

2013 Guide SaskSeed

Saskatchewan Seed Growers Association



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Canada's grain industry is changing. How will today's decisions affect tomorrow's value chain?



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1500 Large-scale plots

45H29



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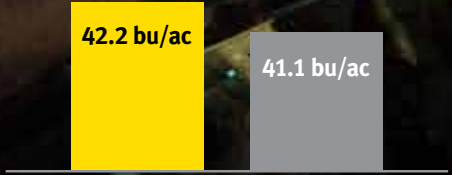
45H29 VS Dekalb 73-75 (RR)
1.6 bu/ac increase
68% WINS | **107** Proving Ground Comparisons

45H29 VS Dekalb 74-44 BL
2.8 bu/ac increase
77% WINS | **22** Proving Ground Comparisons

NEW 45S54



NEW canola hybrid with built-in Pioneer Protector® Sclerotinia Resistance trait and rated R for Blackleg.

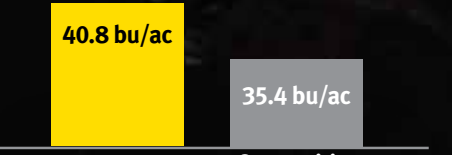


45S54 VS Dekalb 73-75 (RR)
1.1 bu/ac increase
59% WINS | **17** Proving Ground Comparisons

46H75



High yielding canola hybrid in the Clearfield® canola segment.



46H75 VS Competitive CL hybrid
5.4 bu/ac increase
100% WINS | **7** Proving Ground Comparisons

Canola yield data summary averaged across 3 years (2010-2012). Yield data collected from large-scale, grower managed Proving Ground trials across Western Canada as of November 30th, 2012.

Product responses are variable and subject to any number of environmental, disease and pest pressures. Individual results may vary. Multi-year and multi-location data is a better predictor of future performance. Refer to www.pioneer.com/yield or contact a Pioneer Hi-Bred sales representative for the latest and complete listing of traits and scores for each Pioneer® brand product.

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President's Message

As we began the year of 2012, the agricultural community knew there were going to be some challenges and some uncertainties.

We knew the Canadian Wheat Board (CWB) would cease to be a single-desk monopoly. While this allows producers to sell to the buyer of their choice, it raises the uncertainty of what class of wheat should be produced. Will the market still want

the high protein we are currently producing or should we now concentrate only on the highest yield for wheat? Producers will use this current crop year as a learning experience for future cropping plans and marketing.

Not only did the CWB change, the potential stability of the Canadian Grain Commission (CGC) and the Canadian International Grains Institute (CIGI) changed instantly. The roles of CGC for grain inspections and CIGI for market development and customer education abroad, are challenges that are being redesigned to meet the new future.

And what about the future of the Western Grains Research Foundation (WGRF)? This organization has played an invaluable role in the development of new genetics and varieties through producer check-offs for both the grain and livestock sectors.

Even in the production of pedigreed seed, the March 2012 federal budget had a profound impact.

While the seed industry was aware of possible changes to field inspection services of pedigreed seed crops, no one predicted that the changes would be forced upon seed growers so quickly or that the industry would be forced to adapt in a near impossible time frame. E

Even though there is a model being developed, there are still many questions and uncertainties as the seed industry moves to April 2014, the time of implementation of a new pedigreed seed field crop inspection model.

In spite of some short-term unknowns, some long-term facts remain. One of those certainties is the performance and integrity of Certified Seed and the Blue Tag.

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Even the editorials written in the SaskSeed Guide are valuable as these editorials address a current problem or provide insight from a past problem that still exists today such as ergot or rust.

Yet again, excessive moisture seriously impacted yields in many areas, some for the third year running. But no matter what the past growing year gave us, producers have tenacity and resilience to be optimistic for the coming 2013 growing season.

All the best for a safe and productive year to come.

*Les Trowell, President
Saskatchewan Seed Growers Association*

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**Varieties of Grain Crops
2013 24-page pullout
included with this guide**



On the cover...

It's been a year of transition for the Canadian wheat industry and more changes are on the horizon. For the cover of the 2013 Sask Seed Guide, award-winning Western Producer photographer William DeKay captured this image of Saskatchewan-grown spring wheat being cleaned and prepared for market.

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Dawn of a new era

Single-desk marketing is a thing of the past. But what does the future hold for the prairie grain industry?

A YEAR marked by monumental change has come and gone for the Canadian grain industry.

Prepared for Sask
Seed Guide

For producers, seed growers and other grain industry stakeholders, 2012 will almost certainly be remembered as the year the western Canadian grain industry underwent a fundamental transformation.

Among other things:

- the Canadian Wheat Board's mandate as a single-desk marketing agency for western Canadian wheat and barley was ended;
- a process was initiated to review and re-create producer funding mechanisms for wheat and barley research across the West;
- the Canadian Grain Commission began a massive overhaul that will result in fewer services offered and require industry players, including grain companies and farmers, to pony up as much as \$15 to \$20 million per year in additional fees;
- Canada's largest grain company, Viterra, was the target of a massive \$6 billion takeover bid by Switzerland-based Glencore International. Regulatory approval of that deal was finalized in mid-December and the industry is now anticipating additional exchanges of Canadian grain industry assets in 2013;
- the Canadian Food Inspection Agency served notice that as of 2014, it will no longer be responsible for conducting pedigreed seed crop inspections, a move that will require a new inspection system and could potentially cost the seed industry and primary producers millions of dollars annually;
- the federal government announced its intention to close in 2014 Agriculture Canada's Cereal Research Centre in Winnipeg, a move that provides further evidence of Ottawa's intention to limit its involvement in downstream plant breeding activities and the development of new, market-ready crop varieties;
- the grain industry became engaged in a debate about the benefits of Canada's existing variety registration



The elimination of single-desk grain marketing in western Canada dominated discussions about the future of the Canadian grain industry during 2012. The Canadian Wheat Board monopoly has been dismantled but the dust may not be fully settled for several years. | FILE PHOTO

system and whether the system should be streamlined and simplified to attract more private sector investment and;

- the industry, as of mid-December, was assessing the implications of recently introduced federal railway legislation that will ensure, at least in theory, more predictable rail service and a more level playing field between Canada's major railway companies and the shippers that depend of rail service.

Indeed, change was everywhere in 2012. And more is on the horizon.

But will those changes benefit everyone in the Canadian grain supply chain?

Will some industry participants benefit at the expense of others? Or will the entire industry be stronger and more resilient as a result?

Definitive answers to those questions are not likely to emerge any time soon, largely because the grain industry is still adjusting and the full impact of those changes may not be fully understood for several years.

In a recent address to grain industry participants in Ottawa, Jean-Marc Ruest, chairman of the Canada Grains Council and vice-president of corporate affairs with Richardson International, said the

changes affecting the Canadian industry in 2012 were profound and far reaching.

"These are very profound changes and very fast moving changes in an industry that has not historically been known to (embrace) fast changes or any very substantial changes," he said.

The changes have all taken place "within a global environment where the demand for commodities is at an all time high," he added.

"So the question for us as an industry is how will we react to these changes? Will we be able to avoid the major missteps that can occur with rapid change? And more importantly, will we be able to capitalize on the opportunities that present themselves to us as we navigate through these changes?"

Len Penner, president of Cargill Canada, said changes to the grain industry in 2012, particularly the move away from single desk marketing, are quite likely the most significant changes that grain industry participants will ever experience in their careers.

"I would (describe) it as one of those significant events that most of us in our careers will only see once," Penner said.

What remains to be seen is how the industry will respond to the challenges that arise and the opportunities that emerge.

When you look at the CWB and “the change in their marketing role ... what we’ve ended up with is a marketplace with far greater options ... both for our farmers and our demand customers,” Penner said.

“Depending on your perspective, and who you are and how you think, for some (that change) is scary and for others it’s great.”

In addition to expanded marketing options, changes to the wheat board’s mandate have resulted in a new model for managing the movement of Canadian wheat.

“(We’re) moving from centralized management in the movement of our largest crop to decentralizing the management of that movement,” he said.

The grain trade is adapting well to those changes but challenges still exist, he added. (Please see related story on Page 10).

What remains constant is the global demand for grain.

“We have not seen a change in the steady growth in demand for grains globally,” said Penner.

“(Demand) continues to grow by about two or three percent per year ... and we also ... continue to see ... the grain production side, globally, racing to keep up with that increased demand.”

ALL ABOARD FOR NON-BOARDS

CANADA’S VOLUNTARY wheat board has officially dipped its feet into the global canola market.

In early December, CWB officials announced that the agency had dispatched its first shipload of canola from the Port of Prince Rupert in northern British Columbia.

The historic CWB cargo, consisting of 42,000 tonnes of prairie canola, was loaded aboard the vessel Tai Health and destined for Japan.

“We are very pleased to have successfully executed our first export sale of canola,” said CWB president Ian White.

Changes to the western Canadian grain marketing system that were implemented in 2012 included provisions for CWB to begin marketing canola and other so-called “non-board” crops in addition to wheat and barley.

The buyer of CWB’s inaugural canola cargo was Zen-Noh, a Japanese agricultural co-operative that has made CWB its preferred supplier of Canadian grain.

Canola contained in the first vessel was a mix of cash purchases from Canadian grain companies and farmers, as well as canola committed to CWB pools.

“We are encouraged by the positive response of valued customers like Zen-Noh,” White said.

“CWB has many marketing advantages, including its long experience with international customers and grain logistics. Farmers who sign CWB contracts

benefit from CWB’s long standing marketing relationships and access to premier markets”.

For the first time in history, Canadian farmers have the opportunity to pool canola as part of their overall marketing and risk-management strategy.

White said CWB has taken a careful approach to marketing canola.

“Our approach in this first year as a player in the canola market has been cautious to ensure our approach to sourcing, shipping and risk management is well-structured to work with a new product,” he said. “The results have been very encouraging.”

White said CWB is committed to canola marketing for the long-term.

The agency continues to evaluate possibilities for expanding its marketing program to include other crops, he added.

Last November, White said farmers could expect an announcement about CWB expanding its marketing programs to include pulse crops.

“There’s no question that that’s something that we’ll be looking at in the future,” he said.

“... We certainly have customers around the world who want pulses ... so we’re certainly very interested in looking at that ...”

CWB officials said Canadian pulse producers could expect an announcement on CWB pulse marketing efforts, possibly in late 2012 or early 2013.



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Managing grain flows

critical in open market

LESS THAN six months into the 2012-13 crop year, grain company executives are painting a generally positive picture of grain movement in western Canada's newly deregulated wheat market.

Prepared for Sask
Seed Guide

According to various sources, total grain movements in the latter half of 2012 met and in some cases exceeded industry expectations.

But elevator companies, farmers and grain exporters are operating on a steep learning curve and various challenges still exist, they said.

For starters, grain companies must do a better job of matching overseas grain sales with pipeline capacity in western Canada.

And farmers must be mindful of delivery bottlenecks that could occur if too much grain is withheld from the market early in the crop year.

"By and large, you'd have to say that ... (grain has) moved very, very well," said CWB president Ian White, addressing a national grain industry symposium in Ottawa in late November.

"You couldn't say it (the transition) was entirely seamless but it was very close to that from a total logistics perspective."

According to White, one of the biggest challenges the industry will face over the next few months is ensuring efficiency in the grain handling pipeline.

"Matching pipeline capacity right throughout the year is going to present all the players with challenges," he said.

"Farmers are going to have to realize that they can't deliver all of their grain just at one time ... and grain companies are going to have to look at how they can offer farmers attractive prices throughout the year"

In general, the industry has done a commendable job of ensuring a consistent and orderly flow of Canadian grain to overseas customers, he said.

But there have been market irregularities, a situation that was not entirely unexpected given the magnitude of the changes that have taken place over the past year.

Len Penner, president of Cargill Canada, said grain shipments during the first three or four months of the 2012-13



Despite significant changes to the grain marketing environment, grain shipments during the first three months of the 2012-13 marketing year were a pleasant surprise. Here, Daniel Nemeth, plant manager at the Richardson Pioneer elevator in Dixon, Sask., fills another grain car with wheat bound for Vancouver. | WILLIAM DEKAY PHOTO

marketing year occurred at a record pace.

"In the first 15 weeks of the crop year starting Aug. 1, (we) moved 14 million tonnes of grain through the system," Penner said.

"That's a record."

But those 14 million tonnes represented roughly 21 percent of the total volume of grain to be moved through the commercial grain handling system in the 2012-13 crop year, he added.

As of mid-November, another 79 percent of the crop had yet to be delivered.

That could result in significant logistical problems, particularly if weather problems significantly disrupt grain movements during the winter months.

Grain deliveries normally slow to a trickle in April, May and June, when farmers are focused on seeding rather than marketing.

In western Canada, managing delivery bottlenecks can be a challenge since much of the prairie crop is stored on farms and requires that the grain be moved by farmers.

"The western Canadian grain handling

system is unlike any other in the world," Penner said.

"We run a pipeline system, whereas the rest of the world tends to run a stockpile system where the grain sits in a commercial space after harvest.

"(In other parts of the world), if sales are made, they are made by drawing down that stockpile. But our pile in Canada sits on the farm."

Penner said western Canada has a world-class commercial grain handling network, most of which was entirely rebuilt during the 1990s.

But commercial storage capacity is never used at full capacity.

That is due partly to the number of crops being handled and the logistics involved in moving large volumes of grain.

"If you start thinking about moving grain from a farm bin to a vessel, that takes (a lot) of planning," he said.

"Managing that stockpile becomes really critical in our ability to meet ... (overseas buyers') requirements going forward." ☞

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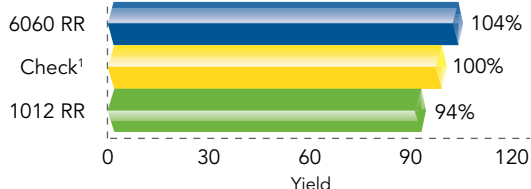
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MONEY TALKS. That's what producer groups are telling Canadian grain companies that would like to see more grain delivered at a more predictable pace into the commercial handling system.

In the past month or so, grain companies have been cautioning farmers that withholding significant volumes of grain could result in logistical bottlenecks and limited delivery opportunities later in the year.

But producers are anticipating solid demand going forward and many think there is reasonable chance of future market rallies, said Cheryl Nagel, a grain farmer from Mossbank, Sask., and past president of the Western Canadian Wheat Growers Association.

In other words, farmers are in a strong position to hold grain.

"By now, most farmers have paid their input bills, they've made their land payments and many ... have pre-purchased the inputs for next year's crop so as a result, the grain that's sitting in the bin is in fairly strong hands," Nagel said recently.

"It doesn't matter if its wheat or barley or canola, the market is going to have to come to the farmer."

During an interview in late November, Nagel said many grain growers expected markets to hold steady or strengthen in late 2012 and early 2013.

As a result, elevator companies hoping to procure more grain could face a challenge unless they

offer monetary incentives.

"We don't see a lot of pressure on farmers to deliver right now and at very least, most of us are expecting the market to pay us for storage," she said.

"There's still a lot of grain in storage ... but if somebody wants it, they're going to have to pull it out and that's either going to be through storage payments or incentives."

According to Nagel, storage incentives would be an effective way for grain companies to secure more tonnage and manage grain inventories more effectively.

But storage payments were rarely offered during the first few months of the 2012-13 crop year.

"Now that farmers have so much more flexibility within our commodities — we can hold back our lentils, we can hold back our chickpeas and we can move our wheat ... (when we want to) — using storage incentives to procure more grain might be a good option for grain companies, and I hope they consider it."

Doug Robertson, president of the Western Barley Growers Association, said farm storage payments are likely to become more common as the industry moves forward.

"Paying for storage is going to be critical ...," he said.

Heading into the 2012-13 crop year, one of

the prevailing questions among grain industry stakeholders was whether grain deliveries off the combine would exceed the industry's ability to handle and ship the grain to port position.

"You're always going to see strong deliveries off the combine ... because farmers have got input bills to pay and usually before February," Robertson said.

"If farmers look down the road ... and they don't see ... a better basis out of the elevator companies for storage, then I think you're going to continue to see a big rush off the combine."

Marlene Caskey, a farmer and director with the Canadian Canola Growers Association, said grain industry efforts to match deliveries with pipeline capacity could be greatly enhanced if storage incentives were introduced.

Cash flow requirements on the farm usually mean that significant volumes of grain will be delivered during the first two or three months of the crop year.

After that, deliveries are likely to become less predictable.

"Storage incentives would be an excellent way to address the problem," Caskey said.

"It could definitely play a part in managing deliveries and keeping that delivery pipeline full."

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Midge tolerant wheat takes root across Sask.

Since their western Canadian debut in 2010, midge tolerant varietal blends have continued to gain favour among Saskatchewan's wheat growers. Blended wheats now account for nearly a third of provincial wheat acres.

THE NUMBER of acres planted to midge tolerant wheat continues to grow across western Canada, suggesting strong uptake by farmers and good performance in the field.

Prepared for Sask
Seed Guide

Todd Hyra, SeCan's business manager for western Canada, estimated that over one third of total Saskatchewan wheat acres were sown to midge tolerant blends in 2012.

That's a significant increase over 2011.

In 2011, midge tolerant blends accounted for roughly 10 percent of total wheat acres, according to data from the Canadian Wheat Board's annual variety survey.

The CWB did not conduct its annual variety survey in 2012 but based on seed sales and other information, Hyra

suggested that uptake of the new varieties continues to grow.

"2012 was our third year on the market and grower acceptance still appears very strong," he said.

"The uptake of existing (midge tolerant) products and interest in the new products is very good."

Data from the CWB's 2011 variety survey suggested that uptake of midge tolerant wheat blends was highest among Saskatchewan wheat producers.

In 2011, AC Unity VB was the second most popular western red spring variety grown in the Saskatchewan, accounting for nearly 14 percent of the province's total CWRS acres.

Only Lillian, a solid-stemmed CWRS variety that is resistant to the wheat stem sawfly, accounted for more wheat

acres. That variety accounted for nearly 28 percent of the province's CWRS plantings in 2011, based on CWB data.

Hyra said there are now a total of nine midge tolerant products on the market, including seven CWRS varieties, one Canada Prairie Spring (CPS) variety and one Canada Western Extra Strong (CWES).

An expert team in charge of protecting and maintaining the midge tolerant technology continues to monitor product uptake, assess the performance of varietal blends and evaluate the performance of producer stewardship agreements as a management tool.

The midge tolerant stewardship team reviewed its overall stewardship strategy last year but did not make any changes to that plan, Hyra added.



Hate
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Prairie wheat growers are turning to midge tolerant wheat for midge control and high yields. And everyone wants this to continue.

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All farmers who grow midge tolerant wheat are still required to sign a stewardship agreement when they acquire seed.

Terms of the stewardship agreements have not changed for 2013.

Stewardship agreements are a key component of the overall strategy for protecting midge tolerant wheat technology.

Maintenance of the refuge component in varietal blends (VBs) is a critical consideration.

Midge tolerant varietal blends consist of two distinct but similar wheat varieties, including one midge tolerant variety and one midge susceptible variety. (For more information on the science behind midge tolerant blends, please see the story on page 20)

In new VBs, the proportion of midge tolerant seeds is approximately 90 percent. Midge susceptible seeds normally account for 10 percent of seeds.

Over time, however, the midge susceptible component is diminished, said Hyra.

If the midge tolerant component becomes too low, the efficacy of the refuge as a method of preserving the trait is reduced and the long-term viability of midge tolerant wheat is jeopardized.

For that reason, stewardship agreements stipulate that farmers limit the use of farm-saved seed to one generation past certified.

After that, new certified seed must be acquired.

The stewardship team felt it was best to keep the terms of stewardship agreements unchanged until more is known about refuge maintenance.

"We were seeing some patterns in the refuge that it was dropping off over time as you go from one generation to the next to the next," said Hyra.

"It's still relatively new technology so it's better to be safe than sorry."

Midge tolerant varieties have enjoyed rapid uptake on the Prairies because the varieties available have good agronomic characteristics and show a distinct yield advantage over non-tolerant varieties, especially in areas with high midge pressure.

Hyra said yields from midge tolerant blends are generally about five percent higher than yields from similar non-midge tolerant varieties.

The economic advantage of using midge tolerant varieties

will vary from year to year depending on midge pressure.

But in most wheat producing areas, there is always a base level of midge pressure that affects overall yield.

Hyra said the midge tolerant stewardship team will take steps this year to ensure that buyers of certified midge tolerant seed understand the terms of their stewardship agreements and are adhering to established protocols.

"This is the first year where we're following up with audits to ensure that they're following the agreement, and to make sure that they still have stewardship plans in place," Hyra said.

A central element of producer stewardship agreements is a clause that prohibits commercial producers from replanting farm saved seed for more than one year.

In other words, producers can plant farm saved seed for a single generation but they must buy new supplies of certified seed after two multiplications.

Stewardship managers monitor the sales of certified midge tolerant wheat seed.

Each time a producer buys certified midge tolerant wheat seed, his name is entered in a database.

Irregularities in buying patterns on the database could be an indication that growers are not following their stewardship obligations.

Hyra said the database is not only used to identify potential violators but also to promote the technology and educate growers about the importance of protecting the technology.

"We just want to make sure that everybody is (clear on) what they have signed and is adhering to the protocols, all in protection of the (technology)."



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BIG LOSSES COME IN SMALL PACKAGES

THE ORANGE blossom wheat midge might be difficult to see but the economic losses it causes are hard to ignore.

In 2006, the tiny six-legged fly, which measures three millimetres from front to rear, cost western Canada's wheat farmers an estimated \$40 million.

Midge damage occurs when midge larvae feed on developing wheat kernels. Affected kernels are shrunken and deformed, leading to reduced yields and grade related losses.

Actual yield losses are difficult to estimate.

When kernels are severely affected, up to 50 percent of the crop can be blown out the back of the combine during harvest, meaning producers are oblivious to the full extent of the damage.

Work on developing midge tolerant wheat varieties began in 1996 when genetic resistance to the midge was detected in some soft winter wheat varieties.

By 2002, scientists had isolated the gene that confers resistance. That gene is known as Sm1.

By 2010, the first midge tolerant varietal blends of certified CWRS wheat seed were being planted by Western Canadian grain producers.

When the midge begins to feed on midge tolerant seed, the Sm1 gene causes naturally occurring organic acids in wheat kernels to rise more quickly than they would in plants that do not contain the Sm1 gene.

The higher acid levels cause the midge larvae to stop feeding, eventually resulting in starvation.

Basing tolerance on a single gene is a precarious strategy.

To preserve the efficacy of the Sm1 gene, plant breeders employed a strategy known as an interspersed refuge system.

To prolong tolerance, the wheat seeds that contain the Sm1 gene are sold as part of a varietal blend or VB, which contains roughly 90 percent midge tolerant seeds and 10 percent midge susceptible seeds. Midge susceptible seeds are known as the refuge variety.

If the midge-tolerant or Sm1 seeds were grown in a pure stand without a refuge variety, the vast majority of midge would perish but a small number of naturally occurring virulent or resistant midge would survive.

The surviving midge population would mate, multiply and eventually build up a large virulent population.

But in varietal blends containing midge tolerant and midge susceptible seeds, a small number of non-virulent midge — those that feed on the refuge — would also survive.

The survival of both virulent and non-virulent midge would result in mating between virulent and non-virulent insect types and the offspring will be non-virulent.

By employing this strategy, the life of the midge tolerant Sm1 gene can be extended from roughly a decade to more than 90 years, say scientists who helped develop midge tolerant varieties.

The key to the strategy is to ensure that refuge varieties in the varietal blends are maintained within an acceptable range.

To protect the midge tolerant technology, the seed industry drafted a unique stewardship agreement that must be honoured by all commercial growers who buy the seed.

Farmers who buy midge tolerant wheat seed from a pedigreed seed producer are required to sign a midge tolerant wheat stewardship agreement.

By signing the agreement, producers agree to limit the use of farm-saved seed to one generation past certified.

A database is used to monitor sales of certified midge tolerant seed.

Irregularities in buying patterns are automatically flagged and follow up work may occur to ensure that producers are honouring the terms of their stewardship agreements.

Producers who plant farm saved seed for more one generation may be subject to fines or other disciplinary action.

Stewardship provisions also allow for random and targeted audits.

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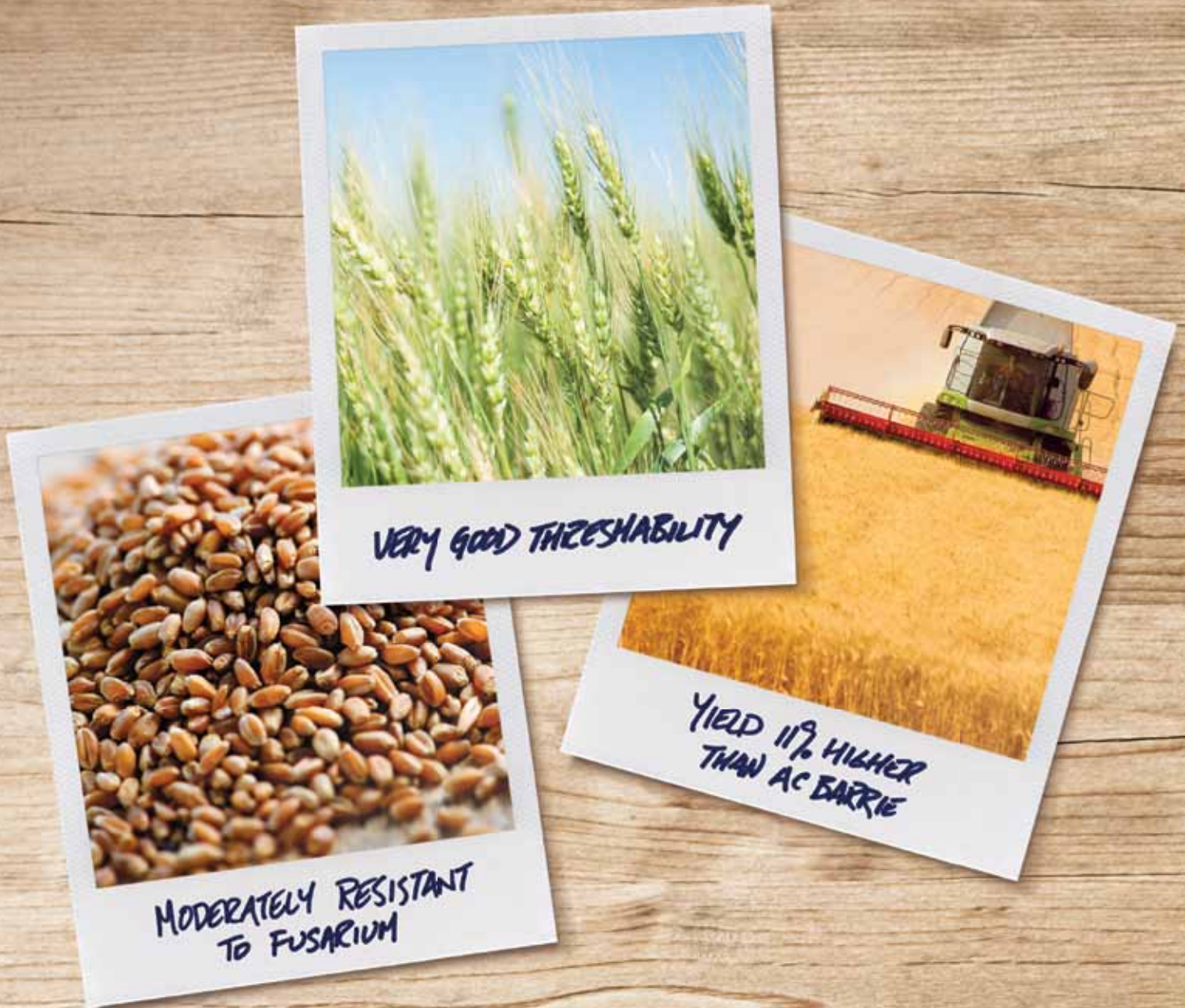


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Investments in wheat still lagging, says industry

**Farmers are taking steps to increase their investments in cereal breeding.
Are governments and the private sector following suit?**

STAKEHOLDERS IN the Canadian grain industry are agreed on one thing: more investment is needed to support plant research and cereal breeding initiatives.

Prepared for Sask
Seed Guide

But there are lingering questions about where that investment will come from, when it will become available and how much additional funding will be needed to ensure that all players in the Canadian industry remain relevant and profitable.

“If we’re talking about problems with agricultural innovations and crop research (in Canada), by far the elephant in the room is the lack of investment,” said Richard Gray, a professor of agricultural economics at the University of Saskatchewan in Saskatoon.

“Investment is the No. 1 problem.”

“Adding 10 to 20 percent to our research is not going to get us there,” he added. “We have to add 300 percent to... where we are now, for example, in the wheat sector, to get us where we should be going.”

At a recent grain industry conference in Ottawa, stakeholders from all areas of the wheat value chain acknowledged that more investment is needed to ensure a viable industry.

But they also said a variety of obstacles are discouraging investment, ranging from restrictive regulatory systems to outdated intellectual property regimes, poorly funded producer support mechanisms and fiscal restraint on behalf of governments.

According to Gray, the three main sources of research funding — government, producers and private sector companies — all have a role to play in ensuring a healthy industry.

He said Canada should take a balanced approach to funding to cereal breeding and research activities, with all three partners making predictable investments.

Among other things, the industry needs:

- a commitment from government to maintain public research funding at a



Industry groups say funding for wheat research must be increased. Recent discussions have stressed the need for more investment by producers, governments and private sector companies. But stable and predictable government funding, at least at the federal level, is no longer guaranteed. Private sector companies say regulatory restrictions and outdated intellectual property regimes are discouraging investment. | FILE PHOTO

relevant and predictable level;

- improvements to existing intellectual property rights systems aimed at attracting private sector investment and;
- updated producer funding mechanisms that will ensure a higher level of farmer investment in plant breeding and research activities.

Alberta, Saskatchewan and Manitoba are already in the process of establishing provincial wheat and barley commissions that are expected to significantly increase the amount of money that primary producers are investing in wheat and barley research.

In Alberta alone, a refundable producer levy of \$0.70 per tonne on wheat is expected to generate more than \$5 million per year.

If a similar levy is introduced in Saskatchewan, it would generate roughly \$7.5 million per year in additional farmer

funding, over and above what is already collected through existing levies.

The Saskatchewan wheat commission, still in its formative stages, is expected to be up and running by August of 2013, just months before the closure of Agriculture Canada’s Cereal Research Centre in Winnipeg.

That facility — involved in wheat and oat breeding — has been around since 1925. Its closure is viewed by many as a sign that Ottawa intends to play a diminished role in downstream plant breeding activities. (For a story on Saskatchewan’s investment in wheat research, see page 28)

Marcus Weidler, global crop manager of cereals with Bayer CropScience, said private sector companies like his own are also eager to see greater investment in cereal breeding, both in Canada and throughout the world.

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Speaking in Ottawa, Weidler said the annual yield increase in wheat has flattened over the past two decades and is now well below that of other major crops such as corn and soybeans.

According to Weidler, global yield increases for wheat are estimated at 0.6 to 0.7 percent annually.

That is well below global population growth, which is estimated at 1.2 to 1.4 percent annually.

Failure to address this deficit, combined with unknown production threats linked to global climate change, will result in global grain shortages, he said.

"Wheat, unlike soybeans and unlike corn, is very sensitive to increased temperatures and also to weather extremes," Weidler said.

"Corn (like wheat) today is grown in areas where it was never grown before ... but nevertheless, unlike wheat, we have observed significant and constant yield increases in corn and also an increase in yield stability (in corn) over the last decades."

"What's the reason for this? It's very simple. It's the level of investment."

Weidler said global investments in

corn research and varietal development are currently 25 times greater than global investments in wheat research.

Unlike corn, wheat is low value, low investment market.

That is be particularly worrisome for Canadian growers, who grow wheat on millions of acres of farmland each year and are highly dependent on wheat exports, he added.

As it stands, Canadian wheat productivity on a per hectare basis is among the lowest of all major wheat producing nations.

Canadian production costs, meanwhile, are considerably higher than those in the Black Sea region, especially in countries such as Ukraine and Kazakhstan.

Black Sea nations represent a significant threat to Canada's position as a producer and exporter of wheat, Weidler added.

"The Black Sea region itself is still suffering from political and legal instability ... and also from problems in the infrastructure so that's something that is preventing them from exploiting the huge potential which they have," he said.

"But if they overcome these issues, they will be able to provide the world

market with huge amounts of wheat and they will also try to catch up on quality."

Greg Meredith, assistant deputy minister in Agriculture Canada's strategic policy branch, said additional investment will be needed to ensure that Canada maintains its competitive position in global wheat markets.

"When you look at Ukraine, and you look at Kazakhstan, we've got new competitors on the horizon," he said.

"And (when) you look at Australia, which is out-investing us by 4 to 1 (in wheat), that's scary."

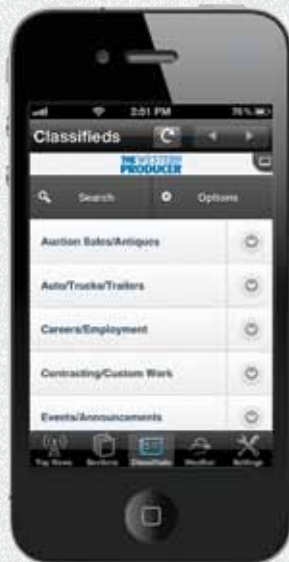
According to Weidler, private corporations like Bayer would be more inclined to invest in wheat research if the investment and regulatory climates were liberalized.

That message is getting through to Canadian politicians.

Both Meredith and Penny McCall, an official with Saskatchewan Agriculture's crop branch, said Canada's wheat industry would be in a better position to attract private sector investment if regulatory regimes were relaxed and intellectual property rights were strengthened.

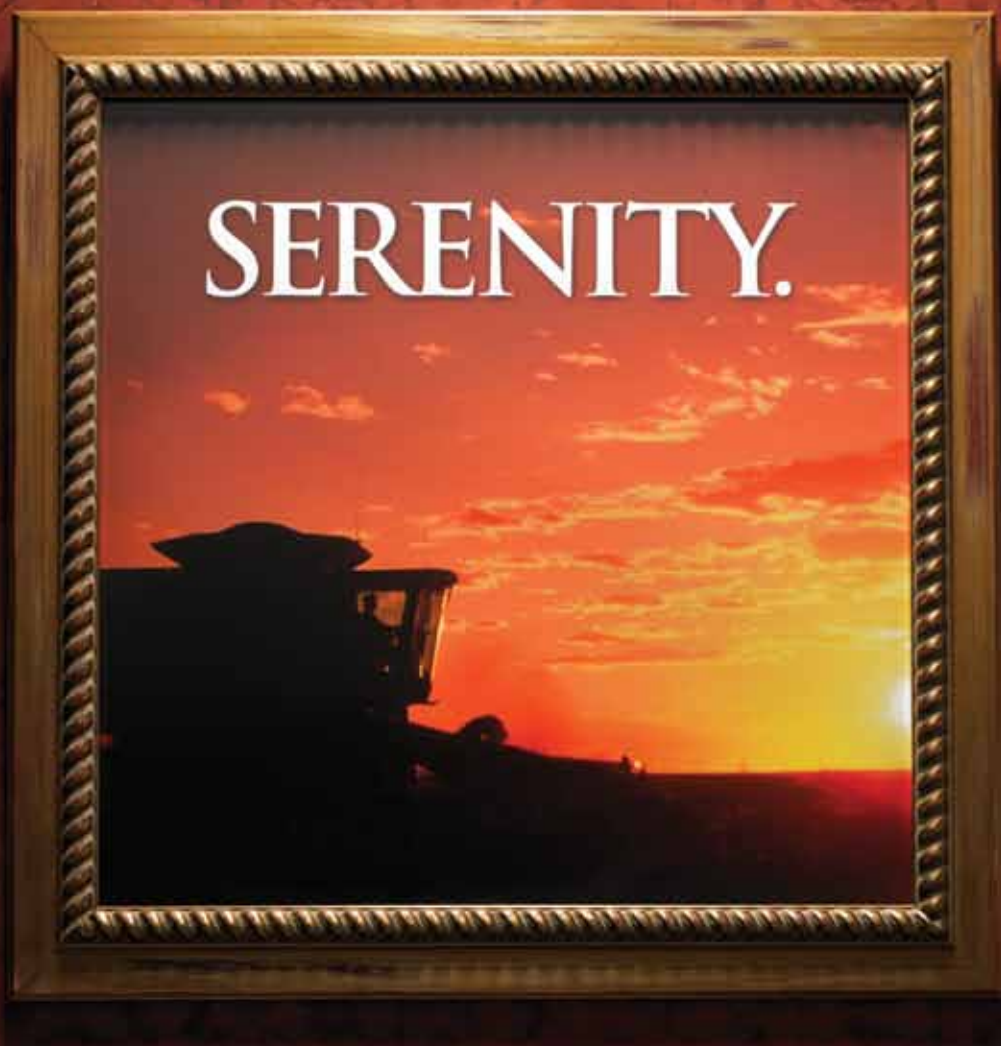
"The regulatory system, when it comes to wheat, is a global challenge," said Weidler. ☞

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GOVERNMENT PROGRAM WILL BENEFIT SASK. GROWERS

The Saskatchewan government is putting up \$10 million to boost wheat production and encourage research partnerships between the public and private sectors.

A **PROVINCIAL** initiative aimed at attracting private-sector investment in wheat breeding and research will benefit Saskatchewan farmers and the province's economy, says an official with Saskatchewan Agriculture.

Penny McCall, plant industry manager with Saskatchewan Agriculture's crops branch, said the province has received eight research proposals from private sector researchers who are competing for a share of \$5 million in government funding.

The province announced in February 2012 that it would spend an additional \$10 million over five years on wheat research.

Half of that money was to be distributed through the Agriculture Development Fund, or ADF, to private sector researchers that partner with publicly-funded institutions involved in wheat research.

Successful proposals must have a public-private partnership component with 50 percent of total project funding coming from the private-sector partner.

Winning proposals were expected to be announced in mid-December, after Sask Seed Guide's publication deadline.

The ad-hoc funding was intended to attract private investment in wheat research and pave the way for more collaboration between public and private researchers, McCall said.

"Everyone was talking about wheat and the need for (more research) so we wanted to take a leadership role ...," she said.

"We know that there are challenges to

genetic improvements and investments in wheat but ... (the) opportunities are ... there," she added.

"Let's recognize (the challenges) and then let's look at those opportunities and move forward."

Provincial funding for public-private wheat research was part of a larger government commitment aimed at ensuring a healthy and viable Saskatchewan wheat industry.

Wheat, including durum, accounts for roughly 40 percent of the province's total seeded acreage each year and has an farmgate value of \$2.5 billion annually. Despite that, returns from wheat over the past decade or more have been

The province announced in February 2012 that it would spend an additional \$10 million over five years on wheat research.

lagging," McCall said.

Wheat is still planted on millions of acres each spring but many growers see it as a rotational crop, not a money maker.

"Wheat is still a very important crop for us," said McCall.

"It is certainly significant but again, it's not stacking up to some of our other crops."

"We recognize that wheat really has become that rotational crop and that's because ... there's not that return on investment. The

margins are poor and when we start tightening rotations, we don't just hurt wheat, we potentially hurt our other crops as well because it puts more pressure on them in terms of disease and insect pressures."

To emphasize the importance of wheat to the province's economy, the Saskatchewan government held a wheat summit in Saskatoon last February.

The need for greater investment was a major theme at that event, as was the importance of public-private partnerships.

In addition to the \$5 million ADF program, the province has also joined the Canadian Wheat Flagship Strategic Alliance, a National Research Council project with various partners including Agriculture Canada and the University of Saskatchewan.

Last October, the provincial government announced a new strategy aimed at increasing crop production and boosting the value of Saskatchewan's agricultural exports.

According to that plan, the province would like to see total crop production increase by 10 million tonnes over the next eight years and the value of the province's agricultural exports grow to \$15 billion.

Achieving those goals will require additional research investments in key agricultural crops such as wheat.

"Really what (researchers) are focused on is breaking that yield barrier for wheat and also developing varieties with better abiotic and biotic stress tolerances," McCall said.

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Cereal commissions

taking shape in Sask.

SASKATCHEWAN'S CEREAL grain producers could soon see

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fundamental changes to the way wheat and barley levies are collected in the province.

Those changes could also mean a significant increase in the amount of money that is collected annually through producer checkoffs.

Saskatchewan agriculture minister Lyle Stewart announced last October that two interim committees have been formed to oversee the creation of permanent wheat and barley commissions in the province.

The commissions are expected to be up and running by August 2013.

Once they are established, the commissions will have the authority to set and administer provincial levies on all wheat and barley grown in the province.

The interim committees will act as temporary boards of directors for the proposed commissions, at least until formal director elections are held in late 2013 or early 2014.

Wheat growers Gerrid Gust, David Marit, Norm Hall, Joan Heath and Cheryl Nagel were named to the interim wheat committee.

Bill Cooper, Bill Copeland, Todd Lewis, Tom Hewson and Dennis Fuglerud will sit on the barley committee.

In a November interview, Stewart said the interim committees consist of "industry leaders" who were chosen after consultations with a variety of stakeholder groups and farm organizations.

The timelines to establish the commissions are tight but manageable, he added.

"It is a bit (ambitious) but I believe it can be done and I think the folks on these committees think they can get the work done in that time," he said.

Wheat and barley commissions are expected to be up and running by August 2013.

Saskatchewan (APAS), said the biggest decisions facing the interim committees will be related to budgets, levy rates and commission governance.

"There's two huge steps that have to take place and one is pertaining to the budgets," Hall said last year.

"Where are the levies going to be set? Are they going to be the same as they are now? Are they going to be double? Or are they going to be a little more?"

The committees will also decide how much of the money collected through producer levies will be allocated to research as opposed to promotion and administration.

The establishment of provincial wheat and barley commissions is expected to pave the way for a new research funding model that will see grain growers pay for a larger share of Western Canada's overall cereal research budget.

Similar commissions have already been established in Alberta. Manitoba is looking at a similar model.

A mandatory but refundable levy of \$0.48 per tonne on wheat and \$0.56 per tonne on barley is already being collected on all wheat and barley sold in Saskatchewan, with the exception of domestic feed.

Those levies — traditionally administered by the Canadian Wheat Board — are required under federal law and are intended to ensure stable funding for the Western Grains Research Foundation, the Canadian International Grains Institute and the Canadian Malting Barley Technical Centre.

The federal levies are currently being collected by the Alberta Barley Commission on behalf of Saskatchewan farmers and are unlikely to change any time soon, Stewart said.

However, Saskatchewan's commissions would have the authority to establish an additional levy on all sales of wheat and barley within the province.

Alberta's provincial wheat commission, established last year, is currently charging an additional levy of \$0.70 cents per tonne on all wheat sold in that province.

With federal levies added, Alberta wheat growers now pay a combined checkoff of \$1.18 on every tonne of wheat they sell.

Hall said it is still too early to speculate on how much Saskatchewan wheat and barley growers will be asked to contribute to cereal research after August, 2013.

If Saskatchewan followed Alberta's lead and established a provincial levy of \$0.70 per tonne on wheat, the provincial levy would generate roughly \$8 million per year, over and above existing federal rates.

It is critical that decisions made by the interim committees have the support of the province's cereal growers, Hall added.

"We have to demonstrate to the province that there is support for this," he said.

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Flushing the flax pipeline

It's been more than three years since traces of the genetically modified flax variety CDC Triffid disrupted Canadian flax exports to Europe. Now, the industry is hoping to flush the troublesome variety out of the system for good.

THE CANADIAN flax industry is hoping to rid the country's commercial flax supply of the last troublesome traces of CDC Triffid, a genetically modified flax variety that disrupted Canadian flax exports to Europe when it showed up in bulk shipments in 2009.

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Linda Braun, executive director of the Saskatchewan Flax Development Commission, says the Reconstituted Flax Seed Program is moving forward.

In an interview with the Sask Seed Guide in early December, Braun said a committee comprised of flax industry stakeholders is optimistic that the final traces of CDC Triffid can be eliminated from both commercial and pedigreed flax seed inventories by early 2014.

The committee was scheduled to roll out details of the program at Flax Day 2013, an event planned for Jan. 7 and held in conjunction with Saskatchewan Crop Production Week in Saskatoon.

Success of the program hinges on two critical factors.

First, commercial flax growers will be encouraged to market before early 2014 all stocks of commercial flax seed produced prior to the 2013 growing season.

In addition, seed growers holding CDC pedigreed flax seed will deliver those stocks into the commercial grain handling system.

Second, farmers throughout Canada will be encouraged to plant certified seed, including reconstituted pedigreed flax seed that will be available for 2014 planting.

Together, the two measures will effectively flush all remaining traces of CDC Triffid out of the Canadian flax pipeline and will ensure that all new production is derived from GM-free seed.

"To successfully remove Triffid from Canadian flax production, it is



By late 2013 or early 2014, flax growers will have access to certified seed from four varieties of reconstituted flax. Those varieties — CDC Bethune 14, CDC Sorrel 14, CDC Sanctuary and CDC Glas — will be 100 percent Triffid free. | FILE PHOTO

recommended that (farmers) utilize a rejuvenated seed supply and clean out all pre-2013 flax inventories from (their) farms," Braun said.

"We've done the Triffid testing program and we're continuing with that but we can't get to zero unless we start with zero Triffid in the planting seed."

A central component of the Triffid elimination plan involves an ambitious effort to reconstitute all breeder seed from selected flax varieties developed at the University of Saskatchewan's Crop Development Centre (CDC).

Led by flax breeder Helen Booker, the CDC has reconstituted four CDC flax varieties to ensure that all breeder seed from those varieties contains no traces of Triffid.

The reconstituted varieties are CDC Bethune 14, CDC Sorrel 14, CDC Sanctuary and CDC Glas.

Certified seed from those varieties will be available in time for spring 2014 planting.

According to Booker, the CDC began the reconstitution process by identifying roughly 150 plants from each of the four selected CDC varieties.

Each plant was tested for the Triffid construct to ensure that the seed

produced would be 100 percent Triffid-free.

From there, the seed was sent to a secure nursery in New Zealand where it was grown out, harvested and packaged for a return trip to Canada.

The seed was retested to ensure purity and replanted at a SeCan approved site near Laura, Sask., using enhanced seed multiplication protocols.

The subsequent harvest was tested again and returned to New Zealand for another generation of production.

Eventually, 40,000 kilograms of breeder seed was distributed through SeCan's western Canadian network of pedigreed seed growers.

That seed will be multiplied by SeCan members again in 2013 using advanced protocols.

Booker said additional CDC varieties — including Vimy — will also be reconstituted but certified seed from those varieties may not be available until 2015 or later.

New CDC flax lines that have yet to be supported for registration have also been verified as Triffid free, meaning additional CDC lines will be coming onto the market in the future.



BRAUN

CONTINUED ON PAGE 32

Efforts to flush the flax pipeline of Triffid have raised a variety of questions about the cost to commercial producers, the availability of certified flax seed and the market impact of selling the commercial flax inventory.

Both Braun and SeCan's western Canadian business manager Todd Hyra said the industry is confident that there will be enough Triffid-free certified flax seed to plant more than one million acres in the spring of 2014.

In 2012, Canadian farmers planted roughly one million acres.

Marketing of the pre-2013 flax inventory is not expected to cause any major market disruptions, added Will

Hill, president of the Flax Council of Canada.

"Carryovers are at historically low levels and market indications certainly (suggest) the market could absorb those stocks," Hill said.

"So we don't anticipate an impact on prices."

Farmers with pre-2013 flax inventories are advised to sell their oldest flax inventories first and are strongly urged to segregate any flax grown with new certified seed.

Planting the entire 2014 flax crop with certified seed will increase the cost of production for commercial flax growers.

But Braun said farmers have supported both the Triffid testing program and the reconstituted flax seed

initiative.

"I think farmers realize that if we don't do this, we may never get some of those markets back," she said.

"As well, it is also a common practice for farmers to revitalize their seed supply on a regular basis."

Industry estimates suggest that roughly 80 percent of Canada's total flax acres are planted to CDC varieties.

Certified flax varieties from Agriculture and Agri-Food Canada have been tested extensively and are believed to be free of Triffid, Braun added.

"If a farmer uses something other than a CDC variety, they can be confident that the certified seed of (those) varieties has been tested and found to be negative." ☞

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Soil, not seed, poses main clubroot risk

Saskatchewan continues to promote proper rotations and good sanitation as the key to containing the clubroot threat.

IT IS POSSIBLE for the clubroot pathogen to be transmitted by canola seeds but officials steering Saskatchewan's clubroot management plan say the threat isn't significant.

Prepared for Sask
Seed Guide

Their message to Saskatchewan producers is unchanged from previous years: Clubroot is coming and it will probably arrive in soil carried across provincial borders on farm machinery.

"I would say that seed borne clubroot can be a risk if you're buying common untreated seed harvested from clubroot infested fields," said Pat Flaten, research manager for the Saskatchewan Canola Development Commission.

"However, buying cleaned and treated seed from those same fields will reduce it to very close to zero."

Since first appearing in western Canada in 2003, clubroot has appeared in hundreds of fields across Alberta, forcing some farmers to reduce canola plantings or remove the crop from their rotations for several years.

The long-living disease develops galls on the plant's roots, restricting the flow of water and nutrients in the plant and cutting into yields.

Although the disease is more common in Alberta, the clubroot pathogen has been identified in soil samples taken from Saskatchewan.

In response to the threat, Saskatchewan has developed a provincial clubroot management plan aimed at educating farmers, resource companies and others about the threats posed by the disease as well as steps that can be taken to prevent its transmission to new areas.

Details of the plan, including best management practices designed to reduce the threat, can be viewed online at www.agriculture.gov.sk.ca/clubroot-management-plan.

Concerns have been raised about the possibility of transmitting the disease through seed but producers should be more wary of practices that carry infected soil from one region to another.

"Clubroot is primarily a soil borne disease," said Sean Miller,

provincial plant disease specialist with Saskatchewan's ministry of agriculture.

"It doesn't infect seed, but it can be found in soil attached to the seed or other plant parts."

Low levels of the disease have been identified in three Saskatchewan sites, including two at a Cargill nursery in north-central Saskatchewan in 2011.

Although 2012 surveying found no cases in this province, work in Alberta has identified the disease in several more counties.

The findings show the disease spreading along the Yellowhead Highway.

"You can easily knock off 100 pounds of soil from a dirty tractor, right? That's where the major amount of inoculum would be from. In those highly, severely infested fields, we look at about a million spores per gram of soil," said Gary Peng, research scientist with Agriculture and Agri-Food Canada.

"If you carry only 10 pounds of soil, that would be sufficient to get something started in your field."

The introduction of clubroot resistant varieties from Dekalb, Pioneer and Monsanto over the last five years has provided farmers in affected areas with new tools to combat the disease, although that resistance will erode with repeated plantings.

"We have identified some new resistance sources, so we're trying to move this into the germplasm for the future, because we know the current resistance cultivars may not last forever," said Peng.

"... Right now, we have some resistant cultivars and we will have new resistant cultivars that will be developed and if we practice rotations, we will be able to manage this disease fairly effectively."

With no seed treatments, fungicides or effective and practical biological controls for the disease, producers are advised to thoroughly clean equipment and tires when moving between fields and stick to rotations.

A one-in-four rotation between clubroot susceptible crops is

recommended by industry, although officials contacted by Sask Seed Guide said even a three-year rotation offers improvements over common canola-wheat plans.

"I know this is a very hard message to sell," said Peng, adding that shortened rotations also increase the risk of blackleg infection.

"Often we're asked the question about why can't we do canola here as people grow corn in middle west, (where they grow a) corn-soybean rotation for many years."

Producers should weigh the short- and long-term economic and biological risks of shortening rotations, said Flaten.

"If I have a crash, I may be forced out of canola for a while and that has to be balanced off," she said.

"Producers, I think, are aware of the risks and it's good to keep reminding producers of that, just so that's in the factor mix that they're thinking about."

Best Practices for Prevention and Management

- Plant susceptible crops, including clubroot resistant canola varieties, no more than once every four years.
- Scout crops regularly and carefully.
- Practice good sanitation by restricting movement of potentially contaminated soil to non-contaminated regions.
- Clubroot spores may survive livestock digestion. Avoid use of straw, hay, greenfeed, silage and manure from infected or suspect areas.
- The risk of spreading clubroot through contaminated seed or plant material is much less than through transporting contaminated soil on field equipment and vehicles. However, avoid seed with earth tag from infested areas to prevent introduction to clean fields.
- Read more about the province's clubroot management plan at www.agriculture.gov.sk.ca/clubroot-management-plan. ☞



January 2013

To our valued customers,

Meridian is pleased to announce our merger with Sakundiak and Behlen, sister companies to Meridian under our parent company WGI Westman Group Inc. Effective January 1, 2013, all Behlen, Sakundiak and Meridian agriculture products will be marketed and sold under the Meridian brand.

Behlen agriculture products offer a diverse product line of galvanized hopper bins and cost effective on-farm building solutions. Sakundiak compliments this product line with large flat bottom galvanized bins and industry leading grain augers.

The Meridian brand has become synonymous with excellence and customer satisfaction, and we continue to grow in both geographic reach as well as product offering. Our commitment to our customers is second to none, hence our pursuit of new technologies and innovations to meet customer needs.

We are pleased to tell you that the Meridian agricultural products now include: smooth-wall hopper bins, galvanized hopper and flat bottom bins, aeration, grain rings, bulk seed tenders, grain augers, auger movers, conveyors, arch-wall and on-farm buildings, fuel tanks and custom built hopper bins.

To better meet your on-farm storage and handling needs, we bring together these innovative products under one strong, trusted brand – MERIDIAN.

Behlen, Sakundiak and Meridian pride themselves on commitment to the highest quality and customer service that is unmatched in the industry; this will continue to be our key mandate. Our customers will continue to receive the same quality product and service they have come to expect from Meridian.

We look forward to serving you in the future and encourage you to visit your local dealer to learn more about Meridian's Storage and Handling products. Or visit our website at www.meridianmfg.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Glenn Friesen".

Glenn Friesen
Senior Vice President, Sales and Marketing
Meridian Manufacturing Group

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EQUIPMENT

1947

Sakundiak opens its first plant to manufacture disc harrows in Saskatchewan. The first plant employed only 3 employees building disc harrows. Production soon changed to grain augers, and the first auger manufactured was only 24' long with a 6" diameter

BEHLEN
INDUSTRIES

1969

Behlen releases their pre-engineered steel building systems. Behlen's steel building systems division would soon become the largest in Canada

1974

Sakundiak's auger division moves to a new, larger location outside Regina, Saskatchewan. The added floor space helped meet the demand for increasingly larger augers



1979

Wheatland Bins opens in Lethbridge, Alberta

1965

Friesen launches its first, all-welded, smooth-wall steel hopper bin. The Friesen Bin soon became the preferred alternative to corrugated galvanized storage for seed, feed and fertilizer. Additional manufacturing space was soon added to meet the growing demand



1965

Sakundiak develops an auger with a self-leveling motor mount. The product is eventually patented for this unique feature



1977

Behlen launches their line of flat floor, galvanized grain silos. This style of silo has come to be depended upon by farmers world-wide

1984

Wheatland opens an additional sales office in Camrose, Alberta

1997

Wheatland builds a new and expanded manufacturing plant and sales office in Camrose, Alberta.

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1977 Meridian establishes a large manufacturing facility in Winkler MB.

1989 The Friesen family launches a facility in Storm Lake, Iowa. Their innovations with Seed Tenders revolutionized planting in the corn and soybean belt.

1998 Meridian's Lethbridge location designs and builds the world's first large scale powder bake oven.

2002 Westman Group Inc purchases Meridian industries (Winkler, MB) and Wheatland bins (Camrose and Lethbridge, AB).

2003 WGI and Meridian received Platinum Status as one of Canada's 50 Best Managed Companies.

2004 WGI completes the bin company acquisition with the purchase of Friesen USA in Storm Lake Iowa.

2007 Wheatland, Meridian and Friesen USA come together and become known as Meridian Manufacturing Group.

2008 Meridian unifies their product line across North America under the Meridian brand bringing together Friesen, Wheatland, Stor King, Grain Max and Friesen USA.

2009 WGI purchases Sakundiak Equipment – Regina based manufacturer of grain augers and galvanized grain bins.

2011 WGI purchases Hawes Agro – Saskatoon based auger mover manufacturer and auger engine accessory supplier.

2011 Sakundiak opens its 67,000 sq ft plant expansion incorporating powder paint technology and a new state of the art flighting mill.

2011 Meridian launches Meridian AirMax aeration.

2012 Meridian launches their line of belt conveyors to the North American market.

January 2013 Behlen and Sakundiak Agricultural products are merged with and sold under the Meridian Brand.

January 2013 Meridian Manufacturing Group has over 600,000 square feet of production space and over 1000 employees with the merger.



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Industry ponders changes to variety registration

The Canadian Wheat Board has been overhauled. The Canadian Grain Commission is in the midst of massive change. Is Canada's variety registration system next in line?

THE ELIMINATION

Prepared for Sask
Seed Guide

of single-desk grain marketing in the West has raised a lot of questions about the regulatory environment that has helped to shape the Canadian grain industry over the past 100 years or so.

With the Canadian Wheat Board monopoly gone and the new voluntary CWB now in its place, the grain industry has arrived at a pivotal point in its history.

Stakeholders in the grain supply chain — including farmers, researchers, plant breeders, grain companies, exporters, millers, overseas buyers and regulators — are taking a broad look at the industry and are beginning to contemplate whether other long-standing institutions should also be revamped and modernized to better reflect the interests of a rapidly changing industry.

In addition to the Canadian Wheat Board, the Canadian Grain Commission is in the midst of a massive overhaul. (See related story on page 58).

Western Canada's variety registration process has also been identified as a possible candidate for review and renovation.

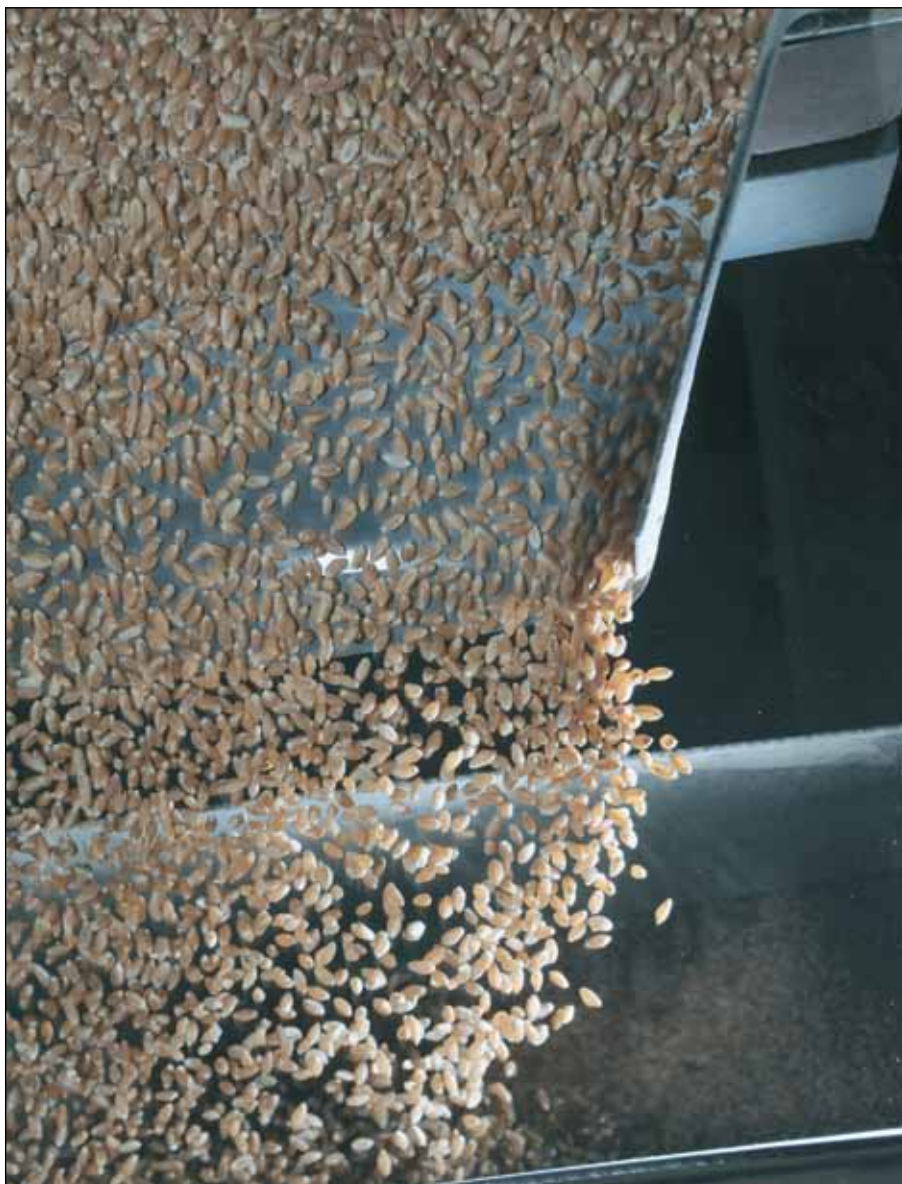
Mike Scheffel, registrar of crop varieties with the Canadian Food Inspection Agency, says western Canada's variety registration system has served the grain industry well since it was introduced 90 years ago.

But some industry stakeholders are beginning to wonder if the system is too restrictive.

"The variety registration system is, if you like, a gatekeeper for market entry (of new seed varieties)," said Scheffel, who spoke in Ottawa at a recent grain industry symposium.

"Perhaps the major mandate of variety registration is to confirm varietal identity and performance claims to prevent market deception," he added.

"That was the original purpose back in 1923 when variety registration was introduced into Canada. It was really about giving official recognition to the identity of new varieties that were coming onto the market."



While some in the wheat industry see Canada's variety registration system as an obstacle to investment, others say it offers a significant degree of flexibility and is perfectly capable of accommodating the industry's changing needs. Substantial amendments were made to the system in 2009. | FILE PHOTO

In Western Canada, recent amendments to the Seeds Regulations have helped to create a variety registration that offers more flexibility, Scheffel said.

In 2009, the variety registration system adopted a three-tiered registration process that applies to 52 different crop types grown in Canada.

Tier 1 registration — the most restrictive — applies to some of Western Canada's most widely grown crops, including wheat, barley, oats, pulses and flax.

Among other things, Tier 1 registration requires that:

- new lines go through at least two years of pre-registration testing.

TRIED AND TESTED VARIETIES ATTRACT AND KEEP CUSTOMERS

By Elwin Hermanson,
Chief commissioner
Canadian Grain Commission



CUSTOMERS OF Canadian wheat often tell me how much they appreciate the quality and consistency of Canadian wheat.

The variety registration system for western Canada balances producers' and customers' needs by involving experts in agronomy, disease and quality.

Canadian Grain Commission experts evaluate the end-use quality of new lines.

We also sit on the Prairie Recommending Committee for Wheat, Rye and Triticale, which recommends varieties for registration to the Variety Registration Office of the Canadian Food Inspection Agency. The CFIA is responsible for the system.

End-use quality refers to two things: how grain performs during processing — for example, how much flour is produced during milling — and the quality of the end product — for example, the texture of cooked pasta.

Why does end-use quality matter? A bakery producing thousands of loaves of bread a day can manage its operations more efficiently and produce a consistent-quality product if it knows that the mixing time for the flour it has purchased will not change from batch to batch.

How does the variety registration system make this happen?

First, there are eight classes of milling wheat in western Canada, each with a quality model for end-use.

A quality model includes parameters that need to be met for registration. These parameters are based on input from millers, baking companies, exporters, marketers and plant breeders.

Second, new milling wheat lines are grown in co-operative trials across the Prairies.

Over three years, lines are evaluated for quality, as well as for agronomic performance and disease resistance.

The CGC's Grain Research Laboratory performs quality testing on these lines, using the same methods each year.

Tests assess factors such as flour yield and protein content.

Bread is evaluated for qualities such as loaf volume and crumb structure.

Finally, the Prairie Recommending Committee's quality evaluation teams review each new line's results.

A new line must meet its class's quality parameters and perform as well or better than existing varieties.

Using results from the quality, disease and agronomic teams, committee members representing producers, plant breeders, researchers, grain handlers, exporters, processors and end-users, vote on recommending the new line for registration.

The variety registration system responds to changing quality and safety requirements.

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The wheat that was treated with Awaken ST was the most consistent and even wheat crop that we have ever produced on this field. We plan to treat all of our wheat with Awaken ST in 2013.

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Tim Pizzey
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Pre-registration tests, also known as co-op trials, are conducted across the West using established protocols and are subject to official oversight;

- new lines proposed for registration must be assessed on merit, meaning agronomic performance, disease resistance and grain quality must be examined and compared with other varieties that have already been registered;

- new lines must be supported for registration by a regional recommending committee. In the West, those committees consist of plant breeders, plant pathologists, end-users, grain marketers, regulatory experts, producers and a variety of other grain industry stakeholders.

A key component of Tier 1 registration is pre-registration testing.

Pre-registration tests are conducted at co-operative trial sites throughout the Prairies and are used to gauge the performance of new lines across a wide variety of growing conditions.

Ultimately, all new lines seeking Tier 1 registration are judged on merit, meaning they must meet or exceed the agronomic, disease and grain quality thresholds established by existing varieties.

As they do in all crops, merit requirements in wheat constitute an extremely high performance standard.

Merit assessments ensure that all new wheat varieties registered for commercial production in Western Canada are as good or better than varieties that have already been registered, or that they offer improved

IMPROVING OUR VARIETY REGISTRATION SYSTEM

By Kenton Possberg,
Saskatchewan
vice-president
Western Canadian Wheat
Growers Association



WESTERN

CANADA'S variety registration system

has served us well in terms of giving us high-quality bread wheat varieties. However, it has not served us particularly well in boosting yields.

For spring wheat, the average annual rate of yield gain in western Canada has been about one-third of a bushel per acre per year. That's the lowest rate of yield gain among all industrialized nations. Looking at this positively, that means we have the greatest room for improvement.

Our wheat breeding programs have been focused on meeting the stringent quality standards of the CWRS wheat class. The high-end market will continue to be important, however, that market represents about five million tonnes annually, or about a quarter of our total wheat production.

The real growth opportunities are in the low- to mid-quality milling wheat

markets in Asia and the Middle East. Our variety registration system needs to do a better job of generating varieties that are targeted toward these markets.

Our registration system needs to become more flexible and give farmers the ability to grow a greater range of wheat varieties. Each of us has different growing conditions and faces different market opportunities. Some farms are well-suited for producing high-quality wheat, but others might be better off going after feed, ethanol or mid-quality milling markets.

To help get us there, we need to ensure that our registration system does not act as a barrier to new varieties, whether developed by the private or public sector. Yes, we should preserve the high quality parameters of the CWRS and CWAD classes. However, if a new variety doesn't fit into these classes, a seed developer should still have every opportunity to bring that product to market.

By all means, let's preserve Canada's reputation as a supplier of high quality wheat. But let's also make sure every farmer has the flexibility to access the varieties that are best-adapted for his growing conditions and the markets that he or she wants to serve.

performance that will benefit the industry.

But according to some, merit assessment is a costly and restrictive requirement that discourages investment in wheat breeding and keeps many good

varieties off the market.

"For wheat ... it's a very large basket of attributes that are being assessed and that are required in order (for that line) to be recommended for registration," said Scheffel.

CONTINUED ON PAGE 44

VARIETY REGISTRATION SYSTEM IS READY FOR CHANGE

CANADA'S VARIETY registration system has seen a great deal of

change since its inception in 1923. It is well poised to adapt in response to an evolving western grain industry.

In June of 2009, the Seeds Regulations were amended to create a flexible variety registration system consisting of three Parts with varying degrees of oversight. Under this system, Part I crops (which include wheat and canola) require recommending committees, pre-registration testing and merit assessment. "Merit" means that the variety is equal or superior to standard reference varieties with respect to agronomic, disease or quality criteria. Part II crops require recommending committees and pre-registration testing, but not a merit assessment. Since recommending committees, pre-registration testing and merit

By Mike Scheffel
Canadian Food
Inspection Agency

assessment are not required for varieties of Part III crops, application for registration can be made directly to the Canadian Food Inspection Agency's Variety Registration Office.

Even within Part I, recommending committees can decide if the requirements should be minimal or more stringent to meet industry needs. Recommending committees use their expertise in developing suitable test methods and criteria for evaluating the merit of varieties. They set the registration standards for new varieties, and in doing so ultimately have a significant effect on the downstream quality of grain crops in Canada. These standards, operating procedures and even committee membership are all flexible and determined by the recommending committees.

Canola is an example of a Part I crop where the industry has chosen to streamline merit

requirements. The recommending committee agreed that the focus should be on quality criteria (e.g., oil and protein levels), but registration trials still generate data on yield and disease resistance. Conversely, wheat varieties focus on agronomic, disease and quality criteria and may have to meet more than 30 specific merit requirements.

Change is a certainty for Canada's wheat industry. There will be changes in market activities, market dynamics, recommending committee registration requirements and variety registration requirements. The current variety registration system is designed to adapt and be responsive to stakeholders' needs. More information on Canada's variety registration system can be found at: <http://www.inspection.gc.ca/plants/variety-registration/eng/1299175847046/1299175906353>.

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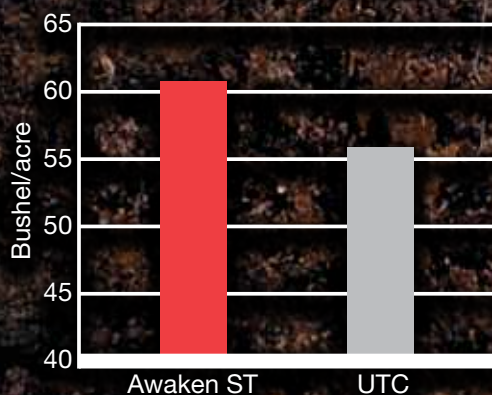
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“For most wheat classes, there are about six diseases, 32 quality parameters and nine agronomic traits that are assessed (for merit).”

Holding Canada’s new wheat varieties to those standards has ensured that Canadian wheat being sold at home and abroad is a high-quality product with predictable performance.

The variety registration system also supports a long established classification system that ensures all wheat varieties within each class — be it CWRS, CPS or CWAD — offer similar end-use quality characteristics.

In other words, variety registration is closely intertwined with the Canadian wheat classification system, a system that facilitates the sale of high-quality Canadian wheat by class, rather than variety.

“It enables the mixing of grain from multiple varieties while ensuring consistent functional performance,” Scheffel said.

“It is, if you like, a very large identity preservation program in a way. It’s just that it has multiple varieties (within each class) rather than just one or a few (varieties).”

Yet the system is not universally admired.

In recent years, private sector plant breeding companies have shown an increasing propensity to invest in wheat breeding programs.

Some of those companies would prefer a liberalized registration process that would encourage investment and allow more new varieties into the marketplace.

Some argue that the marketplace, not regulatory agencies, should determine which wheat varieties are commercialized, produced and exported abroad.

In addition, the elimination of the CWB’s grain marketing monopoly has fundamentally altered the dynamics of wheat marketing.

When the CWB had a legislated mandate to sell every bushel of wheat grown in western Canada, it had a vested interest in ensuring that all Canadian wheat varieties met a high quality standard.

But in the new marketing environment, some observers are wondering whether Canadian wheat quality is being maintained at the expense of other interests such as higher yield potential and greater net returns.

Norm Dreger, head of Syngenta’s North American cereals division, agreed that the variety registration system has helped to establish Canada’s global reputation as a producer of top-quality wheat.

But over the last 90 years, the variety registration system has evolved into a complex regulatory regime that discourages investment, especially private sector investment.

“We support a regulatory regime, absolutely, but we do need to simplify it,” said Dreger.

“I think what’s happened over time is we’ve created a regime that just gets more complicated.

“We can measure more stuff (related to agronomics and quality) so we’ve gradually built on more criteria (until ... the process ends up discarding, prematurely, good varieties.”

Speaking in Ottawa recently, Dreger argued that the Canadian grain industry should step back from the current variety registration system, indentify industry priorities and build a system that meets those objectives.

Grain quality is an important consideration, he said. But it shouldn’t be the only consideration.

CONTINUED ON PAGE 66

INCREASED FLEXIBILITY CRITICAL TO CANADA’S SUCCESS

By Norm Dreger,
North America Cereals
Head,
Syngenta



WHILE THE Canadian wheat sector may be said to be thriving by some measures —

more seeded acres, an open market and strong commodity prices — by others, it is under pressure — namely changes in publicly-funded grain research and the expansion of other, more profitable commodity crops.

These dynamics underscore the requirement for an environment that not only encourages wheat breeding investment and innovation, but empowers it.

At Syngenta, we believe a fundamental step to achieving this goal is increasing the flexibility of the Canadian variety registration system to deliver both market responsiveness and a return on investment for the entire value chain.

Employing leading-edge science such

as double haploid technology, genetic markers and hybridization, for example, requires massive resource investments.

These technologies are necessary to identify and develop traits that will deliver step-change benefits to stakeholders along the wheat value chain, beginning with Canadian growers.

Unfortunately, utilizing these technologies to develop Canadian wheat varieties is risky given the existing registration process.

Within the current Canadian system, many years of substantial research investment into a high performing variety can be dismissed based on a single vote.

With a more focused set of quality criteria, the likelihood of more varieties receiving registration increases significantly. This will enhance the willingness to invest in and pursue genetics beneficial to the Canadian market.

How do we make these system changes? By bringing together the appropriate stakeholders to determine quality criteria. Which quality criteria are

basic requirements? Which ones should be combined or eliminated? And which are acceptable as is? Each criterion should be determined using metrics that are transparent, replicable and predictable.

Much of Canada’s future cereal sector competitiveness will be determined by our ability to capture value across diverse markets and to be nimble enough to be opportunistic.

A registration system with criteria encompassing varieties and attributes associated with a broader range of milling, baking and consumer needs will encourage breeders to focus on end-use requirements while allowing Canadian growers to take advantage of new and evolving market opportunities.

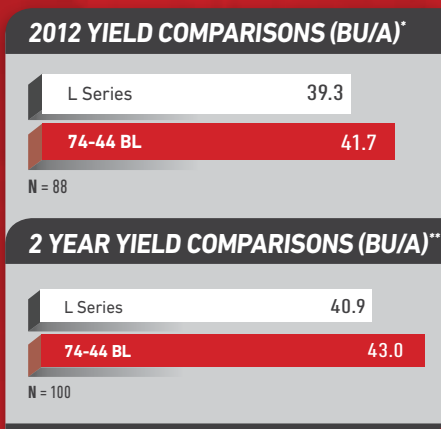
Unquestionably, the current variety registration system has made Canadian wheat synonymous with high quality.

Changes can be made, however, that foster flexibility without compromising quality.

If Canada intends to remain a leading player in the global wheat industry, these changes are imperative, not optional.

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*Source: 2012 Monsanto Field Scale Trials. **2011-2012 Monsanto Field Scale Trials. DEKALB represented by 74-44 BL; InVigor L Series represented by L150, L130 and L120. 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. Always follow grain marketing and all other stewardship practices and pesticide label directions. Details of these requirements can be found in the Trait Stewardship Responsibilities Notice to Farmers printed in this publication. DEKALB® and Design and DEKALB® are registered trademarks of Monsanto Technology LLC. Used under license. InVigor® is a registered trademark of Bayer. ©2012 Monsanto Company.

Solid-stemmed durum

nearing commercial release

Exceptional stem solidness could save durum growers millions of dollars annually in sawfly related losses. Certified seed for the new cultivar should be available in late 2014 through SeCan.

DURUM WHEAT growers in western Canada should soon have access to the country's first solid-stemmed durum variety, a product that could potentially save growers tens of millions of dollars annually in sawfly-related losses.

Prepared for Sask Seed Guide

Asheesh (Danny) Singh, a durum breeder with Agriculture and Agri-Food Canada's Semiarid Prairie Agricultural Research Centre (SPARC) in Swift Current, Sask., said certified seed supplies for Canada's first solid-stemmed durum should be available for widespread commercial planting in the spring of 2015.

The line, currently known by its experimental name DT818, is in the final stages of registration and was expected to receive approval from the Canadian Food Inspection Agency's variety registration office in December.

Once CFIA approvals are in place, the experimental line will be given an official variety name and seed will be multiplied for commercial distribution.

The new variety will be distributed through SeCan's network of pedigreed seed growers in western Canada.

"We should have an official variety name for it very soon," said Singh, who spoke with the Sask Seed Guide in mid-December.

"It's the first solid-stemmed durum wheat that has been developed in Canada and possibly in North America," he added.

"For traditional durum growing regions, it would probably be a very good fit, given its production (potential) and its protection of grade and yield through disease and insect resistance."

The development of DT 818 has been more than a decade in the making. Initial crosses containing the Sst1 gene responsible for stem solidness were made in 2003 at SPARC and selections took place over the next few years.

The line was recommended for registration in February, 2012 by the Prairie Grain Development Committee.

(For a complete list of other lines recommended for registration by the



Asheesh (Danny) Singh, a durum breeder with Agriculture and Agri-Food Canada's Semiarid Prairie Agricultural Research Centre (SPARC) in Swift Current, Sask., said the new solid-stemmed durum line should have a significant impact on durum production. Sawfly damage can account for yield losses as high as 10 percent. About three to four million acres of durum are planted in Saskatchewan each year. | PHOTO COURTESY OF AGRICULTURE AND AGRI-FOOD CANADA

PGDC, please see page 72).

Data collected during pre-registration testing and co-op trials suggested a good expression of stem solidness, high grain yields similar to Strongfield, protein levels as high as or slightly higher than Strongfield and intermediate straw height, similar to Strongfield.

Agronomic performance relative to Strongfield suggests that DT818 could have a bright future in western Canada, providing growers with another option for their farms and improving profitability.

According to recent data collected through the Canadian Wheat Board's annual variety survey, Strongfield was easily the most popular durum variety grown in the West, accounting for nearly two-thirds of total prairie acreage in 2011.

DT818 also has an impressive disease resistance package, with good resistance

to leaf and stem rust, resistance to common bunt and resistance to leaf spot comparable to Strongfield. It also has an improved resistance to common root rot and stripe rust relative to Strongfield.

Stripe rust is a cereal disease that has become more prevalent across the Prairies in recent years.

Durum varieties generally have better resistance to stripe rust than most bread wheats that are currently grown in the West.

DT818 offers stripe rust resistance as good or better than most varieties in the CWAD class.

"Overall it has a good disease package to go along with insect resistance," said Singh.

The development of a solid-stemmed durum variety could have huge economic implications for the prairie durum producers.

In Saskatchewan alone, durum is planted on three to four million acres every year.

The majority of that production takes place in the southern part of the province but acreage extends into the central and northwest regions as well.

Losses related to sawfly damage are hard to gauge but previous studies have reported an estimated yield loss of up to 10 percent in spring wheat varieties.

Additional losses associated with management practices, grade losses and other factors pushed total losses to roughly \$10 an acre.

Singh said it would be reasonable to assume similar losses in durum.

If that is the case, sawfly-related damages incurred by Saskatchewan durum growers could potentially cost growers tens of millions of dollars each year.

"The sawfly overlaps the majority of the province's durum producing areas, which makes it one of the major pests for the durum producing regions. Lately, due to wet weather, the incidence has gone down, but the numbers are expected to increase again in a normal year," said Singh.

CONTINUED ON PAGE 48



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“The prevalence and the damage caused by the sawfly varies from year to year but it’s an insect that’s been around for a long time so having an opportunity for producers ... (to grow a solid stemmed variety) ... is a good option for them.”

Researchers are not exactly sure why but stem solidness is a trait that generally shows better expression in durum wheat varieties than it does in bread wheats classes, such as CWRS.

Todd Hyra, SeCan’s western Canadian business manager, said the solidness of DT818 stems appears to be greater than that of solid stemmed spring wheat varieties that are already on the market.

“The solidness of the (DT818) stem was excellent,” said Hyra.

“The plants that we were pulling and looking at over the course of the summer were solid from top to bottom, so that should provide excellent sawfly tolerance.”

Hyra said SeCan has already completed one winter increase of DT818 and will multiply the seed for two more generations in western Canada.

Certified seed supplies should hit the market in late 2014.

Uptake by commercial growers could



Expression of the solid-stemmed trait is excellent in the new line. Here, a cross section of DT818 stems is shown beside a cross-section of Strongfield stems. In 2011, Strongfield accounted for nearly two-thirds of Saskatchewan’s total durum acres. | PHOTOS COURTESY OF AGRICULTURE AND AGRI-FOOD CANADA

be significant, based on the adoption of solid-stemmed CWRS varieties that hit the market a few years ago.

“I think it’s going to be a great product for durum producers,” Hyra told the Sask Seed Guide.

“Sawflies have been a problem from time to time and from year to year and when you look at varieties like AC Lillian in the CWRS class, it’s been the No. 1 variety in Saskatchewan for four or five years because of that built-in protection”

Singh said breeders are developing new varieties that provide additional protection against crop-damaging insects.

Breeders are continuing to work with experimental solid-stemmed wheat lines that are also midge tolerant, although lines with dual resistance are not expected for several years.

“There’s starting to be some overlap with midge in the durum producing area so that’s another thing that could be a possibility,” said Singh.



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Wheat industry looking at CPSR potential

Western Canada's high-yielding CPSR class has the potential to gain acres at home and markets abroad. The key to success is taking closer look at how CPSR quality standards are assessed.

PLANT BREEDERS and Prepared for Sask
grain industry experts Seed Guide
are hoping to take

advantage of what they see as a huge and largely untapped market for Canada Prairie Spring Red wheat, a minor wheat class that accounts for just one or two percent of Saskatchewan's total wheat production each year.

Ron DePauw, a wheat breeder with Agriculture Canada, said CPSR wheat varieties could account for significantly larger portion of total prairie wheat acreage in the future if today's industry stakeholders take a closer look at how the end-use qualities of CPSR varieties are assessed.

According to DePauw, CPSR acres could increase substantially if the industry takes steps to broaden the range of acceptable quality characteristics that are applied to the CPSR class.

Proponents of the plan would like to see less emphasis placed on measures such as CPSR kernel hardness, gluten strength and total protein content and more emphasis placed on issues such as overall milling properties, flour colour and loaf volume per unit of protein.

Promoting CPSR wheat as a high quality milling wheat could have a huge economic impact on the Canadian wheat industry.

Right now, Canada's dominant milling wheat class — Canada Western Red Spring — accounts for the vast majority of western Canadian wheat acres and is recognized around the world for its high protein content, predictable milling properties and outstanding baking performance.

CWRS varieties fetch higher prices than CPSR but they also produce yields 10 to 26 percent lower than CPSR varieties, depending on the region and other factors.

If the Canadian industry reviewed the quality parameters of CPSR, boosted the value of CPSR varieties on international markets and took advantage of the class's higher yield potential, CPSR wheat could emerge as a major wheat



CPSR varieties generally produce less protein than CWRS varieties but their yield potential is higher. For each drop of one percent in protein content, wheat breeders can get a 10 to 15 percent increase in grain yield, according to Agriculture Canada wheat breeder Ron DePauw. | FILE PHOTO

class that offers net returns as good as CWRS varieties, or better.

"Generally ... for each drop of one percent in protein content, we can get about a 10 to 15 percent increase in grain yield," said DePauw.

"That's a huge deal," he added.

"If we increased the yield of CPS red by 10 or 15 percent, it would really make quite a difference (in terms of profitability). Under current price scenarios ... CPS reds would be very competitive with our hard red spring wheats."

According to DePauw, there is considerable support within the industry to take a closer look at the potential of CPSR varieties.

"I would say there is a real sense of optimism," he said in a recent interview with the Sask Seed Guide.

If the plans gains traction, more high-yielding CPSR varieties could be registered in the future and CPSR wheat could be marketed as a high-quality, high-yielding milling wheat with properties similar to that of existing CWRS varieties.

The keys to success are first, to change the criteria for quality requirements of CPSR lines, and second, to develop and commercialize new high-yielding CPSR varieties that satisfy the needs of the milling and baking industries — a process that will take years if not decades.

Protein quality will be a major consideration.

Right now, millers and bakers prefer high-protein milling wheat, usually CWRS, because it translates into good loaf volume.

But the correlation between protein content and loaf volume deserves a closer look.

For example, a CWRS variety that measures 13.5 percent protein might produce 100 units of loaf volume for each percent of protein.

But if CPSR varieties measuring 12 percent protein can produce similar or higher loaf volumes per unit of protein, then CPSR could gain a significant share of the global market for premium milling wheat.

"In other words, there should be more focus on the quality of the protein (in terms of baking performance) and less emphasis on the quantity of protein," DePauw said.

Data collected in western Canada suggests that CPSR varieties produced in 2012 had protein content that ranged from 0.6 percent to 1.6 percent less than AC Barrie, the CWRS check.

Expressed in different terms, average protein levels for AC Barrie measured 14.9 percent while average protein levels for CPSR varieties ranged from 13.3 to 14.3 percent.

At the same time, CPSR yields were 10 to 26 percent higher than AC Barrie's.

CONTINUED ON PAGE 50

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CONTINUED FROM PAGE 49

If wheat breeders could develop new CPSR varieties with milling and baking properties comparable to AC Barrie while simultaneously reducing the CPSR protein content by an additional percentage point, the yield advantage of CPSR varieties compared to AC Barrie could potentially be expanded to nearly 40 percent.

Kernel hardness and gluten are others quality parameters that would need to be reviewed and expanded, said DePauw.

In an ideal scenario, the acceptable gluten strength within the CPSR class could be expanded to include a range of varieties from strong to medium strong.

The range of acceptable CPSR kernel hardness, meanwhile, could be expanded to include everything from hard-kernelled varieties to lines with medium kernel hardness.

"As long as they have very good milling properties, we should pay less attention to how hard the kernel is and pay more attention to the milling properties as a primary consideration," DePauw said.

"The bottom line is that they should have good milling properties, bright coloured flour... good brightness ... and good flour yield."

DePauw said Canada's current variety registration system could accommodate the development, registration and commercialization of high-yielding CPSR varieties with improved milling quality.

"If the industry has varieties that will do that, then they would have to be brought forward through the variety registration system ... but at this point, nobody has one," DePauw said. "Whenever someone's got a really good product, if it's really a good product, there have been ways to accommodate it."

Elwin Hermanson, chief commissioner of the Canadian Grain Commission, agreed that there is an opportunity to expand CPSR production.

In a recent discussion about Canada's variety registration process, Hermanson hinted that western Canada's wheat marketing strategies must evolve to take full advantage of opportunities that exist.

"I think part of the failure in the past has been that we've had the tools and we've had the varieties but we haven't matched our marketing strategies to take full advantage of the classes that are in place," Hermanson said.

"I'm pleased to hear the discussions about the CPSR class because we feel that there is great potential in the class and there's also potential to steer the CPS class, perhaps even in a new direction that will address some of the market challenges that we face"

"I think we've been negligent in that regard in the past," Hermanson added. "It's a high yielding class, it does have different properties that the CWRS and I think there's really potential for Canada to move forward in that class and perhaps other classes as well."

DePauw said changes to the quality requirements of the CPSR class would also accommodate registration of spring wheat varieties from northern tier states and might facilitate registration of spring wheat varieties from other countries.

There might be marketing advantages to assign a new name such as Canada Northern Spring Wheat, he added.

A greater range in the characteristics of the varieties would result in increased variability in a bulk handling system.

To achieve consistency within and between shipments, sellers and handlers would be required to assemble grain from varieties that meet the buyer's specifications. ☞

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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 2012 are based on 23 small plot trials and 81 field scale trials across the Prairies. Trial results that missed the print deadline for this brochure will be 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:

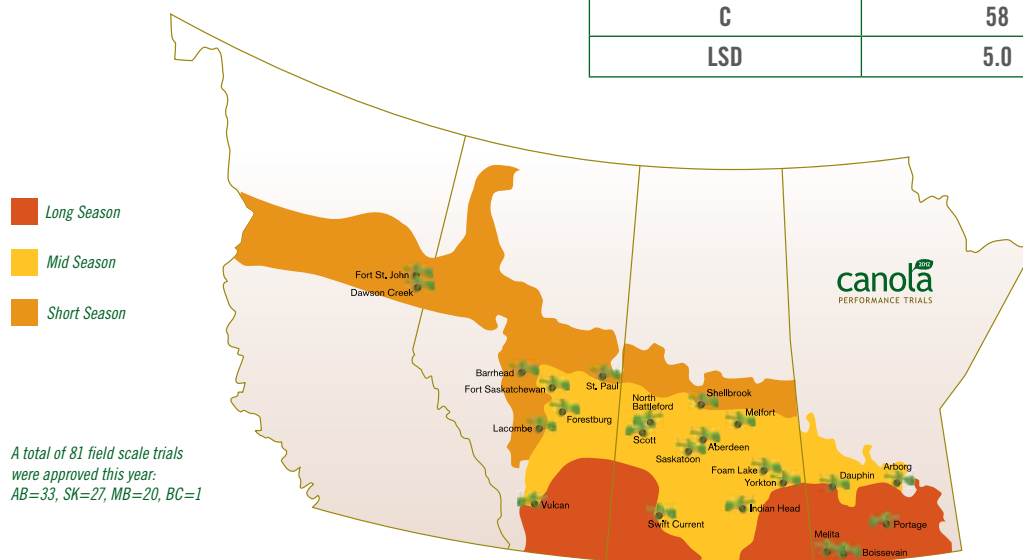
- All varieties are treated with appropriate commercially associated herbicides and seed treatments.
- An independent third party representative inspects all trials.
- Varieties are in blocks based on maturity. That way, harvest occurs at the appropriate time to minimize harvest losses due to maturity 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, 73-75 RR. 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) 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 (see page 20), LSD for each variety group is given on the left.

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



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.

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.

Small plot and field scale data are 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 \$14.79/bu. This is based on \$591.60 per tonne, the March 2013 futures close on October 1, 2012, and a 55-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 above.

1. To begin, use the map above. Identify your growing season zone and trial locations closest to your farm.
2. 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.
3. Consider other information such as maturity, lodging resistance and cost. The online database at www.canolaperformancetrials.ca includes an Economic Calculator.
4. Ask your seed dealer for more information on specific varieties.

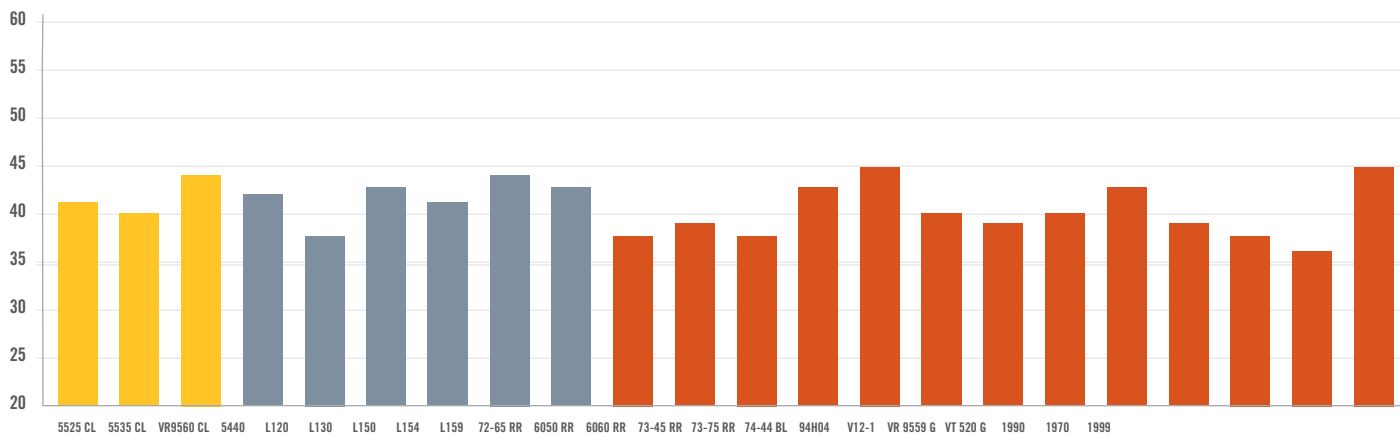


CANOLA PERFORMANCE TRIALS 2012 RESULTS

Long Season Zone:

Average yield for 4 small plot sites (bu./ac.)

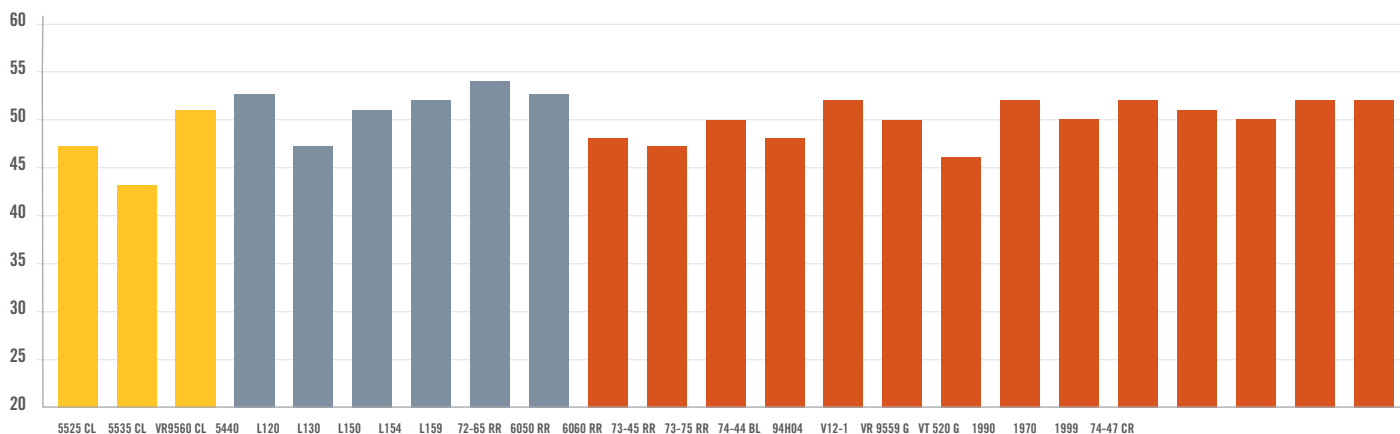
- Clearfield LSD: 6.4
- Liberty Link LSD: 5.9
- Roundup Ready LSD: 5.4



Mid Season Zone:

Average yield for 13 small plot sites (bu./ac.)

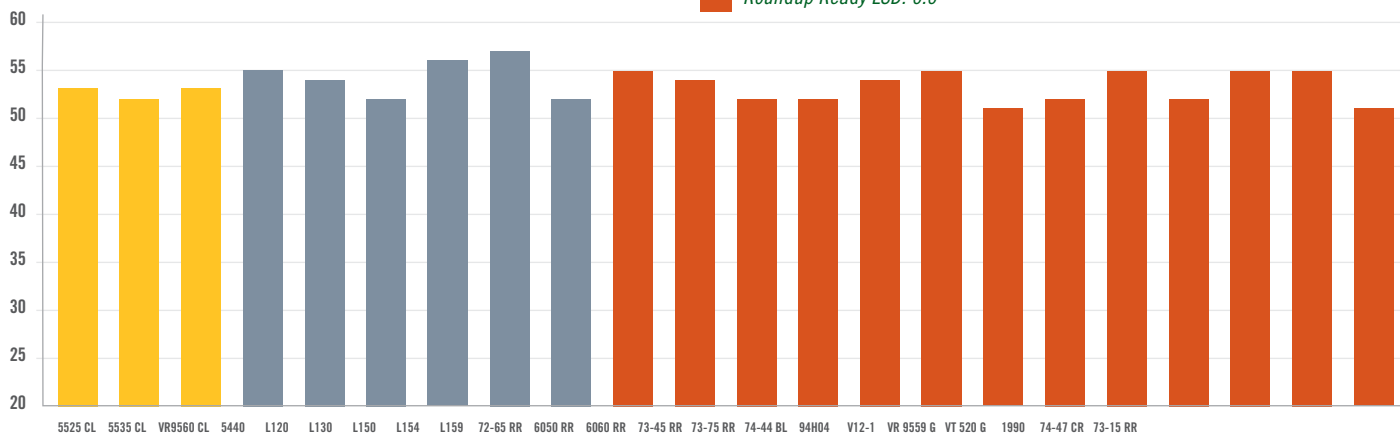
- Clearfield LSD: 6.5
- Liberty Link LSD: 5.4
- Roundup Ready LSD: 6.2



Short Season Zone:

Average yield for 6 small plot sites (bu./ac.)

- Clearfield LSD: 7.8
- Liberty Link LSD: 5.4
- Roundup Ready LSD: 6.6



CANOLA PERFORMANCE TRIALS 2012 RESULTS

Short Season Zone: Small plot results by location

Variety	Shellbrook, SK					Barrhead, AB					Lacombe, AB				
	Yield (bu/ac)	Gross Revenue/ac	Days to Maturity	Lodging	Height (in.)	Yield (bu/ac)	Gross Revenue/ac	Days to Maturity	Lodging	Height (in.)	Yield (bu/ac)	Gross Revenue/ac	Days to Maturity	Lodging	Height (in.)
Clearfield															
5525 CL	49	\$725	93.3	3.0	45	62	\$922	98.5	1.8	47	62	\$920	101.5	2.0	51
5535 CL	45	\$668	88.8	5.0	41	59	\$877	94.3	2.0	48	59	\$877	98.8	3.0	49
VR 9560 CL	56	\$834	93.3	3.8	49	62	\$918	102.5	2.5	49	56	\$835	102.8	2.8	49
LSD	5.2					4.5					4.5				
Liberty Link															
5440	61	\$905	93.5	1.3	48	64	\$944	98.5	1.8	47	59	\$867	101.3	1.8	53
L120	53	\$778	88.8	2.8	47	62	\$913	97.8	1.5	45	61	\$907	99.0	2.0	47
L130	55	\$812	90.8	1.5	46	63	\$931	97.3	1.3	47	60	\$894	99.5	1.5	48
L150	56	\$828	93.5	2.5	46	70	\$1,042	98.0	1.5	50	57	\$844	101.0	2.3	49
L154	57	\$840	92.5	3.3	46	71	\$1,054	97.5	2.0	50	60	\$894	101.0	2.0	49
L159	56	\$832	94.3	2.0	50	67	\$991	98.0	1.3	49	58	\$854	101.8	1.5	56
LSD	3.0					4.7					4.7				
Roundup Ready															
72-65 RR	51	\$755	92.0	4.3	44	65	\$963	101.0	2.3	41	52	\$774	102.0	2.0	45
6050 RR	51	\$754	88.8	4.5	46	67	\$984	97.3	2.3	43	50	\$746	100.3	2.8	42
6060 RR	54	\$793	96.5	2.5	53	58	\$855	106.0	1.8	47	54	\$799	104.5	2.0	52
73-45 RR	51	\$748	87.0	4.3	41	61	\$901	96.5	2.8	43	50	\$739	99.3	2.3	42
73-75 RR	54	\$798	90.8	4.5	46	52	\$769	96.3	2.5	44	56	\$823	100.5	3.0	46
74-44 BL	52	\$773	89.0	3.3	46	58	\$852	98.3	1.8	45	53	\$791	99.5	2.3	45
94H04	50	\$741	90.3	3.8	45	60	\$881	97.5	2.5	44	48	\$703	100.3	2.3	46
V12-1*	53	\$817	92.5	3.5	47	60	\$923	102.3	2.3	45	53	\$823	103.3	2.3	51
VR 9559 G	54	\$798	94.3	2.5	53	61	\$906	102.5	1.5	46	58	\$863	104.0	2.0	52
VT 520 G	54	\$797	96.3	1.0	50	60	\$890	103.8	1.0	48	52	\$768	104.8	1.0	53
1990	57	\$837	94.0	3.0	46	60	\$886	101.3	1.8	45	53	\$789	103.0	2.5	47
74-47 CR	51	\$756	92.0	4.0	50	61	\$899	97.0	2.0	44	53	\$778	101.0	3.0	47
73-15 RR	41	\$603	87.0	5.0	47	58	\$862	94.0	2.0	43	56	\$827	99.0	3.0	44
LSD	4.3					8.7					8.7				
CV	5.3					8.5					8.5				

Variety	St. Paul, AB					Dawson Creek, BC					Fort St. John, BC				
	Yield (bu/ac)	Gross Revenue/ac	Days to Maturity	Lodging	Height (in.)	Yield (bu/ac)	Gross Revenue/ac	Days to Maturity	Lodging	Height (in.)	Yield (bu/ac)	Gross Revenue/ac	Days to Maturity	Lodging	Height (in.)
Clearfield															
5525 CL	46	\$676	-	1.3	41	45	\$671	100.3	-	43	51	\$753	100.0	-	43
5535 CL	41	\$603	-	1.7	37	49	\$721	95.7	-	39	56	\$827	98.7	-	42
VR 9560 CL	43	\$629	-	1.0	44	48	\$708	101.3	-	41	55	\$810	101.0	-	44
LSD	21.1					3.8					3.2				
Liberty Link															
5440	49	\$732	-	1.0	41	43	\$643	98.0	-	41	55	\$809	98.7	-	43
L120	46	\$673	-	1.3	41	46	\$682	97.0	-	43	55	\$818	98.0	-	43
L130	40	\$584	-	1.0	40	41	\$612	98.7	-	39	56	\$821	98.0	-	43
L150	47	\$692	-	1.0	41	46	\$684	99.0	-	42	61	\$903	99.3	-	44
L154	51	\$759	-	1.0	45	46	\$677	100.3	-	41	59	\$870	99.3	-	45
L159	31	\$461	-	1.0	46	43	\$635	98.7	-	45	56	\$824	100.0	-	45
LSD	10.8					6.0					4.0				
Roundup Ready															
72-65 RR	61	\$907	-	2.7	33	48	\$705	97.0	-	40	55	\$820	100.7	-	39
6050 RR	51	\$751	-	3.3	21	50	\$741	100.0	-	38	57	\$847	99.0	-	40
6060 RR	53	\$780	-	2.0	33	42	\$627	101.0	-	39	52	\$776	101.7	-	40
73-45 RR	44	\$646	-	3.0	24	51	\$760	99.0	-	36	58	\$856	97.7	-	38
73-75 RR	55	\$810	-	2.3	32	48	\$713	98.0	-	39	60	\$887	100.3	-	39
74-44 BL	62	\$914	-	3.3	22	50	\$740	98.7	-	39	57	\$850	100.0	-	37
94H04	53	\$778	-	3.0	25	44	\$651	97.3	-	40	51	\$758	96.7	-	44
V12-1*	48	\$751	-	1.3	37	43	\$643	98.0	-	39	55	\$811	99.3	-	42
VR 9559 G	55	\$808	-	2.3	37	48	\$703	100.7	-	41	55	\$809	99.7	-	43
VT 520 G	55	\$810	-	1.0	47	39	\$581	99.7	-	40	53	\$786	101.0	-	40
1990	57	\$839	-	2.3	32	47	\$695	100.7	-	38	58	\$863	100.7	-	40
74-47 CR	52	\$763	-	2.0	32	50	\$733	101.0	-	40	63	\$938	100.0	-	40
73-15 RR	49	\$728	-	3.0	22	48	\$715	97.0	-	39	56	\$834	98.0	-	38
LSD	7.5					6.6					3.3				
CV	11.3					11.4					4.4				

*Gross revenue for this Cargill Specialty Canola hybrid includes a premium of \$1.13 per bushel for the first 30 bushels. Cargill has the option to purchase growers' full production with applicable premiums. Yield is rounded to the nearest whole number. Gross revenue is based on non-rounded yield. Gross revenue is yield multiplied by \$14.79/bu.

CANOLA PERFORMANCE TRIALS 2012 RESULTS



Field Scale Trial Yield Results

Field scale trials are managed by growers using their typical production practices. Trials are planted, swathed, harvested and, when necessary, sprayed by growers using the respective herbicide systems according to established protocols. Individual plots range from 0.5 to 1.5 acres. Results below are given as a percentage of the check, 73-75 RR. Yield in bu./ac. for 73-75 RR for each location is given in brackets at the end of each row.

Location	Yield Results (% of check, 73-75 RR)															
	Variety															
	L120	L130	L150	L154	L159	5440	1970	1990	1999	6060	72-65 RR	73-15 RR	73-45 RR	74-44 BL	74-47 CR	73-75 RR (bu./ac.)
Long Season Zone (avg.)	81	97	91	98	94	97	98	94	103	94	94	98	93	99	100	(42)
Brandon 1 MB	-	87	103	-	-	-	-	94	-	95	100	-	102	96	-	100 (41)
Brandon 2 MB	-	96	90	98	94	93	-	-	-	-	-	-	89	-	-	100 (43)
Broadview SK	81	-	78	-	-	-	-	77	-	83	86	-	96	91	-	100 (23)
Cranford 1 AB	-	96	91	-	-	-	-	88	-	89	92	-	104	101	-	100 (68)
Cranford 2 AB	-	132	120	106	115	126	-	-	-	-	-	-	-	-	-	100 (55)
Elie MB	-	-	-	-	-	-	-	93	-	87	89	-	88	84	98	100 (50)
Halbstadt MB	-	93	94	104	99	94	-	-	-	-	-	-	-	-	-	100 (42)
Hamiota MB	-	108	94	95	96	105	-	-	-	-	-	-	-	-	-	100 (42)
Howden MB	-	86	75	-	-	-	-	85	-	83	85	-	92	84	-	100 (48)
Kenton MB	-	108	105	-	-	-	-	102	-	106	101	-	101	105	-	100 (50)
Killarney MB	-	-	-	-	-	-	-	100	-	96	102	-	99	96	96	100 (41)
Lampman SK	-	113	100	102	101	114	-	-	-	-	-	-	-	-	-	100 (35)
Langenburg SK	-	90	77	94	85	94	-	-	-	-	-	-	85	-	-	100 (36)
Lauder MB	-	97	93	99	99	97	-	-	-	-	-	-	-	-	-	100 (43)
Melita MB	-	-	-	-	-	-	-	100	-	98	-	-	-	108	106	100 (37)
Oakville MB	-	-	-	-	-	-	-	101	97	103	-	-	-	-	-	100 (27)
Portage la Prairie MB	-	90	85	92	83	89	-	-	-	-	-	-	85	-	-	100 (50)
Regina SK	-	-	-	-	-	-	-	98	-	94	96	-	99	100	98	100 (37)
Rosburn MB	-	-	-	-	-	-	-	95	95	-	104	-	-	101	-	100 (51)
Somerset 1 MB	-	95	95	-	-	-	-	94	-	97	92	-	100	91	-	100 (51)
Somerset 2 MB	-	102	93	105	94	91	-	-	-	-	-	-	78	-	-	100 (34)
St. Adolphe MB	-	81	76	88	81	83	-	-	-	-	-	-	-	-	-	100 (46)
Stonewall MB	-	89	86	96	86	93	-	-	-	-	-	-	92	-	-	100 (33)
Swift Current SK	-	92	89	101	96	81	-	-	-	-	-	-	-	-	-	100 (51)

When comparing average results between varieties, consider the number of test sites for each variety. Field scale trials occasionally produce data that is above or below the expected range. If agronomic observations cannot explain these “outliers,” then they are checked against the statistical limits of deviation established by the Canola Performance Trial technical committee. If the data falls outside the limits, it is removed. For more details on individual trials and for data from sites that reported after this booklet went to print, visit www.canolaperformancetrials.ca.

Location	Yield Results (% of check, 73-75 RR)															
	Variety															
	L120	L130	L150	L154	L159	5440	1970	1990	1999	6060	72-65 RR	73-15 RR	73-45 RR	74-44 BL	74-47 CR	73-75 RR (bu./ac.)
Mid Season Zone (avg.)	91	106	100	99	99	107	100	101	102	99	101	108	103	106	101	100 (41)
Mannville AB	-	104	106	-	-	-	-	-	-	-	100	-	99	107	103	100 (50)
Margo SK	-	-	-	-	-	-	-	105	102	-	-	-	102	-	-	100 (39)
Marshall SK	-	-	-	-	-	-	-	106	-	108	106	-	107	110	102	100 (38)
Millet AB	-	130	124	115	125	128	-	-	-	-	-	-	125	-	-	100 (42)
Nisku AB	-	-	-	-	-	-	-	109	-	-	102	104	105	106	108	100 (48)
North Battleford SK	-	-	-	-	-	-	-	105	-	109	104	-	-	107	107	100 (37)
Paradise Valley AB	-	111	104	99	105	109	-	-	-	-	-	-	-	-	-	100 (51)
Quill Lake SK	-	100	92	83	75	106	-	-	-	-	-	-	-	-	-	100 (41)
Rosetown SK	-	76	82	-	-	-	-	81	-	87	92	-	101	99	-	100 (45)
Rosthern SK	-	-	-	-	-	-	-	102	-	99	100	-	101	106	100	100 (43)
Strasbourg SK	-	-	-	-	-	-	-	100	-	102	107	-	105	117	94	100 (32)
Strathmore AB	-	-	-	-	-	-	-	105	-	112	102	107	105	98	106	100 (54)
Swan River MB	101	-	69	-	-	-	-	126	-	121	95	93	117	112	-	100 (31)
Unity SK	-	112	116	96	101	101	-	-	-	-	-	-	-	-	-	100 (42)
Vegreville AB	103	-	116	-	-	-	-	-	-	-	99	104	96	109	103	100 (41)
Vermilion AB	-	-	-	-	-	-	-	104	-	105	101	125	100	114	103	100 (44)
Vulcan 1 AB	-	111	107	-	-	-	-	-	-	-	-	106	103	113	94	100 (47)
Vulcan 2 AB	88	-	93	-	-	-	-	100	-	99	99	-	-	105	-	100 (45)
Watrous SK	-	102	106	101	-	97	-	-	-	-	-	-	-	-	-	100 (37)

Location	Variety																
	L120	L130	L150	L154	L159	5440	1970	1990	1999	6060	72-65 RR	73-15 RR	73-45 RR	74-44 BL	74-47 CR	73-75 RR (bu./ac.)	
	Mid Season Zone (avg.)	91	106	100	99	99	107	100	101	102	99	101	108	103	106	101	100 (41)
Andrew AB	-	-	-	-	-	-	-	95	-	96	104	-	102	102	96	100 (46)	
Arborg MB	-	-	-	-	-	-	-	81	-	73	91	-	88	87	90	100 (59)	
Archerwill SK	-	-	-	-	-	-	-	105	-	-	-	-	-	-	-	100 (44)	
Bassano AB	-	-	-	-	-	-	-	101	103	-	-	106	-	-	-	100 (30)	
Biggar SK	-	-	-	-	-	-	-	97	101	-	-	-	-	-	-	100 (40)	
Bradwell SK	83	-	89	-	-	-	-	97	-	98	101	-	109	104	-	100 (37)	
Calmar 1 AB	-	-	-	-	-	-	-	97	97	93	-	-	-	81	-	100 (42)	
Calmar 2 AB	-	101	98	96	95	101	-	-	-	-	-	-	-	-	-	100 (50)	
Camrose AB	-	112	103	-	-	-	-	-	-	94	101	-	96	93	101	100 (41)	
Canora 1 SK	77	-	75	-	-	-	-	93	-	83	111	127	115	133	-	100 (19)	
Carseland AB	-	126	106	102	115	125	-	-	-	-	-	-	-	-	-	100 (50)	
Dauphin MB	-	112	108	112	98	100	-	-	-	-	-	-	-	106	-	100 (40)	
Davidson SK	-	103	100	-	-	106	-	-	-	-	-	-	-	-	-	100 (38)	
Foam Lake SK	-	84	69	87	70	86	-	-	-	-	-	-	-	-	-	100 (27)	
Forestburg AB	-	104	104	100	97	103	-	-	-	-	-	-	-	-	-	100 (48)	
Ft. Saskatchewan 1 AB	-	-	-	-	-	-	-	107	105	-	-	-	-	-	-	100 (45)	
Ft. Saskatchewan 2 AB	-	101	94	90	93	103	-	-	-	-	-	-	104	-	-	100 (53)	
Herschel SK	-	-	-	-	-	-	-	104	92	101	-	-	-	-	-	100 (41)	
Indian Head SK	-	113	106	95	100	114	-	-	-	-	-	-	-	-	-	100 (39)	
Kamsack SK	-	-	-	-	-	-	-	103	115	106	92	-	94	-	-	100 (39)	
Lake Lenore SK	-	124	127	120	120	122	-	-	-	-	-	-	-	-	-	100 (32)	
Lavoy AB	-	93	92	92	89	104	-	-	-	-	-	-	-	-	-	100 (52)	
Lumsden SK	-	105	103	96	96	104	-	-	-	-	-	-	-	-	-	100 (48)	
Macklin SK	95	-	104	-	-	-	-	-	-	-	99	100	99	100	104	-	100 (37)

Location	Yield Results (% of check, 73-75 RR)																
	Variety																
	L120	L130	L150	L154	L159	5440	1970	1990	1999	6060	72-65 RR	73-15 RR	73-45 RR	74-44 BL	74-47 CR	73-75 RR (bu./ac.)	
Short Season Zone (avg.)	92	105	100	98	101	103	-	102	-	96	94	96	97	101	100	100 (46)	
Baytree AB	-	114	116	99	108	119	-	-	-	-	-	-	89	-	-	100 (19)	
Blackfalds AB	-	96	93	94	88	101	-	-	-	-	-	-	-	-	-	100 (46)	
Carrot River SK	-	97	98	97	102	95	-	-	-	-	-	-	-	-	-	100 (37)	
Girouxville AB	-	-	93	-	-	-	-	-	-	-	-	-	98	103	101	101	100 (56)
High Prairie 1 AB	-	-	-	-	-	-	-	-	-	-	-	-	99	102	97	94	100 (66)
High Prairie 2 AB	-	107	103	96	99	104	-	-	-	-	-	-	-	-	-	100 (58)	
La Crete AB	-	-	-	-	-	-	-	-	-	-	-	-	84	93	112	106	100 (27)
Rolla BC	89	-	-	-	-	-	-	99	-	93	95	93	89	94	-	100 (40)	
Sexsmith 1 AB	-	104	104	-	-	-	-	99	-	89	-	99	100	99	-	100 (45)	
Sexsmith 2 AB	-	115	116	112	109	99	-	-	-	-	-	-	99	-	-	100 (53)	
Valleyview AB	95	-	97	-	-	-	-	107	-	100	-	98	104	98	-	100 (47)	
Wanham AB	92	-	95	-	-	-	-	102	-	96	91	99	100	102	-	100 (52)	
Westlock 1 AB	91	-	91	-	-	-	-	103	97	99	97	103	-	-	-	100 (52)	
Westlock 2 AB	-	99	94	88	97	100	-	-	-	-	-	-	-	-	-	100 (58)	

Overall Average	L120	L130	L150	L154	L159	5440	1970	1990	1999	6060	72-65 RR	73-15 RR	73-45 RR	74-44 BL	74-47 CR	73-75 RR (bu./ac.)
	90	103	97	98	97	103	99	99	102	97	98	102	100	101	100	100 (42)

Evolution of an institution

Change is never easy, especially when it happens at a highly-regarded, century-old agency like the Canadian Grain Commission.

IN 2012, the Canadian Grain Commission celebrated its 100th anniversary as a federally legislated regulator of the Canadian grain industry.

Since 1912, it has operated programs aimed at protecting Canadian grain growers, maintaining national grain standards and ensuring the integrity of the Canadian grain industry.

In 2013, it will begin its second century as a vastly changed organization. Within the next few months, the commission will evolve into a leaner and more efficient organization that performs fewer tasks, requires less government funding and collects a significantly larger portion of its annual revenues from industry stakeholders, including farmers.

Government officials have refused so far to say how many staff members will remain on the payroll of the revamped grain commission.

But sources close to the process have indicated that CGC staffing levels — currently at 700 — could fall to roughly 400 by the time the changes are complete. Despite the changes, CGC chief commissioner Elwin Hermanson has assured the domestic industry as well as overseas grain customers that the commission will continue to ensure that Canadian grain exports meet the high quality standards that have been established over the past century.

“We will continue to have a significant role and responsibility within the industry,” Hermanson said during a recent presentation to grain industry stakeholders.

“Canada has an excellent reputation for consistent grain quality, not only for the marketing of wheat and barley, but also for canola, pulses and other cereals that were not (marketed) under the auspices of the Canadian Wheat Board.

“We are assuring Canadian customers that while we don’t market wheat ... we will continue to maintain Canada’s quality assurance system, just as we have done for non-board grains throughout our 100-year history.”

Among other things, the proposed changes to commission services will include the following measures:

- the elimination of mandatory inward inspection and weighing of grains by the

CGC at terminal and transfer elevators;

- the elimination of the Grain Appeals Tribunal;
- the discontinuance of elevator weigh-overs and the elimination of registration and cancellation of elevator receipts;
- the elimination of the transfer elevator class within CGC operations and;
- the adoption of a new insurance-based system to replace the CGC’s bond-based security program that protects primary grain producers against financial losses in the event of grain company insolvencies.

If approved, the proposed CGC changes would take effect on Aug. 1, 2013.

According to Hermanson, the elimination of inward inspections and weighing will account for the majority of those savings.

“This (mandatory inward inspection) is a significant part of what we do,” Hermanson said.

“It comes out of the days when there were a lot of (grain) companies ... and there was certainly much more need for inward inspections at terminals in that environment,” he said.

“But now, we have fewer companies operating, we’re seeing more intra-company movements of grain and quite frankly, a lot of the inward inspection that’s being done ... is no longer necessary.”

Prepared for Sask
Seed Guide



The Canadian Grain Commission is undergoing massive change. Among other things, the commission’s bond-based producer protection program will be replaced. Grain company bonds held by the CGC are valued at more than \$600 million. | FILE PHOTO

Elimination of the bond-based

producer protection program will also result in significant savings, he said.

“It’s no secret that we (hold as security) a lot of potential capital investment in the grain industry because all our licensees (grain companies) have to make a financial instrument available to the CGC to offset producer liabilities,” he said.

“In fact, the amount of money that we now have to have at our disposal should there be industry failures is now over \$600 million and that’s money that can’t be used for other capital expenditures in the industry.”

It has yet to be determined what form a new producer security program will take but some grain industry stakeholders believe it will be an insurance-based system that involves monetary premiums to cover grain industry liabilities and protect growers against potential losses.

Ideally, the new program will be less expensive and will require fewer administrative resources.

“It (the current bonding system) is quite expensive and it’s also administratively complicated because all of our licensees (grain companies) have to provide monthly liability reports, they have to have the staff and the infrastructure to put those reports together and we (the CGC) have to have the staff and the infrastructure and the auditors to deal with (this information) at the other end.”

CONTINUED ON PAGE 67



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Few tools to manage aster yellows

Aster yellows affected canola fields across the Prairies last year and cost producers millions in lost production. Unfortunately, research related to the disease is limited and controlling losses can be difficult.

LAST YEAR was the worst season on record for aster yellows infestation in Canadian canola crops, and outbreaks of the disease are becoming more likely.

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Twenty-five to 27 percent of the 2012 Canadian canola crop was infected by aster yellows, according to Chrystel Olivier, an Agriculture Canada research scientist who studies the disease in canola and cereals.

In Manitoba, the problem was most common.

Data from Manitoba Agriculture suggests that 95 percent of canola fields in that province had some level of aster yellows infection.

Monetary losses from the disease are difficult to calculate because of other issues the canola crop faced, including hot, dry weather and pressure from other diseases such as sclerotinia.

However, there is little doubt among farmers or plant pathologists that aster yellows affected canola yields last summer.

Olivier said the trend toward milder winters on the Prairies has increased the survivability of aster yellows.

The disease is caused by phytoplasma, bacteria-like pathogens that feed on and reproduce in the nutrient-carrying vessels of plants called phloem.

Milder winters allow more of the phytoplasma to survive in perennial plants such as dandelions.

Diseases need a vector to spread, and aster yellows' vector, the aster yellows leafhopper, is also more likely to survive a milder winter.

Many leafhopper species live on the Canadian Prairies but the aster yellows leafhopper, which blows in on winds from the United States, causes the lion's share of the damage.

"The winds coming from the south 10 to 15 years ago were coming at the beginning of May," Olivier said.

"Now they are coming earlier. For about the last five years they are coming at the beginning of April."

It is difficult to say if this year's high



Aster yellow leafhoppers are extremely mobile and can move in from neighbours' fields soon after spraying occurs. They can also come in multiple waves as winds propel them from the southern U.S. Plains. | FILE PHOTO

infestation rates will have any bearing on future infestation levels, she added.

Government entomologist John Gavloski said there are no early warning signs to help producers make an informed decision at seeding time about the risk level of aster yellows.

Infection rates are contingent on the migrating leafhopper population, which is difficult to predict.

"Even if there are large clouds of the hoppers coming our way in the central states, the reality is they may not even make it to us until quite late," he said.

"They need the early south winds. They'll get to us eventually, but if it's late enough, it's just not a big deal."

Even if a large population of leafhoppers blows in early, it doesn't necessarily mean there will be a severe infestation of aster yellows, added Olivier.

Infection rates also depend on the level of aster yellows infection in the leafhopper population.

There are no recommended management techniques that producers can use to combat the disease in canola crops. As well, no chemicals that kill the

phytoplasma are commercially available.

Olivier said aster yellows is susceptible to antibiotics but they aren't approved for wide-scale crop application.

Hot days with temperatures from 35 to 40 C will kill the phytoplasma, but only those that are above ground.

The only way to control the disease is to control the vector but Gavloski said spraying for the leafhopper in canola crops usually isn't economically viable.

"Growers can't just figure they can just tank mix something in with a herbicide or fungicide to take care of aster yellows. That's not going to happen," he said.

"The only way to have any significant reduction is to do repeated spraying. That's what carrot growers and (horticulturalists) do, but it's not economical in a crop like canola."

Aster yellow leafhoppers are extremely mobile and can move in from neighbours' fields soon after spraying occurs. They can also come in multiple waves as south winds propel them from the southern U.S. Plains.

DO YOUR VARIETIES MEASURE UP?



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SEE FOR YOURSELF



Gavloski said there is no research to suggest that varietal selection will limit aster yellows losses. There is also no evidence that crop rotation has any bearing on infestation rates.

Traditionally, disease experts have recommended that farmers seed early so canola crops will be more mature and less attractive to the aster yellows leafhoppers by the time they arrive.

However, Olivier said there was evidence this year that later-seeded canola fared better than early-seeded crops. Also, early south winds may have negated the benefits of the early seeding strategy.

Keeping fields clean will help to reduce the disease.

“If you have a canola crop that is mature but has a lot of weeds, there is a greater chance the leaf hopper will be drawn to the field, and that the canola plants in the field will be poked on by the leaf hopper. If there are no weeds, then it is more likely the leafhopper will go somewhere else with more suitable feed.”

Aster yellows is a difficult disease to study, largely because no one has been able to cultivate the phytoplasma individually. Infected plants and insects



Aster yellows is a difficult disease to study, largely because no one has been able to cultivate the phytoplasma individually. Infected plants and insects must be kept on hand to ensure that researchers have an adequate supply of phytoplasma to study. | PHOTO COURTESY OF THE CANOLA COUNCIL OF CANADA

must be kept on hand to ensure that researchers have an adequate supply of phytoplasma to study. But this requires space and money.

The aster yellows phytoplasma can regulate the genome of its hosts.

Olivier said one of the genes affected in canola is involved with flower development, causing the plant to grow

leaf-like structures instead of flowers, thereby reducing seed production.

The phytoplasma also affects the aster yellow leafhopper by causing it to live longer and allowing it to feed on plants it normally wouldn't feed on.

For more information, visit www.canolawatch.org/2012/11/07/aster-yellows-qa/.

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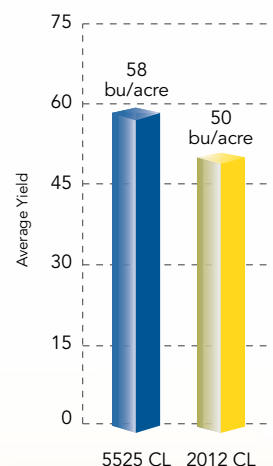
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² Data from 2011 Canola Performance Trials – medium season zone.

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¹Based on 2012 Nexera oil premiums and 2012 SR Ps on the seed. For complete details on the trials visit www.canolaperformancetrials.ca

Seed industry looks at inspection options

In early 2014, the CFIA will no longer be responsible for conducting seed crop inspections. That gives the seed industry a little more than a year to find a new service delivery model.

WHEN THE Canadian Food Inspection Agency announced earlier this year that it was getting out of seed crop inspections, industry officials weren't surprised.

Prepared for Sask
Seed Guide

Talk of alternative service delivery began at least two years ago.

However, the scope and speed of the changes caught officials off guard, said Dale Adolphe, executive director of the Canadian Seed Growers' Association (CSGA).

The federal government announced in July, 2012 that it would stop conducting seed crop inspections as of April 2014.

That gave the seed industry less than two growing seasons to identify a new model of service delivery, get new service providers accredited and ensure that new inspectors are properly trained and licensed.

"We'll work on it, but the transition time is very short ...," said Adolphe.

"We had no idea that we were going to have to deliver (this quickly)...."

The CFIA has provided seed crop inspection services for 75 years.

Those inspections ensure that seed purity and quality standards are met and that growers are adhering to established protocols.

Private sector involvement isn't a completely new concept to the seed industry.

Inspections are already being carried out by non-CFIA bodies for hybrid corn and canola.

The CSGA also began a pilot project on alternative service delivery models in 2011 in Ontario.

Inspections for cereal and pulse crops account for approximately 80 percent of inspectors' workload.

Les Trowell, president of the Saskatchewan Seed Growers Association (SSGA), said the seed industry was anticipating the changes but did not expect such short timelines.

"We pretty well knew it was coming The (2012 federal) budget just reinforced that it was going to start happening now," he said.



A Canadian Food Inspection Agency seed inspector walk slowly through a pedigreed faba bean field. Beginning next year, seed growers across Canada will pay the full cost of pedigreed seed crop inspections, a service that has traditionally been offered through the CFIA at a subsidized rate. | FILE PHOTO

"We didn't think it was going to be quite this soon and we were probably hoping there would be a longer period of time to find alternative service providers for this, but this is what they came down with and this is how it's going to turn out."

Alternative service delivery models could take several forms and could allow for multiple service providers.

The CFIA and its inspection staff are considered a third-party inspection model. Other models could see the seed grower (first party) or the seed distributor (second party) providing the service.

The CFIA will "maintain an oversight and audit role" and will be responsible for training inspectors and accrediting companies that provide inspection services.

In the case of canola, Alberta's 20/20 Seed Labs is authorized to provide the service to growers.

"So we do have some experience in this regard, but with very ... limited geographies and limited crop kinds in those two instances," said Mike Scheffel, national manager of the CFIA's seed section.

"The challenge facing us now is to transition the other 95 percent of the acres and fields over a period of time to the private model."

Both the CSGA and the SSGA are

looking for a model of alternative service delivery that will maintain the independent third party system.

Adolphe said inspection services could be delivered by a nationwide body, developed by the Canadian Seed Institute.

"What that kind of translates into is ... more like a privatization of what CFIA was doing; a privatization into the hands of one body, the Canadian Seed Institute, rather than ... ending up with 50 or 100 or 300 alternative service providers."

In November, the CFIA began circulating a document containing pertinent information for potential service providers.

"We haven't really taken anything off the table to date," said Scheffel.

"We're going forward with the idea that ... first, second and third party models all have various strengths and weaknesses, but we think we've got some experience working with all three and we believe that we can manage under different ones."

Whatever the model, the transfer will result in greater costs to seed growers.

That's because seed growers will pay for a service that has traditionally been offered through the CFIA at a subsidized rate.

Another concern relates to the quality of service and training.

The CFIA has roughly 80 inspectors on staff and hires another 120 casually.

It's assumed many of those casual inspectors will be hired under the future model, although more will need to be trained.

With only the 2013 growing season remaining, the CFIA is making plans for a major training initiative.

While 20 or 30 inspectors might receive training in a typical year, the CFIA might need to train 50 to 75 in 2013.

"It would be almost better if 2013 and 2014 could be training years and used to get alternative service delivery providers authorized and inspectors licensed ... and then roll it out in 2015," said Adolphe.

"Quality of service is paramount in our minds because that's our reputation." ☞

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“What is the real objective (of the variety registration system)?” Dreger asked.

I think it should encourage investment ... and make us more competitive (but) it should not involve endless quality improvements at the expense of other opportunities.”

“There’s lots of things that we can do to be more nimble, to capture more value and deliver more value to all the people across the value chain without jeopardizing our quality position.”

Dreger said Syngenta and other private breeding companies would like to invest more in Canadian wheat breeding programs, but there are significant risks involved.

Syngenta has been working to develop new wheat varieties for the Canadian marketplace for nearly 40 years and has spent tens of millions of dollars since 1973.

Strict registration criteria have helped Syngenta to develop some outstanding wheat varieties, he added, but return on investment is a concern.

Between 1973 and 2000, the company had three wheat lines registered for commercial production in western Canada.

The company is already conducting a wide range of agronomic, disease resistance and grain quality tests in its own labs, he added.

Duplicating those tests in the variety registration system may not be the most efficient way to use limited financial resources.

“We’re pretty confident that by the time we’re getting something into a third year co-op trial, that it’s a pretty good product that will add value to the market,” Dreger said.

“It is a time of much change (in the grain industry) and you would think that it should be easier than ever to attract



Canada’s variety registration system has helped to build a strong reputation for wheat that is exported to overseas buyers. | FILE PHOTO

investment ... but it’s not.

“There’s a whole lot of risk with uncertainty (involved) with ... breeding investments.”

Elwin Hermanson, chief commissioner with the Canadian Grain Commission, said those advocating change to the variety registration should ensure that end-users are consulted.

Relaxing quality parameters of new wheat lines might result in the commercial release of wheat varieties that offer higher yields, he added.

But yield is not the only consideration. End-use quality also matters.

“It’s the end use customer that has to buy what we grow,” said Hermanson.

“If you grow a crop that yields better but doesn’t have a market, or doesn’t have a market that pays the bills, that’s not going to totally solve the problem.” ☞

A MILLING INDUSTRY PERSPECTIVE

THE CANADIAN National Millers

Association (CNMA), representing millers of wheat, oats and other cereal grains, participated in a discussion panel at the April 2012 Canada Grains Council conference to address the question of whether Canada’s variety registration system is in need of significant change.

A similar panel presented views of plant breeders and technology developers, grain producers, marketers and the regulator, the Canadian Food Inspection Agency at the November 2012 CGC/Grain Growers of Canada symposium.

We learned from both events that our system is already changing substantially.

CNMA highly values the current variety evaluation and registration system that while evolving, continues to preserve the integrity of the Canada Western Red Spring and Canada Western Amber Durum classes.

The vast majority of wheat milled in Canada is purchased by wheat class, grade and protein level including wheat grown in eastern Canada.

By Gordon Harrison
President,
Canadian National Millers
Association



The underpinning of this reliance on the integrity of classes is the requirement of registered varieties to meet or exceed a checklist of characteristics that include food primary and further processing attributes.

Oat millers place greater reliance on purchasing declared registered varieties, also recognized and valued for food end use characteristics.

Canada’s milling industry focus on North American demand is in contrast with that of Canada’s grain producers who are heavily reliant on offshore export markets where end use requirements are more diverse, in some cases outweighed by price competitiveness.

CNMA recognizes that Canadian grain producers want to be in a position to supply all of these markets wherever they can compete and be rewarded for their efforts.

This will require a registration system that accommodates new varieties in grain classes other than traditional milling classes.

Canada’s current variety evaluation and registration system is not out of date.

The system has appropriate mechanisms and ample scope for future market-driven adaptation.

CNMA’s advice remains that Canada’s grain industry and regulators move cautiously to protect the integrity of cereal grain classes that are in demand in high value markets, Canada and the U.S. in particular.

All told, the proposed changes to the CGC are expected to shave \$20 million from the commission's annual operating costs.

At the same time, new fees proposed by the commission could cost farmers and others in the grain industry an additional \$15 million to \$20 million per year by 2018, over and above what they are currently paying.

Those user fee revenues, combined with savings derived from CGC service cuts, will reduce the commission's dependence on ad hoc government support.

"Currently we are highly subsidized by the federal government in the form of ad hoc appropriations," Hermanson said.

"In recent years, those appropriations have exceeded \$30 million annually."

Marlene Caskey, a farmer and director with the Canadian Canola Growers Association, said efforts to streamline the CGC will benefit the grain industry.

But she urged Ottawa to account for the cost of CGC services that benefit the entire Canadian population, not just farmers and others in grain industry.

Under proposed fee increases, the federal government would contribute



The Canadian grain industry has benefited from the work of the Canadian Grain Commission, an organization that ensures Canadian grain quality, maintains standards and supports the reputation of Canadian wheat exports among overseas buyers. But changes are on the horizon and important questions are now being posed about operating costs, CGC governance, user fees, the reduction of services and the value of CGC work that serves the larger public good. | WP PHOTO BY WILLIAM DEKAY

\$5.45 million annually to the grain commission's operating budget, an amount that is neither indexed for inflation nor slated to increase over time.

According to Caskey, that contribution — known as contributions to the public good — would amount to roughly nine percent of the CGC's annual operating budget by 2017-18, while user fees would account for the remaining 91 percent.

"The proposed user fees are

significantly higher than what farmers are currently paying," Caskey said recently.

"While increased user fees don't exactly warm the hearts and cheque books of producers, we are more than willing to pay for services that we believe are beneficial to our success," she added.

"(But) the CCGA's position is that the public good pieces (should account for) closer to 25 percent, rather than the nine percent currently being offered." ☞

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Results of Agriculture Canada 2012 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 2012 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 2012

VARIETY	COMPANY
BW931 Canada Western Red Spring Wheat	Alliance Seed Corp.
BW932 Canada Western Red Spring Wheat	SeCan Association
CH0619 Mung Bean	Legumex Walker Inc.
CH9929n-3 Six-Row Hulled Barley	Synagri SEC
DT813 Canada Western Amber Durum Wheat	Alliance Seed Corp.
GP47 General Purpose Spring Wheat	Alliance Seed Corp.
GP80 General Purpose Spring Wheat	FP Genetics
HW021 Canada Western Hard White Wheat	Alliance Seed Corp.
HY1312 Canada Prairie Spring Wheat	SeCan Association
MP1892 Yellow Pea	Wagon Wheel Seed Corp.
MP1899 Yellow Pea	SeedNet Inc.
MP1900 Yellow Pea	Canseed Canada Ltd.
OX-113 Tofu Soybean	SG Ceresco Inc.
P0609-08 Maple Pea	Wagon Wheel Seed Corp.
PT457 Canada Western Red Spring Wheat	SeCan Association
SWS408 Canada Western Soft White Wheat	SeedNet Inc.
TR09208 Two-Row Malting Barley	Syngenta Canada Inc.
W478 Hard Red Winter Wheat	Seed Depot

No proposals were received/ accepted for the following lines:

- ACUG 10-B1 Black Bean*
- ACUG 10-D3 Dark Red Kidney Bean*
- BW425 Canada Western Red Spring Wheat
- CH0611 Mung Bean*
- CH0616 Mung Bean*
- FP2308 Flax*
- GN13-10-1 Great Northern Bean*
- HR200 Navy Bean
- HR202 Cranberry Bean*
- HR206 Navy Bean*
- HY1603 Canada Prairie Spring Wheat*
- MP1880 Green Pea
- MP1882 Orange Pea
- MP1891 Yellow Pea*
- MP1894 Yellow Pea*
- MP1898 Yellow Pea*
- NA06-002 Navy Bean
- OA1262-1 Covered Spring Oat*
- OT09-03 Oilseed-type Soybean*
- OT08-05 Natto Soybean*
- OX-101 Tofu Soybean
- OX-112 Tofu Soybean*
- S9240M Crested Wheatgrass
- SFD9601 Orchardgrass*
- SFD200102 Orchardgrass*
- SR47-3-3 Small Red Bean*

Please note: Varieties listed on the right and marked with an asterisk will be offered again through the 2013 RFP process.

Canadian Grain Commission Cancellation of Registration

Registration of the following crop varieties is due to be cancelled as of August 1, 2013.

Variety name: **Garnet**

Crop type: Wheat

Class: Canada Western Red Spring (CWRS)

Cancellation date: Aug.1, 2013

Variety name: **CDC Mons**

Crop type: Canada Western Flax

Cancellation date: Aug.1, 2013

Variety name: **CDC Normandy**

Crop type: Canada Western Flax

Cancellation date: Aug.1, 2013

Variety name: **CDC Gold**

Crop type: Canada Western Solin

Cancellation date: Aug.1, 2013

Variety name: **1084**

Crop type: Canada Western Solin

Cancellation date: Aug.1, 2013

Variety name: **2047**

Crop type: Canada Western Solin

Cancellation date: Aug.1, 2013

Variety name: **2090**

Crop type: Canada Western Solin

Cancellation date: Aug.1, 2013

Variety name: **2126**

Crop type: Canada Western Solin

Cancellation date: Aug.1, 2013

Variety name: **2149**

Crop type: Canada Western Solin

Cancellation date: Aug.1, 2013

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Variety Registration Report

The list below contains information on new crop varieties registered between Nov. 1, 2011 and Nov. 1, 2012.

CROP KIND	VARIETY	EXPERIMENTAL NUMBER	REGISTRATION STATUS	REGISTERED DATE
ALFALFA	55H94	07W03CZ, W07CZ78	National Registration	12/1/2011
	55V50	07W06PX, W07PX61	National Registration	12/1/2011
	HYBRIPRO-BR (HYBRID)	msSunstra-807, Hybriforce-807, DS748	National Registration	11/1/2012
	SOLSTICE	CW 35006	National Registration	12/1/2011
	VALID	CW 04027	National Registration	2/17/2012
	VR TOTAL	CW 052036	National Registration	3/8/2012
BARLEY - SIX-ROW	BRETON	BT589, H98082003	National Registration	6/27/2012
BARLEY - TWO-ROW	CDC CLEAR (HULLESS)	HB08304, SH05161	National Registration	3/8/2012
	TR07728	TR07-728, BZ 504-125	National Registration	2/14/2012
	CDC MAVERICK (FORAGE TYPE)	FB205, SB060176	National Registration	12/20/2011
	AAC SYNERGY	TR09208, BM0215-189-1	National Registration	05/31/2012
BEAN - GREAT NORTHERN TYPE	AAC TUNDRA	L06E613	National Registration	3/8/2012
BEAN - NAVY TYPE	OAC SPARK	OAC 05-1	National Registration	5/8/2012
BROMEGRASS - SMOOTH	YORK	NY86-B	National Registration	4/23/2012
CANOLA - BRASSICA NAPUS (HYBRID)	1012 RR (HYBRID)	152950, G152950H	National Registration	2/17/2012
	1016 RR (HYBRID)	152936, G152936H	National Registration	2/17/2012
	1999 (HYBRID)	G99402	Interim Registration (3 years)	3/13/2012
	2016 CL (HYBRID)	166102, CL166102H	National Registration	2/17/2012
	4300 (HYBRID)	09N301R	National Registration	3/13/2012
	45554 (HYBRID)	10N186R	National Registration	3/13/2012
	6050 RR (HYBRID)	G98022	National Registration	9/26/2012
	6056 CR (HYBRID)	10DL30519	National Registration	5/31/2012
	74-44 BL (HYBRID)	G98689	Interim Registration (3 years)	3/13/2012
	74-47 CR (HYBRID)	G08039	Interim Registration (3 years)	3/13/2012
	D3154S (HYBRID)	10N201R	National Registration	3/19/2012
	G99010 (HYBRID)	G99010	National Registration	9/26/2012
	G99396 (HYBRID)	G99396	Interim Registration (3 years)	3/13/2012
	L135C (HYBRID)	OCN0285	National Registration	8/13/2012
	V1050 (HYBRID)	09H6030LL	Interim Registration (3 years)	4/4/2012
	V2045 (HYBRID)	08H1134	National Registration	6/13/2012
	CANOLA - BRASSICA NAPUS	RED RIVER 1861	RRHR8706	Contract Registration
CLOVER - RED, DOUBLE CUT	SCARLETT II	RC12	National Registration	9/17/2012
	WILDCAT	RC 28	National Registration	3/20/2012
FESCUE - TALL, FORAGE TYPE	YUKON	FTF-08-01	National Registration	9/12/2012
FLAX	AAC BRAVO	FP2270	National Registration	7/13/2012
	CDC GLAS	FP2300	National Registration	1/4/2012
LENTIL	CDC ASTERIX	2861a-15	National Registration	8/10/2012
	CDC QG-1	3056-12	National Registration	4/4/2012
	CDC ROSIE	3155-18	National Registration	8/10/2012
	CDC SB-2	3097-7	National Registration	8/10/2012
	CDC SCARLET	3160-21	National Registration	8/10/2012
PEA - GREEN	CDC LIMERICK	CDC 2336-1	National Registration	4/23/2012
PEA - YELLOW	AAC PEACE RIVER	MP1864	National Registration	3/28/2012
	ABARTH	LN4206	National Registration	1/25/2012
	CDC AMARILLO	CDC 2462-30	National Registration	4/23/2012
OAT	STRIDE	OT2069, 04P08-CZ3C	National Registration	4/23/2012
ORCHARDGRASS	PROPER	Profit	National Registration	4/23/2012
TIMOTHY	CREST	TM0102	National Registration	4/23/2012
WHEAT - DURUM	CDC VIVID	DT562	Regional Registration	6/27/2012
WHEAT - SPRING	AAC BAILEY	BW901, B0203-KE02B	Regional Registration	6/7/2012
	AAC REDWATER	PT457, 02B08-CE1C	Regional Registration	8/13/2012
	CDC PLENTIFUL	PT580	Regional Registration	1/4/2012
	CDC VR MORRIS	BW423	Regional Registration	1/4/2012
	ENCHANT	HY694, 05W1436 (will be used for varietal blend)	Regional Registration	1/26/2012
	SY 433	BW 433, 02S2009-2	Regional Registration	5/22/2012
	WHITEHAWK	HW024, 02V29-BV4E	Regional Registration	5/22/2012
WHEAT - WINTER	AAC GATEWAY	W478, LG813	Regional Registration	11/1/2012
	EMERSON	W454, LF1313	Regional Registration	11/1/2012
	PINTAIL	00H050, W460	Regional Registration	4/23/2012
WHEATGRASS - CRESTED	NEWKIRK	S9489	National Registration	2/17/2012

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Prairie Grain Development Committee

2012 Recommendations

The Prairie Grain Development Committee (PGDC), formerly known as the Prairie Registration Recommending Committee for Grain (PRRCG), facilitates the exchange of information relevant to the development of improved cultivars of grain crops for the Canadian Prairies. In 2012, the committee recommended the following lines for registration.

Barley

AAC Synergy (Experimental name TR09208) – Two row malting barley proposed by W.G. Legge. Affiliation: Brandon Research Centre, Agriculture and Agri-Food Canada, Brandon, Man.

Breton (Experimental name BT589) – Six-row general purpose barley proposed by J.M. Nyachiro, J.H. Helm, P. Juskiw, K. Xi and T.K. Turkington. Affiliation: Field Crop Development Centre, Alberta Agriculture and Rural Development, Lacombe, Alta.

Voyager (Experimental name TR09402) – Two row malting barley proposed by Gary Haning and Joshua Butler. Affiliation: Busch Agricultural Resources, LLC, Ft. Collins, Colo.

Beans

1190m-13 – This navy bean line combines high yield with early maturity and indeterminate growth habit. 1190m-13 would be suitable in the irrigated regions of Saskatchewan, as well as dryland production in eastern Saskatchewan and western Manitoba. 1190m-13 is higher yielding than the check, Envoy. It has improved pod clearance relative to Envoy and fewer hard seeds. 1190m-13 has a better white mould rating compared to Envoy but is susceptible to anthracnose races 73 and 1096. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

2537-12 – This is a pinto bean line with high yield, plump seeds, early maturity and tolerance to anthracnose races 73 and 105. This line appears to be best adapted to the southeast area of Saskatchewan and probably into western Manitoba. 2537-12 yielded 114 percent more than the average of the check pinto varieties, CDC Pintium, Winchester and CDC Minto. The early maturing line has a similar maturity to CDC Pintium, better pod clearance than CDC Minto and Winchester, and good lodging scores, similar to the checks. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

GN13-10-1 – This is a high-yielding great northern bean line with upright indeterminate growth habit and good seed quality. GN13-10-1 is adapted to the Red River Valley of Manitoba. Over 10 site years, the average yield of GN13-10-1 was 104 percent of the check, Beryl. The average seed weight of GN13-10-1 is significantly heavier than Beryl and the average seed quality rating is also better. The plant height of GN13-10-1 is significantly taller than Beryl providing good pod clearance. Similar to Beryl, GN13-10-1 is susceptible to white mould, anthracnose races

73 and 105, and common bacterial blight. Developed by Agriculture and Agri-Food Canada, Morden, Man., in co-operation with AAFC-Lethbridge, Alta.

ND-307 – This is a medium-early maturing pinto bean line with good seed size, shape and appearance. Seed is uniform in size, slightly larger than that of the check variety Maverick and similar in appearance. ND-307 has excellent seed quality, good seed weight and good synchronous plant dry down, with pods and plants maturing concurrently. ND-307 is resistant to beans common mosaic virus and bean rust but is susceptible to white mould and anthracnose, as are the check varieties. ND-307 is erect in some environments, but in very productive environments will exhibit a more prostrate growth habit, similar to Maverick. Developed by Juan Osorno, North Dakota State University.

OAC 05-1 – This is a navy bean line with excellent yield and maturity. OAC 05-01 is higher yielding than the check Envoy. The plant height of OAC 05-1 is shorter than Envoy, but the line has improved pod clearance and a determinate growth habit. OAC 05-01 has resistance to both races of anthracnose tested, race 73 and race 105. The line would be targeted at the Manitoba escarpment area and into southeastern Saskatchewan. A sample of this variety was canned at Premier Foods and was found to be acceptable for canning. Developed by the University of Guelph.

SR47-3-3 – This is a high-yielding small red bean line with good seed quality, partially upright indeterminate growth habit and early maturity. SR47-3-3 is adapted to the Red River Valley of Manitoba. The average yield of SR47-3-3 over 10 station years was 112 percent of the check variety, AC Earlired. The maturity of SR47-3-3 is similar to AC Earlired. The average seed weight is significantly higher than Earlired but with a similar seed quality rating. Similar to AC Earlired, SR47-3-3 is susceptible to white mould, common bacterial blight and anthracnose races 73 and 105. Developed by Agriculture and Agri-Food Canada, Morden, Man., in co-operation with AAFC Lethbridge, Alta.

Stampede – This pinto bean line is medium-early maturing and high yielding with very good seed size, shape and appearance. The seed is uniform in size, slightly larger than that of the check variety, Maverick, and of similar appearance. Stampede has an upright growth habit with good lodging resistance. It exhibits good synchronous plant dry down prior to harvest, with pods and plants maturing concurrently. The plant structure is erect with pods dispersed throughout the canopy, compared to other

pinto cultivars. The improved plant structure, combined with its synchronous dry down, suggests that Stampede may be suitable for direct harvest, given appropriate equipment and operator care. Stampede is resistant to beans common mosaic virus and bean rust but susceptible to white mould, as are the check varieties. Developed by Juan Osorno, North Dakota State University.

Flax

FP 2308 – Agriculture and Agri-Food Canada, Morden, Man.

FP 2314 – Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

FP 2325 – Viterra, Regina, Sask.

Lentils

3305-7 – This high yielding green lentil line is similar to CDC LeMay, a French green lentil. 3305-7 has improved lodging tolerance and is taller than CDC LeMay, resulting in improved harvestability. The seed coat and seed dimensions of 3305-7 are similar to those of CDC LeMay. This line represents an addition to the specialty green cotyledon market class, specifically for dehulling. 3305-6 has similar maturity compared to other lentil cultivars and similar disease resistance to CDC LeMay. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

Oats

OT3054 – Milling oat proposed by A.D. Beattie, B.G. Rossnagel and T. Zatorski. Affiliation: University of Saskatchewan, Crop Development Centre, Saskatoon, Sask.

OT3056 – Milling oat proposed by A.D. Beattie, B.G. Rossnagel and T. Zatorski. Affiliation: University of Saskatchewan, Crop Development Centre, Saskatoon, Sask.

OT4001R – Milling oat proposed by Erin Armstrong. Affiliation: Canterra Seeds, Winnipeg, Man.

Peas

CDC 2351-3 – This is a yellow cotyledon, semi-leafless field pea variety with improved yield potential compared to the mean of the yellow checks, Cutlass and CDC Golden. This line has improved lodging resistance and longer vine length than the checks, which increased competitiveness. Percent seed coat breakage and cooking time are similar to the check cultivars. CDC 2351-3 is resistant to powdery mildew. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

CDC 2472-4 – This is a green cotyledon, semi-leafless field pea variety with good yield. It yielded 103 percent compared to the mean of the green check varieties, CDC Striker and Cooper. This line has good lodging resistance and medium vine length, which results in increased competitiveness. CDC 2472-4 has a round seed shape, low seed coat breakage and a moderate protein concentration. It is powdery mildew resistant, with good fusarium wilt resistance, similar to CDC Striker and better than Cooper. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

CDC 2462-18 – This is a yellow cotyledon, semi-leafless field pea variety with improved yield compared to the mean of the yellow checks, Cutlass and CDC Golden. The line has good lodging resistance, better than the checks. The

medium vine length is longer than the check varieties, resulting in increased competitiveness. Seed weight, percent seed coat breakage and cooking time are similar to the check cultivars. CDC 2462-18 is powdery mildew resistant. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

CDC 2648-21 – This is a yellow cotyledon, semi-leafless field pea with significantly improved yield potential compared to the check varieties, Cutlass and CDC Golden. Lodging resistance is better than the checks. The vine length is longer than the checks, resulting in increased competitiveness. The seed weight, seed shape and seed coat breakage are similar to the check varieties. CDC 2648-21 is powdery mildew resistant. Developed by the Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

LN 1115 – This is a green cotyledon pea with an improved yield potential over the checks, CDC Striker and Cooper. The green colour intensity and bleaching resistance are similar to the check cultivars. This line is similar in height to CDC Striker, but matures earlier and is resistant to powdery mildew. Developed by Limagrain Nederland BV, The Netherlands.

MP1891 – This is a yellow cotyledon pea with good yield potential and large seed size. MP1891 yield is nine percent higher than CDC Golden and 17 percent higher than Cutlass over 19 station years. MP1891 is similar in maturity to the check varieties and has a lodging score similar to the checks. Seed protein content is slightly lower than the check varieties. MP1891 is resistant to powdery mildew. Developed by Agriculture and Agri-Food Canada, Lacombe, Alta.

MP1892 – This is a yellow cotyledon pea with significantly higher yield potential than the checks, 12 percent higher than CDC Golden and 18 percent higher than Cutlass over 15 station years. MP1892 has significantly better lodging resistance than the check varieties. The seed size of MP1892 is significantly larger than the check varieties. MP1892 is one or two days later maturing than the check varieties with slightly lower protein content. MP1892 is resistant to powdery mildew. Developed by Agriculture and Agri-Food Canada, Lacombe, Alta.

MP1894 – This is a yellow cotyledon pea with good yields, seven percent higher than CDC Golden and 13 percent higher than Cutlass over 15 station years. MP1894 is slightly taller than the check varieties but has lower lodging scores than the check varieties. MP1894 is slightly longer maturing than the check varieties and is resistant to powdery mildew. Developed by Agriculture and Agri-Food Canada, Lacombe, Alta.

MP1898 – This is a high yielding yellow cotyledon pea with significantly longer vine length than the yellow check varieties, CDC Golden and Cutlass, and better lodging scores than the checks. The seed size of MP1898 is significantly larger than the check varieties. The maturity of MP1898 is three to four days later than the check varieties. MP1898 is powdery mildew resistant. Developed by Agriculture and Agri-Food Canada, Lacombe, Alta.

MP1899 – This is a yellow cotyledon pea exhibiting larger seed size and greater yield potential than both of the yellow check varieties. Yield was 18 percent higher than CDC Golden and 26 percent higher than Cutlass over 19 station years. The lodging resistance rating for MP1899 is significantly better than the check cultivars. Protein content is significantly lower than the check varieties and the line is one to two days later maturing than the check varieties. MP1899 is powdery mildew resistant but is more susceptible to fusarium wilt than the check varieties. The fusarium wilt score of MP1899 was particularly high in 2010 at 52.3 percent, compared to 21.7 percent in 2011. Developed by Agriculture and Agri-Food Canada, Lacombe, Alta.

MP1900 – This is a high yielding yellow cotyledon pea with similar height and significantly better lodging resistance than both of the yellow check varieties, CDC Golden and Cutlass. MP1900 is one to two days earlier maturing than the check varieties and the seed size is significantly larger. MP1900 has significantly lower protein content than the check varieties. The line is powdery mildew resistant. Developed by Agriculture and Agri-Food Canada, Lacombe, Alta.

Spelt

04SPELT49 – Spring spelt line. Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

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Wheat

1303-132-2 – Canada Western General Purpose line (CWGP). Winter variety. University of Manitoba.

BW918 – Canada Western Red Spring line (CWRS). Syngenta

BW931 – Canada Western Red Spring line (CWRS). Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Research Centre, Swift Current, Sask.

BW932 – Canada Western Red Spring line (CWRS). Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Research Centre, Swift Current, Sask.

DT561 – Canada Western Amber Durum line (CWAD). Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

DT562 – Canada Western Amber Durum line (CWAD). Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

DT813 – Canada Western Amber Durum line (CWAD). Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Research Centre, Swift Current, Sask.

DT818 – Canada Western Amber Durum line (CWAD). Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Research Centre, Swift Current, Sask.

GP062 – Canada Western General Purpose line (CWGP). Spring variety. Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

GP080 – Canada Western General Purpose line (CWGP). Spring variety. Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, Alta.

HW021 – Canada Western Hard White Spring line (CWHWS). Agriculture and Agri-Food Canada, Cereal Research Centre, Winnipeg, Man.

HW024 – Canada Western Hard White Spring line (CWHWS). Registered as Whitehawk (PBR). Agriculture and Agri-Food Canada, Cereal Research Centre, Winnipeg, Man.

HW612 – Canada Western Hard White Spring line (CWHWS). Crop Development Centre, University of Saskatchewan, Saskatoon, Sask.

HY1312 – Canada Prairie Spring Red line (CPSR). Agriculture and Agri-Food Canada, Semiarid Prairie Agricultural Research Centre, Swift Current, Sask.

HY1603 – Canada Prairie Spring Red line (CPSR). Agriculture and Agri-Food Canada, Cereal Research Centre, Winnipeg, Man.

PT457 – Canada Western Red Spring line (CWRS). Agriculture and Agri-Food Canada, Cereal Research Centre, Winnipeg, Man.

SWS408 – Canada Western Soft White Spring line (CWSWS). Agriculture and Agri-Food Canada, Lethbridge Research Centre.

W478 – Canada Western Red Winter line (CWRW). Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, Alta.

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. 1, 2012. CSGA assumes no responsibility for errors or omissions.

The pedigreed class code is listed after the grower's phone number. S = Select; F = Foundation; R = Registered; C = Certified.

ALFALFA

3010

Brett-Young Seeds Limited St. Norbert, MB (204)-261-7932 C
4010BR

Brett-Young Seeds Limited St. Norbert, MB (204)-261-7932 C
4030

Brett-Young Seeds Limited St. Norbert, MB (204)-261-7932 F C
Ratzlaff, Andrew Kenneth Carrot River, SK (306)-768-2874 C
55V12

Pioneer Hi-Bred International Inc. Lethbridge, AB (403)-327-6135 C
55V48

Pioneer Hi-Bred International Inc. Lethbridge, AB (403)-327-6135 C
ABLE

Pickseed Canada Inc. Winnipeg, MB (204)-633-0088 C
ADRENALIN

Strasser, Alan Nipawin, SK (306)-768-2877 C
ALGONQUIN

Ag Vision Seeds Ltd. Carrot River, SK (306)-768-3335 C
Aitken, Robert Eyebrow, SK (306)-759-2700 C
Bueckert, Phil Eyebrow, SK (306)-759-2076 C
LeBras, Mart & Evan Arborfield, SK (306)-769-8506 C
Nicklen, Gregory Carrot River, SK (306)-768-2251 C
Nicklen, Jared Carrot River, SK (306)-768-3136 C
Wildeman, Maurice Don Lanigan, SK (306)-365-4395 C
DAKOTA

Northstar Seed Ltd. Neepawa, MB (204)-476-5241 C
EQUINOX

Viterra Regina, SK (306)-569-5027 C
EVERMORE

Meier, Garry L. Ridgedale, SK (306)-277-2110 C
FORCE

Northstar Seed Ltd. Neepawa, MB (204)-476-5241 C
LEADER

Pickseed Canada Inc. Winnipeg, MB (204)-633-0088 F C
MAGNUM VI WET

Dairyland Seed Co. Homedale, ID (208)-772-2465 C
Gunther, Lance Blaine Lanigan, SK (306)-365-4231 C
MATRIX

Interlake Forage Seeds Ltd. Fisher Branch, MB (204)-372-6920 C
PHABULOUS

Lalonde, Lucien Zenon Park, SK (306)-767-2293 C
PICKSEED 2065MF

Pickseed Canada Inc. Winnipeg, MB (204)-633-0088 C
PICKSEED 3006

Pickseed Canada Inc. Winnipeg, MB (204)-633-0088 C
QWEST

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RHINO

Northstar Seed Ltd. Neepawa, MB (204)-476-5241 C
RUNNER

Northstar Seed Ltd. Neepawa, MB (204)-476-5241 C
Toman, Fred Guernsey, SK (306)-365-4215 C
SPREDOR 4

Viterra Regina, SK (306)-569-5027 C
VISION

Pickseed Canada Inc. Winnipeg, MB (204)-633-0088 C

BARLEY

AAC SYNERGY

Syngenta Canada Inc., Melfort, SK (306)-752-5397 S

AC METCALFE

Altwasser, Rodney, Allen R. & Dean Yellow Grass, SK (306)-465-2727 C
Berscheid, K.N., B., E.K., S., C. & Y. Lake Lenore, SK (306)-368-2602 C

Beuker, Allan Daniel Melfort, SK (306)-752-4810 R
Booy, Jerry N., Murray T. & Darcy K. Glaslyn, SK (306)-342-2058 C
Boyd, Clare W. & Dale A. Melfort, SK (306)-752-2108 C

Dangstorp, Brian & Perry Redvers, SK (306)-452-3443 R
Edmunds, Greg & Glen Tisdale, SK (306)-873-5480 C

Edwards, Lawrence R., Donna, Jeff & Mike Nokomis, SK (306)-528-2140 C
Ennis, Garnet & Neil Glenavon, SK (306)-429-2793 C

Etter, James Raymond Richardson, SK (306)-757-1136 R
Fedoruk, Rod M. & Cathy Kamsack, SK (306)-542-4235 R

Floberg, Barry, Delana, Devin & Brandon Shaunavon, SK (306)-297-2087 R
Fraser, Scott & Shawn Pambrun, SK (306)-582-2148 C

Frederick, Blaine Watson, SK (306)-287-3977 R C
Gilmour, Ronald W. Craik, SK (306)-734-2727 C

Girodat, Gerald Shaunavon, SK (306)-297-2563 R
Greenshields, Grant & Jim & Callie Semans, SK (306)-524-2155 R

Hanmer, Ronald F., Kent, Brad & Dallas Govan, SK (306)-484-4327 R
Hardy, Allan W. & Dale & Evan Grenfell, SK (306)-697-3128 C

Heavin, G. Harvey & G. Ryan Melfort, SK (306)-752-4171 F
Heggie, Robert Thomas Leross, SK (306)-675-4920 R

Herle, Gregory R. Wilkie, SK (306)-843-2934 C
Hetland, Bill Naicam, SK (306)-874-5694 C

Hleck, Lloyd G. Nipawin, SK (306)-862-2155 C
Hyland, Thomas Francis Scott, SK (306)-247-2086 C

Johnson, Oscar Stuart Margo, SK (306)-324-4315 C
Jones, Bradley & Wanda Wadena, SK (306)-338-2381 R C

Kennett, Brian Guy Manor, SK (306)-448-4813 C
Larsen, Lyle L. Aylisham, SK (306)-862-7333 R C

Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Wynyard, SK (306)-554-2078 C
Luck, Lorne C. & Landis Tisdale, SK (306)-873-4111 C

Lung Seeds Ltd. Lake Lenore, SK (306)-368-2414 R
Lutzer, Albert & Latrace, Jim Lumsden, SK (306)-586-0177 C

Medernach, Louis J. & Kim L. Cudworth, SK (306)-256-3398 C
Meyer, Ward Lake Lenore, SK (306)-368-2635 C

Novak, Orrin Kuroki, SK (306)-338-2021 S F C
Nystuen, David G. Spalding, SK (306)-872-2183 F R C

Ostafie, Dave & Robert Canora, SK (306)-563-6244 R
Pastl, Glenn A. Watson, SK (306)-287-4243 C

Pratchler, John & Leander Muenster, SK (306)-682-3317 R C
Reavie, Robert Dixon Arborfield, SK (306)-769-8887 C

Rempel, Blair Allan Nipawin, SK (306)-862-3573 C
Seidle, E., B., C. & M. Medstead, SK (306)-342-4377 R C

Sperle, Bentley D. & Jody Unity, SK (306)-228-3160 R
Trowell, Kenneth, Larry & Nathan Saltcoats, SK (306)-744-2687 R

Warrington, John Mervin, SK (306)-845-2642 C
Wiens, Brennan R. Herschel, SK (306)-377-2002 C

Woroschuk, Andrew Calder, SK (306)-742-4682 C
Wylie, Leslie Dale Biggar, SK (306)-948-2807 C
Youzwa, Donald Nipawin, SK (306)-862-5690 R C

Zwingli, James Trent & Shelley Melfort, SK (306)-752-4224 R
AC RANGER - SIX ROW

Cay, Randy C. Kinistino, SK (306)-864-3696 C

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Ardell, Terrence, Michael, & Joanne	Vanscoy, SK	(306)-668-4415 S	R
Kerber, Greg	Rosthern, SK	(306)-232-4474	C
Larsen, Lyle L.	Aylsham, SK	(306)-862-7333 S	C
Trawin, Brent John	Melfort, SK	(306)-752-4060	R
Van Burck, Hans & Marianne	Star City, SK	(306)-863-4377 S	C
CDC CARTER - TWO ROW HULLESS			
Pender, Joseph M.	Saskatoon, SK	(306)-374-4933 S	
CDC COPELAND			
Ardell, Terrence, Michael, & Joann	Vanscoy, SK	(306)-668-4415 S	R
Berscheid, K.N., B., E.K., S., C. & Y.	Lake Lenore, SK	(306)-368-2602	R
Boyd, Clare W. & Dale A.	Melfort, SK	(306)-752-2108	C
Boyd, William R. & Regan	Eston, SK	(306)-962-3526	R
Denis, Michel P. & Marc	St. Denis, SK	(306)-258-2219	C
Dutton, David H. & George	Paynton, SK	(306)-895-4306	C
Frederick, Blaine	Watson, SK	(306)-287-3977	R
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose, SK	(306)-378-7828	C
Gellner, Clayton S.	Southey, SK	(306)-726-4323	R
Heggie, Kyle Robert	Leross, SK	(306)-675-4920	R
Hettand, Bill	Naicam, SK	(306)-874-5694	R
Johnson, Oscar Stuart	Margo, SK	(306)-324-4315	C
Kennett, Brian Guy	Manor, SK	(306)-448-4813	R
Labrecque, Roger	Saskatoon, SK	(306)-373-9379	R
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177	C
Mayerle, Bernhard C.	Tisdale, SK	(306)-873-4267	R
McCarthy, Richard J. & Brent	Corning, SK	(306)-224-4848	R
Medernach, Louis J. & Kim L.	Cudworth, SK	(306)-256-3398	C
Murray, Ross	Young, SK	(306)-259-4982	C
Novak, Orrin	Kuroki, SK	(306)-338-2021	C
Redman, Wayne G. & Collin M.	Margo, SK	(306)-324-4235	R
Rude, Stanley	Naicam, SK	(306)-874-2359	C
Rugg, Barry C. & Robert B.	Elstow, SK	(306)-257-3638	C
Sandercock, Eric M.	Balcarres, SK	(306)-334-2958	C
Seidle, E., B., C. & M.	Medstead, SK	(306)-342-4377	R
Shewchuk, Stan, Lorne, Terry, Adam & Michael	Blaine Lake, SK	(306)-497-3503	C
Trawin, Brent John	Melfort, SK	(306)-752-4060 S	F
Trowell, Kenneth, Larry & Nathan	Saltcoats, SK	(306)-744-2687	R
Van Burck, Hans & Marianne	Star City, SK	(306)-863-4377 S	F
Wakefield, Kristopher, Laurie G. & Monica	Maidstone, SK	(306)-893-2984	C
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811	R
Woroschuk, Andrew	Calder, SK	(306)-742-4682	C
Wylie, Leslie Dale	Biggar, SK	(306)-948-2807	R
Yauck, Kevin Rodney	Govan, SK	(306)-484-4555	C
Zwingli, James Trent & Shelley	Melfort, SK	(306)-752-4224	C
CDC COWBOY			
Ardell, Terrence, Michael, & Joann	Vanscoy, SK	(306)-668-4415	R
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CDC KINDERSLEY			
Fritzler, Baine A., Brenda D. & Adam A.	Govan, SK	(306)-484-2010 S	F
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 Van Burck, Hans & Marianne Star City, SK (306)-863-4377 C

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 Boyes, Douglas John Kelvington, SK (306)-327-4980 C
 Cay, Susan M. Kinistino, SK (306)-864-3696 C
 Dangstorp, Brian & Perry Redvers, SK (306)-452-3443 R
 Denis, Michel P. & Marc St. Denis, SK (306)-258-2219 C
 Dutton, David H. & George Paynton, SK (306)-895-4306 C
 Edmunds, Greg & Glen Tisdale, SK (306)-873-5480 C
 Fedoruk, Michael J. Kamsack, SK (306)-542-4235 R
 Fedoruk, Rod M. & Cathy Kamsack, SK (306)-542-4235 S
 Fraser, Edward H., Glen & Dale Yarbo, SK (306)-745-3830 C
 Fraser, Scott & Shawn Pambrun, SK (306)-582-2148 C

Friesen, Greg & Brea; Leavins, Brent & Betty Mae Elrose, SK (306)-378-7828 R
 Fritzier, Baine A., Brenda D. & Adam A. Govan, SK (306)-484-2010 R
 Gellner, Clayton S. Southey, SK (306)-726-4323 R C
 Greenshields, Grant & Jim & Callie Semans, SK (306)-524-2155 R
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 Heavin, Larry N. & L. Warren Melfort, SK (306)-752-4020 S F
 Johnson, Oscar Stuart Margo, SK (306)-324-4315 C
 Jones, Bradley & Wanda Wadena, SK (306)-338-2381 S F
 Labrecque, Roger Saskatoon, SK (306)-373-9379 R C

Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Wynyard, SK (306)-554-2078 S R
 Lung Seeds Ltd. Lake Lenore, SK (306)-368-2414 F
 Lutzer, Albert & Latrace, Jim Lumsden, SK (306)-586-0177 C
 Mayerle, Kris Tisdale, SK (306)-873-4261 C
 Medernach, Louis J. & Kim L. Cudworth, SK (306)-256-3398 C
 Novak, Orrin Kuroki, SK (306)-338-2021 C

Olson, Lyndon, Lynnell, Alica & Bryon Archerwill, SK (306)-323-4912 C
 Ostafie, Dave & Robert Canora, SK (306)-563-6244 F
 Pratchler, John & Leander Muenster, SK (306)-682-3317 C
 Redman, Wayne G. & Collin M. Margo, SK (306)-324-4235 C
 Rude, Stanley Naicam, SK (306)-874-2359 C
 Rugg, Barry C. & Robert B. Elstow, SK (306)-257-3638 S F
 Sandercock, Eric M. Balcarres, SK (306)-334-2958 R

Seymour, Glen Patrick, Donne, Kyle, & Kelly Stewart Valley, SK (306)-778-2344 C
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 Sopatyk, Jeffery & Patti Saskatoon, SK (306)-227-7867 R
 South, Winston, Richard & Bradley Melfort, SK (306)-752-9840 S F
 Stokke, Shane T. Watrous, SK (306)-946-4044 C
 Thompson, Jan Harris Naicam, SK (306)-874-5407 S C
 Toman, Fred Guernsey, SK (306)-365-4215 C
 Tomtene, Steven & Slind, Daniel Birch Hills, SK (306)-749-3447 F
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 Trowell, Leslie Saltcoats, SK (306)-744-2684 F R
 Van Burck, Hans & Marianne Star City, SK (306)-863-4377 S C

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Tomtene, Steven & Slind, Daniel	Birch Hills, SK	(306)-749-3447	R

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Cay, Randy D.	Kinistino, SK	(306)-864-3696	C
Fedoruk, Rod M. & Cathy	Kamsack, SK	(306)-542-4235	F
Fenton, Gerald S. & Robin Paul	Tisdale, SK	(306)-873-5438	R
Hetland, Bill	Naicam, SK	(306)-874-5694	S R C
Tomtene, Steven & Slind, Daniel	Birch Hills, SK	(306)-749-3447	C
Van Burck, Hans & Marianne	Star City, SK	(306)-863-4377	C

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Kasko, F. John	Prince Albert, SK	(306)-764-2875	R
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649	R
Sperle, Bentley D. & Jody	Unity, SK	(306)-228-3160	S F
Tomtene, Steven & Slind, Daniel	Birch Hills, SK	(306)-749-3447	S F R
Viterra	Regina, SK	(306)-569-5027	R C

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Hardy, Allan W. & Dale & Evan	Grenfell, SK	(306)-697-3128	C
Hyndman, Neil S.	Balcarres, SK	(306)-334-2914	C
McCarthy, Richard J. & Brent	Corning, SK	(306)-224-4848	C
Ostafie, Dave & Robert	Canora, SK	(306)-563-6244	F
Trawin, John	Melfort, SK	(306)-752-4060	C
Trowell, Leslie	Saltcoats, SK	(306)-744-2684	F R
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Latrace, Bill	Caronport, SK	(306)-693-2626	C
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177	C

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McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649 S	
Moen, Jim	Cabri, SK	(306)-587-2214 S	
Reisner, Cecil & Barry	Limerick, SK	(306)-263-2139 S F	
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Mattus, Ronald	Chaplin, SK	(306)-395-2652	C
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649	S F R C
Nakonechny, Donald, Coral & Lance	Ruthilda, SK	(306)-932-4409	F R C
Palmier, Maurice	Lafleche, SK	(306)-472-5917	C
Petruic, Cameron L., Judy & Nick	Avonlea, SK	(306)-868-2294	S F
Printz, Gerald & Kurt	Gravelbourg, SK	(306)-648-3511	C
Reisner, Cecil & Barry	Limerick, SK	(306)-263-2139	R C
Renwick, Douglas Dale	Milestone, SK	(306)-436-4418	R
Rugg, Barry C. & Robert B.	Elstow, SK	(306)-257-3638	C
Schmeling, Donald H.	Riceton, SK	(306)-530-1052	R
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley, SK	(306)-778-2344	S
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Simpson, John W.	Moose Jaw, SK	(306)-693-9402	C
Smith, Ron T.W. & Barb A.	Limerick, SK	(306)-263-4944	R
Smith, Wayne D.	Limerick, SK	(306)-263-4944	R
Sopatyk, Jeffery & Patti	Saskatoon, SK	(306)-227-7867	R C
Stauber, Clayton & Lori	Stewart Valley, SK	(306)-773-7907	C
Stirton, Brian James	Moose Jaw, SK	(306)-693-2310	C
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Schmeling, Donald H.	Riceton, SK	(306)-530-1052	R
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Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	(306)-694-2981	C
Mattus, Ronald	Chaplin, SK	(306)-395-2652	C
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649	S F R
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Rogg, Paul A.	Pennant, SK	(306)-626-3236	R
Schmeling, Donald H.	Riceton, SK	(306)-530-1052	R
Simpson, Jamie P.	Moose Jaw, SK	(306)-693-9402	S F R
Smith, Ron T.W. & Barb A.	Limerick, SK	(306)-263-4944	R
Smith, Wayne D.	Limerick, SK	(306)-263-4944	R
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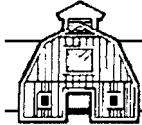
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Girodat, Gerald

Shaunavon, SK

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Rosetown, SK

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CDC RUBY

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CDC SB-1

Simpson, Jamie P.

Moose Jaw, SK

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C

CDC SB-2

Simpson, Jamie P.

Moose Jaw, SK

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F R

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Marcil, Harvey G. & Brent Louis
Mattus, Ronald
Moen, Jim
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Straub, Lorne A.

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Klemmer, Richard
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Lepp, Milton & Elden;
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Blaine Lake, SK

Blaine Lake, SK

(306)-497-3503

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Trawin, Debra Ann

Melfort, SK

(306)-752-4060

R

Trawin, John

Melfort, SK

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Trowell, Kenneth, Larry & Nathan

Saltcoats, SK

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Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811	R	C
Zwingli, James Trent & Shelley	Melfort, SK	(306)-752-4224	R	C
CDC BALER				
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Lueke, Dennis	Humboldt, SK	(306)-682-5170	R	
Trawin, John	Melfort, SK	(306)-752-4060	R	
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CDC DANCER				
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Heggie, Kyle Robert	Leross, SK	(306)-675-4920		C
Jones, Bradley & Wanda	Wadena, SK	(306)-338-2381	R	
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill, SK	(306)-323-4912	F	R
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Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811 S	

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Klym, Roy	Regina, SK	(306)-543-5052	C
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Trowell, Leslie	Saltcoats, SK	(306)-744-2684	R

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Cay, Susan M.	Kinistino, SK	(306)-864-3696 S	

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McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649 S	
Moen, Jim	Cabri, SK	(306)-587-2214 S	
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Fowler, Edith	Central Butte, SK	(306)-796-4652	C
Heggie, Kyle Robert	Leross, SK	(306)-675-4920	R
Larsen, Lyle L.	Aylsham, SK	(306)-862-7333	C

Rempel, Blair Allan	Nipawin, SK	(306)-862-3573	R
Tebbutt, Gregg	Nipawin, SK	(306)-862-9730	R
Van Burck, Hans & Marianne	Star City, SK	(306)-863-4377	R
CDC DAKOTA - GREEN			
Dutton, David H. & George	Paynton, SK	(306)-895-4306	R
CDC GOLDEN - YELLOW			
Allan, John Garth	Corning, SK	(306)-457-2629	F R C
Allan, John Richard	Corning, SK	(306)-457-2629	C
Amos, K. Wayne	Oxbow, SK	(306)-483-2963	C
Girodat, Gerald	Shaunavon, SK	(306)-297-2563	C
Klym, Roy	Regina, SK	(306)-543-5052	C
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649	C
Palmier, Maurice	Lafleche, SK	(306)-472-5917	C
Reisner, Cecil & Barry	Limerick, SK	(306)-263-2139	R C
Tomtene, Steven & Siind, Daniel	Birch Hills, SK	(306)-749-3447	C
CDC HORIZON - FORAGE			
Van Burck, Hans & Marianne	Star City, SK	(306)-863-4377	S F
CDC HORNET - YELLOW			
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown, SK	(306)-882-2058	R
Simpson, Greg J.	Moose Jaw, SK	(306)-693-9402	C
CDC LEROY - FORAGE			
Van Burck, Hans & Marianne	Star City, SK	(306)-863-4377	C
CDC LIMERICK - GREEN			
Ardell, Terrence, Michael, & Joann	Vanscoy, SK	(306)-668-4415	F
Berscheid, K.N., B., E.K., S., C. & Y.	Lake Lenore, SK	(306)-368-2602	S
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown, SK	(306)-882-2058	S
Dutton, David H. & George	Paynton, SK	(306)-895-4306	S
Greenshields, Grant & Jim & Callie	Semans, SK	(306)-524-2155	S
Hettland, Ronald	Spalding, SK	(306)-872-4617	S
Lung Seeds Ltd.	Lake Lenore, SK	(306)-368-2414	S
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Schmeling, Donald H.	Riceton, SK	(306)-530-1052	S
Sopatyk, Jeffery & Patti	Saskatoon, SK	(306)-227-7867	S
Veikle, Lorne A., Carl E., G. & J.	Cut Knife, SK	(306)-398-4714	S
Veikle, Lynne, Marshall & Jason	Cut Knife, SK	(306)-398-2923	S
CDC MEADOW - YELLOW			
Ardell, Terrence, Michael, & Joann	Vanscoy, SK	(306)-668-4415	R
Berscheid, K.N., B., E.K., S., C. & Y.	Lake Lenore, SK	(306)-368-2602	R
Bews, W. Kenneth & Brent W.	Eatonia, SK	(306)-967-2440	C
Bryant, Lee & Phyl & Vern & Carol	Battleford, SK	(306)-937-3565	C
Buziak, Carl	Mayfair, SK	(306)-445-9862	C
Chapple, Floyd & Debbie	Grandora, SK	(306)-329-4697	C
Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford, SK	(306)-445-2939	C
Denis, Michel P. & Marc	St. Denis, SK	(306)-258-2219	R C
Dutton, David H. & George	Paynton, SK	(306)-895-4306	C
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis, SK	(306)-528-2140	R
Fenton, Gerald A. & Robin Paul	Tisdale, SK	(306)-873-5438	F R
Floberg, Barry, Delana, Devin & Brandon	Shaunavon, SK	(306)-297-2087	C
Fritzler, Baine A., Brenda D. & Adam A.	Govan, SK	(306)-484-2010	C
Greenshields, Grant & Jim & Callie	Semans, SK	(306)-524-2155	C
Heavin, Larry N. & L. Warren	Melfort, SK	(306)-752-4020	R
Herle, Gregory R.	Wilkie, SK	(306)-843-2934	C
Hyndman, Glen	Balcarres, SK	(306)-334-2914	R
Kasko, F. John	Prince Albert, SK	(306)-764-2875	C
Klym, Roy	Regina, SK	(306)-543-5052	C
Labrecque, Roger	Saskatoon, SK	(306)-373-9379	C
Latrace, Bill	Caronport, SK	(306)-693-2626	R
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Wynyard, SK	(306)-554-2078	S F C
Lung Seeds Ltd.	Lake Lenore, SK	(306)-368-2414	R C
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177	C
Mayerle, Bernhard C.	Tisdale, SK	(306)-873-4267	C
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Reavie, Robert Dixon	Arborkfield, SK	(306)-769-8887	C
Reisner, Cecil & Barry	Limerick, SK	(306)-263-2139 S	F R
Rude, Stanley	Naicam, SK	(306)-874-2359	C
Sopatyk, Jeffery & Patti	Saskatoon, SK	(306)-227-7867	C
Sorgard, Graham	Churchbridge, SK	(306)-896-2236	C
Sperle, Bentley D. & Jody	Unity, SK	(306)-228-3160	R
Straub, Lorne A.	Pense, SK	(306)-345-2390	R
Tebbutt, Gregg	Nipawin, SK	(306)-862-9730	C
Trawin, Brent John	Melfort, SK	(306)-752-4060	F R C
Trowell, Leslie	Saltcoats, SK	(306)-744-2684	C
Veikle, Lorne A., Carl E., G. & J.	Cut Knife, SK	(306)-398-4714	C
Wakefield, Kristopher, Laurie G. & Monica	Maidstone, SK	(306)-893-2984	F C
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811	C
Winterhalt, Tim	Unity, SK	(306)-228-3170	C
Yauck, Kevin Rodney	Govan, SK	(306)-484-4555	R
Yodzwa, Donald	Nipawin, SK	(306)-862-5690	C
CDC MOSAIC - MAPLE TYPE			
Boldt, Garry	Osler, SK	(306)-239-2071	R
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Amos, K. Wayne	Oxbow, SK	(306)-483-2963	C
Corbett, Dean & Trent	Macrorie, SK	(306)-243-2047	R
Fedoruk, Rod M. & Cathy	Kamsack, SK	(306)-542-4235	C
Fraser, Edward H., Glen & Dale	Yarbo, SK	(306)-745-3830	R C
Greenshields, Grant & Jim & Callie	Semans, SK	(306)-524-2155	C
Hetland, Bill	Naicam, SK	(306)-874-5694	R
Hleck, Lloyd G.	Nipawin, SK	(306)-862-2155	C
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177	C
Pederson, Lorne Robert	Archerwill, SK	(306)-323-4240	R
Petruic, Cameron L., Judy & Nick	Avonlea, SK	(306)-868-2294	R
Smith, Wayne D.	Limerick, SK	(306)-263-4944	R
Watson, Wayne Donald, Calvin & Mark	Avonlea, SK	(306)-868-2171	R
CDC PLUTO - GREEN			
Baxter, Daniel J.H.	North Battleford, SK	(306)-445-5414	R
Dutton, David H. & George	Paynton, SK	(306)-895-4306	R
Hochbaum, Jack	Wilkie, SK	(306)-843-2054	R
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Bruce, Vic R.	Tuxford, SK	(306)-631-7788	C
Mayerle, Kris	Tisdale, SK	(306)-873-4261	C
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649 S	F R
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Berscheid, K.N., B., E.K., S., C. & Y.	Lake Lenore, SK	(306)-368-2602 S	F
Dutton, David H. & George	Paynton, SK	(306)-895-4306 S	F
Fraser, Edward H., Glen & Dale	Yarbo, SK	(306)-745-3830	F
Gregoire, Denis	North Battleford, SK	(306)-445-5516	F
Heavin, Larry N. & L. Warren	Melfort, SK	(306)-752-4020 S	F
Heavin, Milton Russell	Melfort, SK	(306)-752-4071 S	F
Illingworth, H.V. & T. D.	North Battleford, SK	(306)-445-5630	F
Rude, Stanley	Naicam, SK	(306)-874-2359	F
Sopatyk, Jeffery & Patti	Saskatoon, SK	(306)-227-7867 S	F
Veikle, Lorne A., Carl E., G. & J.	Cut Knife, SK	(306)-398-4714	C
Veikle, Lynne, Marshall & Jason	Cut Knife, SK	(306)-398-2923	F
CDC SAFFRON - YELLOW			
Berscheid, K.N., B., E.K., S., C. & Y.	Lake Lenore, SK	(306)-368-2602 S	F
Dutton, David H. & George	Paynton, SK	(306)-895-4306 S	F
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis, SK	(306)-528-2140 S	F
Fast, Walter J. & Linda	Kindersley, SK	(306)-463-3626	F
Fenton, Gerald A. & Robin Paul	Tisdale, SK	(306)-873-5438 S	F
Geall, Brian R.	Nipawin, SK	(306)-862-9177	F
Illingworth, H.V. & T. D.	North Battleford, SK	(306)-445-5630	F
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Wynyard, SK	(306)-554-2078 S	F

Littman, Larry W., Allan B., L. Robert & Adam	Saltcoats, SK	(306)-783-6518S	
McCarthy, Richard J. & Brent	Corning, SK	(306)-224-4848S	
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649S	
Nakonechny, Donald, Coral & Lance	Ruthilda, SK	(306)-932-4409S	F
Rempel, Blair Allan	Nipawin, SK	(306)-862-3573	F
Rugg, Barry C. & Robert B.	Elstow, SK	(306)-257-3638S	F
Simpson, Greg J.	Moose Jaw, SK	(306)-693-9402	F
Simpson, John W.	Moose Jaw, SK	(306)-693-9402S	F
Sopatyk, Jeffery & Patti	Saskatoon, SK	(306)-227-7867S	F
Sperle, Bentley D. & Jody	Unity, SK	(306)-228-3160S	F
Trowell, Leslie	Saltcoats, SK	(306)-744-2684S	F
Veikle, Lorne A., Carl E., G. & J.	Cut Knife, SK	(306)-398-4714	F
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811	F
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Dutton, David H. & George	Paynton, SK	(306)-895-4306	C
Gregoire, Denis, Rory & Brandon	North Battleford, SK	(306)-445-5516	C
Medernach, Louis J. & Kim L.	Cudworth, SK	(306)-256-3398	C
Rude, Stanley	Naicam, SK	(306)-874-2359	C

CDC TETRIS - GREEN

Dutton, David H. & George	Paynton, SK	(306)-895-4306S	C
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CDC TREASURE - YELLOW

Ardell, Terrence, Michael, & Joann	Vanscoy, SK	(306)-668-4415	R
Brown, Kyle	Prince Albert, SK	(306)-922-0571	R C
Denis, Michel P. & Marc	St. Denis, SK	(306)-258-2219	C
Gellner, Clayton S.	Southey, SK	(306)-726-4323	C
Greenshields, Grant & Jim & Callie	Semans, SK	(306)-524-2155	C
Hetland, Bill	Naicam, SK	(306)-874-5694	R C
Labrecque, Roger	Saskatoon, SK	(306)-373-9379	C
Lung Seeds Ltd.	Lake Lenore, SK	306-368-2414	R
Mayerle, Erwin D.	Tisdale, SK	(306)-873-4261	R
McCarthy, Richard J. & Brent	Corning, SK	(306)-224-4848	C
Rugg, Barry C. & Robert B.	Elstow, SK	(306)-257-3638	C
Smith, Ron T.W. & Barb A.	Limerick, SK	(306)-263-4944	R
Smith, Wayne D.	Limerick, SK	(306)-263-4944	R
Sopatyk, Jeffery & Patti	Saskatoon, SK	(306)-227-7867	R
Thompson, Jan Harris	Naicam, SK	(306)-874-5407S	F C
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811	C
Willner, Brady E.	Davidson, SK	(306)-567-4613	R C

CDC TUCKER - FORAGE

Sorgard, Graham	Churchbridge, SK	(306)-896-2236	R
Tanner, David A. & Hazel	Regina, SK	(306)-757-7012	R

COOPER - GREEN

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Pfeifer, Robert G.	Lemberg, SK	(306)-335-2532	R C

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Bergstrom, Randy M.	Birsay, SK	(306)-573-4625				C
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Fraser, Scott & Shawn	Pambrun, SK	(306)-582-2148				R
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Garratt, Lyle C. & K.C.	Milestone, SK	(306)-436-2178				C
Gizen, Jason	Prelate, SK	(306)-673-2687				R
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177				C
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649				C
Reisner, Cecil & Barry	Limerick, SK	(306)-263-2139				C
Rennick, Joe R. & William J.	Milestone, SK	(306)-436-4353	S	F		
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley, SK	(306)-778-2344				R
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Willner, Lyndon E.	Davidson, SK	(306)-567-4613				C

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Bews, W. Kenneth & Brent W.	Eatonia, SK	(306)-967-2440				C
Dowdeswell, Donald D.	Pennant, SK	(306)-626-3388				R
Fast, Walter J. & Linda	Kindersley, SK	(306)-463-3626				R
Girodat, Gerald	Shaunavon, SK	(306)-297-2563				R
Hyndman, Glen	Balcarres, SK	(306)-334-2914				R
Klym, Roy	Regina, SK	(306)-543-5052				R
Petruic, Cameron L., Judy & Nick	Avonlea, SK	(306)-868-2294	S	F		
Pfeifer, Robert G.	Lemberg, SK	(306)-335-2532				R
Simpson, Thomas H.	Moose Jaw, SK	(306)-693-9402				C
Yauck, Kevin Rodney	Govan, SK	(306)-484-4555				C

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KYLE

Palmier, Maurice	Lafleche, SK	(306)-472-5917				C
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Craswell, Raymond W.	Strasbourg, SK	(306)-725-3236				C
Floberg, Barry, Delana, Devin & Brandon	Shaunavon, SK	(306)-297-2087				C
Fraser, Scott & Shawn	Pambrun, SK	(306)-582-2148				C
Garratt, Lyle C. & K.C.	Milestone, SK	(306)-436-2178				C
Gerry, Greg	Creelman, SK	(306)-457-2220				C
Johnston, Lorne E. & L. Neil & L. J.	Eston, SK	(306)-962-3917				R
Klym, Roy	Regina, SK	(306)-543-5052				C
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177				R
Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	(306)-694-2981				C
McDougall, Ken & Craig	Moose Jaw, SK	(306)-693-3649	S	F		
Miller, Neil, Jarrod, Sean & Bruce	Avonlea, SK	(306)-868-2117	S			
Palmier, Maurice	Lafleche, SK	(306)-472-5917				C
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Renwick, Douglas Dale	Milestone, SK	(306)-436-4418				R
Sandercock, Eric M.	Balcarres, SK	(306)-334-2958				C
Simpson, Thomas H.	Moose Jaw, SK	(306)-693-9402				C
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Palmier, Maurice	Lafleche, SK	(306)-472-5917	R	C
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Frederick, Blaine	Watson, SK	(306)-287-3977	R	
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Cay, Randy D.	Kinistino, SK	(306)-864-3696 S	
Charabin, Dale Kenneth, Timothy V. & Ryan	North Battleford, SK	(306)-445-2939	
Craswell, Raymond W.	Strasbourg, SK	(306)-725-3236	
Dangstorp, Brian & Perry	Redvers, SK	(306)-452-3443	R
Danielson, Lionel & Bonnie	Norquay, SK	(306)-594-2173	C
Fedoruk, Rod M. & Cathy	Kamsack, SK	(306)-542-4235	
Fenton, Gerald A. & Robin Paul	Tisdale, SK	(306)-873-5438	
Frederick, Blaine	Watson, SK	(306)-287-3977	C
Hardy, Allan W. & Dale & Evan	Grenfell, SK	(306)-697-3128	
Herle, Gregory R.	Wilkie, SK	(306)-843-2934	
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Van Burck, Hans & Marianne	Star City, SK	(306)-863-4377 S	
Veikle, Lorne A., Carl E., G. & J.	Cut Knife, SK	(306)-398-4714	
Wakefield, Kristopher, Laurie G. & Monica	Maidstone, SK	(306)-893-2984	
Wilfing, Raymond John			
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Cay, Randy D.	Kinistino, SK	(306)-864-3696	
Clancy, Kenneth	Carrot River, SK	(306)-768-2902	
Fedoruk, Rod M. & Cathy	Kamsack, SK	(306)-542-4235	
Frederick, Blaine	Watson, SK	(306)-287-3977	R
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Danielson, Lionel & Bonnie	Norquay, SK	(306)-594-2173	C
Farley, James P.	Grand Coulee, SK	(306)-757-6844	C
Smith, Wayne D.	Limerick, SK	(306)-263-4944	C
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Trawin, Brent John	Melfort, SK	(306)-752-4060		C
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Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811		C
SHAW-AC DOMAIN (MIDGE TOLERANT VB)				
Ardell, Terrence, Michael, & Joann	Vanscoy, SK	(306)-668-4415S		
Beuker, Allan Daniel	Melfort, SK	(306)-752-4810	R	C
Boldt, Garry	Osler, SK	(306)-239-2071		
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown, SK	(306)-882-2058		
Denis, Michel P. & Marc	St. Denis, SK	(306)-258-2219		
Friesen, Greg & Brea; Leavins, Brent & Betty Mae	Elrose, SK	(306)-378-7828		
Fritzler, Baine A., Brenda D. & Adam A.	Govan, SK	(306)-484-2010		
Heavin, Larry N. & L. Warren	Melfort, SK	(306)-752-4020S		
Hetland, Bill	Naicam, SK	(306)-874-5694		R
Huber, Daniel & Rebecca	Landis, SK	(306)-658-4200		
Kerber, Greg	Rosthern, SK	(306)-232-4474		R
Klemmer, Richard	Nipawin, SK	(306)-862-3874		R
Klym, Roy	Regina, SK	(306)-543-5052		
Lepp, Milton & Elden; & Neufeld, M.	Hepburn, SK	(306)-254-4243		
Littman, Larry W., Allan B., L. Robert & Adam	Saltcoats, SK	(306)-783-6518		
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177		R
Mattus , Ronald	Chaplin, SK	(306)-395-2652		
Medernach, Louis J. & Kim L.	Cudworth, SK	(306)-256-3398		
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill, SK	(306)-323-4912		
Ostafie, Dave & Robert	Canora, SK	(306)-563-6244		
Pogu, Jean	Duck Lake, SK	(306)-467-4903		
Pratchler, John & Leander	Muenster, SK	(306)-682-3317		C
Shwaga, Jeff W.	Wroxton, SK	(306)-742-4590		
Slind Seeds Group (1998) Ltd.	Archerwill, SK	(306)-323-4402		
Sopatky, Jeffery & Patti	Saskatoon, SK	(306)-227-7867		
Tebbutt, Gregg	Nipawin, SK	(306)-862-9730		R
Tomtene, Steven & Slind, Daniel	Birch Hills, SK	(306)-749-3447		
Veikle, Lorne A., Carl E., G. & J.	Cut Knife, SK	(306)-398-4714		
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	(306)-236-6811		
Willner, Lorne E.	Davidson, SK	(306)-567-4613S		
Winterhalt, Tim	Unity, SK	(306)-228-3170		
Woroschuk, Andrew	Calder, SK	(306)-742-4682		
Wylie, Leslie Dale	Biggar, SK	(306)-948-2807		
Yauck, Kevin Rodney	Govan, SK	(306)-484-4555		
SNOWBIRD - HARD WHITE				
Berscheid, K.N., B., E.K., S., C. & Y.	Lake Lenore, SK	(306)-368-2602		R
Hardy, Allan W. & Dale & Evan	Grenfell, SK	(306)-697-3128		C
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Wynyard, SK	(306)-554-2078		F
McCarthy, Richard J. & Brent	Corning, SK	(306)-224-4848		C
Reisner, Cecil & Barry	Limerick, SK	(306)-263-2139		R
Smith, Wayne D.	Limerick, SK	(306)-263-4944		C
SNOWSTAR				
Fraser, Scott & Shawn	Pambrun, SK	(306)-582-2148		C
Sorgard, Graham	Churchbridge, SK	(306)-896-2236		R
Yauck, Kevin Rodney	Govan, SK	(306)-484-4555		C

STETTLER - RED

Dutton, David H.& George	Paynton, SK	(306)-895-4306	C
Goossen, Mathew	Stenen, SK	(306)-548-4760	R
Greenshields, Grant & Jim & Callie	Semans, SK	(306)-524-2155	C
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Wynyard, SK	(306)-554-2078 S	C
Zwingli, James Trent & Shelley	Melfort, SK	(306)-752-4224	C

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Syngenta Canada Inc.,	Melfort, SK	(306)-752-5397 S	F
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SY985 - CPS RED

Beuker, Allan Daniel	Melfort, SK	(306)-752-4810	R
Buziak, Ronald Charles	Mayfair, SK	(306)-445-6556	R
Gellner, Clayton S.	Southey, SK	(306)-726-4323	R
Gregoire, Denis, Rory & Brandon	North Battleford, SK	(306)-445-5516	R
Syngenta Canada Inc.,	Melfort, SK	(306)-752-5397 S	F R C
Viterra	Regina, SK	(306)-569-5027	R

UNITY-WASKADA (MIDGE TOLERANT VB)

Allan, Raymond N. & Ruth	Corning, SK	(306)-224-4666	
Amos, K. Wayne	Oxbow, SK	(306)-483-2963	
Blenkin, Leonard G. & Larry K.	Sintaluta, SK	(306)-727-2222	
Buziak, Ronald Charles	Mayfair, SK	(306)-445-6556	
Dutton, David H.& George	Paynton, SK	(306)-895-4306	
Gellner, Clayton S.	Southey, SK	(306)-726-4323	
Gerry, Greg	Creelman, SK	(306)-457-2220	
Hardy, Allan W. & Dale & Evan	Grenfell, SK	(306)-697-3128	
Heavin, G. Harvey & G. Ryan	Melfort, SK	(306)-752-4171	
Heggie, Robert Thomas	Leross, SK	(306)-675-4920	
Keyser, Robert Sean	Cupar, SK	(306)-723-4949	
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Wynyard, SK	(306)-554-2078 S	
Lepp, Milton & Elden; & Neufeld, M.	Hepburn, SK	(306)-254-4243	
Lutzer, Albert & Latrace, Jim	Lumsden, SK	(306)-586-0177	C
Mannle, Kenneth	Moosomin, SK	(306)-435-3411	
Mayerle, Bernhard C.	Tisdale, SK	(306)-873-4267	
Mayerle, Kris	Tisdale, SK	(306)-873-4261	
McCarthy, Richard J. & Brent	Corning, SK	(306)-224-4848	
Needham, Reginald R.	Oxbow, SK	(306)-483-5052	
Olson, Lyndon, Lynnell, Alica & Bryon	Archerwill, SK	(306)-323-4912	
Palmier, Maurice	Lafleche, SK	(306)-472-5917	
Reisner, Cecil & Barry	Limerick, SK	(306)-263-2139	
Rempel, Blair Allan	Nipawin, SK	(306)-862-3573	
Robinson, Oren A., Marlene & Wade	Landis, SK	(306)-658-4755	
Rude, Stanley	Naicam, SK	(306)-874-2359	
Rugg, Barry C. & Robert B.	Elstow, SK	(306)-257-3638	R C
Shewchuk, Stan, Lorne, Terry, Adam & Michael	Blaine Lake, SK	(306)-497-3503	C

Smith, Ron T.W. & Barb A.	Limerick, SK	(306)-263-4944	
South, Winston, Richard & Bradley	Melfort, SK	(306)-752-9840	
Sperle, Bentley D. & Jody	Unity, SK	(306)-228-3160	
Stoll, Douglas John, Joan & Lyndon	Delisle, SK	(306)-493-2534	
Thompson, Jan Harris	Naicam, SK	(306)-874-5407	
Wakefield, Kristopher, Laurie G. & Monica	Maidstone, SK	(306)-893-2984	
Wiens, Brennan R.	Herschel, SK	(306)-377-2002	
Yauck, Kevin Rodney	Govan, SK	(306)-484-4555	

VESPER-WASKADA (MIDGE TOLERANT VB)

Altwasser, Rodney, Allen R. & Dean	Yellow Grass, SK	(306)-465-2727	C
Bergstrom, Randy M.	Birsay, SK	(306)-573-4625	C
Berscheid, K.N., B., E.K., S., C. & Y.	Lake Lenore, SK	(306)-368-2602	
Boyd, Clare W. & Dale A.	Melfort, SK	(306)-752-2108	
Boyes, Douglas John	Kelvington, SK	(306)-327-4980	C
Buziak, Ronald Charles	Mayfair, SK	(306)-445-6556	
Cay, Randy D.	Kinistino, SK	(306)-864-3696	
Dutton, David H.& George	Paynton, SK	(306)-895-4306	
Fedoruk, Rod M. & Cathy	Kamsack, SK	(306)-542-4235 S	
Fenton, Gerald A. & Robin Paul	Tisdale, SK	(306)-873-5438 S	R
Fraser, Edward H., Glen & Dale	Yarbo, SK	(306)-745-3830	
Gellner, Clayton S.	Southey, SK	(306)-726-4323 S	
Goossen, Mathew	Stenen, SK	(306)-548-4760	



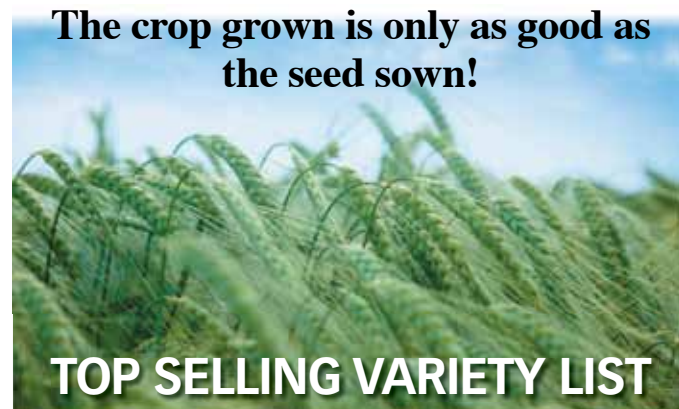
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Hard Red	Merideth	Gazelle (spring)
Carberry	Legacy	Hazlet (winter)
Waskada	Feed/Forage	Flax
Harvest	Austenson	Sorrel
Utmost VB	Cowboy	Bethune
Shaw VB	Oat	Canaryseed
Unity VB	Milling	Togo
CPS	Morgan	Cantate
Crystal	Souris	Canola
Soft White	Legget	Synergy (polish)
Sadash	Triactor	Wizzard (conv.)
Andrew	Forage	Foremost (conv.)
Winter	Baler	Pea
Buteo	Triticale	Meadow (yellow)
Moats	Bunker	Patrick (green)
Barley	Tyndal	4010 (forage)
Malt	Fridge (winter)	Fababeans
Newdale	Bobcat (winter)	Snowbird
Copeland		

Greenshields, Grant & Jim & Callie Semans, SK (306)-524-2155	
Hetland, Bill Naicam, SK (306)-874-5694S	
Kemper, Kenneth W. & Armella Humboldt, SK (306)-682-3570	
Kemper, Russell & Donna Fulda, SK (306)-682-4929	
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Wynyard, SK (306)-554-2078S	
Lueke, Dennis Humboldt, SK (306)-682-5170	
Lung Seeds Ltd. Lake Lenore, SK (306)-368-2414	
Mayerle, Erwin D. Tisdale, SK (306)-873-4261	
Medernach, Louis J. & Kim L. Cudworth, SK (306)-256-3398	
Nakonechny, Donald, Coral & Lance Ruthilda, SK (306)-932-4409S	
Olson, Lyndon, Lynnell, Alica & Bryon Archerwill, SK (306)-323-4912	
Osborne, Nolan Stanley C. Yorkton, SK (306)-782-7113	
Ostafie, Dave & Robert Canora, SK (306)-563-6244S	
Rempel, Blair Allan Nipawin, SK (306)-862-3573S	
Rude, Stanley Naicam, SK (306)-874-2359S	
Sandercock, Eric M. Balcarres, SK (306)-334-2958	
Sopatyk, Jeffery & Patti Saskatoon, SK (306)-227-7867	
Sorgard, Graham Churchbridge, SK (306)-896-2236	
South, Winston, Richard & Bradley Melfort, SK (306)-752-9840	
Tebbutt, Gregg Nipawin, SK (306)-862-9730	
Tomtene, Steven & Slind, Daniel Birch Hills, SK (306)-749-3447	
Trowell, Kenneth, Larry & Nathan Saltcoats, SK (306)-744-2687S	
Wakefield, Kristopher, Laurie G. & Monica Maidstone, SK (306)-893-2984S	
Woroschuk, Andrew Calder, SK (306)-742-4682	

WASKADA

Allan, John Garth Corning, SK (306)-457-2629	
Boyd, Raymond W. Melfort, SK (306)-752-3655	
Edmunds, Greg & Glen Tisdale, SK (306)-873-5480	
Nakonechny, Donald, Coral & Lance Ruthilda, SK (306)-932-4409S	
Needham, Reginald R. Oxbow, SK (306)-483-5052	
Palmier, Maurice Lafleche, SK (306)-472-5917	
Wakefield, Kristopher, Laurie G. & Monica Maidstone, SK (306)-893-2984	

WHITEHAWK - HARD WHITE

Fraser, Scott & Shawn Pambrun, SK (306)-582-2148	
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Wynyard, SK (306)-554-2078S	F
Sorgard, Graham Churchbridge, SK (306)-896-2236	R

Beuker, Allan Daniel Melfort, SK (306)-752-4810	C
Buziak, Ronald Charles Mayfair, SK (306)-445-6556	C
Fedoruk, Rod M. & Cathy Kamsack, SK (306)-542-4235	F
Hyndman, Neil S. Balcarres, SK (306)-334-2914	C
Secan Association Kanata, ON (613)-592-8600	C
Shwaga, Jeff W. Wroxton, SK (306)-742-4590	C
Syngenta Canada Inc., Melfort, SK (306)-752-5397S	F R C

WHEAT - WINTER

ACCIPITER

Lutzer, Albert & Latrace, Jim Lumsden, SK (306)-586-0177	R
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CDC BUTEO

Amos, K. Wayne Oxbow, SK (306)-483-2963	R C
Fedoruk, Rod M. & Cathy Kamsack, SK (306)-542-4235	R
Floberg, Barry, Delana, Devin & Brandon Shaunavon, SK (306)-297-2087	R C
McDougall, Ken & Craig Moose Jaw, SK (306)-693-3649	C
Ostafie, Dave & Robert Canora, SK (306)-563-6244	C
Palmier, Maurice Lafleche, SK (306)-472-5917	C
Sorgard, Graham Churchbridge, SK (306)-896-2236	C

CDC PTARMIGAN - SOFT WHITE

Edwards, Lawrence R., Donna, Jeff & Mike Nokomis, SK (306)-528-2140	C
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EMERSON - HARD RED

Fedoruk, Rod M. & Cathy Kamsack, SK (306)-542-4235S	
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FLOURISH

Fedoruk, Rod M. & Cathy Kamsack, SK (306)-542-4235S	
Ostafie, Dave & Robert Canora, SK (306)-563-6244	F

MOATS

Amos, K. Wayne Oxbow, SK (306)-483-2963S	
McDougall, Ken & Craig Moose Jaw, SK (306)-693-3649S	
Ostafie, Dave & Robert Canora, SK (306)-563-6244	F

PEREGRINE

Kaeding, Warren Churchbridge, SK (306)-896-2236	R
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SUNRISE

Sorgard, Graham Churchbridge, SK (306)-896-2236	R
Woods, Dale Arthur Rocanville, SK (306)-645-4423	R

WHEATGRASS

AC GOLIATH

Brett-Young Seeds Limited St. Norbert, MB (204)-261-7932	C
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Trawin, Alan Ross, Mitchell, Ashton, Jennifer & Jessica Melfort, SK (306)-752-4060	C
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FAIRWAY

Bailey, Roy G. Milden, SK (306)-935-4702	C
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Smelland, Nels Nipawin, SK (306)-862-3061	C
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KIRK

Gilmour, Robert L. Carrot River, SK (306)-768-3482	C
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Hochbaum, Jack Wilkie, SK 306-843-2054	C
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Horudko, Ernest Nipawin, SK (306)-862-4889	C
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Pickseed Canada Inc. Winnipeg, MB (204)-633-0088	C
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Rempel, Blair Allan Nipawin, SK (306)-862-3573	C
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