- | | | |
|---|--|--|
| » ACUG 12-3 Navy Bean | » HW363 Canada Western Hard White Spring Wheat | » OX-133 Tofu Soybean |
| » ACUG 12-D1 Dark Red Kidney Bean | » NA6-27-2 Navy Bean | » OX-135 Edamame Soybean |
| » *ACUG 13-01 Otebo Bean | » OG426 (Greenview) Orchardgrass | » OX-136 Large Black-Seeded Soybean |
| » *ACUG 13-03 Otebo Bean | » OT13-01 Edamame Soybean | » *OX-141 Tofu Soybean |
| » *ACUG 13-1 Navy Bean | » OT13-03 Edamame Soybean | » *OX-142 Tofu Soybean |
| » *ACUG 13-C1 Cranberry Bean | » *OT13-04 High-Protein Soybean | » *P0414-02 Field Pea |
| » *FP2354 Flax | » OX-131 Tofu Soybean | » PT468 Canada Western Red Spring Wheat |
| » *HW037 Canada Western Hard White Spring Wheat | » OX-132 Tofu Soybean | » *PT472 Canada Western Red Spring Wheat |
| | | » *PT474 Wheat |

Prairie Grain Development Committee

2015 RECOMMENDATIONS

The Prairie Grain Development Committee (PGDC) facilitates the exchange of information relevant to the development of improved cultivars of grain crops for the Canadian prairies. In 2015, the committee recommended the following lines for registration.

BARLEY

TR12135 Two rowed malting barley line, proposed by A. Beattie, B.G. Rossnagel, and T. Zatorski, University of Saskatchewan, Saskatoon, Sask.

TR12225 Two rowed malting barley line, proposed by W.G. Legge. Agriculture and Agri-Food Canada, Brandon, Man.

TR13740 Two rowed general purpose barley line, proposed by J. Anderson, CPS Crop Development, Calgary, Alta., and M. McKay, Highland Specialty Grain, Moses Lake, WA.

BT598 Six rowed general purpose barley line, proposed by J.M. Nyachiro, P.E. Juskiw, J.H. Helm, K. Xi, Y.A. Kabeta and F. Capettini, Field Crop Development Centre, Alberta Agriculture, Lacombe, Alta., and K.T. Turkington, Agriculture and Agri-Food Canada, Lacombe, Alta.

HB542 Six rowed hullless general purpose barley line, proposed by J.M. Nyachiro, P.E. Juskiw, J.H. Helm, K. Xi, Y.A. Kabeta and F. Capettini, Field Crop Development Centre, Alberta Agriculture, Lacombe, Alta., and K.T. Turkington, Agriculture and Agri-Food Canada, Lacombe, Alta.

HB13324 Two rowed hullless food barley line, proposed by A. Beattie, B.G. Rossnagel and T. Zatorski, University of Saskatchewan.

BEANS

3119-3 High yielding, indeterminate pinto bean line. Maturity is similar to the indeterminate checks CDC WM-2 and Winchester and later than the determinate check, CDC Pintium. Yield was 124 percent relative to the pinto check, CDC Pintium and similar to CDC WM-2. 3119-3 has better pod clear-

ance scores than the checks, Winchester and CDC WM-2. Maturity rating is similar to the check CDC WM-2 but later than CDC Pintium. The height and lodging scores are similar to CDC WM-2 and Winchester. 3119-3 is tolerant to anthracnose races 73 and 105. This line would be well suited to the Saskatchewan growing environment and has a slow darkening seed coat, similar to the check CDC WM-2. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

7ab-3bola-3 Small, very plump dry bean with cranberry seed coat colours and pattern. This line is not intended for any of the traditional bean markets. It is a specialty market type, like an heirloom variety, targeted at small production and aimed at high-value fresh or packaged bean markets. In lieu of established checks for cranberry beans in Saskatchewan, 7ab-3bola-3 was compared to checks of other market classes. It is a medium-late maturing, compact plant, with yields similar to the small seeded dry bean market classes (Envoy and CDC Jet). This line has a seed weight, slightly larger than a pinto bean such as CDC Pintium but smaller than traditional cranberry bean checks. It is tolerant to both races of anthracnose tested.

BKBC6V1312 Upright early season black bean line with good pod height, good yield potential and lodging resistance. BKBC6V1312 has an overall yield potential similar to the check variety, Eclipse. Lodging resistance and maturity are similar to Eclipse. Pod placement is good relative to Eclipse. Seed quality ratings suggest slightly weaker quality than both check varieties, Eclipse and CDC Jet. BKBC6V1312 appears to offer a net improvement over the check variety Eclipse in terms of pod placement, which could mean improved direct harvest and yield potential for dry bean growers.

BKBC6V1312 is broadly adapted for the dry bean growing regions of Manitoba and Ontario. Developed by Seminis Vegetable Seeds with support from Canterra Seeds.

NAVC6V1200 Upright full season navy bean with good to excellent yield potential with an upright stature. NAVC6V1200 has significantly higher yield potential and better lodging resistance than the check variety, Envoy. This line has a later maturity, at least two days later than Envoy. Seed quality scores suggest similar if not slightly weaker quality relative to Envoy. NAVC6V1200 has demonstrated an improved response to white mold relative to the check variety, Envoy. This line is suited for Manitoba and Red River Valley extending to Fargo, North Dakota, Ontario and Michigan. Developed by Seminis Vegetable Seeds with support from Canterra Seeds.

PINC6V1314 Upright pinto bean line with early maturity, superior lodging resistance and improved yield potential. PINC6V1314 has similar yield potential to the check variety Windbreaker but has superior lodging resistance. The line matures two days earlier than Windbreaker and has very good pod placement relative to Windbreaker. Seed quality scores suggest equivalent or slightly better quality than Windbreaker. Disease reactions are similar to Windbreaker, susceptible to both races of anthracnose race 73 and race 105. Response to white mold is similar to Windbreaker if not slightly weaker. Overall, PINC6V1314 offers a net improvement over Windbreaker for lodging, maturity and pod placement, which could mean improved direct harvest and yield potential for dry bean growers. The line is suited for Manitoba and the Red River Valley extending to Fargo, North Dakota.

continued on page 82 >>

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Elgin ND

- CWIW

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AC® Transcend

- CWAD

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AC® Summit

- White Milling Oat

- high yield, plump kernels

CDC Minstrel

- White Milling Oat

- great yield, good nutritional qualities

Brasetto

- Hybrid Fall Rye

- higher yields, high ROI

AAC Bravo

- Flax

- large seed, good yield

Abarth

- Yellow Pea

- large seed, high yield



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Developed by Seminis Vegetable Seeds with support from Canterra Seeds.

PINDJ091012 Pinto bean line that is more upright than the check variety Windbreaker and has better pod placement, making it suitable for direct harvest. Yield potential is similar to Windbreaker or slightly lower. The line has a more upright plant habit with good pod position to allow for direct combining. PINDJ091012 has superior lodging resistance and similar or slightly earlier maturity than Windbreaker. Seed quality scores are similar to Windbreaker. This line is susceptible to both races of anthracnose, race73 and race 105, similar to Windbreaker. Response to white mold is similar to Windbreaker or slightly weaker. This line is suited for Manitoba and Red River Valley extending to Fargo, North Dakota. Developed by Seminis Vegetable Seeds with support from Canterra Seeds.

L10GN821 High yielding great northern bean line with indeterminate, upright bush (Type 2b) growth habit and a large seed size. L10GN821 has a larger seed weight compared to the check cultivar AAC Tundra. Yield is similar to AAC Tundra. Maturity, upright growth habit and lodging resistance are also similar to the check cultivar. L10GN821 has partial field resistance to white mould (incidence and severity), which is similar to the check cultivar. It is susceptible to anthracnose, similar to the check cultivar. Canning and cooking quality traits of L10GN821 are similar to AAC Tundra. This line is suited to the growing conditions in southern Alberta and Saskatchewan. Developed by Agriculture and Agri-Food Canada (AAFC), Lethbridge, AB.

FABA BEANS

219-16 White-flowered zero tannin faba bean. Yield performance is similar to check variety Snowbird. Seed weight is 17 percent smaller than Snowbird but only 10 percent larger than check variety CDC Snowdrop. Lodging tolerance scores were better than Snowbird and CDC Snowdrop. Flowering time, height, and maturity are similar to Snowbird. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

Fabelle Tannin containing faba bean line that was tested and registered in Europe in

2011-12. Based on its growth characteristics and agronomic performance, Fabelle was entered into the Canadian coop testing system in 2013. Fabelle is higher yielding than the checks CDC Fatima and CDC SSNS-1. Lodging tolerance scores are better than both of the check varieties, while maturity is similar to checks. Developed by the DL Seeds Inc., Morden, Man.

Vertigo Synthetic faba bean variety made of four lines: NPZ 4-7610, NPZ 4-7640, NPZ 6-7480, NPZ 5-7820. Vertigo is higher yielding than checks CDC Fatima and CDC SSNS-1. Lodging rating was better than checks during two years of cooperative testing. Vertigo is not significantly later than the checks in maturity ratings. Vertigo has a larger seed weight than the check CDC Fatima. Developed by the DL Seeds Inc., Morden, Man.

FLAXSEED

FP2316 Flaxseed line developed by Crop Development Centre, University of Saskatchewan, Saskatoon, Sask. Supported for full registration by Prairie Recommending Committee for Oilseeds.

FP2401 Flaxseed line developed by Agriculture and Agri-Food Canada, Morden, Man. Supported for full registration by Prairie Recommending Committee for Oilseeds.

FP2422 Yellow flaxseed line developed by Agriculture and Agri-Food Canada, Morden, Man. Supported for full registration by Prairie Recommending Committee for Oilseeds.

FP2429 Yellow flaxseed line developed by Crop Development Centre, University of Saskatchewan, Saskatoon, Sask. Supported for full registration by Prairie Recommending Committee for Oilseeds.

FP2445 Flaxseed line developed by Crop Development Centre, University of Saskatchewan, Saskatoon, Sask. Supported for full registration by Prairie Recommending Committee for Oilseeds.

FP2454 Flaxseed line developed by Crop Production Services (CPS). Supported for full registration by Prairie Recommending

Committee for Oilseeds.

FP2457 Flaxseed line developed by Crop Production Services (CPS). Supported for full registration by Prairie Recommending Committee for Oilseeds.

Omega Yellow flaxseed line developed in the United States. Proposed by Rayglen Commodities. Supported for interim registration in western Canada by Prairie Recommending Committee for Oilseeds.

MUSTARD

B474DH11 Brown mustard line, developed by Agriculture and Agri-Food Canada, Saskatoon.

B474DH71 Brown mustard line, developed by Agriculture and Agri-Food Canada, Saskatoon, Sask. Currently registered as AAC Brown 100.

O60DH17 Oriental mustard line, developed by Agriculture and Agri-Food Canada, Saskatoon, Sask. Currently registered as AAC Oriental 200.

OATS

OT6008 Milling oat line proposed by Jim Dyck, Oat Advantage, Saskatoon, Sask.

OT6009 Milling oat line proposed by Jim Dyck, Oat Advantage, Saskatoon, Sask.

PEAS

P0414-02 A high-yielding yellow cotyledon pea with good lodging resistance. P0414-02 yield was four percent higher than the check Agassiz and eight percent higher than the check CDC Golden over 22 station years. P0414-02 has good lodging resistance, similar to the check variety Agassiz but better than check variety CDC Golden. P0414-02 has lower protein content than both of the check cultivars. P0414-02 has early-medium maturity, similar to the check cultivars. Reactions to mycosphaerella blight, fusarium wilt and powdery mildew are similar to checks. Developed by Agriculture and Agri-Food Canada (AAFC), Lacombe, Alta.

P0511-06 A high-yielding green cotyledon pea with good lodging resistance and very good seed qualities. P0511-06 yield was 14 percent higher than the check line CDC Striker and 10 percent higher than the check Cooper over 20 station-years. This line has good lodging resistance in combination with the high yielding potential. In terms of market acceptance, P0511-06 has optimum seed size and shape, bleaching level and green color intensity. P0511-06 is resistant to powdery mildew. Maturity is one day later than Cooper and four days later than CDC Striker. P0511-06 has lower protein content than CDC Striker. Reactions to mycosphaerella blight and fusarium wilt are similar to checks. Developed by Agriculture and Agri-Food Canada (AAFC), Lacombe, Alta.

LN 4236 Large seeded yellow cotyledon field pea with good lodging resistance and good maturity. LN 4236 was six percent higher yielding than the check CDC Golden and two percent higher yielding than the check Agassiz over 21 station-years. Lodging resistance and maturity ratings are similar to the checks. Seed size is significantly larger than the both check varieties. LN 4236 is resistant to powdery mildew. Developed by Limagrain Nederland BV, The Netherlands.

CDC 3422-8 High yielding green cotyledon, semileafless field pea. CDC 3422-8 has a 17 percent yield improvement compared to the mean of the green checks, CDC Striker and Cooper. The line has fair mycosphaerella blight resistance — better than the checks at Saskatoon — and is powdery mildew resistant. CDC 3422-8 has good lodging resistance, similar to the checks with a medium vine length, slightly taller than the checks. CDC 3422-8 is a medium maturing line, one day later than Cooper, and three days later than CDC Striker. Seed size is medium, smaller than the checks. CDC 3422-8 has a round seed shape, blockier than CDC Striker, but more round than Cooper. This line also features a moderate protein concentration, similar to Cooper, less than CDC Striker and low seed coat breakage percent, similar to CDC Striker, less than Cooper. CDC 3422-8 is similar to the checks CDC Striker and Cooper for bleaching resistance, green colour intensity, moderate cooking time. Fusarium wilt resistance is fair. Developed by the Crop Development

Centre, University of Saskatchewan, Saskatoon, Sask.

CDC 3360-7 Yellow cotyledon, semi-leafless field pea variety with good lodging resistance, good height and yield improvements. CDC 3360-7 yields were 10 percent higher than the mean of the yellow checks, CDC Golden and Agassiz. The line has good lodging resistance, similar to Agassiz, better than CDC Golden and a medium-long vine length, taller than either of the checks. CDC 3360-7 is powdery mildew resistant. Maturity is medium, same as CDC Golden and one day earlier than Agassiz. Seed size is medium, slightly larger than CDC Golden and Agassiz, with a round seed shape, slightly more blocky than CDC Golden and Agassiz. CDC 3360-7 has a low seed coat breakage percent, similar to both of the checks. Protein concentration is moderate, same as Agassiz, less than CDC Golden. Line has fair resistance to mycosphaerella blight and fusarium wilt, similar to checks. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

CDC 3525-9 Yellow cotyledon, semileafless field pea variety with good lodging resistance, good height and improved mycosphaerella blight resistance. CDC 3525-9 has an improved yield (108%) compared to the mean of the yellow checks CDC Golden and Agassiz. Lodging resistance rating is better than the checks. The line is taller than the checks, with medium-long vine length. CDC 3525-9 is resistant to powdery mildew and has fair mycosphaerella blight resistance, better than the both of checks at Saskatoon. Maturity is medium, one day later than the check Agassiz and three days later than CDC Golden. Seed size is medium, similar to CDC Golden and smaller than Agassiz. Seed shape is round, similar to the checks. Seed coat breakage percent is low, similar to Agassiz but higher than CDC Golden. CDC 3525-9 has a moderate protein concentration, similar to Agassiz, less than CDC Golden. Cooking time is similar to the checks. This line has fair resistance to fusarium wilt, similar to the checks. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

CDC 3760-15 High yielding yellow cotyledon, semileafless field pea variety with low

seed coat breakage, good lodging resistance and medium-large seed size. CDC 3760-15 has an improved yield — 11 percent higher than the mean of the yellow checks, CDC Golden and Agassiz. Lodging resistance is good, similar to Agassiz, better than CDC Golden. CDC 3760-15 is powdery mildew resistant. It has a medium-large seed size, larger and rounder than CDC Golden and Agassiz, and a low seed coat breakage percent, similar to CDC Golden, less than Agassiz. Maturity rating is medium, similar to CDC Golden and one day earlier than Agassiz. Vine length is medium-long, similar to checks. Protein concentration and cooking time are moderate, similar to the checks. Line is rated fair for mycosphaerella blight resistance and fusarium wilt resistance, similar to the checks. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

RYE

RT209 High yielding, hybrid fall rye line developed by KWS and also known as KWS Brassetto. Proposed for Canadian registration by A. Gordillo. Supported for full registration.

RT210 High yielding hybrid fall rye developed by KWS. Also known as Guttino. Line has similar attributes to KWS Brassetto. Proposed for Canadian registration by A. Gordillo. Supported for full registration.

RT212 High yielding hybrid fall rye by KWS, also known as KWS Bono. Proposed by A. Gordillo. Supported for interim registration.

TRITICALE

T235 Spring triticale line proposed by Peter E. Bonis. Supported for full registration.

WHEAT

BW496 High quality milling wheat developed by Francis Kirigwi, Syngenta. Best suited for production in Manitoba and eastern Saskatchewan. Supported for full registration.

BW963 Awnless, high-yielding, solid-stemmed wheat line supported for full registration. Well suited for areas affected by wheat stem sawfly. Developed by Richard Cuthbert, Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Research Centre (SPARC) at Swift Current, Sask.

BW965 High-yielding, semi-dwarf awned wheat line supported for full registration. Developed by Richard Cuthbert, Agriculture and Agri-Food Canada, Swift Current, Sask.

BW966 Hi-yielding, semi-dwarf awned wheat line developed by Agriculture and Agri-Food Canada, Swift Current, Sask. Proposed by Richard Cuthbert. Supported for full registration.

BW971 Milling wheat line resistant to wheat midge and sawfly. Developed by Pierre Hucl, University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

DT577 Amber durum wheat line proposed by J.M. Clark, Connie Briggs and Curtis Pozniak, University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

DT578 Amber durum wheat line proposed by J.M. Clark, Connie Briggs and Curtis Pozniak, University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

DT579 Amber durum wheat line proposed by J.M. Clark, Connie Briggs and Curtis Pozniak, University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

DT856 Low cadmium, amber durum wheat line proposed by Ron DePauw and Y. Ruan, Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Research Centre (SPARC), Swift Current, Sask. Supported for full registration.

Elgin ND U.S. milling wheat variety developed at North Dakota State University. Proposed by Rod Merryweather, FP Genetics. Supported for interim registration. This line will likely be designated to Canada's proposed Canada Northern Hard Red (CNHR) wheat class.

GP131 General purpose spring wheat line. Developed by Curtis Pozniak, University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

HW037 - Hard white spring wheat line, developed by Agriculture and Agri-Food Canada. Proposed by A. J. Burt, Brandon Research Centre. Supported for full registration.

HW616 High yielding hard white spring wheat line proposed by Pierre Hucl and C. Briggs, University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

HY537 Canadian Prairie Spring (CPSR) wheat line developed by Curtis Pozniak, University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

HY1627 Canada Prairie Spring (CPSR) wheat line developed by Harpinder Randhawa, Agriculture and Agri-Food Canada, Lethbridge Research Centre. Lethbridge, Alta. Supported for full registration.

HY1632 Canada Prairie Spring (CPSR) wheat line developed by Harpinder Randhawa, Agriculture and Agri-Food Canada, Lethbridge Research Centre. Lethbridge, Alta. Supported for full registration.

HY2015 (Faller) High-yielding American milling wheat line, also known as Faller. Currently grown in Manitoba under identity-preserved contracts. Proposed by John M. Smith, Seed Depot. Supported for interim registration. This line will likely be designated to Canada's proposed Canada Northern Hard Red (CNHR) wheat class.

HY2016 U.S. milling wheat line, also known as Prosper. Proposed by John M. Smith, Seed Depot. Supported for interim registration. This line will likely be designated to Canada's proposed Canada Northern Hard Red (CNHR) wheat class.

KWS Sparrow High-yielding midge-resistant general purpose spring wheat line developed in the United Kingdom by KWS. Proposed by G. Covey and K. Nelson. Supported for interim registration.

KWS Belvoir High-yielding general purpose wheat line developed in the United Kingdom by KWS. Proposed by G. Covey and K. Nelson. Supported for interim registration.

PT472 Early maturing line with high yield potential and good milling quality. Developed by Agriculture and Agri-Food Canada. Proposed by A.J. Burt. Well suited for conditions in the parkland region. Supported for full registration.

PT474 Early-maturing line with high yield potential. Well suited for the parkland region. Developed by Agriculture and Agri-Food Canada Proposed by A.J. Burt. Supported for full registration.

PT588 Milling wheat line developed by Pierre Hucl at the University of Saskatchewan, Crop Development Centre, Saskatoon, Sask. Supported for full registration.

PT772 Milling wheat line well suited for the parkland region. Developed by Dean Spanner, University of Alberta. Supported for full registration.

SWS433 Soft white spring wheat line developed by Harpinder Randhawa, Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, Alta. Supported for full registration.

W512 Red winter wheat line developed by Rob Graf at Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, Alta. Supported for full registration. Suited to growing conditions in Alberta and western Saskatchewan. Supported for full registration.

W520 Winter wheat line developed by Anita Brûlé-Babel, University of Manitoba, Winnipeg, Man. Supported for full registration.

W530 Hard white winter wheat line developed by Rob Graf, Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, Alta. Supported for interim registration.

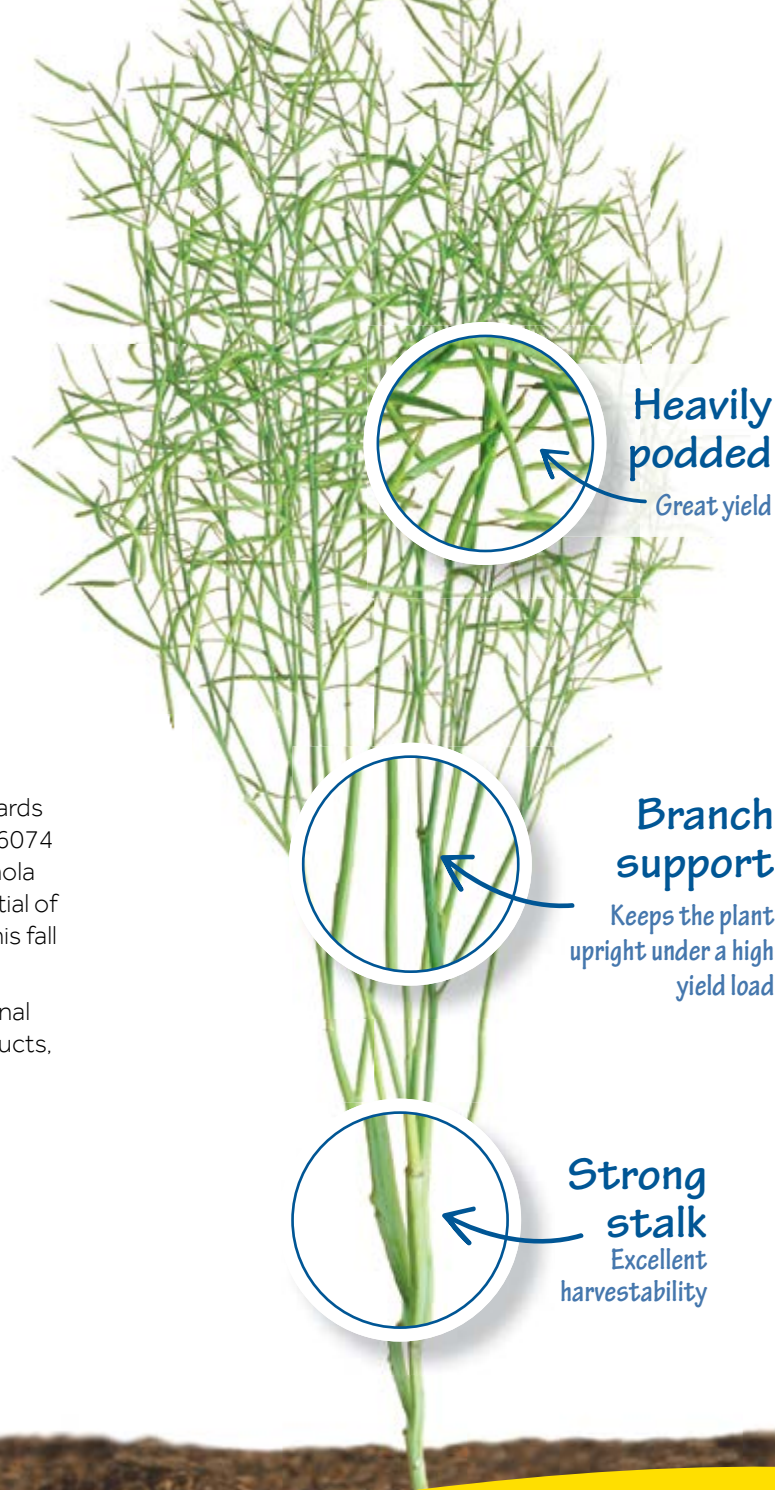
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1 Variety Development

In labs and fields, Plant Breeders develop new seed varieties with new traits and improved yields. Certified seed sales help develop new varieties.



2 Parent Seed Multiplication

Most Breeder seed is produced in small amounts and CSGA seed growers multiply this seed.



3 Field Selection

Seed growers carefully select fields which meet strict previous land use requirements of CSGA.



4 Planting Equipment Sanitation

During planting, seed growers protect quality by investing extra time cleaning machinery and planters to remove seed of other varieties, difficult-to-separate weeds or other crop kinds.



8 Certification

After passing the field inspection and meeting all CSGA standards, the seed grower receives an official crop certificate.



7 Field Inspection

Seed crops are inspected at a specific stage of maturity during the growing season by third-party inspectors licensed by the Canadian Food Inspection Agency (CFIA).



6 Roguing

Seed growers inspect their crops throughout the growing season and remove off-types, other varieties, problem weeds and other crop kinds that have emerged during the season.



5 Isolation

Certified seed production fields are carefully isolated from other crops to prevent contamination from other varieties or crop kinds.



9 Harvesting Equipment Sanitation

Before and during harvest, seed growers protect quality by investing extra time cleaning their harvesting, transfer and storage equipment.



10 Harvesting

At the proper stage of maturity, the seed crop is harvested by the seed grower.



11 Separate Seed Storage

To preserve varietal purity and provide a traceability record, Certified seed requires separate storage bins to preserve unique genetic identities.



12 Testing and Grading

Federal Seeds Regulations require CFIA-accredited graders to verify that pedigreed seed is tested by CFIA-accredited labs for compliance with standards for germination and physical purity.



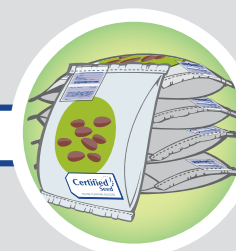
15 Food Processor

Food processors who demand grains and oilseeds grown from Certified seed get the assurance of starting with identity-verified ingredient characteristics to ensure consistent, high quality, premium products.



14 Commercial Farmer

Certified seed is planted by commercial farmers to produce their large commercial crops of grains and oilseeds.



13 Bagging and Tagging

Certified seed is packaged and labeled by variety name with an official blue Certified seed tag.



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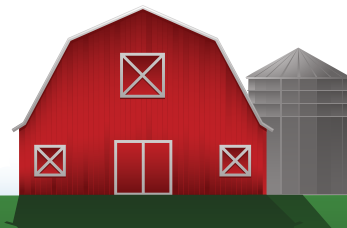
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How is Certified Seed Produced?



1 Variety Development
In laboratories and fields, Plant Breeders work diligently for many years to develop new seed varieties with improved genetics. For farmers, this means improved yields due to better lodging resistance, drought tolerance or insect and disease resistance. For food processors, this relates to innovative characteristics. A portion of the Certified seed sales is reinvested in research to develop new and innovative seed varieties.

2 Parent Seed Multiplication
Breeder seed is usually produced in small amounts, so CSGA seed growers multiply the seed. Accredited CSGA plot growers choose a seed variety to produce in their elite parent seed plots. They reproduce this small amount of seed in accordance with rigorous production certification standards that ensure varietal purity and freedom from impurities. Their Select or Foundation class seed provides the parent seed for other seed growers to produce Registered and Certified class seed crops.
Breeder & Select Plots > Foundation & Registered Seed > Certified Seed > Commercial Grains & Oilseeds
The investment in additional production time means Certified seed growers are committed to producing a proven, quality product.

3 Field Selection
Seed growers carefully select the field in which to produce their crop. Seed growers are required to follow stringent CSGA regulations for previous land use to prevent contamination from other varieties and difficult-to-separate weeds or other crop kinds in their Certified seed crops.

4 Planting Equipment Sanitation
During planting, seed growers protect quality by investing extra time cleaning machinery to ensure no seed of other varieties, difficult-to-separate weeds or other crop kinds are mixed with the seed. When growers change varieties, the entire planter is cleaned to remove all seed of the previous variety.

5 Isolation
Certified seed production fields are carefully isolated from other crops to prevent contamination from other varieties or difficult-to-separate other crop kinds. Seed crop kinds with different types of pollination risks have different isolation requirements. The isolation distance required by CSGA also varies depending on the crop kind in the neighboring field.

6 Roguing
To preserve the purity of Certified seed crops, seed growers inspect their crops throughout the growing season and remove other varieties, off-types, weeds and other crop kinds that have emerged during the season.

7 Field Inspection
Seed crops are inspected at a specific stage of maturity during the growing season by third-party inspectors licensed by the Canadian Food Inspection Agency (CFIA). Inspectors verify isolation distances, previous land use history and parent seed identity. They also complete representative counts throughout the seed field to report impurities such as off-types and other varieties and difficult-to-separate weeds and other crop kinds.

8 Certification
After crop inspection, the inspection report is appraised by the Canadian Seed Growers' Association (CSGA). The CSGA assures the crop has been produced in compliance with its standards. After passing field inspection and meeting CSGA standards, the seed grower receives the official crop certificate that is required for CFIA-Registered Seed Establishments to label seed with official blue Certified tags.

9 Harvesting Equipment Sanitation
Before and during harvest, seed growers protect quality by investing extra time cleaning their harvesting equipment. This prevents common seed, weed or other crop seeds getting mixed with the Certified seed at harvest. When seed growers change fields to harvest a different variety, the entire combine is cleaned to remove all seed of the previous variety harvested.

10 Harvesting
At the proper stage of maturity, the Certified seed crop is harvested by the seed grower.

11 Separate Seed Storage
To preserve varietal purity and provide a traceability record from where the seed was grown all the way to the consumer's table, Certified seed is the first link of an identity preserved (IP) system chain which requires a separate storage bin and records for each variety to preserve its unique genetic identity.

12 Testing and Grading
Federal Seeds Regulations require pedigree seed sold in Canada to be tested for compliance with official grade standards for germination and physical purity by CFIA-accredited labs and graders and labeled by CFIA-registered seed establishments. The federal standards for germination and physical purity of Certified seed are much higher than common grade seed, which assures a higher quality product. Federal Seeds Regulations prohibit common grade seed from being sold by variety name. Common grade seed is from a crop which has not been certified by the CSGA.

13 Bagging and Tagging
After receiving the official CSGA crop certificate and a certificate of analysis from a CFIA-accredited lab, which verifies compliance with seed germination and physical purity standards in federal Seeds Regulations, Certified seed is packaged and labeled by variety name with an official blue Certified seed tag by a CFIA-registered seed establishment. Only then is the seed designated as Certified seed; only then can agricultural field crop seed be sold by variety name.

14 Commercial Farmer
Certified seed is sold to commercial farmers to plant their large commercial crops of grain and oilseeds. Commercial farmers are choosing Certified seed of a specific variety to get the latest innovation, increased yields, improved disease and lodging resistance. Many commercial farmers work closely with food processors to deliver specific varieties of grains and oilseeds under an identity preservation programs.

15 Food Processor
Food processors who demand grains and oilseeds grown from Certified seed get the assurance of starting with identity-verified ingredient characteristics to ensure consistent, high quality, premium products. They also get documented traceability of their food products right back to the field where the Certified seed was produced. Certified seed is the foundation of quality foods and a promise they can market specific varietal characteristics to today's health conscious and food savvy consumers. Ask for grains and oilseeds grown from Certified seed from your grain handler, miller, crusher, ingredient supplier or food manufacturer.





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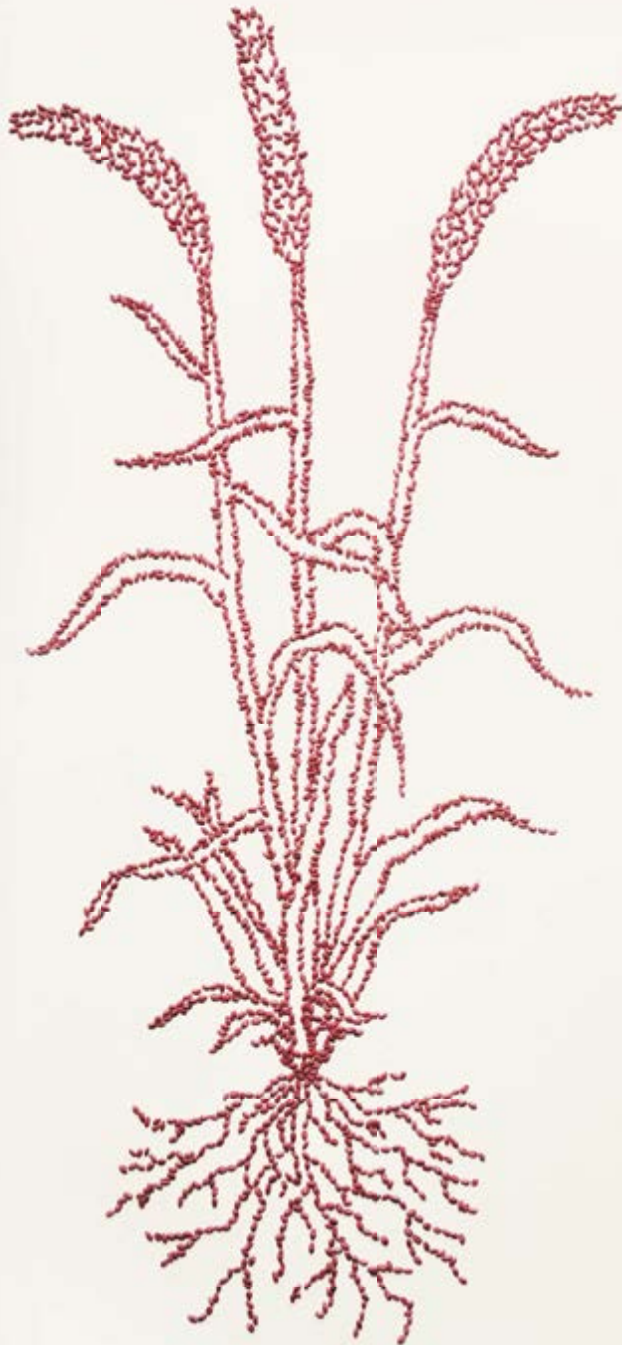
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CANADIAN FOOD INSPECTION AGENCY – PROPOSED LIST OF VARIETY REGISTRATION CANCELLATIONS

The Canadian Food Inspection Agency (CFIA) in consultation with the Canadian Grain Commission (CGC) has adopted a protocol for cancellation of variety registrations by request of the Canadian Representative and Breeder of a given variety.

Under this new, extended protocol, a three-year notification of cancellation period will apply to varieties of all crop kinds except hybrid

canola and rapeseed. Hybrid canola and rapeseed will require a one year notification period.

This timeline enables the Canadian representative and breeder to ensure that seed stocks of the variety have been cleared from the market and that growers have been duly notified, well in advance, in order to clear seed stocks in farmers' operations.

The notification period helps farmers to plan

for the future and minimize any financial risk to their businesses.

Notifications of varietal cancellations will be posted Aug. 1 in each calendar year and the notification period will commence from that date forward.

Crop Kind	Variety	Reg. #	Date Registered	Date Posted	Date of Cancellation
Sweet Yellow Blossom Clover	Yukon	1255	02/27/70	10/01/13	08/01/16
Perennial Ryegrass	Fantom	2607	01/01/86	08/01/13	08/01/16
Annual Ryegrass	Roberta	3826	10/12/93	08/01/13	08/01/16
Annual Ryegrass	Ajax	3894	03/14/94	08/01/13	08/01/16
Yellow Field Pea	Mustang	4103	04/12/95	08/01/13	08/01/16
Oilseed soybean	0800RR*	6248	04/04/07	08/01/14	08/01/17
Oilseed soybean	CeryxRR*	6262	04/13/07	08/01/14	08/01/17
Oilseed soybean	Lanark*	6141	05/24/06	08/01/14	08/01/17
Oilseed soybean	Moncalm*	6140	05/24/06	08/01/14	08/01/17
Oilseed soybean	Renfrew*	6249	04/04/07	08/01/14	08/01/17
Oilseed soybean	Storm	6447	04/24/08	08/01/14	08/01/17
Manteca type field bean	Prim	4691	03/05/98	08/01/14	08/01/17
Green field pea	Venture	5152	06/14/00	08/01/14	08/01/17
Oilseed Flax	CDC Arras	4753	05/19/98	08/01/14	08/01/17
Oilseed Flax	Flanders	3090	04/14/89	08/01/14	08/01/17
Oilseed Flax	Somme	3091	04/14/89	08/01/14	08/01/17
Spring canola	46A76	4924	05/05/99	08/01/14	08/01/17
Field green pea	Nitouche	4900	04/14/99	08/01/15	08/01/18
Red Mexican type field bean	AC Scarlet	5217	11/30/00	08/01/15	08/01/18
Pinto type field bean	AC Pintoba	4668	01/16/98	08/01/15	08/01/18
Black type field bean	Carmen Black	6886	09/23/10	08/01/15	08/01/18
Yellow field pea	AC Melfort	4861	02/10/99	08/01/15	08/01/18
Spring Oat	AC Rebel	4705	03/09/98	08/01/15	08/01/18
Two-Row Spring Barley	AC Bountiful	5028	12/07/99	08/01/15	08/01/18

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SASKATCHEWAN PEDIGREED SEED GROWERS

DIRECTORY OF CROP VARIETIES

This list was prepared by the Canadian Seed Growers Association. It includes varieties eligible for sale in Canada and seed crops issued certificates as of Nov. 10, 2015. CSGA assumes no responsibility for errors or omissions. Varieties followed by an asterisk include reconstituted flax varieties and midge tolerant wheat varieties that are subject to additional certification requirements, ACRs, such as post harvest testing. For all varieties in this list, the pedigreed class code is listed after the grower's phone number. S = Select, F = Foundation, R = Registered, C = Certified.

ALFALFA

3010

Marchildon, Vince & Daniel Zenon Park 306-767-2455 C

4010BR

Gourley, Bruce D. Watson 306-287-3127 C

4030

Ratzlaff, Andrew Kenneth Carrot River 306-768-2874 C

ADRENALIN

Strasser, Alan Nipawin 306-768-2877 C

ALGONQUIN

Ag-Vision Seeds Ltd. Carrot River 306-768-3335 C

Bueckert, Phil Eyebrow 306-759-2076 C

Freedman, Jeffrey Ridgedale 306-921-7426 C

Le Bras, Mart & Evan Arborfield 306-769-8506 C

Marchildon, Joel Zenon Park 306-812-8419 C

Marchildon, Vince & Daniel Zenon Park 306-767-2455 C

Stewart, Ryan Carrot River 306-768-2259 C

Weighill, Ron Carrot River 306-768-3560 C

Wildeman, Maurice Don Lanigan 306-365-4395 C

BARLEY

AAC SYNERGY

Ardell, Terrence, Michael, Joanne & Theresa Vanscoy 306-668-4415 C

Cay, Randy D. Kinistino 306-864-3696 C

Etter, James Raymond Richardson 306-536-0380 C

Friesen, Greg & Brea; Leavins, Brent & Betty Mae Elrose 306-378-4839 C

Girodat, Gerald Shaunavon 306-297-2563 C

Hardy, Allan W. & Dale & Evan Grenfell 306-697-3128 C

Hetland, Bill Naicam 306-874-5694 C

Hyndman, Glen Balcarres 306-334-3015 C

Johnson, Oscar Stuart & Lee Stuart Margo 306-324-4315 C

Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A. Wynyard 306-554-2078 C

Seed Source Inc. Archerwill 306-323-4402 C

Smith, Wayne D. Limerick 306-263-4944 C

Syngenta Canada Inc. Melfort 306-752-5397 F R

Tomtene, Steven & Slind, Daniel Birch Hills 306-749-3447 C

Wylie, Leslie Dale Biggar 306-948-2807 C

AC METCALFE

Berscheid, K.N. & B. & E.K. & S. & C. & Y. Lake Lenore 306-368-2602 S C

Beuker, Allan Daniel & Wilbur A. Melfort 306-752-4810 R C

Booy, Jerry N. & Murray T. & Darcy K. Glaslyn 306-342-2058 R C

Boyd, Clare W. & Dale A. Melfort 306-752-2108 F R C

Boyes, Douglas John Kelvington 306-327-4980 C

Edmunds, Greg & Glen Tisdale 306-873-4780 C

Edwards, Lawrence R. & Donna & Jeff & Mike Nokomis 306-528-2140 R

Fedoruk, Rod M. & Cathy Kamsack 306-542-4235 C

Floberg, Barry & Delana & Devin & Brandon Shaunavon 306-297-2087 C

Fraser, Scott & Shawn Pambrun 306-741-0475 S C

Frederick, Blaine Watson 306-287-3977 R C

Fritzier, Baine A. & Brenda D. & Adam A. Govan 306-484-2010 R C

Gaertner, Lyle Tisdale 306-873-4936 C

Girodat, Gerald Shaunavon 306-297-2563 C

Heavin, G. Harvey & G. Ryan Melfort 306-752-4171 S R

Hetland, Bill Naicam 306-874-5694 C

Jones, Bradley, Wanda & Tennille Wadena 306-338-2381 C

Kerber, Greg Rosthern 306-232-4474 C

Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A. Wynyard 306-554-2078 S F R

Luck, Lorne C. & Landis Tisdale 306-873-4111 R

Lung Seeds Ltd. Lake Lenore 306-368-2414 S F C

Lutzer, Albert & Latrace, Jim Lumsden 306-530-8433 C

Medernach, Louis J., Kim L. & Kyle Cudworth 306-256-3991 C

Novak, Orrin Kuroki 306-338-2021 F R C

Novak, Roy Wadena 306-338-2608 C

Ostafie, Robert Canora 306-563-6244 S C

Pastl, Glenn A. Watson 306-287-4243 C

Pratchler, Leander Muenster 306-682-3317 C

Rempel, Blair Allan Nipawin 306-862-3573 C

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Pender, Richard Joseph	Saskatoon	306-651-4680			C
Tebbutt, Gregg	Nipawin	306-862-9730			C

CDC CLEAR

Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		F	
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Beuker, Allan Daniel & Wilbur A.	Melfort	306-752-4810			C
Denis, Michel P. & Marc	St. Denis	306-258-2219			C
Edmunds, Greg & Glen	Tisdale	306-873-4780			C
Fraser, Scott & Shawn	Pambrun	306-741-0475		R	C
Frederick, Blaine	Watson	306-287-3977		R	C
Gregoire, Denis & Rory & Brandon	N. Battleford	306-445-5516			C
Heavin, Larry N. & L. Warren	Melfort	306-752-4020		R	
Heggie, Kyle Robert	Leross	306-675-4920			C
Hetland, Bill	Naicam	306-874-5694			C
Johnson, Oscar Stuart & Lee Stuart	Margo	306-324-4315			C
Kerber, Greg	Rosthern	306-232-4474			C
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433			C
Mayerle, Kris	Tisdale	306-873-4261		R	
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991			C
Novak, Orrin	Kuroki	306-338-2021			C
Rude, Stanley	Naicam	306-874-2359			C
Rugg, Robert B., Barry J. & Brian R.	Elstow	306-257-3638			C
Sandercock, Eric M.	Balcarres	306-334-2958			C
Seed Source Inc.	Archerwill	306-323-4402		F	
Seidle, E. & B. & C. & M.	Medstead	306-342-4377		R	C
Trawn Seeds	Melfort	306-752-4060		R	
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687		S	F
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377		S	R
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984		S	

Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811			C
Zwingli, James Trent & Shelley	Melfort	306-752-4224			C

CDC COWBOY

Van Burck, Hans, Marianne & Mira	Star City	306-863-4377			C
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Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		F	
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CDC HILOSE

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Heavin, G. Harvey & G. Ryan	Melfort	306-752-4171			C
Ostafe, Robert	Canora	306-563-6244			C
Prachtler, Leander	Muenster	306-682-3317			C
Rude, Stanley	Naicam	306-874-2359			C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377		S	

CDC MARLINA

Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		F	
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Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415		R	
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235		R	
Hicks, Dale & Barry	Mossbank	306-867-8674			C
Kerber, Greg	Rosthern	306-232-4474			C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377		S	F

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Pender, Richard Joseph	Saskatoon	306-651-4680		F	R
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	Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811			C	
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	Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		F		
	CDC POLAR STAR						
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	Cay, Randy D.	Kinistino	306-864-3696			R	
	Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235			R	
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438		S	R		
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Latrace, Bill	Caronport	306-693-2626			C		
Rude, Stanley	Naicam	306-874-2359			C		
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SUNDRE							
Kerber, Greg	Rosthern	306-232-4474			C		
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Pliska, Ricky	Dorintosh	306-236-3329			C		
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CDC BASTIA							
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CANARYSEED							
CANTATE							
Hansen, James S.	Yellow Grass	306-465-2525			C		
CDC CALVI							
Fast, Walter J. & Linda	Kindersley	306-463-3626			R		
Klym, Roy	Regina	306-543-5052			R		
Lung Seeds Ltd.	Lake Lenore	306-368-2414			R		
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Herle, Gregory & Andrew E.	Wilkie	306-843-2934				R
Huber, Daniel & Rebecca	Landis	306-658-4200				C
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Labrecque, Roger	Saskatoon	306-373-9379				C
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Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	S	F	R
Fraser, Scott & Shawn	Pambrun	306-741-0475			C
Girodat, Gerald	Shaunavon	306-297-2563			C
Heggie, Kyle Robert	Leross	306-675-4920			C
Heggie, Robert Thomas	Leross	306-675-4920			C
Hetland, Bill	Naicam	306-874-5694	S		R
Kerber, Greg	Rosthern	306-232-4474			C
Lutze, Albert & Latrace, Jim	Lumsden	306-530-8433			C
Mayerle, Kris	Tisdale	306-873-4261			C
Ostapovitch, F.G. & Glen	Theodore	306-647-2205			C
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Stauber, Clayton & Lori	Stewart Valley	306-773-7907				C
Trawin Seeds	Melfort	306-752-4060				C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377				C
Yauck, Kevin Rodney	Govan	306-484-4555				C

OMEGA

Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-4839				C
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PRAIRIE BLUE

Willner, Brady E.	Davidson	306-567-4613				C
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PRAIRIE SAPPHIRE

Gizen, Jason	Prelate	306-628-8127				R
Sorgard, Graham	Churchbridge	306-896-2236				R

PRAIRIE THUNDER

Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235				C
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VT50

Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S	F	R	C
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Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S			
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WESTLIN 71

Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S			C
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Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S			C
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Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S			C
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Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687				C
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WESTLIN 72

Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S			
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S	F		

HEMP

CFX-2

Hemp Genetics International Inc.	Saskatoon	604-882-4936				C
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FINOLA

Mayerle, Kris	Tisdale	306-873-4261				C
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GRANDI

Hemp Genetics International Inc.	Saskatoon	604-882-4936				C
Hemp Genetics International Inc.	Saskatoon	604-882-4936				C

HEMPNUT

Benson, Thomas	Regina	306-586-3293				C
Campbell, Hugh	Qu'appelle	306-699-2967				R
Denis Cadrain, Cadrain Land and Cattle	Glaslyn	306-342-4363				C

KATANI

Hemp Genetics International Inc.	Saskatoon	604-882-4936				C
Herperger, Ronald & Kyle	Atwater	306-745-2528				C
Mayerle, Kris	Tisdale	306-873-4261				C

PICOLO

Hemp Genetics International Inc.	Saskatoon	604-882-4936				C
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LENTILS

CDC CHERIE

Clark, Shaun & Gilchrist, Armand & Gibbings, Neil & Raycraft, James	Rosetown	306-831-8963	S			
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CDC DAZIL

Bergstrom, Randy M.	Birsay	306-573-4625				C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-4839				C
Hansen, James S.	Yellow Grass	306-465-2525				C
Simpson, Trevor W.	Moose Jaw	306-693-9402				C
Stauber, Clayton & Lori	Stewart Valley	306-773-7907				C
Straub, Lorne A.	Pense	306-345-2390				C

CDC GREENLAND

Fraser, Scott & Shawn	Pambrun	306-741-0475				C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-5917				C
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344				C
Willner, Brady E.	Davidson	306-567-4613				R

FLAX

HEMP

LENTILS

CDC GREENSTAR

Bews, W. Kenneth & Brent W.	Eatonia	306-967-2440			C
Ellert, David & Christopher	Willow Bunch	306-476-7623			C
Fraser, Scott & Shawn	Pambrun	306-741-0475	F		C
Heatcoat, Brady & Amy	Assiniboia	306-642-4430		R	
Klym, Roy	Regina	306-543-5052	S		
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433		R	
Mattus, Ronald	Chaplin	306-395-2652		R	
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	R
Moen, Jim	Cabri	306-587-2214		R	
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F	R
Printz, Gerald & Kurt	Gravelbourg	306-648-3511		R	C
Reisner, Cecil & Barry	Limerick	306-263-2139			C
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344			C
Simpson, Jamie P.	Moose Jaw	306-693-9402		R	
Simpson, Trevor W.	Moose Jaw	306-693-9402		R	
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944			C
Tanner, David A. & Hazel	Regina	306-757-7012		R	
Wiens, Brennan R.	Herschel	306-377-2002	S	F	R

CDC IMAX

Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087			C
Girodat, Gerald	Shaunavon	306-297-2563			C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	C
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409		F	C
Willner, Brady E.	Davidson	306-567-4613			C

CDC IMPALA

Fenton, Robin Paul	Tisdale	306-873-3234			C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-5917			C

CDC IMPOWER

Garratt, Lyle C. & K.C.	Milestone	306-436-2178			C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	F	R	C
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S		C
Wiens, Brennan R.	Herschel	306-377-2002		R	C

CDC IMPROVE

Schmeling, Donald H.	Riceton	306-530-1052		R	C
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CDC IMPULSE

Clark, Shaun & Gilchrist, Armand & Gibbings, Neil & Raycraft, James	Rosetown	306-831-8963	S		
Denis, Michel P. & Marc	St. Denis	306-258-2219		R	
Girodat, Gerald	Shaunavon	306-297-2563		F	
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S		
Reisner, Cecil & Barry	Limerick	306-263-2139	S	F	
Simpson, Jamie P.	Moose Jaw	306-693-9402		R	
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S	F	
Straub, Lorne A.	Pense	306-345-2390	S		

CDC INVINCIBLE

Garratt, Lyle C. & K.C.	Milestone	306-436-2178			C
Rogg, Paul A.	Pennant	306-626-3236		R	
Smith, Wayne D.	Limerick	306-263-4944		R	
Stirton, Brian James	Moose Jaw	306-693-2310		R	

CDC KR-2

Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S	F	
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CDC MARBLE

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415		F	
Greenshields, Grant & Jim & Callie	Semans	306-524-4339		R	
Simpson, Jamie P.	Moose Jaw	306-693-9402			C
Yauck, Kevin Rodney	Govan	306-484-4555	S		R

CDC MAXIM

Amos, K. Wayne	Oxbow	306-483-2963		R	C
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415		R	
Craswell, Raymond W.	Strasbourg	306-725-3236		R	
Denis, Michel P. & Marc	St. Denis	306-258-2219			C
Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087		R	
Fraser, Scott & Shawn	Pambrun	306-741-0475		R	
Keyser, Robert Sean	Cupar	306-723-4949			C



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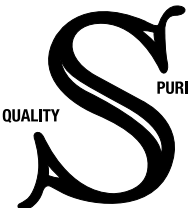
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Clearview Acres	Virden, MB	204-748-2666
Fedoruk Seeds	Kamsack	306-542-4235
Frederick Farms	Watson	306-287-3977
Denis Lueke	Humboldt	306-682-5170
Moroz Agra	Pelly	306-595-4622
Northland Seeds	Margo	306-324-4315
Seed Source	Archerwill	306-323-4402
Swan Valley Seeds	Swan River, MB	204-734-2526
Trawin Seeds	Melfort	306-752-4060
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Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078			
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433	F		
McDougall, Ken & Craig	Moose Jaw	306-693-3649	F		C
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409			C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-5917		R	
Schmeling, Donald H.	Riceton	306-530-1052			C
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867			C
Straub, Lorne A.	Pense	306-345-2390			C
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714	F		C
Wylie, Leslie Dale	Biggar	306-948-2807		R	

CDC QG-2					
AGT Foods	Regina	306-525-4490			C

CDC REDCLIFF					
Craswell, Raymond W.	Strasbourg	306-725-3236	F	R	

CDC SCARLET					
Printz, Gerald & Kurt	Gravelbourg	306-648-3511			C

INDIAN HEAD					
Simpson, Jamie P.	Moose Jaw	306-693-9402	F		

MUSTARD

AAC ADAGIO (YELLOW)					
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010	F		C

ANDANTE (YELLOW)					
Ackerman, Patrick	Chamberlain	306-638-3177			C
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010	F		C

Greenshields, Grant & Jim & Callie	Semans	306-524-4339			C
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Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027			C
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CENTENNIAL (BROWN)					
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010			C

CUTLASS (ORIENTAL)					
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010	F		C

Mustard 21 Canada Inc.	Saskatoon				F
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FORGE (ORIENTAL)					
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	F		

OATS

AAC ORAVENA					
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235			C

AC MORGAN					
Beuker, Allan Daniel & Wilbur A.	Melfort	306-752-4810	S	F	R

Danielson, Lionel & Bonnie	Norquay	306-594-2173			C
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Edmunds, Greg & Glen	Tisdale	306-873-4780			C
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Gaertner, Lyle	Tisdale	306-873-4936		R	
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Goossen, Mathew	Stenen	306-547-7432			C
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Heavin, G. Harvey & G. Ryan	Melfort	306-752-4171		R	C
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Heavin, Milton Russell	Melfort	306-752-4071		R	C
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Larsen, Lyle L.	Aylsham	306-862-7333			C
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Megli, Wayne	Carrot River	306-768-2991			C
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Pogu, Jean	Duck Lake	306-467-4903			C
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Rempel, Blair Allan	Nipawin	306-862-3573			C
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Seidle, E. & B. & C. & M.	Medstead	306-342-4377		R	C
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Trawin Seeds	Melfort	306-752-4060		R	C
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Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687		R	
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Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811			C
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CDC BALER					
Lueke, Dennis	Humboldt	306-682-5170		R	C

CDC BOYER					
Stoll, Douglas John, Joan & Lyndon	Delisle	306-493-2534	F		

CDC DANCER					
Jones, Bradley, Wanda & Tennille	Wadena	306-338-2381		R	

Littman, Larry W. & Allan B. & L. Robert & Adam	Saltcoats	306-783-2512		R	
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Seed Source Inc.	Archerwill	306-323-4402			C
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LENTILS

MUSTARD

OATS

CDC HAYMAKER

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415		R
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	F	R
Hicks, Dale & Barry	Mossbank	306-867-8674		C
Kerber, Greg	Rosthern	306-232-4474		R
Lueke, Dennis	Humboldt	306-682-5170		C
Trawin Seeds	Melfort	306-752-4060	F	R

CDC MINSTREL

Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S	R
Fraser, Edward H. & Glen & Dale	Yarbo	306-745-3830		C
Frederick, Blaine	Watson	306-287-3977		R
Jones, Bradley, Wanda & Tennille	Wadena	306-338-2381		R
Klym, Dustin	Regina	306-543-5052		C
Klym, Tyler	Regina	306-543-5052		C
Laforge, Troy	Swift Current	306-773-0924		C
Littman, Larry W. & Allan B. & L. Robert & Adam	Saltcoats	306-783-2512		R
Pogu, Jean	Duck Lake	306-467-4903		C
Seed Source Inc.	Archerwill	306-323-4402		C
Shewchuk, Stan & Lorne & Terry & Adam & Michael	Blaine Lake	306-497-2800	S	R
Straub, Lorne A.	Pense	306-345-2390		R
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S	

CDC MORRISON

Fedoruk, Michael J.	Kamsack	306-542-4235	F	C
Johnson, Oscar Stuart & Lee Stuart	Margo	306-324-4315		R
Mayerle, Erwin D.	Tisdale	306-873-4261		C
Seed Source Inc.	Archerwill	306-323-4402	F	C
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		C

CDC NASSER

Trowell, Leslie	Saltcoats	306-744-2684	S	F
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CDC ORRIN

Frederick, Blaine	Watson	306-287-3977		C
Jones, Bradley, Wanda & Tennille	Wadena	306-338-2381		C

CDC RUFFIAN

Beuker, Allan Daniel & Wilbur A.	Melfort	306-752-4810		R
Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939		C
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235		R
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438		R
Kerber, Greg	Rosthern	306-232-4474		R
Lueke, Dennis	Humboldt	306-682-5170		R
Woods, Dale Arthur	Rocanville	306-645-4423		R

CDC SO-I

Toman, Fred & Randy	Guernsey	306-365-8386		C
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811	S	C

CS CAMDEN

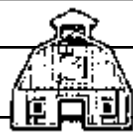
Fedoruk, Michael J.	Kamsack	306-542-4235		R
Hetland, Bill	Naicam	306-874-5694	S	F
Johnson, Oscar Stuart & Lee Stuart	Margo	306-324-4315		R
Lung Seeds Ltd.	Lake Lenore	306-368-2414	F	R
Mayerle, Kris	Tisdale	306-873-4261		C
Seed Source Inc.	Archerwill	306-323-4402		R
South, Winston & Richard & Bradley	Melfort	306-752-9840	S	F
Trawin Seeds	Melfort	306-752-4060	S	C
Trowell, Leslie	Saltcoats	306-744-2684	S	F

LEGGETT


Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	F	
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SOURIS


Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415		C
Bodnaryk, John E.	Rhein	306-273-4263		C
Frederick, Blaine	Watson	306-287-3977		C
Moroz, Troy	Pelly	306-595-4622		C



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YELLOW PEAS - CDC Amarillo, CDC Meadow
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





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Peas: CDC Amarillo

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Ph: 306-484-4643 Fax: 306-484-2189 Email: yauckseedfarm@sasktel.net




SUMMIT

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S	R
Beuker, Allan Daniel & Wilbur A.	Melfort	306-752-4810		R
Cay, Randy D.	Kinistino	306-864-3696		C
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	F	
Frederick, Blaine	Watson	306-287-3977		R C
Ostafie, Robert	Canora	306-563-6244		C
Shwaga, Jeff W.	Wroxton	306-742-4590		R C
Trowell, Leslie	Saltcoats	306-744-2684	S F	R

TRIACTOR

Lung Seeds Ltd.	Lake Lenore	306-368-2414		C
Mayerle, Kris	Tisdale	306-873-4261		C

PEAS

AAC ARDILL (YELLOW)

Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S	R
Hanley, Erwin & Selina	Regina	306-586-4509		R
Hicks, Dale & Barry	Mossbank	306-867-8674		R
Kaeding, Warren	Churchbridge	306-896-2647	S F	
McDougall, Ken & Craig	Moose Jaw	306-693-3649		R
Sorgard, Graham	Churchbridge	306-896-2236		R
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811	S F	R

AAC CARVER (YELLOW)

Crosson, Lorne & Will & Lee & Glen	Welwyn	306-733-4593	S F	
Hyndman, Glen	Balcarres	306-334-3015	S	
Trowell, Leslie	Saltcoats	306-744-2684	S	

AAC LISCARD (MAPLE)

Kaeding, Warren	Churchbridge	306-896-2647	S	
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ABARTH (YELLOW)

Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939		C
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235		C
Frederick, Blaine	Watson	306-287-3977		R C
Herle, Gregory & Andrew E.	Wilkie	306-843-2934		C
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078	S F	R
McCarthy, Brent	Corning	306-224-4848		C
Sayers, Charlie Joseph	Delmas	306-445-6522		C
Sorgard, Graham	Churchbridge	306-896-2236		C
Straub, Lorne A.	Pense	306-345-2390		C
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714		C
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811	S	R C
Woods, Dale Arthur	Rocanville	306-645-4423		C
Wylie, Leslie Dale	Biggar	306-948-2807		C

AGASSIZ (YELLOW)

Pfeifer, Robert G.	Lemberg	306-335-2532		R
Trowell, Leslie	Saltcoats	306-744-2684	S	R

CDC AMARILLO (YELLOW)

Allan, John Garth	Corning	306-457-2629	S F	R
Amos, K. Wayne	Oxbow	306-483-2963		R
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S F	R
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S	C
Bews, W. Kenneth & Brent W.	Eatonia	306-967-2440	F	C
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058		C
Bryant, Lee & Phyl & Vern & Carol	Battleford	306-937-3565	F	R
Buziak, Ronald Charles	Mayfair	306-445-6556		R C
Carefoot, Lorne R.	Swift Current	306-773-6970		C
Cresswell, Gordon B. & Bryan & Mark	Tisdale	306-873-5360	F	
Dangstorp, Brian & Perry	Redvers	306-452-3443		C
Dear, Jonathon	Hepburn	306-947-4740		R
Denis, Michel P. & Marc	St. Denis	306-258-2219		R
Dowdeswell, Keaton, L.	Pennant	306-626-3331		C
Dutton, David H. & George	Paynton	306-895-4306	S	C
Egert, Curtiss D.	Cando	306-937-2025		R
Fast, Walter J. & Linda	Kindersley	306-463-3626		R

Fedoruk, Michael J.	Kamsack	306-542-4235	F	
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	S	F
Fraser, Scott & Shawn	Pambrun	306-741-0475		C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-4839		R
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010		R
Girodat, Gerald	Shaunavon	306-297-2563	F	C
Greenshields, Grant & Jim & Callie	Semans	306-524-4339		R
Herle, Gregory & Andrew E.	Wilkie	306-843-2934		C
Klemmer, Richard	Nipawin	306-862-3874		R
Klym, Roy	Regina	306-543-5052		R
Labrecque, Roger	Saskatoon	306-373-9379		R
Littman, Larry W. & Allan B. & L. Robert & Adam	Saltcoats	306-783-2512	S	C
Luck, Lorne C. & Landis	Tisdale	306-873-4111		C
Mayerle, Erwin D.	Tisdale	306-873-4261	S	F
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F
Moen, Jim	Cabri	306-587-2214		R
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409		R
Palmier, Maurice, Jason & Anita	Lafleche	306-472-5917		C
Reisner, Cecil & Barry	Limerick	306-263-2139		C
Rempel, Blair Allan	Nipawin	306-862-3573	S	F
Rogg, Paul A.	Pennant	306-626-3236		C
Rude, Stanley	Naicam	306-874-2359	S	R
Rugg, Robert B., Barry J. & Brian R.	Elstow	306-257-3638	S	F
Sayers, Charlie Joseph	Delmas	306-445-6522		C
Seed Source Inc.	Archerwill	306-323-4402	S	R
Shewchuk, Stan & Lorne & Terry & Adam & Michael	Blaine Lake	306-497-2800	S	
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S	R
Tebbutt, Gregg	Nipawin	306-862-9730	S	F
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		R
Trawin Seeds	Melfort	306-752-4060	S	R
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714		R
Veikle, Lynne, Marshall & Jason	Cut Knife	306-398-2923		C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	S	F
Wiens, Steven	Wymark	306-773-9547		R
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811	S	F
Willner, Brady E.	Davidson	306-567-4613		R
Willner, Lorne E.	Davidson	306-567-4613		F
Yauck, Kevin Rodney	Govan	306-484-4555		C
Youzwa, Donald	Nipawin	306-862-5690	S	F
CDC CENTENNIAL (YELLOW)				
Ostafie, Brendan	Canora	306-563-6244	S	F
CDC DAKOTA (GREEN)				
Dutton, David H. & George	Paynton	306-895-4306	S	C
CDC GOLDEN (YELLOW)				
Allan, John Garth	Corning	306-457-2629		C
Allan, John Richard	Corning	306-457-7310		C
Catherwood, James	Calgary	403-836-9699		C
CDC GREENWATER				
Amos, K. Wayne	Oxbow	306-483-2963		F
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S	F
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S	F
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil & Raycraft, James	Rosetown	306-831-8963	S	
Cresswell, Gordon B. & Bryan & Mark	Tisdale	306-873-5360		F
Dutton, David H. & George	Paynton	306-895-4306	S	
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235		F
Forer, Tim & Denise	Avonlea	306-868-4433		F
Fraser, Scott & Shawn	Pambrun	306-741-0475		F
Greenshields, Grant & Jim & Callie	Semans	306-524-4339		F
Gregoire, Denis & Rory & Brandon	N. Battleford	306-445-5516	S	F
Hetland, Bill	Naicam	306-874-5694	S	F
Jones, Bradley, Wanda & Tennille	Wadena	306-338-2381	S	F



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Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433	S
Mattus , Ronald	Chaplin	306-395-2652	F
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S F
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991	F
Miller, Neil, Jarrod, Sean & Bruce	Avonlea	306-868-7822	F
Nakonechny, Donald , Coral & Lance	Ruthilda	306-932-4409	S F
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S F
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S F
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714	F
Veikle, Lynne, Marshall & Jason	Cut Knife	306-398-2923	F
CDC HORIZON (FORAGE)			
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	C
CDC INCA (YELLOW)			
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S
Bews, W. Kenneth & Brent W.	Eatonia	306-967-2440	S F
Bryant, Lee & Phyl & Vern & Carol	Battleford	306-937-3565	S
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil & Raycraft, James	Rosetown	306-831-8963	S
Dutton, David H. & George	Paynton	306-895-4306	S
Fraser, Scott & Shawn	Pambrun	306-741-0475	S
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010	S
Girodat, Gerald	Shaunavon	306-297-2563	S
Greenshields, Grant & Jim & Callie	Semans	306-524-4339	S
Klym, Roy	Regina	306-543-5052	S
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078	S
Littman, Larry W. & Allan B. & L. Robert & Adam	Saltcoats	306-783-2512	S
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S
Nakonechny, Donald , Coral & Lance	Ruthilda	306-932-4409	S
Ostafie, Brendan	Canora	306-563-6244	S
Reisner, Cecil & Barry	Limerick	306-263-2139	S
Rugg, Robert B., Barry J. & Brian R.	Elstow	306-257-3638	S
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344	F
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944	S
Thompson, Jan Harris	Naicam	306-874-7138	S
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714	S
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402	S
Yauck, Kevin Rodney	Govan	306-484-4555	S
CDC LIMERICK (GREEN)			
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S F
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	R
Greenshields, Grant & Jim & Callie	Semans	306-524-4339	C
Gregoire, Denis & Rory & Brandon	N. Battleford	306-445-5516	F R
Hetland, Bill	Naicam	306-874-5694	S F
Johnson, Oscar Stuart & Lee Stuart	Margo	306-324-4315	C
Keyser, Robert Sean	Cupar	306-723-4949	C
Lawrence, Jim	Colonsay	306-255-2723	C
Lung Seeds Ltd.	Lake Lenore	306-368-2414	R
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S F
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S
Sopel, Calvin & Arlene	Ituna	306-795-3617	C
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714	C
Veikle, Lynne, Marshall & Jason	Cut Knife	306-398-2923	C
CDC MEADOW (YELLOW)			
Allan, Raymond N. & Ruth	Corning	306-224-4666	C
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	F
Fedoruk, Michael J.	Kamsack	306-542-4235	F
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	S F R
Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087	C

Hyndman, Glen	Balcarres	306-334-3015		R	C
Klym, Roy	Regina	306-543-5052			C
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078		R	C
Ostafie, Brendan	Canora	306-563-6244			C
Sorgard, Graham	Churchbridge	306-896-2236			C
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811	S	F	R
CDC MOSAIC (MAPLE)					
Greenshields, Grant & Jim & Callie	Semans	306-524-4339		F	
CDC PATRICK (GREEN)					
Palmier, Maurice, Jason & Anita	Lafleche	306-472-5917			C
Smith, Wayne D.	Limerick	306-263-4944			C
CDC RAEZER (GREEN)					
Amos, K. Wayne	Oxbow	306-483-2963			C
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	S	F	C
Dutton, David H. & George	Paynton	306-895-4306			C
Fraser, Edward H. & Glen & Dale	Yarbo	306-745-3830			C
Gregoire, Denis & Rory & Brandon	N. Battleford	306-445-5516			C
Jones, Bradley, Wanda & Tennille	Wadena	306-338-2381	S	F	
Latrace, Bill	Caronport	306-693-2626			C
Ostafie, Brendan	Canora	306-563-6244	S	R	
Rude, Stanley	Naicam	306-874-2359		R	
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714			C
CDC SAFFRON (YELLOW)					
Klym, Roy	Regina	306-543-5052			C
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078	S	F	R
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	R
Moroz, Troy	Pelly	306-595-4622			C
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409		R	
Rugg, Robert B., Barry J. & Brian R.	Elstow	306-257-3638			C
Simpson, Trevor W.	Moose Jaw	306-693-9402			C
Stauber, Clayton & Lori	Stewart Valley	306-773-7907			C
Wylie, Leslie Dale	Biggar	306-948-2807		R	
Youzwa, Donald	Nipawin	306-862-5690		R	
CDC STRIKER (GREEN)					
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991			C
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714		F	
CDC TREASURE (YELLOW)					
McCarthy, Brent	Corning	306-224-4848			C
Willner, Brady E.	Davidson	306-567-4613			C
CDC TUCKER (FORAGE)					
Trowell, Leslie	Saltcoats	306-744-2684	S	F	
COOPER (GREEN)					
Pfeifer, Robert G.	Lemberg	306-335-2532			C
MFR131 (MARROW FAT)					
Aubin, Lester	Tisdale	306-873-3777		R	
REDBAT 8 (RED)					
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415		R	
REDBAT 88 (RED)					
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S	F	
STELLA (FORAGE)					
Trowell, Leslie	Saltcoats	306-744-2684	S	F	
THUNDERBIRD (YELLOW)					
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-733-4593			C
RAPE (BRASSICA NAPUS)					
RUGBY					
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438		F	C
RYE					
GAZELLE (SPRING)					
Moroz, Troy	Pelly	306-595-4622	S		
Trawin Seeds	Melfort	306-752-4060	S	F	R
HAZLET (WINTER)					
Tanner, David A. & Hazel	Regina	306-757-7012		F	C

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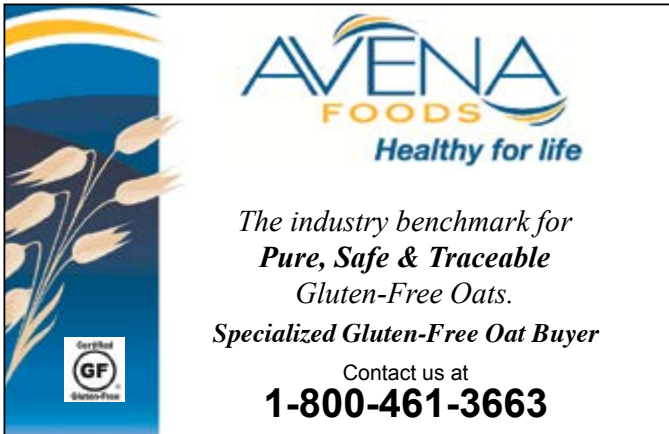
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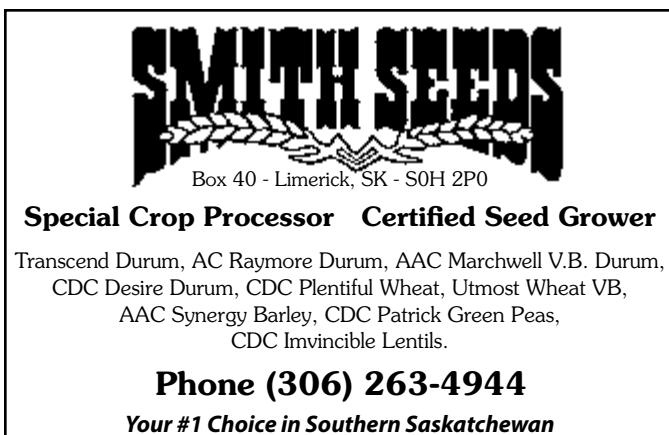
*Wheat: AAC Brandon, AC Carberry, AAC Ryley
*Peas: CDC Raezer, CDC Striker, CDC Limerick, CDC Greenwater
*Barley: CDC Copeland, CDC Meredith, CDC Kindersley
*Flax: CDC Glas *Faba: CDC Snowdrop

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PRIMA (WINTER)							
Hicks, Dale & Barry	Mossbank	306-867-8674					C
RYEGRASS							
JAMES (DAHURIAN WILD)							
Ag-Vision Seeds Ltd.	Carrot River	306-768-3335					C
SOYBEANS							
AAC EDWARD							
Amos, K. Wayne	Oxbow	306-483-2963	S				
BISHOP R2							
Hyndman, Neil S.	Balcarres	306-334-2914					C
MAHONY R2							
Dangstorp, Brian & Perry	Redvers	306-452-3443					C
Gerry, Greg	Creelman	306-457-2220		R			C
MCLEOD R2							
Dangstorp, Brian & Perry	Redvers	306-452-3443					C
Gerry, Greg	Creelman	306-457-2220		R			C
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433					R
NSC MOOSOMIN RR2Y							
FP Genetics	Regina	306-791-0500					C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377					C
NSC RESTON RR2Y							
FP Genetics	Regina	306-791-0500					C
OAC PRUDENCE							
Amos, K. Wayne	Oxbow	306-483-2963					R
McDougall, Ken & Craig	Moose Jaw	306-693-3649					R C
TH33003R2Y							
Elmy, Robert W., Kevin & Christina	Saltcoats	306-744-2779	F	R			C
VITO R2							
FP Genetics	Regina	306-791-0500					C
FP Genetics	Regina	306-791-0500					C
TIMOTHY							
BARPENTA							
Ag-Vision Seeds Ltd.	Carrot River	306-768-3335					C
CLIMAX							
Ag-Vision Seeds Ltd.	Carrot River	306-768-3335					C
GRINDSTAD							
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027					C
TRYGGVE							
Ag-Vision Seeds Ltd.	Carrot River	306-768-3335	F				
TRITICALE							
BREVIS (SPRING)							
Heggie, Kyle Robert	Leross	306-675-4920					R
Kaeding, Warren	Churchbridge	306-896-2647	S				
BUNKER (SPRING)							
Trawin Seeds	Melfort	306-752-4060	S	F			
FRIDGE (WINTER)							
Trawin Seeds	Melfort	306-752-4060					C
LUOMA (WINTER)							
Elmy, Robert W., Kevin & Christina	Saltcoats	306-744-2779					C
TYNDAL							
Girodat, Gerald	Shaunavon	306-297-2563					C
Maze, Norman Daryl	Unity	306-398-2637					C
WHEAT							
5604HR CL							
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027					C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	F	R			C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	F	R			C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	F	R			C
5700PR							
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	F	R			C

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TIMOTHY

TRITICALE

WHEAT

AAC BRANDON

Ackerman, Patrick	Chamberlain	306-638-3177	R	C
Amos, K. Wayne	Oxbow	306-483-2963		C
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	R	
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602		C
Beuker, Allan Daniel & Wilbur A.	Melfort	306-752-4810	R	C
Blenkin, Darren & Larry K.	Sintaluta	306-727-2222	R	
Boldt, Garry	Osler	306-239-2071		C
Buziak, Ronald Charles	Mayfair	306-445-6556		C
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-733-4593		C
Edmunds, Greg & Glen	Tisdale	306-873-4780		C
Edwards, Lawrence R. & Donna & Jeff & Mike	Nokomis	306-528-2140	S	F
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235		R
Gerry, Greg	Creelman	306-457-2220		C
Goossen, Mathew	Stenen	306-547-7432		C
Greenshields, Grant & Jim & Callie	Semans	306-524-4339		C
Gregoire, Denis & Rory & Brandon	N. Battleford	306-445-5516		R
Heavin, Larry N. & L. Warren	Melfort	306-752-4020	S	F
Heggie, Robert Thomas	Leross	306-675-4920		C
Hetland, Bill	Naicam	306-874-5694	S	R
Holland, Ernest W.	Rocanville	306-645-4223		C
Huber, Daniel & Rebecca	Landis	306-658-4200		C
Keyser, Robert Sean	Cupar	306-723-4949		R
Lawrence, Jim	Colonsay	306-255-2723		C
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078	S	
Lepp, Milton & Elden; & Neufeld, M.	Hepburn	306-254-4243		C
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991		R
Megli, Wayne	Carrot River	306-768-2991		C
Moroz, Troy	Pelly	306-595-4622		R
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409		C
Ostafie, Robert	Canora	306-563-6244		R
Rempel, Blair Allan	Nipawin	306-862-3573		C
Rude, Stanley	Naicam	306-874-2359		R
Sandercok, Eric M.	Balcarres	306-334-2958		C
Scowen, Troy	Nipawin	306-862-2079		C
Seed Source Inc.	Archerwill	306-323-4402		R
Shewchuk, Stan & Lorne & Terry & Adam & Michael	Blaine Lake	306-497-2800	S	C
Tebbutt, Gregg	Nipawin	306-862-9730		R
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		C
Trawin Seeds	Melfort	306-752-4060		C
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687		R
Willner, Brady E.	Davidson	306-567-4613		C
Woods, Dale Arthur	Rocanville	306-645-4423		C

AAC CABRI (DURUM)

Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S	
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AAC CAMERON - CARBERRY* Subject to Additional Certification Requirements

Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602		F
Cay, Randy D.	Kinistino	306-864-3696		S
Mayerle, Erwin D.	Tisdale	306-873-4261		S
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		F
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714		S

AAC CHIFFON (SOFT WHITE)

Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939		R
Edwards, Lawrence R. & Donna & Jeff & Mike	Nokomis	306-528-2140		R

AAC CONGRESS (DURUM)

Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	
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AAC CONNERY

Crosson, Lorne & Will & Lee & Glen	Welwyn	306-733-4593	S	F
Fedoruk, Michael J.	Kamsack	306-542-4235		F
Trowell, Leslie	Saltcoats	306-744-2684		F

AAC CURRENT (DURUM)

Heatcoat, Brady & Amy	Assiniboia	306-642-4430		C
Mattus, Ronald	Chaplin	306-395-2652		C

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Printz, Gerald & Kurt	Gravelbourg	306-648-3511				C
AAC DURAFIELD (DURUM)						
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F		
AAC ELIE						
Bodnaryk, John E.	Rhein	306-273-4263				R
Frederick, Blaine	Watson	306-287-3977				C
Hyndman, Glen	Balcarres	306-334-3015				R C
Toman, Fred & Randy	Guernsey	306-365-8386				C
Wylie, Leslie Dale	Biggar	306-948-2807				C
AAC FORAY - AAC PENHOLD* Subject to Additional Certification Requirements						
Trawin Seeds	Melfort	306-752-4060	S			
AAC INDUS						
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S			
AAC JATHARIA - CARBERRY* Subject to Additional Certification Requirements						
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415				F
Greenshields, Grant & Jim & Callie	Semans	306-524-4339				F R
Reisner, Cecil & Barry	Limerick	306-263-2139	S	F		
Rugg, Robert B., Barry J. & Brian R.	Elstow	306-257-3638	S	F		
Shewchuk, Stan & Lorne & Terry & Adam & Michael	Blaine Lake	306-497-2800	S	F		
Stoll, Douglas John, Joan & Lyndon	Delisle	306-493-2534				F R
Thompson, Jan Harris	Naicam	306-874-7138	S	F		
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447				F
AAC MARCHWELL - AAC RAYMORE* Subject to Additional Certification Requirements						
Ackerman, Patrick	Chamberlain	306-638-3177				C
Altwasser, Rodney & Allen R. & Dean	Yellow Grass	306-465-2727				C
Bews, W. Kenneth & Brent W.	Eatonia	306-967-2440				R C
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil & Raycraft, James	Rosetown	306-831-8963	S	F		
Fast, Walter J. & Linda	Kindersley	306-463-3626				F C
Fowler, Edith	Central Butte	306-796-4652				C
Fox, Myles & Trena	Gravelbourg	306-648-2800				C
Fraser, Scott & Shawn	Pambrun	306-741-0475	S			C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-4839				F C
Garratt, Lyle C. & K.C.	Milestone	306-436-2178				F R C
Gizen, Jason	Prelate	306-628-8127				C
Klym, Roy	Regina	306-543-5052				C
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433				F C
Miller, Neil, Jarrod, Sean & Bruce	Avonlea	306-868-7822				C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-5917				C
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F	R	C
Printz, Gerald & Kurt	Gravelbourg	306-648-3511				F R C
Reisner, Cecil & Barry	Limerick	306-263-2139				R C
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944				F R
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	S	F		C
Stirton, Brian James	Moose Jaw	306-693-2310				F R C
Straub, Lorne A.	Pense	306-345-2390				F
Sudom, Blaine G. & Nathan	Avonlea	306-868-4620	S			C
Wiens, Brennan R.	Herschel	306-377-2002				F C
AAC PENHOLD						
Dear, Jonathon	Hepburn	306-947-4740				C
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010				C
Goossen, Mathew	Stenen	306-547-7432				F R C
Hyndman, Glen	Balcarres	306-334-3015				R
Kerber, Greg	Rosthern	306-232-4474				C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027				C
Rugg, Robert B., Barry J. & Brian R.	Elstow	306-257-3638				C
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811				C
AAC PREVAIL - CDC PLENTIFUL* Subject to Additional Certification Requirements						
Barlow, Bradley L.	Griffin	306-861-6110				F
Seed Source Inc.	Archerwill	306-323-4402				F
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447				F
AAC RAYMORE (DURUM)						
Catherwood, James	Calgary	403-836-9699				C
Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087				C

Fraser, Scott & Shawn	Pambrun	306-741-0475			C
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010			R
Garratt, Lyle C. & K.C.	Milestone	306-436-2178	F		
Girodat, Gerald	Shaunavon	306-297-2563			C
Gizen, Jason	Prelate	306-628-8127			C
Hicks, Dale & Barry	Mosbank	306-867-8674		R	
Klym, Roy	Regina	306-543-5052			C
McDougall, Ken & Craig	Moose Jaw	306-693-3649		R	
Printz, Gerald & Kurt	Gravelbourg	306-648-3511			C
AAC REDWATER					
Booy, Jerry N. & Murray T. & Darcy K.	Glaslyn	306-342-2058		R	C
Goossen, Mathew	Stenen	306-547-7432		R	
Sorgard, Graham	Churchbridge	306-896-2236		R	
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S	F	R C
Wylie, Leslie Dale	Biggar	306-948-2807			C
AAC SPITFIRE (DURUM)					
Ackerman, Patrick	Chamberlain	306-638-3177		R	
Altwasser, Rodney & Allen R. & Dean	Yellow Grass	306-465-2727	S		R
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415		F	
Bailey, Roy G.	Milden	306-935-4702		R	
Bews, W. Kenneth & Brent W.	Eatonia	306-967-2440		R	
Dowdeswell, Donald D.	Pennant	306-626-3388		F	R
Fast, Walter J. & Linda	Kindersley	306-463-3626	S		R
Fox, Myles & Trena	Gravelbourg	306-648-2800		R	
Fraser, Scott & Shawn	Pambrun	306-741-0475	S		
Gizen, Jason	Prelate	306-628-8127		F	R
Hanley, Erwin & Selina	Regina	306-586-4509		R	
Kemper, Kenneth W. & Armella	Humboldt	306-682-3570		R	
Kemper, Russell & Donna	Fulda	306-682-4929		R	
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S		
Moen, Jim	Cabri	306-587-2214	S		R
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409	S		R
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F	R
Printz, Gerald & Kurt	Gravelbourg	306-648-3511		R	
Reisner, Cecil & Barry	Limerick	306-263-2139		F	
Simpson, Trevor W.	Moose Jaw	306-693-9402		F	R
Sopatky, Jeffery & Patti	Saskatoon	306-227-7867	S		
Stauber, Clayton & Lori	Stewart Valley	306-773-7907			R
AAC TENACIOUS - AAC CRUSADER* Subject to Additional Certification Requirements					
Barlow, Bradley L.	Griffin	306-861-6110		F	
AAC TRADITION					
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447		F	
AAC W1876					
Crosson, Lorne & Will & Lee & Glen	Welwyn	306-733-4593	S		C
Fedoruk, Michael J.	Kamsack	306-542-4235	S		C
Reisner, Cecil & Barry	Limerick	306-263-2139	S		R C
Yauck, Kevin Rodney	Govan	306-484-4555		F	C
AC ANDREW (SOFT WHITE)					
Herle, Gregory & Andrew E.	Wilkie	306-843-2934			C
Maze, Gary Keith	Unity	306-398-2637		R	
Straub, Lorne A.	Pense	306-345-2390			C
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714			C
AC CRYSTAL					
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811			C
AC DOMAIN					
Danielson, Lionel & Bonnie	Norquay	306-594-2173		F	C
AC INTREPID					
Illingworth, H.V. & T.D.	N. Battleford	306-445-5630			C
AC NAVIGATOR (DURUM)					
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027		R	C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S		
BRIGADE (DURUM)					
Boyd, William R. & Regan	Eston	306-962-3526		R	
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S	F	R C

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CEREAL VARIETIES
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FLAX VARIETY
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RED LENTILS: Maxim, CDC Impala. **PEAS:** CDC Armerillo, CDC Patrick green peas.

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WINTER WHEAT: Moats
PEAS: CDC Amarillo (sold out)
FLAX: CDC Bethune Re-constituted
SOYBEANS: McLeod R2, CDC Prudence (conventional)
LENTILS: CDC Maxim CL
HEMP: CFX 1




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BW971 - BW965* Subject to Additional Certification Requirements						
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S			
Cay, Randy D.	Kinistino	306-864-3696	S			
Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939	S			
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil & Raycraft, James	Rosetown	306-831-8963				C
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	S			
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	S			
Fraser, Edward H. & Glen & Dale	Yarbo	306-745-3830	S			
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078	S			
Mc Carthy, Brent	Corning	306-224-4848	S			
Trowell, Leslie	Saltcoats	306-744-2684	S			
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S			
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	S			
Woods, Dale Arthur	Rocanville	306-645-4423	S			
CARBERRY						
Allan, Raymond N. & Ruth	Corning	306-224-4666			R	C
Amos, K. Wayne	Oxbow	306-483-2963	S	F		
Beuker, Allan Daniel & Wilbur A.	Melfort	306-752-4810			R	
Blenkin, Darren & Larry K.	Sintaluta	306-727-2222				C
Ennis, Garnet, Neil & Schmidt, Jordan	Glenavon	306-429-2793				C
Gerry, Greg	Creelman	306-457-2220				C
Gregoire, Denis & Rory & Brandon	N. Battleford	306-445-5516			R	
Heavin, G. Harvey & G. Ryan	Melfort	306-752-4171				C
Lung Seeds Ltd.	Lake Lenore	306-368-2414			R	C
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991				C
Osborne, Nolan Stanley C.	Yorkton	306-782-7113				C
Ostapovitch, F.G. & Glen	Theodore	306-647-2205			R	
Rude, Stanley	Naicam	306-874-2359				C
Schmeling, Donald H.	Riceton	306-530-1052		F		C
Sorgard, Graham	Churchbridge	306-896-2236				C
Stoll, Douglas John, Joan & Lyndon	Delisle	306-493-2534			R	
CARDALE						
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S			C
Bergstrom, Randy M.	Birsay	306-573-4625				C
Blenkin, Darren & Larry K.	Sintaluta	306-727-2222				C
Bodnaryk, John E.	Rhein	306-273-4263				C
Cay, Randy D.	Kinistino	306-864-3696				C
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235				C
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438				C
Frederick, Blaine	Watson	306-287-3977				C
Klemmer, Richard	Nipawin	306-862-3874				C
Lueke, Dennis	Humboldt	306-682-5170			R	
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433				C
Moroz, Troy	Pelly	306-595-4622			R	
Seed Source Inc.	Archerwill	306-323-4402				C
Sorgard, Graham	Churchbridge	306-896-2236				C
Tebbutt, Gregg	Nipawin	306-862-9730				C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377				C
Yauck, Kevin Rodney	Govan	306-484-4555				C
CDC ABOUND						
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S	F		C
CDC ALLOY (DURUM)						
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil & Raycraft, James	Rosetown	306-831-8963	S			
Craswell, Raymond W.	Strasbourg	306-725-3236	S			
Fraser, Scott & Shawn	Pambrun	306-741-0475	S			
Girodat, Gerald	Shaunavon	306-297-2563	S			
McCarthy, Brent	Corning	306-224-4848	S			
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944	S			
Straub, Lorne A.	Pense	306-345-2390	S			

CDC BUTEO (WINTER)			
Stokke, Shane T.	Watrous	306-946-4044	C
CDC CARBIDE - CDC VIVID* (DURUM) Subject to Additional Certification Requirements			
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S F
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S F
Wiens, Brennan R.	Herschel	306-377-2002	S
CDC DESIRE (DURUM)			
Altwasser, Rodney & Allen R. & Dean	Yellow Grass	306-465-2727	C
Dowdeswell, Keaton, L	Pennant	306-626-3331	R
Etter, James Raymond	Richardson	306-536-0380	C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-4839	C
Girodat, Gerald	Shaunavon	306-297-2563	C
Klym, Roy	Regina	306-543-5052	C
McDougall, Ken & Craig	Moose Jaw	306-693-3649	C
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944	C
Stauber, Clayton & Lori	Stewart Valley	306-773-7907	C
Syngenta Canada Inc.,	Melfort	306-752-5397	S R
CDC DYNAMIC (DURUM)			
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S
CDC FORTITUDE (DURUM)			
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S F C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S F C
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	C
CDC ORIGIN			
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447	R C
CDC PLENTIFUL			
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	S R
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore	306-368-2602	C
Buziak, Ronald Charles	Mayfair	306-445-6556	R C
Cay, Randy D.	Kinistino	306-864-3696	C
Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939	R C
Craswell, Raymond W.	Strasbourg	306-725-3236	S C
Danielson, Lionel & Bonnie	Norquay	306-594-2173	S F C
Farley, James P.	Regina	306-757-6844	C
Fedoruk, Michael J.	Kamsack	306-542-4235	R
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235	R
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438	S R C
Frederick, Blaine	Watson	306-287-3977	R C
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010	C
Heggie, Kyle Robert	Leross	306-675-4920	R
Herle, Gregory & Andrew E.	Wilkie	306-843-2934	C
Hyndman, Neil S.	Balcarres	306-334-2914	R
Kerber, Greg	Rosthern	306-232-4474	C
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078	S R
Mayerle, Kris	Tisdale	306-873-4261	C
McCarthy, Brent	Corning	306-224-4848	R C
Ostafie, Robert	Canora	306-563-6244	F C
Sayers, Charlie Joseph	Delmas	306-445-6522	C
Seed Source Inc.	Archerwill	306-323-4402	C
Shewchuk, Stan & Lorne & Terry & Adam & Michael	Blaine Lake	306-497-2800	S R C
Shwaga, Jeff W.	Wroxton	306-742-4590	C
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944	C
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867	R
Sorgard, Graham	Churchbridge	306-896-2236	C
Straub, Lorne A.	Pense	306-345-2390	R C
Trawin Seeds	Melfort	306-752-4060	C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S F R C
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714	R

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 - Abarth
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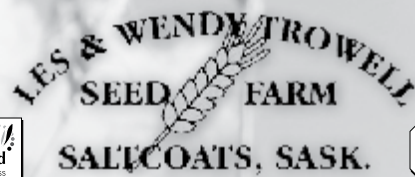


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Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811	S	F	R	C			
Woods, Dale Arthur	Rocanville	306-645-4423				C			
Wylie, Leslie Dale	Biggar	306-948-2807				C			
Yauck, Kevin Rodney	Govan	306-484-4555				C			
CDC PRECISION (DURUM)									
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley	306-778-2344	S						
CDC PRIMEPURPLE									
Hetland, Bill	Naicam	306-874-5694				R			
CDC SILEX (SPELT)									
Kennett, Brian Guy	Manor	306-448-4813				F			
CDC STANLEY									
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027				R	C		
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027				R	C		
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027				R	C		
CDC TITANIUM - STETTLER* Subject to Additional Certification Requirements									
Dear, Jonathon	Hepburn	306-947-4740				C			
Gregoire, Denis & Rory & Brandon	N. Battleford	306-445-5516				C			
Lung Seeds Ltd.	Lake Lenore	306-368-2414				C			
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433				C			
Mayerle, Erwin D.	Tisdale	306-873-4261				C			
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S	F	R	C			
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S	F	R	C			
Sayers, Charlie Joseph	Delmas	306-445-6522				C			
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447				R			
Trowell, Kenneth & Larry & Nathan	Saltcoats	306-744-2687				C			
Wiens, Brennan R.	Herschel	306-377-2002				C			
Winterhalt, Tim	Unity	306-228-3170				C			
Zwingli, James Trent & Shelley	Melfort	306-752-4224				C			
CDC UTMOST - HARVEST* Subject to Additional Certification Requirements									
Ardell, Terrence, Michael, Joanne & Theresa	Vanscoy	306-668-4415	F			C			
Beuker, Allan Daniel & Wilbur A.	Melfort	306-752-4810				R			
Buziak, Ronald Charles	Mayfair	306-445-6556				C			
Cay, Randy D.	Kinistino	306-864-3696				R	C		
Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939				R			
Craswell, Raymond W.	Strasbourg	306-725-3236				R			
Danielson, Lionel & Bonnie	Norquay	306-594-2173				C			
Denis, Michel P. & Marc	St. Denis	306-258-2219				C			
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235				C			
Fenton, Robin Paul	Tisdale	306-873-3234	F	R					
Frederick, Blaine	Watson	306-287-3977				C			
Girodat, Gerald	Shaunavon	306-297-2563				C			
Herle, Gregory & Andrew E.	Wilkie	306-843-2934				C			
Hetland, Bill	Naicam	306-874-5694				C			
Kerber, Greg	Rosthern	306-232-4474				R			
Laxdal, Glen M. & Blyth, D., Wayne, Richard, Quinn, Darryl & Bolt, Glen A.	Wynyard	306-554-2078				R			
Littman, Larry W. & Allan B. & L. Robert & Adam	Saltcoats	306-783-2512				C			
McCarthy, Brent	Corning	306-224-4848				C			
Ostafie, Robert	Canora	306-563-6244				C			
Reisner, Cecil & Barry	Limerick	306-263-2139				R	C		
Sayers, Charlie Joseph	Delmas	306-445-6522				R			
Seed Source Inc.	Archerwill	306-323-4402				C			
Shwaga, Jeff W.	Wroxton	306-742-4590				C			
Smith, Wayne D.	Limerick	306-263-4944				C			
Sorgard, Graham	Churchbridge	306-896-2236				R	C		
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377	S	F	R				
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714				R			
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984	S	F	R	C			
Wilfing, Raymond John & Ryan John	Meadow Lake	306-236-6811				R	C		
Woods, Dale Arthur	Rocanville	306-645-4423				C			
CDC VERONA (DURUM)									
Altwasser, Rodney & Allen R. & Dean	Yellow Grass	306-465-2727							C
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-4839							C
Rennick, Joe R. & William J.	Milestone	306-436-4353							R
Watson, Wayne & Calvin & Mark	Avonlea	306-868-4402	S						
Willner, Brady E.	Davidson	306-567-4613							R
CDC VIVID (DURUM)									
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S	F	R				
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S						
CDC VR MORRIS									
Hall, Norman & Ernie	Wynyard	306-554-3122							C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S						C
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S						C
EMERSON (WINTER)									
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose	306-378-4839							R
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S	F	R	C			
Sorgard, Graham	Churchbridge	306-896-2236							R
ENTERPRISE (DURUM)									
Bergstrom, Randy M.	Birsay	306-573-4625							C
Dowdeswell, Donald D.	Pennant	306-626-3388							C
Peter, Bradley	Assiniboia	306-642-4925							C
Petruic, Cameron L., Judy & Nick	Avonlea	306-868-2294	S						R
EUROSTAR (DURUM)									
Fraser, Scott & Shawn	Pambrun	306-741-0475							C
Johnston, Lorne E. & L. Neil & L. J.	Eston	306-962-3917							C
GLENN									
Blenkin, Darren & Larry K.	Sintaluta	306-727-2222							C
Fedoruk, Rod M. & Cathy	Kamsack	306-542-4235							C
Hyndman, Glen	Balcarres	306-334-3015							C
Pfeifer, Robert G.	Lemberg	306-335-2532							C
Sorgard, Graham	Churchbridge	306-896-2236							C
GOODEVE - AC INTREPID* Subject to Additional Certification Requirements									
Cay, Randy D.	Kinistino	306-864-3696							C
Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939							C
Denis, Michel P. & Marc	St. Denis	306-258-2219							R
Fenton, Gerald A. & Robin Paul	Tisdale	306-873-5438							R
Gaertner, Lyle	Tisdale	306-873-4936							C
Klemmer, Richard	Nipawin	306-862-3874							C
HARVEST									
Ostafie, Robert	Canora	306-563-6244							R
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984							R
INFINITY									
Yauck, Kevin Rodney	Govan	306-484-4555							C
LILLIAN									
Floberg, Barry & Delana & Devin & Brandon	Shaunavon	306-297-2087							C
MOATS (WINTER)									
McDougall, Ken & Craig	Moose Jaw	306-693-3649	S	F	R				
Watson, Wayne Donald & Calvin & Mark	Avonlea	306-868-4402							C
MUCHMORE									
Dangstorp, Brian & Perry	Redvers	306-452-3443							R
Frederick, Blaine	Watson	306-287-3977							C
PARATA									
MacGregor, Robert C.	Garrick	306-276-2384	S						
PASTEUR									
Blenkin, Darren & Larry K.	Sintaluta	306-727-2222							C
Van Burck, Hans, Marianne & Mira	Star City	306-863-4377							C
Wohlgemuth, Mark	Bredenbury	306-898-2022							R

PTS88 - CARDALE* Subject to Additional Certification Requirements									
Proven Seed/ Crop Production Services (Canada) Inc.	Regina	306-569-5027	S						
SADASH (SOFT WHITE)									
Allan, Raymond N. & Ruth	Corning	306-224-4666							C
Charabin, Dale Kenneth & Ryan & Neil & Eric	N. Battleford	306-445-2939							C
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010							C
Maze, Gary Keith	Unity	306-398-2637							C
Toman, Fred & Randy	Guernsey	306-365-8386							C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984							C
SHAW - AC DOMAIN* Subject to Additional Certification Requirements									
Denis, Michel P. & Marc	St. Denis	306-258-2219							C
Ennis, Garnet, Neil & Schmidt, Jordan	Glenavon	306-429-2793							C
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010							C
Hetland, Bill	Naicam	306-874-5694							C
Huber, Daniel & Rebecca	Landis	306-658-4200							C
Kerber, Greg	Rosthern	306-232-4474							C
Klemmer, Richard	Nipawin	306-862-3874							C
Klym, Roy	Regina	306-543-5052							C
Maze, Norman Daryl	Unity	306-398-2637							C
Medernach, Louis J., Kim L. & Kyle	Cudworth	306-256-3991							C
Pratchler, Leander	Muenster	306-682-3317							C
Rempel, Blair Allan	Nipawin	306-862-3573							C
Shwaga, Jeff W.	Wroxtton	306-742-4590							C
Willner, Brady E.	Davidson	306-567-4613				R			C
Woroschuk, Andrew	Calder	306-742-4682							C
Yauck, Kevin Rodney	Govan	306-484-4555							C
STETTLER									
Robinson, Oren A., Marlene & Wade	Landis	306-658-4755							C
STRONGFIELD (DURUM)									
Fraser, Scott & Shawn	Pambrun	306-741-0475							C
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010							C
Johnston, Lorne E. & L. Neil & L. J.	Eston	306-962-3917							C
Lutzer, Albert & Latrace, Jim	Lumsden	306-530-8433							C
Miller, Neil, Jarrod, Sean & Bruce	Avonlea	306-868-7822	S			R			
Nakonechny, Donald, Coral & Lance	Ruthilda	306-932-4409				F			
Petruica, Cameron L., Judy & Nick	Avonlea	306-868-2294							R
Renwick, Douglas Dale	Milestone	306-436-4418							C
Straub, Lorne A.	Pense	306-345-2390							C
Willner, Brady E.	Davidson	306-567-4613							R
SY087									
Syngenta Canada Inc.,	Melfort	306-752-5397				F			
Syngenta Canada Inc.,	Melfort	306-752-5397				F			
THORSBY									
Lung Seeds Ltd.	Lake Lenore	306-368-2414							R
Veikle, Lorne A. & Carl E. & G. & J.	Cut Knife	306-398-4714							F
TRANSCEND (DURUM)									
Bews, W. Kenneth & Brent W.	Eatonia	306-967-2440							R
Craswell, Raymond W.	Strasbourg	306-725-3236				F			R C
Etter, James Raymond	Richardson	306-536-0380							C
Fraser, Scott & Shawn	Pambrun	306-741-0475	S						R C
Girodat, Gerald	Shaunavon	306-297-2563				F			C
Herle, Gregory & Andrew E.	Wilkie	306-843-2934							C
Klym, Dustin	Regina	306-543-5052							C
Klym, Roy	Regina	306-543-5052							C
Klym, Tyler	Regina	306-543-5052							C
McCarthy, Brent	Corning	306-224-4848							C
Palmier, Maurice, Jason & Anita	Lafleche	306-472-5917							C
Printz, Gerald & Kurt	Gravelbourg	306-648-3511							C
Reisner, Cecil & Barry	Limerick	306-263-2139							R C
Smith, Ron T.W. & Barb A.	Limerick	306-263-4944							C
Smith, Wayne D.	Limerick	306-263-4944							R C
Sopatyk, Jeffery & Patti	Saskatoon	306-227-7867							C
Straub, Lorne A.	Pense	306-345-2390							R C
UNITY - WASKADA* Subject to Additional Certification Requirements									
Mayerle, Kris	Tisdale	306-873-4261							C
Needham, Reginald R.	Oxbow	306-483-5052							C
Reisner, Cecil & Barry	Limerick	306-263-2139							C
Rempel, Blair Allan	Nipawin	306-862-3573							R
Rugg, Robert B., Barry J. & Brian R.	Elstow	306-257-3638							C
Thompson, Jan Harris	Naicam	306-874-7138							C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone	306-893-2984							C
VESPER - WASKADA* Subject to Additional Certification Requirements									
Altwasser, Rodney & Allen R. & Dean	Yellow Grass	306-465-2727							C
Bergstrom, Randy M.	Birsay	306-573-4625							C
Gerry, Greg	Creelman	306-457-2220							C
Lung Seeds Ltd.	Lake Lenore	306-368-2414							C
Rempel, Blair Allan	Nipawin	306-862-3573							C
Rude, Stanley	Naicam	306-874-2359							C
South, Winston & Richard & Bradley	Melfort	306-752-9840							C
Tomtene, Steven & Slind, Daniel	Birch Hills	306-749-3447							R
Winterhalt, Tim	Unity	306-228-3170							C
Woroschuk, Andrew	Calder	306-742-4682							C
WASKADA									
Allan, John Garth	Corning	306-457-2629				S	F		R C
Allan, John Richard	Corning	306-457-7310							C
Heavin, Larry N. & L. Warren	Melfort	306-752-4020							R
Needham, Reginald R.	Oxbow	306-483-5052							C
WFT603									
Fritzler, Baine A. & Brenda D. & Adam A.	Govan	306-484-2010							C
WHEATGRASS									
FAIRWAY (CRESTED)									
Scowen, Troy	Nipawin	306-862-2079							C
GREENLEAF (PUBESCENT)									
Ag-Vision Seeds Ltd.	Carrot River	306-768-3335							C
REVENUE (SLENDER)									
Ag-Vision Seeds Ltd.	Carrot River	306-768-3335							C

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Welwyn Acres Inc.	306-645-4386
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- ✓ 120% Yield of CWRS
- ✓ 1.4% Less Protein than Glenn
- ✓ FHB Resistance - Intermediate
- ✓ MR to Leaf & Stem Rust
- ✓ Lodging - Midrange
- ✓ Similar Maturity to Glenn
- ✓ Semi Dwarf - 1" shorter than Glenn



*Working Hard ...
to Earn Your Trust!*





What we do, is in our name.

Trust Pioneer® brand canola hybrids with Pioneer Protector® traits to give you the peace of mind you need when growing canola. There are two new hybrids this year:

Pioneer Protector® Plus – the first and only canola seed with built-in resistance to both sclerotinia and clubroot.

Pioneer Protector® HarvestMax – reduces the risk of harvest losses in canola.

To find out more, talk to your local Pioneer Hi-Bred sales representative or visit pioneer.com.