

# SaskSeed

2009 Guide

Saskatchewan Seed Growers Association



**SM1: Managing the gene that will reduce wheat midge damage**

**ALSO INSIDE:**

- Seed supply outlook
- Seed grower information
- Varieties registered in 2008
- Tax incentives for certified seed
- Picking the best variety for your farm

Published in the January 8, 2009 Western Producer

# Breaking new ground in Western Canada.



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## Breaking new ground in every field of the seed business

Pioneer Hi-Bred has been a strong business partner for Canadian farmers for over 60 years. And although we have evolved and grown dramatically in that time, our most deeply-held principles haven't changed at all. Our goal is to put the best seed technology and expertise in the field, readily accessible to our farm customers, and at good value to them.

Today, Pioneer Hi-Bred is breaking new ground in every field of the seed business. You have challenged us to dig deep for results that will meet the next decade's toughest market and cropping challenges.

Here are some of the ways we are delivering:

## Breaking new ground: Our Lethbridge seed production facility

Last year, Pioneer Hi-Bred opened a new state-of-the-art canola production facility in Lethbridge to meet an increased demand for its high-performing Pioneer® brand canola hybrids. The addition of the new seed production plant is part of our strategy to be the canola market leader by 2012.

## Breaking new ground with corn hybrids

Pioneer Hi-Bred has long been a world leader in corn genetics, and we are applying our full expertise to developing and testing early maturity hybrids suitable for Western Canada growing conditions.

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Our canola hybrids with the Roundup Ready® and Clearfield® traits are already the yield leaders in their segments. *This year, Pioneer® brand 45H28 with the Roundup Ready trait is delivering an average yield advantage of 1.4 bushels per acre\* over all competitors (206 comparisons).*

Now, Pioneer Hi-Bred researchers are using both traditional and molecular breeding techniques to develop canola hybrids capable of withstanding pressure from economically impactful diseases.

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Pioneer Hi-Bred researchers have developed the first canola hybrid with genetic clubroot-resistance. Pioneer Hi-Bred is positioned for large-scale on-farm testing of this new hybrid in clubroot-affected areas in 2009 with a commercial launch planned for 2010.

## New hybrid with improved field tolerance to sclerotinia

New for this Spring, Pioneer has launched the first canola hybrid in our lineup with an improved level of field tolerance to sclerotinia: Pioneer® brand 45S51 also offers superb yield potential and solid agronomic traits.

\* Yield data from Western Canada through November 3, 2008. Information and results contained herein represent the average of all comparisons across the area indicated. Comparisons may be against any number of competitors. Product responses are variable and subject to any number of environmental, disease and pest pressures. ® Roundup Ready is a registered trademark used under license from Monsanto Company. © CLEARFIELD is a registered trademark of BASF. All purchases are subject to the terms of labelling and purchase documents. ©, TM, SM Trademarks and service marks licensed to Pioneer Hi-Bred Limited. © 2008 PHL. PR12719\_SK\_SG\_Gatefold



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## President's Message

**A**nother growing season has come and gone, and now is the time to review the past season and make plans for the next one.

Whether you're looking for a new variety or renewing the seed stocks of an old favorite, the Saskatchewan Seed Guide is a good place to start. It contains the latest updates and information on the agronomic characteristics of the most popular varieties. It also includes comments from plant breeders and crop coordinators from various regions of the province, outlining their observations and how the various varieties can be expected to perform.

We are fortunate in Saskatchewan to have a team of dedicated organizations and individuals who make this publication possible. SaskSeed is provided to the province's producers at no charge through the partnership of the Saskatchewan Seed Growers Association, Western Producer Publications and the stakeholder members of the Saskatchewan Variety Performance Group.

A team of the province's top plant breeders serve as crop coordinators, ensuring that the test plots are prepared, seed is obtained, planted and harvested, and the data meticulously collected, recorded and collated. Nor would this information be available without the support of the Saskatchewan Ministry of Agriculture, and the advertisers and indus-



try stakeholders you see listed throughout this publication.

Many of the province's producers indicate this magazine is their first source of information on the newest varieties, and where they may be obtained. A close second is your local pedigreed seed grower. Pedigreed seed growers have accumulated valuable knowledge and experience by growing new varieties in your area. They also stay abreast of the latest issues and trends with regular attendance

at industry meetings and workshops.

For more than a century, the Certified Seed Blue Tag has been a guarantee that the seed you're planting has good germination, minimum disease levels and genetic purity. When you purchase Certified Seed, ask your seed retailer about those numbers on the tag. They are part of an audited tracking system that serves as a reliable starting point when planning for a successful year.

The single objective of this publication – and the entire seed industry – is to provide producers with the latest tools to help keep Saskatchewan agriculture profitable and moving forward. Our heartfelt thanks to all who help make it possible.

I wish you a safe and profitable 2009 growing season.

*Joe Rennick, President  
Saskatchewan Seed Growers Association*

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"Varieties of Grain Crops 2009"  
24-page pullout included with this guide



# What it was... what it will be

By Shirley Byers  
Freelance writer



FILE PHOTO

Saskatchewan seed growers take stock of the past growing season and look ahead to the spring of 2009.

**AMAZING YIELDS, ERGOT,** wheat midge, sawfly and hail. Rising commodity prices, falling commodity prices, fertilizer at out of this world prices.

These were some of the elements that characterized the 2008 crop year in Saskatchewan. With the harvest in the bin, or in some cases the bag, pedigreed seed growers from across the province reflected on the highs and lows of the past growing season.

"Above average would be the best way to describe it," said Blair Rempel from the Nipawin area in the northeast corner of the province.

"Canola yields were way above average and so were most other (commodities). In this general area — a 50 mile radius — there were some pockets of dryness and quite a bit of variability, but overall I think it was probably an above average year."

Yields and quality were also good in the Watrous area, said seed grower Shane Stokke. And with some qualifications, most regions of the province had a pretty good year.

In the Shaunavon, Sask., area, weather created a few problems for local producers, said seed grower Barry Floberg.

His farm escaped hail but some of his neighbours were not so fortunate. Eventually the crops rebounded, but the harvest was later than usual and there was frost damage.

"There was bran frosted stuff, which will probably bring the marketing grade down to a three or a feed or a four," Floberg said.

There was also significant hail in the Watrous area while at Milestone, Joe Rennick said some farmers were hit hard by hail and heavy rain.

"It started with three inches of rain and got worse," Rennick said.

## PESKY CRITTERS AND DISEASES

Grasshoppers were also a concern in areas around Milestone. Some producers used eco-bran bait on field edges while others applied chemical to field perimeters.

But in 2008, the worst pest by far was the wheat stem sawfly, said Rennick. "Just wicked! Even the (solid stemmed) Lillian was falling down."

He estimated up to 25 percent sawfly damage in Lillian, a variety specially bred for sawfly resistance.

At Shaunavon, Floberg reported good sawfly resistance with Lillian.

"I grow Lillian because of the sawfly," he said. "It solves the problem for you."

Stokke said Lillian will reduce sawfly damage but it won't eliminate losses.

"A lot of Lillian is grown in the area. It's helping but it's not eradicating it (the sawfly)."

Wheat midge caused anxiety in the Watrous area and infestations were prevalent in the northeast, where some producers sprayed to limit the damage.

At Milestone, Rennick planted one sample plot of AC Unity, one of four blended wheat varieties that contain a gene for wheat midge resistance.

Lillian, a solid stemmed wheat variety, is reducing sawfly damage but losses were still significant in some areas.

"The sawflies ate it up like candy," he said. "I guess we'll have to wait for a solid stem variety."

Stokke sprayed for aphids in field peas and also for pea specific diseases. Ergot was prevalent, particularly in the province's southeast.

"I've heard of guys who cleaned (their grain) twice and it still wouldn't make grade," said Rennick.

## LOOKING AHEAD

Most growers said certified seed supply will be sufficient for 2009. However, Floberg said supplies for some varieties could be tight in the southwest due to hail and crop quality issues.

Supplies of certified durum and flax could be hard to come by, he said. And what will Saskatchewan producers be looking for when they shop for seed for the 2009 planting season?

According to Rempel, they will keep their options open.

"I think farmers will be looking closely at all their alternatives," Rempel said in early December.

"A lot depends on where fertilizer prices go. We've seen a collapse on the national level of fertilizer prices but we haven't seen that filter through to the local market here yet."

"That's a big issue. I have no idea how it will be handled. Fertilizer dealers tell farmers we need these high prices because we paid these high prices back in July or whenever it was. We'd like to say 'well, OK, we see your canola price on the board, Mr. elevator manager, we'd like to get the July price'."

Stokke predicted that high fertilizer costs will result in a large pea crop in 2009.

"Peas are going to increase in production," he said. "And I have a feeling coriander's going to be very big, especially in the Watrous area. It's doing well here. It's a cheap crop to grow. It doesn't take lots of fertilizer. I think guys are going to be looking at that, particularly, what you can grow and still get the same returns with lower inputs and costs."

Rennick agreed.

"I'm kind of following the (theory) that unless the price of fertilizer drops drastically, peas are going crazy."

Canola returns were good last year but canola is expensive to grow, particularly in dryland areas, where yields are limited by moisture availability.

"When you start getting up to \$150 an acre for inputs, it's pretty risky here," Rennick said.

"We're in a predominantly durum area. With the sawfly, spring wheat sales have pretty well disappeared... If you can grow the midge tolerant varieties you've probably got a pretty good market for it, but I'm out of that market until they come up with a solid stemmed one."

The market for chickpeas is flat so some producers are looking at niche crops such as coriander and fenugreek.

In the Shaunavon area, many producers are waiting to see what the market does.

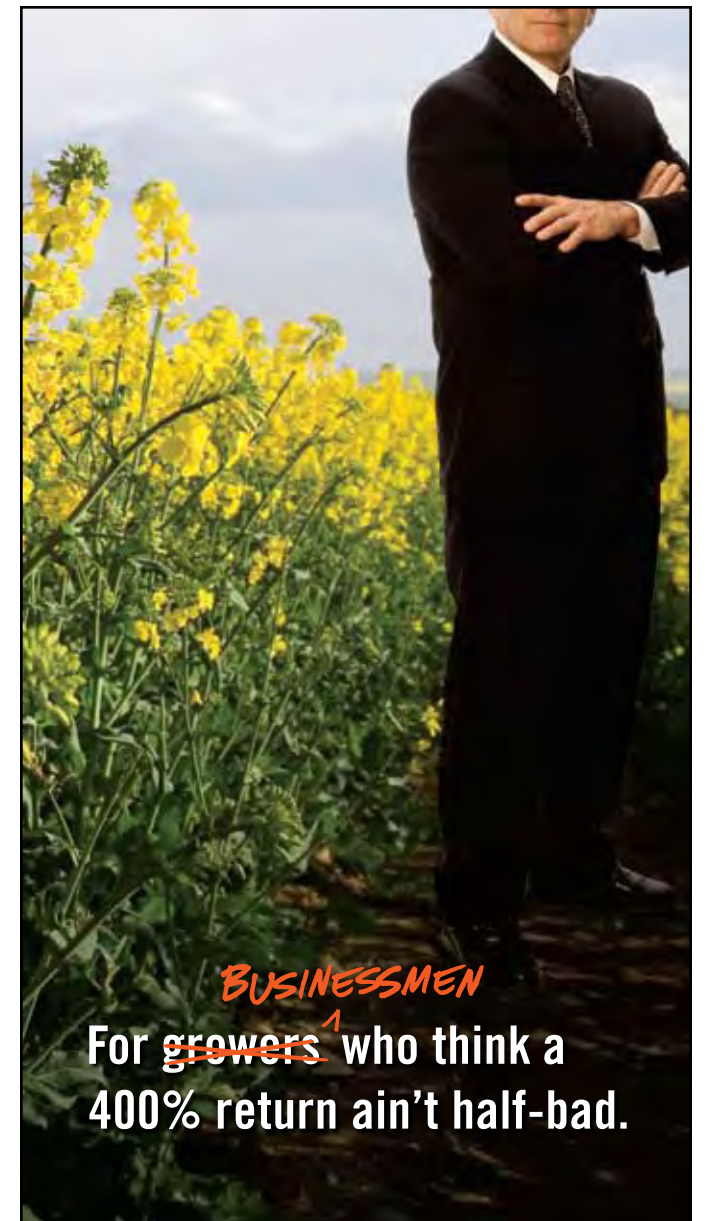
"There were really good prices available earlier but that soon changed. With that change, the optimism didn't completely vanish but it toned down quite a bit," said Rempel.

Input prices will influence the size and character of the 2009 crop and with many planting decisions yet to be made, many seed purchases have been delayed.

"If you don't know what your market's going to be, you can't copy out any numbers to figure out where you're going to be. It's hard to put extra inputs in there," said Floberg, who wondered whether certified seed sales might suffer.

"You put the bare minimum of fertilizer in, try and keep your weed control as positive as possible. Certified seed could be something they might not go for this year," he said.

On the other hand, "certified seed will always give you more money, an extra bushel or two to pay the bills." ♦



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# Smile

By Shannon Moneo  
Freelance writer

## it's tax time



FILE PHOTO

### An innovative plan being proposed by the CSTA would provide a tax deduction for farmers who buy certified seed.

**AFTER FOUR YEARS** of research and discussion, the Canadian Seed Trade Association is promoting a tax incentive for farmers who use certified seed.

"It seems to make a lot of sense," said Jeff Reid, president of the CSTA, which represents 140 seed companies.

"By making certified seed more economical through tax incentives, it would increase the use of certified seed."

Also on board is the Canadian Seed Growers' Association, a 4,500-member organization that monitors and certifies pedigreed seed production in Canada.

"Our total support for the tax credit is premised on economics," said CSGA executive director Dale Adolphe.

According to figures from the Canadian Plant Technology Agency, about 30 percent of seed planted in Canada each year is certified.

Corn, canola and soybean producers are by far the most frequent users of certified seed.

About 98 percent of the corn, 92 percent of the

canola and 87 percent of the soybeans produced in Canada are planted with certified seed.

By comparison, certified seed is used on about 28 percent of the country's flax acreage and roughly 21 percent of barley acreage.

The bottom three crops are oats at 16 percent of Canadian acreage, wheat at 16 percent and peas at 14 percent.

Saskatchewan figures were not available.

The tax scheme being proposed by the CSTA would be fairly straightforward.

Producers who buy certified seed would claim 155 percent of their certified seed cost as an expense when filling out their income tax return.

For example, a producer who buys certified seed for \$8 per bushel would receive a tax deduction of \$12.40 per bu.

This tax benefit would even out the discrepancy between the higher cost of certified seed versus saved seed, said CSTA vice-president Patty Townsend.

With the tax credit in place, the net difference between using saved seed and certified seed

would be negligible or even zero, added Adolphe.

Many Canadian farmers choose to save and replant their own seed to hold production costs in check. Others buy non-certified or bin-run seed from other producers.

Forgoing the use of certified seed can save money, but producers often fail to factor in hidden costs such as transporting and cleaning their seed.

Saved or bin-run seed can also result in germination problems, poor vigour or susceptibility to diseases.

A certified seed incentive would make certified seed use much more appealing but there is one major hurdle to cross.

Governments would forgo the collection of about \$153.7 million in taxes from Western Canada and \$25.4 million from Eastern Canada, according to a 2008 CSTA report.

Some of that tax loss would be offset by the increased yields and increased income, said Reid.

The George Morris Centre, an agricultural

# Managing the midge

By Shannon Moneo  
Freelance writer

The wheat midge costs western Canadian wheat farmers tens of millions of dollars a year. Now, the industry is fighting back with four new wheat varieties and an innovative management strategy.

**AFTER 15 YEARS** of research, a new generation of seeds will enter the market this fall, bred specifically to combat the orange blossom wheat midge.

"This is exciting new wheat technology that meets an urgent need for farmers," said Jim Downey, SeCan's research and development manager for Western Canada.

The orange blossom wheat midge has been damaging wheat crops across the Prairies since the early 1900s.

In 2006, it caused yield losses worth an estimated \$19 million and another \$21 million was lost when wheat crops were downgraded due to kernel damage. Much of that lower quality crop came from key wheat producing areas in central Saskatchewan.

Agriculture Canada scientists in Winnipeg and Swift Current, Sask., began searching for a genetic solution to the midge problem more than a decade ago.

In Winnipeg, researchers observed the midge in a controlled environment that also contained flowering wheat plants.

They noticed that some wheat strains expressed resistance to the midge. They then took those undamaged plants and looked for the genetic mechanism that protected them from the insects.

"A single gene was involved in conferring tolerance to the orange blossom wheat midge," said Ron DePauw, an Agriculture Canada geneticist and plant breeder working in Swift Current.

The gene, known as the Sm1 gene, was present in the weak gluten, soft red winter wheat varieties.

In wheat plants that contain the Sm1 gene, developing kernels contain two naturally occurring compounds that prevent midge larvae from feeding and maturing.

Once the crop matures, the protective compounds dissipate.

DePauw used plant-breeding to transfer the Sm1 gene from the soft red winter wheat into high-producing, hard red spring varieties.

All of this was done using traditional plant breeding practices.

Following three years of testing in co-op trials, the first midge-tolerant wheat varieties were registered in 2007.

SeCan will be distributing two of the four varieties, with AC Unity VB available in fall 2009 for spring 2010 planting and AC Fieldstar VB available in fall 2010 for planting in spring 2011.

### DEVISING A STRATEGY

In addition to developing midge tolerant wheat varieties, plant breeders and wheat industry stakeholders have devised a strategy aimed at managing the new varieties and ensuring they maintain their midge tolerant characteristics for as long as possible.

The strategy involves the use of blended seedlots.

Each seedlot sold to farmers will contain 90 percent midge-tolerant seeds.

The remaining 10 percent will be seeds of a midge susceptible wheat variety, also known as a refuge.

According to DePauw, using blended seedlots instead of 100 percent midge tolerant seed will prolong the viability of the Sm1 gene for up to 90 years.

If seedlots contained 100 percent midge tolerant seed, most midge would die in the first year but some insects, known as virulent midge, would survive.

These virulent midge would then reproduce and pass on a genetic mutation to their offspring.

Eventually, a new population of midge with complete resistance to Sm1 gene would emerge and the economic losses associated with midge damage would return to their previous levels.

Some experts estimate that without the blending strategy, the effectiveness of the Sm1 varieties could be lost within 10 to 15 years.

By comparison, they say the blended seedlots could preserve the effectiveness of the Sm1 gene and limit economic losses for several decades.

By using the 90/10 blend, non-virulent midge (those that can feed on regular wheat varieties but not on the midge tolerant varieties) would survive in limited numbers.

Each year, some of them would feed on the 10 percent of the crop that has been planted to susceptible or refuge wheat varieties.

The non-virulent midge would mate with the virulent midge and the offspring of the two insects would be non-virulent, meaning they wouldn't be

able to feed on the remaining 90 percent of the crop.

Downey, an agrologist and farmer who farms 1,400 acres, is hailing the seed and the management strategy as a significant breakthrough.

"Farmers are getting much more used to the advantages of technology," he said. "This seed is different to what's been grown in the last 80 years."

One big advantage is that producers can save about \$14 per acre in insecticide costs because they won't have to spray for the midge, he said.

Time spent scouting for midge at sunset would also be eliminated because spraying would no longer be necessary.

"It's far more environmentally friendly since it reduces pesticide load on the environment and it does not harm beneficial insects," Downey said.

The price of the blended seed has yet to be determined, but Downey said many millions of dollars went into the development of the midge tolerant wheat varieties.

"Seed price depends on desirability and supply and demand," he said.

The first four midge tolerant varieties to reach the commercial market will be AC Unity, AC Goodeve, AC Glencross and BW365, also known as Fieldstar.

Refuge varieties likely to be used include AC Waskada in Unity and BW365, AC Intrepid in AC Goodeve and AC Burnside in AC Glencross.

### PROTECTING THE INVESTMENT

Members of a special wheat midge task force have been preparing for the commercial release of midge tolerant wheat varieties for several years.

During that time, one of the main challenges they have identified is the need to educate producers about the importance of managing the Sm1 gene properly, so as to ensure its prolonged viability.

To ensure proper management, committee members have drafted a stewardship agreement that each farmer must sign before acquiring the specially blended seed.

Continued on Page 12



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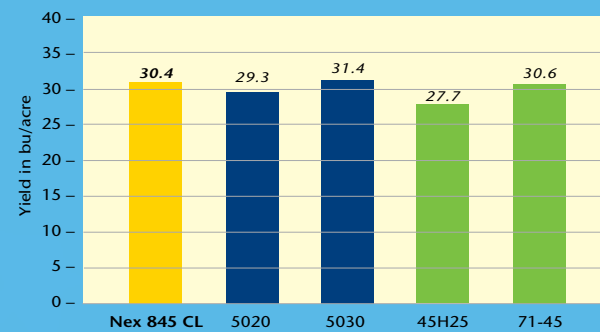
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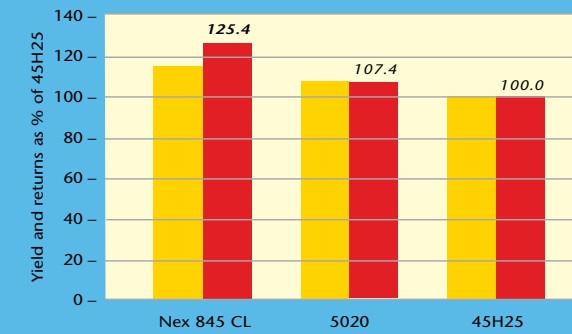
- Maturity:** Nex 845 CL is 3 days later than competitive standards.
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- Blackleg resistance:** Rated MR
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## GROWER REPORTED ACTUAL YIELDS – 2007 MANITOBA CROP INSURANCE DATA



Yield data from risk areas; 4, 5, 6, 9, 10, 11, 12 in Manitoba in 2007. Approximate acres by variety are as follows: Nex 845 CL – 29,000 (137 growers); 5020 – 314,000; 5030 – 374,000; 45H25 – 42,000; 71-45 – 99,000.

## DOW AGROSCIENCES MEGAPLOT RESULTS – 2007 NEX 845 CL YIELD/RETURNS



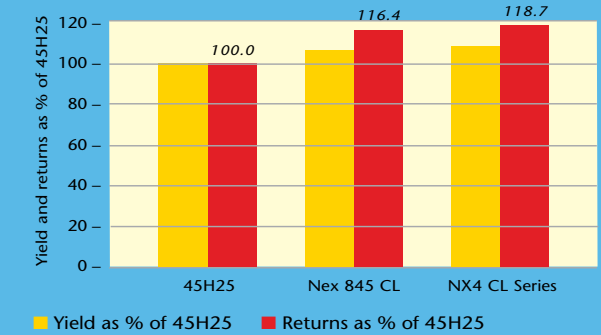
\*Returns based on generic canola price of \$528/tonne (\$12/bu.) and a Nexera Canola Health Bonus of \$50/tonne. Actual results will vary.

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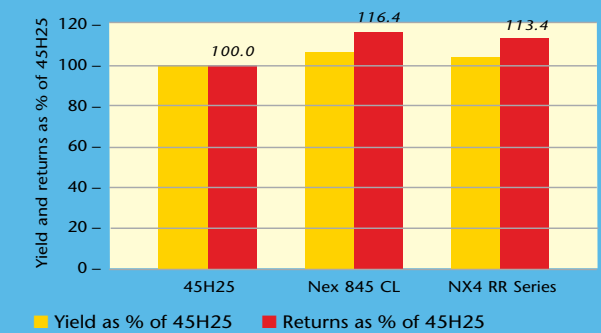
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## NX4 CL SERIES YIELD/RETURNS



\*Returns based on generic canola price of \$528/tonne (\$12/bu.) and a Nexera Canola Health Bonus of \$50/tonne. Actual results will vary.

## NX4 RR SERIES YIELD/RETURNS



\*Returns based on generic canola price of \$528/tonne (\$12/bu.) and a Nexera Canola Health Bonus of \$50/tonne. Actual results will vary.

Based on small plot data from Dow AgroSciences. Agronomic performance is a function of genetics, environmental factors and grower management. Actual results will vary. †Currently there is no industry standard rating system for Fusarium wilt. The canola industry (including Dow AgroSciences) is investing in research on Fusarium wilt in an effort to develop a standardized system. The Dow AgroSciences assessment of "resistant" is based on limited inoculated small plot trials and greenhouse data.

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The draft agreement, which may be tweaked over the next year or so, allows farmers to save and replant their own seed the following year but it also requires that all bin-run seed be tested annually to ensure the 90/10 ratio doesn't get watered down.

"We need to maintain the 10 percent level," Downey said.

The draft agreement, which had input from many groups including SeCan, Agriculture Canada, FP Genetics, the Canadian Food Inspection Agency and the Canadian Seed Growers' Association, states that:

- farmers who plant a blended midge tolerant variety and wish to plant saved seed the following year must first have their seed DNA tested at an approved seed lab;
- saved seedlots that do not contain the correct proportion of midge tolerant and midge susceptible wheat seeds cannot be planted and must be sold as commercial grain;
- farmers who sign a stewardship agreement must agree to random inspections and audits to ensure they are meeting the terms of the agreement;
- farmers acknowledge that the best management practice is to purchase new pre-blended certified seed every two years and;
- farmers who do not comply with the terms of the agreement will be assessed a penalty of \$100 per acre for each acre found to be in contravention of the contract.

Money collected through penalties will be directed toward the Western Grains Research Foundation to fund midge tolerance awareness campaigns and future wheat research programs.

Downey said today's farmers have become accustomed to signing agreements and most will recognize the benefits of a formal stewardship contract.

A final version of the "Midge Tolerant Wheat Stewardship Agreement" should be ready in about a year.

### FEEDBACK TRICKLES IN

Although many producers support the terms of the stewardship agreement, others have raised concerns.

At a recent seed industry conference in Banff, Alta., some certified seed growers said the industry should require that commercial grain producers buy new blended seed every year.

This would ensure the proper ratio of tolerant and non-tolerant seeds in each seedlot and would maximize the longevity of the Sm1 varieties.

Another Saskatchewan seed grower, Bill Hetland, thinks there's room for improvement in other areas.

"Regarding the \$100 per acre fine, personally, as a farmer and a seed grower, it's a little bit out of line," said Hetland, who has farmed in the Naicam area for roughly 30 years.

Hetland, who has a degree in agricultural

economics from the University of Saskatchewan, said that if producers understand that the seed's effectiveness could be lost within a decade, the heavy-handed threat of a fine shouldn't be necessary.

Common sense and good information should work, he said.

In 2007, Hetland Seeds grew two acres of midge-tolerant seed.

In 2008, the 90/10 varietal blend was planted on 80 acres and it performed very well, Hetland said.

For 2009, he expects to seed at least 200 acres of midge-tolerant wheat.

He believes that under very high wheat midge numbers, some farmers will still see pesticide spraying as a worthwhile investment.

As for mandatory testing of saved seed, Downey estimated the cost of a test at approximately \$200.

Formal test parameters are being developed by the Saskatchewan Research Council, but Downey predicted that 500 grams of seed would be needed for each test.

Results would likely take two to three weeks.

DePauw, who has worked in Swift Current since 1978, is glad to have had a hand in developing the cutting edge seed varieties and the management strategy.

"It's very gratifying to see many things that can be done to reduce business risk and health damage. It's one step at a time, all in a day's work," he said. ♦

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Continued from Page 9

## Smile it's tax time

think-tank based in Guelph, Ont., evaluated the economic impact of using certified seed for the production of eight wheat and barley varieties. It found that the use of pedigreed seeds would boost yields and increase tax returns from the eight crops by about \$61.5 million.

According to the CSTA, use of certified seed increased corn yields by almost 60 percent in 15 years. Canola yields jumped 32 percent over 30 years while wheat yields improved by 22 percent over the same time period.

In Nokomis, Sask., Donna Edwards has been a certified seed grower for 18 years.

About one-third of the 4,300-acre Edwards Farm Co. is dedicated to producing certified wheat, flax, barley and pea seed.

Peas dominate, with barley coming in second, said Edwards, a member of the Saskatchewan Seed Growers Association and a CSGA director.

"It's a win-win situation," Edwards said of the proposed tax incentive.

"It's a good thing for seed growers and a good thing for farmers."

Edwards said the tax incentive would help in tough times because that's when farmers normally cut back on their costs. In those instances, seed is one of the first costs to be trimmed.

Reid, who also serves as general manager of Secan, said the tax scheme would also generate more money for seed research.

"It would ... spread out the cost associated with developing certified seed," he said.

If more producers buy certified seed, there would be more investment in research and development and more new varieties would be available to Canadian producers.

In 2007, the private sector invested \$56.7 million in seed research, most of it focused on corn, soybeans and canola.

By 2012, the industry plans to spend \$105.7 million.

Promoters of the incentive fear it could be viewed as a trade subsidy under international trade rules.

If so, approval of the idea could be much more difficult.

"It's a government hold-up between us and success," Adolphe said.

The CSTA has hired lawyers who determined that the tax income forgone by government is indeed a subsidy, according to the World Trade Organization Agreement on Subsidies and Countervail.

The incentive would be considered a trade-distorting or "amber" subsidy.

However, there is a seed of hope buried in the subsidy mire.

Under the WTO agreement on agriculture, Canada is allowed to spend up to \$4.2 billion under the amber classification. If all the certified seed sold in Canada got the tax incentive, Canada's amber spending on certified seed would account for \$1.54 billion of the available \$4.2 billion.

There are two items to be settled before the tax incentive can proceed, said Adolphe, who is trained as an agricultural economist.

First, government must decide if it will go ahead with the amber classification.

And second, the finance department and treasury board must formalize the plan.

The CSTA has already had discussions with provincial and federal governments, said Townsend.

In December, the CSTA was waiting to hear from the federal government but with unsettled times in Ottawa and the challenges of dealing with different bureaucrats, movement has been slow, she said. ♦



# What are you planting?

By Pat Rediger  
Freelance writer

Spring is coming and you're ready to buy seed. But how do you know what variety is best for your farm? Here are six questions that every farmer should ask.

**MANY PRODUCERS KNOW** the value of planting certified seed.

The blue tag is an assurance that the seed being planted has been produced in a closely regulated system that uses third party inspections and audits to ensure quality.

To carry a blue tag, certified seed must meet or exceed predetermined standards for germination, disease resistance, mechanical purity and varietal purity.

But despite these assurances, how can producers be sure they are buying seed that is best for their local growing conditions, their markets and their budget?

That's where the expertise of local seed growers enters the equation.

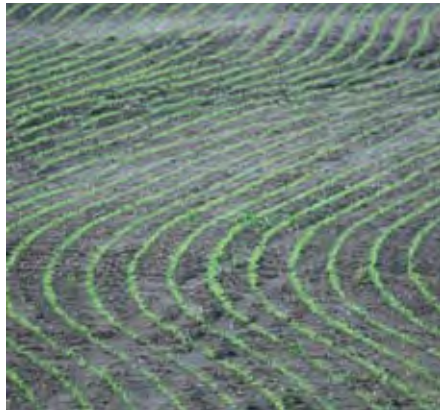
"Seed growers are the seed experts in your area," says Cathy Fedoruk of Fedoruk Seeds in Kamsack, Sask.

"They have knowledge of all seed varieties and the new varieties available. They attend meetings and talk with breeders. Growers are a wealth of untapped knowledge and are enthusiastic to talk about seed."

According to Fedoruk, producers can ensure they are buying the most suitable varieties by talking to local seed suppliers and asking a few simple questions.



FILE PHOTOS



## 1 WHAT IS THE GERMINATION LEVEL OF THE SEED?

"The main question that buyers ask is the price, but that is often the last question to ask. Germination should be the first question," says Roy Bailey of Bailey Brothers Seeds Inc. in Mildred, Sask.

While all certified seed must offer a high level of germination, Bailey says some seedlots can have a significantly higher percentage of germination than others.

Germination levels can range from a low of 75 percent to a high of 98 percent. Although the higher germination level usually translates into a higher price, the end result may be worth the investment.

"The certified tag guarantees that the seed meets minimum germination standards of federal seeds regulations, but how much over the standard is the seed?" says Randy Preater, program manager with the Canadian Seed Growers Association.

## 2 DOES THE SEED HAVE A CURRENT GERMINATION TEST?

After certified seed has been through a conditioning process, it is often stored for several months. For certain types of certified seed, such as barley and canola, regular germination testing is essential to ensure that the stored seed is up to the standards of certification.

"Small seeds often require more frequent germination testing than larger seeds," says Preater, adding that carry-over seed — seed that has been stored for a year — should always be retested prior to sale.

Ideally, germination test results should be no more than a few months old, especially for small-seeded crops.

"Buyers can ask for a certificate of analysis, which reports on the seed lot, the germination level of the seed and when the germination was tested," says Preater.

For some cereal crops, current germination tests are not critical.

"Cereals can hold for a long time in a facility that is clean, dry, and insect-free," says Walter Fast of Fast Seed Farm in Kindersley, Sask.

"They can hold for four to six years without affecting the germination level."

Nonetheless, a current germination test is the best way to ensure germination levels. Trusting an old test can lead to problems for the buyer and the seller.

## 3 IS THE SEED CERTIFIED NO. 1 OR NO. 2?

Within the Canadian standards for certified seed, two different grades — No. 1 and No. 2 — indicate that the seed meets quality standards in terms of germination, mechanical purity, weed and disease presence.

"Although there is not normally a lot of certified No. 2 seed in the market, this question is a good heads up for seed buyers, especially for seed from difficult harvest conditions," says Preater.

"Producers should want to know why the seed has been placed in the lower No. 2 grade."

According to Preater, there are two common reasons for seed to fall into the No. 2 category.

"Either the seed is lower germination or it contains more impurities, such as weeds or other crop kinds that are difficult to separate from seed of that crop kind."



FILE PHOTOS



## 4 HOW WELL DID THE SEED GROW IN THE LOCAL AREA?

When buying seed, farmers should seek production advice from seed growers, says Preater.

"Seed growers usually have experience with the varieties they are selling," he says.

"Also, they are selling varieties that have been adapted to the growing conditions of that area in terms of soil, climate, disease and insect pests."

"Most growers are able to give a personal view of the seed," adds Fedoruk.

Even if the seed growers did not produce the seed themselves, they are usually in contact with someone who has.

Fedoruk suggests asking the seed supplier specific questions about the performance of the variety, such as how well the crop harvested and whether it thrashed out properly.

"Also ask about the days to maturity, especially in zones where frost is a factor," says Fedoruk.

## 5 WHAT ARE THE CHARACTERISTICS OF THIS SPECIFIC VARIETY?

Each type of certified seed has specific characteristics for disease resistance, germination and growing traits. Knowing those characteristics helps a producer make an informed choice.

"Determine the disease package that the particular variety has and ask about any novel traits of the variety," says Fedoruk.

"New varieties usually have better disease tolerance or resistance and often better insect resistance or tolerance for pests such as wheat midge and sawfly."

Fast also suggests that producers ask numerous questions about each variety they are considering.

"Ask about the specific variety's disease resistance, standability, shatter loss and weathering ability," he says.

## 6 WHAT MARKET OPPORTUNITIES ARE AVAILABLE WITH THIS VARIETY?

When it comes to marketing, more and more end-users are looking for varieties with specific characteristics, whether they are for baking, livestock feed or ethanol production.

In addition, there are increasing opportunities to sell specific varieties of certified seed into identity preserved (IP) markets.

"More breeders are being asked to develop varieties for niche markets," says Preater.

For example, specific varieties of beans grown in eastern Canada have been exported to Europe and Asia for the past several years.

Meanwhile, Warburtons Ltd., a major bakery in the United Kingdom, contracts significant amounts of specialty wheat through commercial wheat growers in Western Canada.

Preater emphasizes that growing certified seed can open the door to new and lucrative IP markets.

"Producers have to be able to prove to buyers that they are getting the variety and characteristics that they want."

Fedoruk recommends that producers consider market potential before choosing a seed variety.

"Ask yourself: where do I intend to sell this? Consider the end use of the crop, especially for wheat, barley and oats. Ethanol production and pig barns need different varieties of wheat than other markets," says Fedoruk.

Seed growers usually know about market opportunities in the local economy, such as whether a variety has a contract with a seed company or elevators, Fedoruk says.

She also notes that certain mills prefer specific varieties of oats and some breweries prefer certain varieties of barley for malting.

Asking seed growers these and other questions will enable producers to get the most out of their certified seed purchases.

It all goes back to "buyer beware," says Bailey. "When purchasing seed, use standard business practices. Make sure you know what you are getting." ♦

## New credit program announced

**BEGINNING THIS YEAR**, SeCan members will be able to offer their customers credit through an arrangement with Farm Credit Canada (FCC) and ACC Farmers' Financial.

"We are excited to have a program for our members" said Todd Hyra, SeCan's western business manager.

"Many of our members are family-based businesses — one or two outstanding accounts can jeopardize a family's livelihood."

For years, SeCan members have offered unsecured credit to their customers. But as crop input costs rise and commodity prices become more volatile, the risks of offering unsecured credit become too great for an independent family operation.

By comparison, most full-service crop input companies require credit checks on their customers, and offer credit through a financial

institution.

This new credit program allows independent seed growers and retailers to protect their business while continuing to offer service to their communities.

The alliance between Farm Credit Canada and ACC Farmers' Financial is expected to help SeCan customers get the financing they need to do business.

"Seed customers can finance the purchase of SeCan products, and SeCan members will be able to turn the accounts receivable into much needed cash flow," said Trish Botter, relationship manager with FCC.

"This is truly a win-win for SeCan members and their seed customers."

Growers seeking more information on the program can contact SeCan or Farm Credit Canada.



# Wheat's black plague

By Darlene Polachic  
Freelance writer

Ergot, a highly toxic fungal disease, affected cereal crops across the province last year. Here's how farmers can stop it.

FILE PHOTO



**LAST SUMMER, MANY** farmers in different regions of Saskatchewan saw a disturbing problem in their wheat fields.

Instead of neat, clean heads with uniform rows of kernels, they saw deformed kernels and bulky black protrusions on the heads of their plants.

Ergot, a fungal disease caused by *Claviceps purpurea*, was a prominent problem, especially in the province's southeast.

Ergot typically infects the heads of rye, triticale, wheat, barley and forage grasses.

According to Robin Morrall, a plant pathologist with Discovery Seed Labs in Saskatoon, ergot does not generally affect crop yield, but the ergot bodies contain a variety of toxic alkaloids which, if ingested, can cause serious health problems for humans and animals.

The alkaloid compounds produce effects that mimic those of the hallucinogenic drug LSD.

Ergot is a soil-borne disease that begins with ergot bodies overwintering on the ground and germinating the following spring.

Ergot bodies, called *sclerotia*, are large, black, grain-shaped formations that germinate in late spring and produce mushroom- or drumstick-like, spore-producing structures. The spores are released and are distributed by wind or insects to the heads of flowering grasses or cereal plants.

Plants are most susceptible when the flower is fully open and the anther (the male part of the flower) is exposed.

Because they are open-pollinated, rye and grass crops are the most susceptible to ergot. Wheat is self-pollinated, but is still susceptible. Oats is seldom affected.

Morrall said outbreaks of ergot do not denote poor farming techniques.

"Ergot is out there all the time, but only occasionally will the right environmental and plant development conditions coincide to produce a widespread ergot problem."

In Saskatchewan, the last significant ergot outbreak was in 1999. The crop most affected that year was Canadian Western Red Spring wheat. Seventeen percent of wheat samples had ergot infection.

Ergot is prevalent in years when continuous moist conditions prevail in late spring and early summer. Moisture is needed initially on the soil's surface to promote germination of the ergot bodies. As well, wet, cloudy, cool weather extends the flowering period of plants and increases the window of opportunity for ergot spores to infect the florets.

Ergot becomes a problem when ergot germination coincides with the flowering of cereal plants, a window of seven to eight days, Morrall said.

Another agricultural condition thought to be linked to ergot formation is copper deficiency in the soil.

This is most often seen in sandy and light loam soils.

Copper deficiency affects development by causing the floret to stay open longer, making it more vulnerable to spore penetration.

Ergot infestation is generally most prevalent around the edges of cereal fields. That is because grasses around the periphery and in adjoining ditches are often heavily infected with ergot.

"Ergot has a two-stage transmission: native grasses flower earlier and become infected by the spores, and in turn, spread their spores to the later-blooming cereal crops," Morrall said.

Farmers taking a survey sample should walk well beyond the fringes of the field to get a true assessment of ergot in their wheat.

It is easy to spot because the black ergot formations are much larger than the kernels they replace. Formations can be up to 10 times larger than a wheat kernel.

Ergot bodies have a hard protective rind that is dark purple or black. Inside, the spores are white or greyish-pink. Heads may contain one or several ergot bodies.

The disease is usually most visible in late July or early August.

"Unfortunately, once you see the infection, it's too late to prevent it," said Curtis Pozniak, a durum wheat breeder with the Department of Plant Sciences at the University of Saskatchewan.

In Pozniak's research test plots in Saskatoon, 20 to 30 percent of spikes had ergot bodies last year.

He said most wheat varieties are susceptible, although some have genetic differences that may exacerbate the problem.

"If a variety is prone to sterility or a longer flowering period, it will be more liable to develop ergot."

Les Trowell of Trowell Seed Farms near Saltcoats, Sask., said some farmers in his area saw their wheat downgraded to No. 3 and even feed due to ergot contamination.

## DRAWING THE LINE

According to Canadian Grain Commission standards, the acceptable limits for ergot bodies per kilogram of wheat seed is 0.01 for No. 1 grain; 0.02 for No. 2; 0.04 for No. 3 and No. 4;

and 0.10 for feed.

Registered seed farms have their own guidelines.

Allowable limits in seed grain include one ergot body per kilogram for Canada Foundation, Registered and Certified No.1 or eight ergot bodies per kg for Canada Foundation, Registered and Certified No. 2.

Bruce Carriere, owner of Discovery Seed Labs in Saskatoon, didn't foresee an ergot-related problem for seed suppliers. He said testing is unnecessary because ergot contamination is easy to spot.

The best strategy for seed suppliers is to clean seed thoroughly. That will eliminate 99.8 percent of ergot bodies.

The same is true for farmers using bin-run seed, he added.

Carriere said using certified seed won't necessarily eliminate the possibility of ergot in a crop because the disease is a result of climate conditions and outside contamination once the grain is in flower.

Traditionally, ergot in wheat crops has been most common in eastern Saskatchewan, but according to Faye Dokken, provincial plant disease specialist with Saskatchewan Agriculture, it was reported in virtually every region of the province last summer.

She said if conditions are right, there is enough inoculum out there to generate another spike in ergot in the upcoming year or even two.

There are no chemical controls for ergot.

The best strategy is crop rotation.

"If you have ergot infestation in a particular field, be sure to rotate out of cereal crops the next year, and make certain the seed you're planting is free of ergot bodies," said Morrall. ♦

## Measures for controlling ergot

Wondering how to control ergot in your cereal crops? Here are six steps to set you on the right path.

### 1 HARVEST ERGOT INFECTED FIELDS SEPARATELY

Before harvest, scout the field thoroughly to determine where ergot development is worst. Since the spores often come into a field from roadside grasses, the highest level of contamination generally occurs around the edges of fields. Harvest these areas separately, bin badly contaminated seed separately, and transport it to the elevator separately.

Excessively infected grain may need to be destroyed by burning or burial. Burying infected grain at least four centimetres below the surface will prevent spore-producing 'mushrooms' from emerging through the soil.

Delaying the harvest of a standing ergot-infected crop will allow more ergot bodies to fall out of the head. In mature, standing crops, under very windy conditions, the ergot will be loosened or shaken off. Under ideal conditions, this can reduce the amount of ergot contamination in the harvested grain by 70 percent or more.

### 2 PRACTICE CROP ROTATION

Ergot bodies usually don't survive in the soil for more than a year. Since broadleaf plants are not affected by the disease, they are a good rotation option for at least one year in the infected field.

Avoid planting spring cereals next to winter cereals.

### 3 CLEAN YOUR SEED

Ergot is easy to detect and relatively easy to remove if proper seed cleaning equipment is used. It may mean extra work and cost, but it could save a grade at the elevator.

### 4 SOW CLEAN SEED

Even if two-year-old seed isn't 100 percent free of ergot bodies, it should be relatively safe to plant because of the reduced viability of the ergot contaminants.

A word of caution, however. Do not feed any seed containing ergot bodies (no matter how old they are) to livestock. Even non-viable ergot bodies contain toxic alkaloids.

Ergot-infected forage grasses, which are particularly susceptible to ergot, can prove dangerous, even fatal, for grazing livestock. Feed rations that contain 0.5 percent ergot by weight can cause reduced feed consumption and weight loss. Heavier ingestion can result in a variety of symptoms including convulsions, gangrene, central nervous system destruction, lameness, hyperthermia (increased body temperature), interrupted milk production, prolonged gestation and death.

### 5 KEEP THE SURROUNDING AREA CLEAN

To eliminate hosting opportunities during the first stage of the ergot cycle, mow around headlands, ditches and roadways to remove adjacent grass stands well before they come into flower and set seeds. This will diminish the possibility of ergot spores being transferred to flowering cereals nearby.

Meadow foxtail is extremely susceptible to ergot.

### 6 CHECK YOUR COPPER LEVELS

Applying copper fertilizer to copper deficient soils (those with levels below one ppm) can reduce or eliminate ergot in wheat and barley.

— POLACHIC



# Ergotism

From witchcraft to gangrene to convulsing cattle, the impact of ergotism has been bizarre and frightening.

**WHAT'S OLD IS** new again in the case of a crop disease known as ergot.

Ergot is a fungal infection that attacks cereal crops and forage grasses.

Ergot-infected plants have one or more large black formations in place of regular kernels.

These ergot bodies contain toxic alkaloids that remain active even after the grain is milled or processed. Ingestion causes a severely debilitating condition called ergotism.

In centuries past, ergot commonly infected rye crops in rainy years.

When the infected grain was milled and made into bread, the impact was dramatic and frightening.

Symptoms affecting people who ate bread made from ergot-infested grain included constricted blood circulation, which resulted in freezing or burning sensations followed by gangrene of the extremities.

Many people lost fingers and toes, even hands and feet. The intense burning sensations gave rise to the condition called St. Anthony's Fire.

Victims also suffered mental aberrations, hallucinations and sensational fears of insects crawling under their skin. Many became manic. They lost their ability to speak and developed various forms of paralysis or tremors.

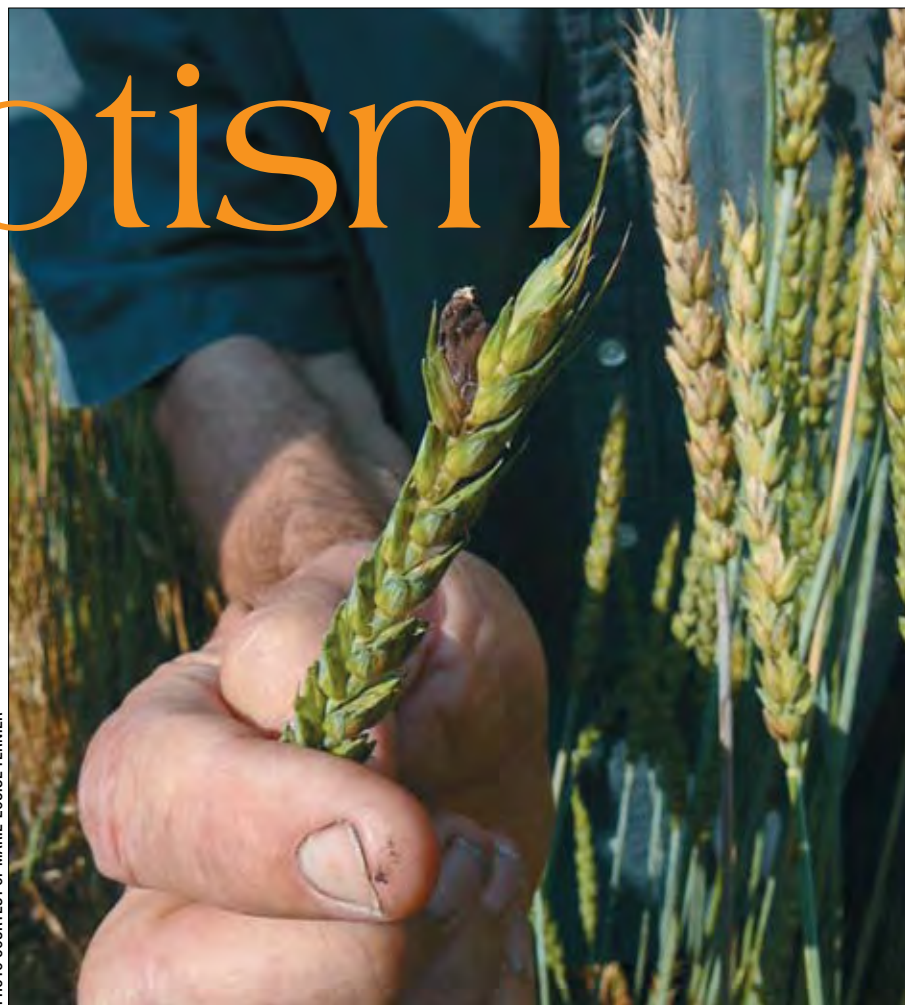
It wasn't until 1670 that ergotism and its cause were identified by a French physician named Thuillier. He recommended the separation of ergot bodies from healthy grain before milling.

Despite Thuillier's advice, the problem of ergotism continued to be widespread in Europe and later in North America.

## DOWN THROUGH HISTORY

Ergotism was first documented in a 1676 letter

PHOTO COURTESY OF MARIE-LOUISE TERNIER



to the French Royal Academy of Sciences.

In his 1722 quest to conquer the warm water sea port of Constantinople, Russian emperor Peter the Great got only as far as the mouth of the Volga River because an ergot outbreak poisoned his soldiers and their horses.

Today, medical researchers wonder if ergotism may have been a factor in the inexplicable behaviour of people who were later accused of bewitchment. Some historians theorize that the Salem witch trials of 1692 may have been linked to a widespread case of ergotism.

The most recent large-scale outbreak of ergotism occurred in 1951 in the village of Pont-Saint-Espirit in the south of France.

In August of that year, more than 150 people in the village of 4,000 began suffering from strange visions and hallucinations.

They writhed in agony in their beds, vomited uncontrollably, experienced heartburn, stomach cramps, chills and fever, and complained of a terrible burning sensation in their limbs.

Some victims ran crazily through the streets. Those worst affected feared that tigers were eating them alive, balls of fire were shooting toward them and great red flowers were blooming out of their bodies. A few believed they could fly and jumped out of windows to prove it.

This behaviour seems eerily similar to

reactions associated with LSD, a hallucinogenic drug that would soon become prevalent on the world scene.

Some of the compounds in LSD are the same as those found in the alkaloid components of ergot.

In Pont-Saint-Espirit, the bizarre manifestations were soon traced to the fact that every one of the victims had eaten bread from the shop of a certain baker.

Gendarmes went from house to house collecting pieces of the deadly bread, which were sent to a lab in Marseille for analysis.

Results showed that the flour used in the bread was infected by ergot.

Today, modern grain cleaning methods remove ergot from grain before it is milled or used for animal feed.

Nonetheless, ergotism can still occur where cattle producers rely on grass hay for winter feed.

Ergot infected grass can cause cattle to lose ear tips and other extremities during very cold weather due to constricted blood circulation.

Cattle may also experience convulsions, hyperthermia, declining milk production, gestation problems, abortions and death.

— POLACHIC

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# Grassroots learning

By Shannon Moneo  
Freelance writer

A new seed industry course is taking root in Canadian colleges and universities.

**THE CREATOR OF** a program that teaches post-secondary students about the certified seed industry is hoping the course will take root in classrooms across the country.

"Our system has forgotten that our civilization is based on seed," said Claude Caldwell, a professor at the Nova Scotia Agricultural College in Truro, N.S.

"This course will put that back into the classroom."

Caldwell, who has a Ph.D in plant biophysics, has been teaching the new course on a trial basis to about 80 students in Nova Scotia.

The course, which is formally called "Seed Growing and Certificate for Sustainable Agricultural Systems," went through three drafts during the past year.

It is aimed at students who are leaning toward agricultural studies.

"The students are responding really well to the labs and the hands-on material," Caldwell said.

In December, information about the course was sent to about 20 contacts at post-secondary institutions across Canada.

Feedback will be sought over the next year or so, in hopes that the program can be fine tuned and offered to students in at least five more post-secondary institutions by fall 2009.

The development of the seed growers course was spearheaded by Manitoba certified seed grower Robert Stevenson.

About two years ago, when Stevenson was chair of the Canadian Seed Growers Association education and publicity committee, he was prompted by other CSGA members to look into the idea.

Stevenson's son Sid had just finished his second year of agriculture at the University of Manitoba.

"After two years of agriculture, there was virtually no instruction on pedigreed seed," Stevenson said.

"And it was apparent there would be none."

When Stevenson earned his agriculture degree at the U of M years ago, he studied seed

production systems. But for some reason, in the 1980s, seed studies were put on the back-burner, and later were buried altogether.

Spurred by the lack of course offerings, Stevenson took his plan to develop a seed course to the CSGA membership, which approved his request.

The CSGA agreed to spend \$21,000 to develop the new program.

Caldwell said many students enrolled in the program have little knowledge about the seed industry or the role that high-quality seed plays in ensuring a healthy and profitable agriculture sector.

When he had his students perform basic seed viability tests, he sensed their appetite to learn more about seed.

"I see first-year students who have never planted anything," said Caldwell, who has been teaching in Nova Scotia for 25 years.

"We looked across the country and there's not being much taught about seeds."

According to Caldwell, the lack of seed-related education at the post-secondary level can be blamed partly on the increasing emphasis on other areas, such as plant breeding and cryogenetics.

The practical, earthy approach to agriculture is taking a back seat to high-tech learning.

"It's not sexy enough. We need to put the sex back into it," he said.

Caldwell, a CSGA national director who previously served as a seeds and oilseeds specialist for Agriculture Canada, was asked by Stevenson to develop the ground-breaking course.

"The goal is that every student that graduates from an agricultural college should have an understanding of the pedigreed seed system," Stevenson said from his farm near Kenton, Man.

Canada's seed sector can't be underestimated, Stevenson added.

In 2007, it created about 14,000 direct jobs and

generated almost \$4 billion in revenues.

So far, Caldwell has done an excellent job developing the program, which could eventually be used as a common training platform in all seed sectors, Stevenson said.

To build the course, Caldwell solicited input from several sources and developed three teaching modules.

The first module is aimed at first-year agriculture students but is also well-suited to science or commerce students, Stevenson said. There are two lectures and one lab, done over one week.

The second module is targeted at undergrad or diploma students who are leaning toward a career in seed growing. Over two weeks, there are five lectures and three seed labs.

The final module is for graduate students. Over a one month period, they perform lab work and explore complex seed industry issues such as national and international seed policies.

The modules can easily be incorporated into existing studies, such as cropping systems or farm diversification, Stevenson added.

The course will not use a textbook. Instead, course materials are available on-line, Stevenson said. The material will be available free to universities and colleges but people who want to use the material must request access.

The Canadian Food Inspection Agency and the Canadian Seed Trade Association have already expressed strong interest in the course.

Some of their staff don't have a seed background so this course would provide valuable basic knowledge.

Plans to modify the first two modules so they can be studied on-line by CFIA and CSTA staff are being considered, Caldwell said.

For Stevenson, the seed course germinated too late.

"I just wish we'd done it sooner. I'm disappointed my son will never be able to take it," he said. ♦



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# KVD's swan song

By Barb Grindler  
Freelance writer

The elimination of KVD is running smoothly but the real impact of the move may not be felt for several years.



**RECENT CHANGES AFFECTING** the Canadian seed industry will make it easier for plant breeders to get new varieties into the hands of Western Canadian farmers.

Key among these changes was the Aug. 1, 2008 elimination of the kernel visual distinguishability (KVD) requirement for all wheat seed classes other than Canadian Western Red Spring (CWRS) and Canadian Western Amber Durum (CWAD).

The KVD requirement for these two classes, which account for 62 percent and 26.5 percent respectively of all wheat grown on the Prairies, will be eliminated within the next two years.

KVD is a visual assessment method that allowed grain inspectors to distinguish one wheat class from another, quickly and inexpensively.

However, plant breeders felt that requiring new wheat varieties to be visually distinct from existing varieties impeded the development and commercialization of innovative new varieties.

Though it's still early, wheat producers are being asked to sign affidavits at each elevator where they deliver wheat and to verbally declare the class of wheat being delivered in each load.

"Right now, all the varieties being grown still fit the visual differentiation that was needed under the KVD system, so there's not been any problem," said Ed Lefsrud, an Alberta grain producer and president of the Canadian Seed Growers Association (CSGA).

"In the future, growers are going to need to know what's in their bins and will have to match the varieties (they grow) to the correct wheat class. It puts an extra burden on the farmer."

According to Dale Adolphe, executive director of the CSGA, the elimination of KVD requirements will put extra pressure on western wheat growers.

They will need to monitor seed supplies more closely, either through careful buying, varietal testing or increased use of certified seed.

"I think we will see some increased sale of certified seed, but that's not the purpose of removing KVD," said Adolphe.

"Only 16 percent of the wheat planted now is blue tagged, so things won't change overnight in that regard. Growers will need to actually believe in the benefits of certified seed — for better disease resistance, better yields and weed-free status — if use of certified seed is going to increase much."

Under the Canadian Seeds Act, KVD has been used as a tool to help separate wheat delivered at the elevators into eight main classes.

The act required that grain varieties in each class have an easily identifiable, similar appearance. According to most plant breeders, this restriction has hampered research and registration of potentially better varieties.

## RESEARCH-FRIENDLY

Plant breeders Ron DePauw and Brian Fowler agree that KVD served a useful purpose in the past, but both feel its removal is long overdue.

The system imposed unnecessary conditions on plant breeders and limited the varieties available to commercial grain producers.

"The KVD system has been the cause of too many lost opportunities," said DePauw, who works at Agriculture Canada's crop research facility in Swift Current, Sask.

"It's placed too many unnecessary restrictions on the industry and strongly limits the breeder's ability to advance high yielding varieties, especially in the CWRS class. Removal of KVD will make it

easier to register new varieties because it delinks kernel shape from quality and yield."

DePauw agreed that farmers will be forced to keep closer tabs on the type of seed they use.

"Growers will have to be super aware of the seed class they plant and sell. They may find it makes sense to buy more blue tagged seed in place of some brown bagged."

Fowler, a plant breeder with the Crop Development Centre at the University of Saskatchewan, said Canada has been patting itself on the back for its high quality cereals for too many years.

"What we were calling a quality assurance program for wheat, using KVD, just wasn't working, nor have we been able to access global markets. Australia's had an affidavit system for years and they're making huge gains in wheat exports," he said.

"On the Prairies, the acreage planted to wheat has stagnated. There's been a loss of more than 10,000 acres in the last few years, to the point where wheat's become just a rotation crop in a lot of locations."

Although Fowler thinks it will take at least two or three years for the system to improve significantly, he noted that two new varieties not regulated by KVD requirements have already been supported for registration. Three other varieties — Accipiter, CDC Ptarmigan and Peregrine — have also been registered under the new Canada Western General Purpose (CWGP) class, aimed primarily for high yield wheat varieties used for feed or ethanol fuel stocks.

"We've been spending about \$2 million on winter wheat breeding programs in western Canada, but we've had this outdated system that

kept us from taking advantage of the gains we've made," Fowler said.

"Under KVD, there hadn't been any new varieties of winter wheat registered in western Canada in more than six years."

## GAUGING IMPACT

The Canadian Food Inspection Agency (CFIA) has also removed KVD requirements on imported wheat and imported seed of unregistered wheat varieties.

Unregistered varieties can be imported for the purpose of seeding by the importer, for production of pedigreed seed — either for export or in anticipation of Canadian registration — or for research purposes.

The import of unregistered varieties for commercial production and sale is prohibited.

"The Seeds Act still doesn't allow unlicensed varieties, so I don't see the flood gates opening up to tonnes of U.S. grain coming into the country," said Adolphe.

"But it might be a factor in expanding our ethanol industry."

Adolphe also noted that the CSGA, in conjunction with the Canadian Grain Commission and the CFIA, is looking at a streamlined process for deregistering old crop varieties.

This will give seed developers the choice of abandoning or maintaining little-used crop lines.

The Saskatchewan and Manitoba Pork industries have strongly supported the elimination of KVD, noting it's been an obstacle to the development of higher yielding and less expensive feed wheat varieties that are needed to maintain a competitive Canadian pork industry.

Pork industry stakeholders say the removal of

KVD in Ontario resulted in a surge of new red wheat varieties and improvements in winter wheat yields from about 63 bushels per acre to 72.4 bu. per acre.

Shaun Haney, a fourth generation producer and seed dealer in southern Alberta is also happy with the elimination of KVD.

"Canada is the only country in the world to use such an antiquated system for separating wheat. It's held back private genetics research on cereals and it makes the job of the public breeding labs so much harder," he said.

However, not everyone in the industry is in favour of the changes.

Elevator operators have suggested there may be grain-handling problems if new varieties or classes proliferate.

Many small grain growers as well as the National Farmers Union have suggested the elimination of KVD will benefit plant breeders and large grain companies rather than individual producers.

They also worry that there's really no other cost-effective and easy method for distinguishing one class of wheat from another.

Greg Penner, president of NeoVentures Biotechnology in London, Ont., said concerns about the lack of KVD alternatives are unfounded.

Penner said his company is on target to introduce a reliable fluorescent detection system in fall 2010. ♦

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# WGGRF keeps Canada competitive in grain game

By Shirley Byers  
Freelance writer

The Western Grains Research Foundation has provided a boost to Canada's grain industry. Stakeholders take a look at the past, the present and the future of the foundation.



FILE PHOTO

**IN THE WORLD** of personal investment, financial returns of \$12.40 or \$4.40 on each dollar invested would be considered pretty decent results.

According to an independent study, these are the returns that western Canadian farmers realize on barley and wheat checkoffs that fund the Western Grains Research Foundation (WGGRF).

The private firm Tesco Consulting Ltd., in conjunction with University of Saskatchewan agricultural economists, conducted a Return on Investment (ROI) study for the WGGRF in 2005.

"Funnelling money back into research and variety development, that's the big key for it all," said Tim Charabin, a North Battleford, Sask., seed grower and past president of the Saskatchewan Seed Growers Association.

"Without variety development, we wouldn't have increased yields, disease resistance, insect resistance, sprouting resistance — the whole gamut for all varieties. (Before the WGGRF) it was looking bleak for funding for research dollars into variety development, especially in cereal grains.

## HISTORY OF WGGRF

In 1981 the federal government found itself with \$9 million left from the discontinued Prairie Farm Assistance Act, a forerunner of the current

crop insurance program. The WGGRF was created to administer those funds.

Made up of several Western Canadian farm organizations and a representative from Agriculture Canada, the new foundation had a mandate to fund research and partner with other research providers.

At the time, research was sorely needed.

By the late 1970s, public breeding programs were decreasing in Canada and there was little interest from the private sector.

At the same time, some of Canada's major grain exporting competitors such as Australia had significantly increased their breeding programs and Canada was in danger of being left behind.

The first act of the WGGRF was to establish an endowment fund.

The fund used interest from the \$9 million to conduct research on all crop types.

Since its inception, the fund has provided more than \$19 million for plant breeding projects and agricultural research.

The WGGRF receives grant applications annually for projects that meet endowment fund criteria.

Funding is awarded to projects that are one to three years in duration.

In the 1980s and early '90s, when interest rates ranged from eight to 18 percent, the

endowment fund provided about \$500,000 annually to crop research projects. As interest rates fell, this was reduced to about \$200,000 per year.

Decisions on funding approvals and allocations are based on the advice of an endowment fund advisory committee. Half of the members of this committee are WGGRF directors and half are representatives from the research and industry communities.

Funded projects for 2008 included the development of designer wheat varieties for the biofuel industry, the development of a rapid ID technology to replace kernel visual distinguishability (KVD), genetics studies that look at early maturity in Canadian spring wheat, and the development of co-ordinated risk monitoring, forecasting and risk warning systems aimed at minimizing insect damage.

The passage of Bill C-50 paved the way for wheat and barley checkoffs, which began in the 1993-94 crop year.

The WGGRF was chosen to administer the funds and provisions were made for an opt-out system, allowing farmers a chance to reclaim the checkoff dollars they have contributed.

To date, less than five percent of farmers have chosen to opt out.

At the same time, WGGRF began developing

long-term funding agreements with plant breeding institutions. These agreements outlined how the check-off funds were to be used. The first long-term agreements expired in 2004 and new agreements were implemented in 2005.

Today, through Canadian Wheat Board final payments, the WGGRF is authorized to collect 30 cents on each tonne of wheat delivered and 50 cents on each tonne of barley.

In Alberta, the barley checkoff is collected by another organization. All checkoffs go directly to the development of new varieties of wheat and barley.

To date the checkoffs have generated more than \$3 million annually and have helped fund the development of more than 55 new varieties of wheat and 25 varieties of barley, with more in the pipeline.

The Railway Revenue Cap is a third source of funding for WGGRF.

In 2000, the federal government under the Canada Transportation Act chose the WGGRF to receive money deemed to be in excess of the revenue cap provisions that govern Canada's two railways.

Excess funds plus a penalty of five percent are invested into the WGGRF endowment fund. To the end of the 2006-07 crop year, the endowment fund had received more than \$2.5 million from this source.

## FARMER FUNDED, FARMER DIRECTED

According to WGGRF chair Keith Degenhardt, the cornerstone of the organization is that it is non-profit, farmer funded and farmer directed.

"There are two ways that works," Degenhardt said.

"The farmer directors represent their different groups. They take information from WGGRF ... to their producers and say, 'Is this what you need? Is this something that will be useful?' And they come back with their producers' feedback.

"Also, for the wheat and barley checkoff we have a wheat advisory and a barley advisory committee. On those committees, we have farmer directors from the different groups, as well as the breeders, the marketers and the buyers. Recently we've added a representative from the livestock feeding community.

"They sit around the table and give the parameters of what they need. From that discussion, targets are set out for the breeders to shoot for and these targets will have quality parameters tied around them, yield parameters tied around them, agronomic parameters tied around them — such as disease resistance, insect resistance and so forth."

## SUCCESS STORIES

Brian Rossnagel, a plant breeder with the University of Saskatchewan's Crop Development Centre in Saskatoon, says WGGRF funding provides



FILE PHOTO

critical support for plant breeding efforts.

"All of the barley varieties that have come out of the University of Saskatchewan over the last half dozen years or so have had some of the costs covered by the checkoffs," said Rossnagel.

In recent years, WGGRF funding has helped in the development of more than 20 barley varieties including promising malting lines CDC Kendall and CDC Copeland.

For years, Harrington was king in the malt market, but developing new varieties is key to maintaining a competitive industry.

"It's like having one of anything — it's always risky," said Rossnagel.

"If you can have two or three (preferred malting varieties) there's a little balance. Right now, the major malt variety in Western Canada is AC Metcalfe, which comes from the Brandon Ag Canada program, and two of our varieties — CDC Kendall and CDC Copeland."

Researchers at Lacombe, Saskatoon and Brandon launched a new set of malting varieties in 2008 but those are still years away from commercial production, he added.

"Barley's a very standard crop," said Rossnagel. "But it has lots of potential still in Western Canada, particularly malting barley, which sells at a premium as malt or malting barley on the international market.

Certainly Saskatchewan in particular is well situated to grow high quality barley if they have the appropriate varieties that the marketplace wants to buy and that marketplace is quite variable."

WGGRF funding has also contributed to advances in wheat breeding.

Accomplishments over the past decade or two include potential yield increases of 10 to 20 percent, multiple resistance to major diseases and pests, and the development of new varieties in emerging classes such as Canadian Prairie Spring, extra strong durum and hard white spring wheat.

"Hard white wheat was developed when

the marketer came back to us saying in some markets they were being beaten up because of the Australian white wheat," Degenhardt said.

"If you have a white wheat, even if you have the same quality as a red wheat, you'll get a higher milling yield from the white wheat because on that outer skin, when you're removing the seed coat, you have to remove more of the endosperm to get rid of that red colour (so you can) get really white flour. With white wheat, you can remove less and you actually get a higher milling yield from it."

Degenhardt also noted significant improvements in Canadian spring wheat varieties.

"These are aimed at markets where they're looking at low rise bread — the mid-East market," he said.

"There are now wheat varieties that can produce a product for those markets. In the past we had just the hard red spring wheat. Now, we can grow the CPS wheat as well, penetrating a different market."

## LOOKING TO THE FUTURE

Check off dollars — how to collect them and how to distribute them fairly — is one challenge the WGGRF faces as it goes into the future, Degenhardt said.

Wheat and barley checkoffs are collected from the CWB final payments. The role of the wheat board could change and wheat markets might change as well, as new uses such as fuel production become more prominent.

For example, if the market for ethanol wheat takes off, it could mean much less wheat going through the wheat board.

"If we are going to be developing good ethanol varieties, we should be collecting dollars off the wheat sold to the ethanol industry," said Degenhardt.

In the case of barley, much of the CWB barley is malt but producers are growing feed, forage and food varieties as well.

Even accounting for possible changes to the collection protocol, is the WGGRF research funding system adequate? Will it allow Canadian farmers to remain competitive in international grain markets?

"Relative to some of our major competitors, we are spending significantly less, regardless of what commodity you're talking about," Degenhardt said.

"When you look at what our restraints are and what our challenges are and compare it to what, for example, is going on in the U.S., I think we're doing very well, but we aren't spending near the amount of dollars that they are and when you look at Australia, we're about one tenth of their expenditure.

"You could say we're more efficient but I think also we have some very dedicated breeders." ♦



# Semi-leafless peas a boon to prairie pulse growers

By Barb Grindler  
Freelance writer

**TWENTY-FIVE YEARS** ago, Canada was a minor player in field pea production.

Then came European genetics, which allowed the prairie provinces to become the world's leading producers of green and yellow peas.

Mark Olson, a pulse breeder with Alberta Agriculture's Stony Plain facility, explains the transition.

"Prior to that period, we were growing only modest quantities of the fully-leafed varieties, but they were too tall, too late maturing and had poor standability. Canadian breeders started working on incorporating the traits of the short, semi-leafless, vining lines in the mid-1980s and have since come up with varieties well suited to Canadian conditions," Olson says.

"Because these new varieties have almost no foliage, there was less potential for leaf diseases to develop. The tendrils on adjacent plants of these semi-leafless types intertwine, to provide better support. This also makes harvesting easier."

Further research on Canada's pulse crops became easier in 2005, when royalty collection began on varieties developed at the University of Saskatchewan Crop Development Centre. This money is used to support pulse crop breeding programs.

Saskatchewan produces about 80 percent of all field peas grown in Canada. Another 15 percent are grown in Alberta and the rest primarily in Manitoba. Last year, peas were grown on more than 2.5 million acres in Saskatchewan.

Olson says the world market for peas has grown as consumers have recognized their low-cost nutritional benefits and livestock producers have realized they are an excellent source of protein.

Researchers are now looking at the dietary role of peas in the production of better quality, more tender beef. Peas can also replace corn in lamb finishing diets.

The role of peas in improving soil conditions for subsequent crops in rotational patterns has long been recognized and scientists are also investigating the use of yellow pea flour as a



FILE PHOTO

safe insecticide for stored grains.

Twenty years ago, there were significant differences in the characteristics of pea varieties, but today it's hard to find a bad variety, Olson says.

"All field peas are now regulated to have very good resistance to powdery mildew, thanks to genetic improvements, and most have an early planting window from the middle to the end of April.

"Mycosphaerella blight (ascochyta) is still a big problem in all varieties, but it's controllable with a spray. Really, choosing the best variety of field pea is more a question of suiting the pea to a grower's location and individual practices."

Olson says growers must pay attention to seed quality regardless of variety.

"Pea seed is highly susceptible to mechanical damage during harvest, handling and seeding operations. The seed is dry and brittle and can easily crack or split. This can greatly reduce germination and yields."

Allison Fletcher, commercial manager at the Saskatchewan Pulse Growers, says CDC Golden was the most commonly grown yellow pea in the province in 2008 and will probably maintain that standing in 2009. Released in 2003, Golden has good lodging resistance and good yields, especially in the south. Seed is in good supply for the 2009 crop year.

CDC Bronco was the second most common variety grown in Saskatchewan last year and

should also be widely available in 2009. Yield potential is slightly higher than Golden.

Also available in commercial supplies for 2009 will be CDC Meadow, a high-yielding yellow pea that matures a few days earlier than Bronco. Supplies are good for 2009.

Fletcher says CDC Centennial, a new yellow pea that promises higher yields and earlier maturity, won't be available in commercial quantities until 2010.

CDC Striker, a cultivar released in 2002, has become the most commonly grown green field pea in Saskatchewan, Fletcher says. It offers good yield potential and good lodging resistance, with a medium-sized, round seed. It does well in pea growing

regions across western Canada and should also be widely available for the coming season.

CDC Sage, released in 2005 for distribution to select seed growers in Saskatchewan and Alberta, promises good lodging resistance and yield potential for western Canada pea growing regions. It should be available in reasonable supplies in 2009.

Fletcher says the newly named CDC Patrick is expected to be an excellent yielder in the north, but won't be available to commercial growers until 2011.

Alberta growers generally favour yellow peas because bleaching isn't as much of a problem to meet top grade standards.

Yves Dooper, research extension manager with the Alberta Pulse Growers Commission, says SW Midas, Delta, Eclipse and CDC Golden were in greatest production in 2008.

"We're working with some newer varieties that will probably have an impact in the near future. CDC Meadow is gathering some interest among producers and I think we'll see a move to Cooper as a high yielding green pea. Thunderbird, a yellow pea with taller plants and shorter, narrower stipules, has been doing very well in trials, especially in terms of standability."

Eric Klassen of Johnson Seeds says Eclipse and Cutlass are still the varieties most often grown in Manitoba, but he expects CDC Meadow will be in high demand when supplies are more readily available in his province. ♦

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# Seed treatments

## There's a right way to store treated seed

By Barb Grindler  
Freelance writer

**SEED TREATMENT CAN** increase yield and help insure crops against infection and insects. Though it's best if seed treatment occurs as close to planting as possible, there are occasions when growers wind up with more treated seed than they can use in one season.

Are there ways of storing treated seed so it keeps its vigour and chemical potency for next year's crop?

According to Roger Rotariu, seed treatment product manager with Bayer Crop Science, treatment chemicals are guaranteed to maintain their original effectiveness for at least 18 months.

"The effectiveness of the seed treatment itself won't deteriorate or degrade over time, but seed germination can be affected by long storage," he says.

According to Rotariu, farmers who treat their own seed should make sure the chemical is evenly distributed.

"Unequal distribution on the seeds can impact immediate performance as well as storage capabilities."

Most of today's seed treatments are water-based rather than oil-based, and are applied in small concentrations, says Bruce Carriere, president of Discovery Seed Labs in Saskatoon.

"It used to be you could get just a drop of chemical somewhere on the seed and it would provide adequate protection. Now, you have to make sure the entire seed is coated, because there's such a small amount of active ingredient involved."

Though seed treatments don't usually affect seed performance, there may be exceptions. Studies in the United States have shown hullless



FILE PHOTO

barley germination and vigour decreased with some seed treatments, particularly if the seed is treated well before seeding. Some producers also say storage of treated seed, especially bagged canola, is critical.

For most cereal seed however, cool and dry are the major considerations when storing treated seed, Carriere says.

"Freezing isn't a problem if you can keep the seed frozen. Fluctuations in temperature and humidity are issues with any seed, treated or not. You also need to store any bagged seed on pallets. In fact, if you can avoid a place with a dirt floor altogether, it's even better.

"If you're storing treated seed in a bin, you need to keep the bins full," he adds.

"Any head space in a bin heats and cools more easily than the packed seed and this can lead to fluctuations in humidity and eventually wet seed. Mini bulk bags are good, because you can pack them as needed and then close the tops to exclude excess space. And, of course, you need to tag the bins or bags."

Carriere and Rotariu both caution growers to check seed quality carefully before storing it, especially if they're handling pulse crops.

"Pulse crops can easily develop cracks or hairline fractures during harvesting and these

can affect germination, yield and quality in both treated and untreated seed.

"Unless the fractures are so small you can hardly see them, you'll get poor results," Carriere says. "Actually, some treatments, like metalaxyl fungicides, will improve germination of peas with hairline fractures.

"Today's seed treatments are safer to store and handle than those used in the past," says Carriere.

"When lindane, organophosphates and other nerve toxins were commonly used, storage posed more health and safety issues. Today's products are safer for the grower's health and for the environment, but all chemical products need to be handled with care."

Experts say farmers who store treated seed should take the same handling precautions as when they're treating the seed or sowing it.

Operators should wear rubber gloves and other protective clothing and use a respirator designed for the specific chemicals involved. They should also wash their hands and face thoroughly after handling treated seed and avoid inhaling the dust when filling bins or bags.

Both men also caution growers to make sure any seed they store, treated or not, is clean and free of weeds, insects and other seed species. ♦

# Fenugreek's future in food processing, nutraceuticals

By Shirley Byers  
Freelance writer

**IT STARTED ABOUT** 15 years ago, when Blaine Sudom and his business partner, Cal Kelly, heard University of Saskatchewan researchers talk about fenugreek.

They wondered if this ancient legume might be a viable crop in Saskatchewan and decided to give it a try.

Also known as Greek hay, fenugreek originated centuries ago in India and the eastern Mediterranean. Today, India, Ethiopia, Egypt and Turkey are the major seed producing countries.

In spite of its parentage in more temperate climates, fenugreek did well in south-central Saskatchewan — so well that Sudom and Kelly began experimenting with processing the seed. By 1998 they had a small on-farm plant and in 2003 they built a large one. Today, Emerald Seed Products is certified to produce food grade and health grade products. It includes facilities for processing organic seed and buys conventional and organic commodities.

Fenugreek is loaded with galactomannan, an important ingredient in the world of food processing and nutraceuticals.

"If you're a label reader, you'll have noticed words such as guar and zanthan in lists of ingredients. These are a couple of galactomannans," Sudom said.

"Galactomannans provide additional viscosity in liquid food ingredients and they also can act as emulsifiers. Because they can bind to oils, they can be used to prepare oil and water solutions."

In ice cream, for example, galactomannan improves texture and reduces melt. It is also used in cream cheese, fruit preparations and salad dressings.

Another lucrative market for fenugreek galactomannan lies in the nutraceutical market.

"Fenugreek galactomannan is probably the best one in terms of binding to oil, so that gives healthful properties when it's put into food or natural health products," Sudom said.

Emerald Seed's galactomannan products include FenuLife for diabetics, low cholesterol and glycemic balance market, various products for the food market and a variety of seed extracts and organic products classified as nutraceutical, cosmetic or food.

Although it's been known for years that fenugreek has high proportions of galactomannans, the only known methods of

extraction involved solvents such as methanol, ethanol or hexane, Sudom said.

"Our initial research was done with those systems but they were very expensive. We were able to develop a water based extraction.

There's a kind of key process involved that we did discover and we were able to scale up a plant and now we're the only plant in the world that can

In the 12 years he's been growing fenugreek, Rennick has had yields as high as 50 bushels per acre and as low as six.

produce the kind of quality that we produce here and with a relatively economic system."

Joe Rennick, a pedigreed seed grower from Milestone, Sask., is a shareholder in the Emerald plant at Avonlea, Sask., and has been growing fenugreek since

1997. He uses a clover inoculant to encourage fenugreek's nitrogen-fixing abilities.

Eighty pounds of 26-30 fertilizer per acre seems to be sufficient, he said. Fertilizer should be side-banded near the seed or applied with a wider-spread opener. Odyssey and Poast have been registered for weed and wild oat control.

"The plant is really slow in starting," Rennick said. "It germinates within days but it only puts up two tiny little leaves, you hardly notice it's up. It might be three weeks before you can really see that it's up. .... it puts down its tap root first and then it takes off. Blaine said the best thing to do is seed it and then go away fishing for two weeks. A watched pot never boils."

Insects and pests haven't presented problems on his farm but wireworms and cutworms have been known to damage seedlings. Grasshoppers, aphids and blister beetles can also be pests. Dipel 2X (*Bacillus thuringiensis*) is registered for control of some insects in fenugreek.

Fenugreek seedlings are susceptible to damping off and may be vulnerable to other root rot pathogens such as rhizoctonia and fusarium.

Cercospora leaf spot can cause serious defoliation and can affect stems and pods but it has not been seen on fenugreek in Saskatchewan because it

prefers warm and humid conditions. Powdery mildew occurs on fenugreek but is not considered a serious problem. No seed treatments or foliar fungicides are registered for use on fenugreek in Canada.

The crop likes moisture, Rennick said. Yield will suffer in dry years. An average year should bring yields of 20 to 30 bushels per acre. In 12 years of growing fenugreek, Rennick's yields have been as high as 50 and as low as six bu. per acre. He harvests with a flex header on his combine and does not desiccate.

"Sometimes you have to wait a couple of weeks after you've harvested everything else but letting it mature naturally gives the good colour you want."

Fenugreek should be stored when it's cool and dry, at less than 12 percent moisture.

Sudom estimates annual Canadian fenugreek production at 1,000 acres, most of that in Saskatchewan and connected to Emerald Seed Products.

Some varieties can be used as a forage, useful for its non-bloating properties. Fenugreek has also been used for centuries as a spice in such things as curry. The variety grown for the spice market is highly aromatic.

"It's one of the ingredients in curry powder and some other foods but that's a very specialized market and we haven't made much headway in it," Sudom said.

A third type of fenugreek and the one mostly produced for Emerald is the variety Canafen, developed at the University of Saskatchewan. It has a higher galactomannan content as well as reduced odour and colour compared to traditional varieties.

Sudom said Emerald offers growers 18 cents a pound, or about \$11 per bushel. Contracts have been limited to Emerald shareholders but Sudom said that may change.

"We're developing bigger markets all the time and we think these markets are big enough that we're probably going to have to expand to other growers and other areas of the province. These products are produced and consumed in huge amounts around the world. So certainly there's tremendous potential there.

"We think it will be a good substitute for peas," he said. "If you can grow peas you can grow fenugreek." ♦





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# Weighing their options

By Stephanie Banks  
Freelance writer



FILE PHOTO

Some Saskatchewan grass and forage seed producers are looking for new cropping alternatives.

**SASKATCHEWAN PRODUCERS OF** pedigreed grass and forage seed are cutting back on acreage.

Between fall 2006 and fall 2008, pedigreed grass and forage seed growers in Saskatchewan reduced acreage from 49,454 acres to 36,947 acres – a drop of more than 25 percent.

Roy Van Wyk, an official with the Canadian Seed Growers Association in Ottawa, said the reduction may seem large but it doesn't signify a fundamental change in the industry.

"Production was down about 7,000 acres in 2008 (but) it's essentially not significant enough to show a trend," said Van Wyk.

Terry Ewacha of Pickseed Canada agreed.

"Initially we thought the decline would be more severe," Ewacha said.

Canadian grass and forage seed producers export pedigreed seed mainly to the United States, Europe, Argentina and China.

"In Saskatchewan, we export about 50 to 60 percent of the crops we grow," said Michel Tremblay of Saskatchewan Agriculture.

"The farmgate value of the seed is \$30 to \$35 million per year."

Bill Leask of the Canadian Seed Trade

Association in Ottawa said certified alfalfa, clover, perennial rye, creeping red fescue and timothy make up 80 percent of the total Canadian forage seed export market.

"The trend has been up over the last four years by quite a bit, but with all the global economic gyrations, exporters have been trying to keep on top of what's going on," he said.

In addition to fluctuating global markets, high prices for other crops has been a major factor behind declining acreage of pedigreed grass and forage seed.

According to Tremblay, the main competing crop is canola, but other commodity prices were also enticing last year.

"It's a natural cycle," said Tremblay. "We're at the bottom of the cycle now."

"Commodity prices jumped up and people went out and tore up their fields," added Norm Klemmer of Ag Vision Seeds in Carrot River, Sask.

Kirk Riglin, a grower at Elrose, Sask., agreed.

Riglin, who has 20 years of experience in the grass and forage seed business, said he plowed up 60 percent of his slender and crested wheatgrass in 2008.

"It's an economic thing," he said.

According to Klemmer, grass and forage seed producers were becoming discouraged by the low returns for pedigreed seed.

"There's not enough nickels in it," said Klemmer.

According to an industry report released in November 2008, grower returns for common annual ryegrass seed sank as low as 25 cents a pound last year.

"The grass seed market wasn't that great for several years, but I figured the price would come back," said Randy Tulloch, a grower from Broadview, Sask.

Prices for some products, including alfalfa, are recovering.

The most stable products tend to be wheatgrass, bromegrass, timothy, annual and perennial rye grass and alfalfa.

## MARKET FORCES

Global demand for grass and forage seed affects Canadian acreage.

For example, changes to programs like the U.S. Conservation Reserve program can sharply affect prices.

"U.S. farmers were paid to take land out of

production and seed to forage," said Nancy Gray of the Saskatchewan Forage Seed Development Commission in Watrous, Sask.

"I don't think that program is as heavily funded as it has been."

Fewer housing starts in the U.S. can also influence the demand for crops like perennial rye grass and creeping red fescue.

"Most of the grass seed that's grown goes into turf. The market for turf is much bigger than the forage market," said Tim Dyck of Brett-Young Seeds. Klemmer agreed.

"The turf seed market isn't there anymore. Our biggest buyers are the Americans and they don't have any nickels anymore," he said.

According to Ewacha, the exchange rate may work in Canadian growers' favour.

"As long as our dollar stays at around 80 cents, we have an advantage over U.S. growers," he said.

The fate of the grass and forage seed industry is also closely tied to the North American cattle industry.

A downturn in livestock can sharply reduce demand for crops like alfalfa, timothy, bromegrass and wheatgrass.

"Once BSE hit, it caused a big shift (in the forage industry)," said Gray.

Seed producers are also coping with farm labour shortages, farm expansions and demographic issues.

"Farms are getting bigger and farmers don't want to fool around with a few acres," said Gray.

"Our producers are getting older," added Klemmer.

"Once we lose these guys, they're not coming back."

Many pedigreed forage and grass crops are perennial and produce seed annually for four to seven years. However, the first crop can take as long as 17 months to mature.

The majority of grasses are harvested before cereal crops, which means farmers can spread out their workload and earn some early cash.

Seed companies do not expect a shortage of pedigreed grass or forage seed in 2009, but they do expect shortages in 2010.

"There's no carry-over to speak of in bromegrass, alfalfa and wheatgrass, so supplies may be tight," said Klemmer.



FILE PHOTO

Russian wild rye and red clover supplies may be particularly tight in the future.

Klemmer said prices for some crops have already increased, reflecting supply concerns.

Farmers usually start ordering forage seed in late December.

"In January and February, we'll see greater interest in purchasing from the U.S. and Europe," said Ewacha.

"There's going to be demand down the road," added Klemmer. "It'd be nice if people got into it ahead of time."

Despite market concerns, Tulloch is not going to plow under any of his pedigreed crested wheatgrass.

"You have to have some of it all the time to hit the peaks, so you're ready when the market goes up," he said.

"You can't chase the market. If you jump in and out, you won't make it." ♦

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Web Seed & Service Guide



# Strongfield, Lillian dominate in Saskatchewan

By Stephanie Banks  
Freelance writer

Results of the Canadian Wheat Board's annual variety survey show farmers are eager to try new wheat and barley varieties.

**WHEN IT COMES** to choosing wheat and barley varieties, Saskatchewan farmers continue to adopt new lines quickly, seeking to maximize yields and take advantage of better agronomic and disease packages.

Mike Grenier, agronomist for the Canadian Wheat Board, said new wheat varieties gained significant acreage in the province last year.

Lillian, a solid stemmed Canada Western Red Spring (CWRS) variety led the surge, increasing from 3.8 percent of CWRS acreage in the 2007-08 crop year to 24.1 percent in 2008-09, according to the CWB variety survey.

The survey, conducted annually, gathers information on eight classes of wheat and four types of barley.

"The first important trend that the survey showed is that farmers are sticking with two top classes — Canada Western Red Spring wheat and Canada Western Amber Durum (CWAD)," Grenier said.

"Eighty-eight percent of the total acres seeded on the Prairies were seeded to these two classes. In Saskatchewan, they account for over 90 percent."

Another trend is that farmers are quick to adopt new, improved varieties.

In just three years, Lillian has become the most popular CWRS variety in Saskatchewan, largely because it limits yield losses caused by insects.

"The variety offers solid stem characteristics and tolerance to wheat stem sawfly," said Grenier.

In Saskatchewan, the top ranking CWRS varieties were Lillian (24.1 percent), McKenzie (12.4 percent), Superb (10.7 percent), and AC Barrie (9.3 percent). The top three accounted for nearly half of the CWRS acres sown in the province last year.

Across the prairies, Harvest was the second most popular CWRS variety but in Saskatchewan, the variety has been slow to catch on, increasing from 1.7 percent in 2006 to 4.8 percent in 2008.

More than half of the durum sown in Saskatchewan last year was seeded to AC Strongfield, developed by Agriculture Canada.

5702HR became available commercially in 2008 and acreage rose to about 1.1 percent last year.

"It offers improved yield performance and disease resistance," said Grenier.

Infinity was available commercially in 2007.

In Saskatchewan, acreage increased from 2.2 percent of CWRS acres in 2007 to 5.2 percent in 2008.

"It's a robust wheat that yields six to seven percent more than AC Barrie in Districts 1 to 4 and it's got quite good pre-sprouting tolerance," said Ron De Pauw, senior plant breeder with Agriculture Canada in Swift Current, Sask.

"Plus it's got a niche premium opportunity."

## STRONGFIELD DOMINATES

Canada Western Amber Durum (CWAD) accounted for about 26.5 percent of the wheat grown on the Prairies last year.

Strongfield was the dominant variety.

In Saskatchewan, farmers seeded 52.1 percent of CWAD acreage to Strongfield in 2008.

"We're going to see that one dominate," Grenier said. "There's not much coming behind it."

Saskatchewan acreage of AC Avonlea and Kyle have decreased to 19 and 16 percent respectively due to Strongfield's growth.

In the Canada Western Red Winter (CWRW)

"The variety has improved sprouting resistance," Grenier said.

"It's the number one variety in Alberta."

According to Grenier, two new CWRS varieties, Infinity and 5702HR, are showing promise.

wheat classification, CDC Buteo was the top Saskatchewan variety at 57.7 percent of total acreage.

CDC Raptor declined to 9.8 percent and AC Bellatrix accounted for 8.1 percent.

Prairie-wide, the top Canada Prairie Spring Red (CPSR) varieties last year were 5700PR at 35 percent, AC Crystal at 23 percent and AC Foremost at 21 percent.

And in the Canada Western Soft White Spring (CWSWS) class, 95 percent of prairie acreage was seeded to AC Andrew. In Saskatchewan, production of CWSWS has increased due to ethanol demand.

The CWB survey also collects data on four types of barley — hulless, feed, six-row malting and two-row malting.

In 2008, farmers seeded less than one percent of their total acreage to hulless barley.

In Saskatchewan, the top two-row feed varieties were Xena at 52.7 percent, Conlon at 25.8 percent and CDC Dolly at eight percent.

The top six-row feed varieties were AC Rosser at 38.6 percent and AC Ranger at 28.9 percent.

According to the survey, prairie acreage of six-row malting barley increased slightly last year.

In Saskatchewan, Legacy continued to be the most popular six-row malting variety, accounting for 48.5 percent of total acreage. Tradition was second at 36 percent followed by Excel (7.2 percent) and Lacey (3.8 percent). Acreage of Robust declined sharply.

In Saskatchewan, the top-ranking two-rowed variety was AC Metcalfe, which accounted for 53.4 percent of total acreage, followed by CDC Copeland at 26.5 percent and CDC Kendall at 14.1 percent.

The CWB survey was conducted between June 10 and Sept. 26, 2008. More than 8,800 farmers completed the survey.

Complete survey results can be found at [www.cwb.ca](http://www.cwb.ca). ♦

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# HOW new seed varieties are registered in Canada

By Barb Grindler  
& Western Producer staff



FILE PHOTO

Registration of new seed varieties under the Seeds Control Act has been part of the agricultural regulatory process in Canada since 1923.

**TO DATE, WELL** over 5,500 varieties have been registered, more than 70 percent of them since 1975.

According to a history written by Grant Watson, former registrar of variety registration with the Canadian Food Inspection Agency (CFIA), the move to a mandatory registration process was adopted due to an influx of unscrupulous seed sellers from the United States who claimed their wheat seed would produce large yields, often in excess of 100 bushels per acre.

Since then, Canada's Seeds Act, and the registration process that it controls, have gone through many changes, but the mandate of the regulations remains the same: to ensure seeds sold in Canada and exported abroad are properly labelled and meet established standards for quality and varietal purity.

The process by which a new seed variety is developed, registered and made available to Canadian producers is long and complex, but in a nutshell, it follows seven important steps.

## STEP 1: Filling a need

Many different strategies are used to establish goals for new seed breeding programs, but most start with discussions between producers, end-users or other industry stakeholders about existing or future crop needs.

For example, the Western Canadian flax industry recently established Flax Canada 2015, a development strategy that will provide direction for flax breeding and production over the next decade.

The document sets out general research and development goals for human, livestock and use uses of flax. It also recognizes straw utilization as a priority for the future.

The cereal grain industry also has a proven system for identifying research and breeding priorities.

In the case of malting barley, consultations involving maltsters, brewers and other industry stakeholders help to identify important agronomic and end-use characteristics in new

malting barley varieties.

For other coarse grains, a producer checkoff that provides research dollars to the Western Grains Research Foundation is critical to the development of new varieties that provide greater yields, improved disease resistance or better agronomic characteristics.

Thus, before any breeding priorities are identified, industry needs must be discussed and identified through a broad consultation of industry stakeholders.

## STEP 2: The breeding process

Once breeding priorities or needs are established, plant breeders begin the exhaustive task of examining existing crop varieties for the traits they want to enhance or introduce to a new crop line.

When promising cultivars are identified, the germplasm is isolated. Then, through cross-breeding and genetic identification, new lines are developed.

These lines are again examined for the best combination of traits and the process is repeated until the desired traits are stabilized.

It typically takes 10 generations of cross-breeding to establish desired traits and to weed out undesirable qualities.

## STEP 3: Co-op trials

Once the new varieties are developed, exhaustive laboratory work moves to the field where the varieties are tested under actual growing conditions in appropriate regional locations.

These tests are co-operative efforts between the breeding institutions and producers, hence the name co-op trials.

Producers, researchers and industry representatives administer and evaluate the trials.

## STEP 4: Recommending new lines

Crop lines that perform well in co-op trials and offer significant improvements over existing varieties are selected to proceed to the appropriate crop recommending committees.

Members of these recommending committees assess whether the line is better than existing or "check" varieties.

Based on these assessments, the committee will make a final decision on whether to recommend the variety for registration by the CFIA.

In Western Canada, recommending committees include the prairie recommending committee for oilseeds (PRCO) which evaluates new lines of flax and oilseeds; the prairie recommending committee for pulse and special crops (PRCPSC) which evaluates pulse and special crop cultivars; the prairie recommending committee for wheat, rye and triticale (PRCWRT) which

evaluates cultivars of wheat, rye and triticale; and the prairie recommending committee for oats and barley (PRCOB) which evaluates and recommends lines of oats and barley.

These four recommending bodies exist as sub-committees of an umbrella organization called the Prairie Grain Development Committee, or PGDC. More information about the PGDC and its four subcommittees can be viewed at [www.pgdc.ca/](http://www.pgdc.ca/).

A fifth recommending body, the Western Canadian canola and rapeseed recommending committee (WCCRRRC), evaluates and recommends new lines of canola and specialty rapeseed.

Information on the WCCRRRC can be viewed at [www.canola-council.org/wcc\\_rrc.aspx](http://www.canola-council.org/wcc_rrc.aspx).

New crop lines recommended for registration in 2008 by the five committees appear on pages 40-51 of this year's guide.

If approved for registration, seed for the recommended varieties is usually made widely available to commercial growers within three to five years, depending on growing conditions during seed multiplication.

## STEP 5: Final approval

Recommending committees that evaluate new crop lines send their recommendations for registration to the CFIA's variety registration office (VRO).

The CFIA reviews the recommendations and assesses whether the varieties meet or exceed existing merit requirements.

After that, another eight-member advisory committee makes the final decisions on behalf of the VRO.

Most new lines that make it to this point are eventually approved by the VRO, although there

are exceptions.

Varieties of crops that received final registration from the CFIA's variety registration office between Nov. 1, 2007 and Dec. 1, 2008 appear on pages 52-57 of this year's guide.

## STEP 6: Commercial production

If a public or government institution, rather than a private breeder, submits a new crop line for registration and receives CFIA approval, tenders are sent to seed companies, which bid for the right to develop and sell the variety in commercial quantities.

Rather than tendering to the highest bidder, tenders are often awarded to a company that can most effectively make the seed widely available to growers at a reasonable cost.

Licensing fees and royalty revenues are also considered.

If the new variety comes from a private breeder, authority to develop the line is, of course, awarded to that company.

Once tendered, the seed is multiplied through the pedigreed seed process — from breeder seed to foundation to registered and commercially available seed — a process that usually takes three to five years.

## STEP 7: Sowing the blue tag

The blue tag that appears on all pedigreed seed produced in Saskatchewan signals to commercial growers that the seed they are planting is free of disease and meets or exceeds established standards in terms of germination, varietal purity and other criteria.

Using certified seed is highly recommended for producers who hope to maximize yields and grow healthy, disease free crops in Saskatchewan. ♦





FILE PHOTO

IN 2008, THE FOLLOWING NEW LINES WERE RECOMMENDED FOR REGISTRATION.

The prairie recommending committee for wheat, rye and tricale (PRCWRT) evaluates cultivars of wheat, rye and tricale. After new cultivars are evaluated, the committee determines which lines are suitable for registration and makes recommendations to the Canadian Food Inspection Agency's variety registration office.

## WHEAT

**BW359** – This Clearfield tolerant Canada Western Red Spring (CWRS) wheat offers high yield potential, semi-dwarf stature and a comprehensive disease resistance package that includes resistance to stem rust, leaf rust, fusarium head blight, common bunt and loose smut. In pre-registration testing, BW359 yielded three percent higher than AC Superb and matured two days earlier. BW359 was developed by Syngenta Seeds Canada.

**BW867** – This new Canada Western Red Spring (CWRS) wheat offers high yield potential, semi-dwarf stature, high grain protein concentration and resistance to stem rust, common bunt and loose smut. In pre-registration trials, BW867 yielded three percent more than AC Superb, and matured one day earlier. BW867 was developed at Agriculture Canada's Semi-Arid Prairie Agricultural Research Centre in Swift Current, Sask. It has been registered as AC Stettler.

**BW388** – This Canada Western Red Spring (CWRS) wheat offers high yield potential with improved tolerance to fusarium head blight and resistance to stem rust, leaf rust and common bunt. In pre-registration testing, it yielded four

percent higher than AC Superb, with similar maturity. BW388 was developed by Syngenta Seeds Canada.

**ES101** – This Canada Western Extra Strong (CWES) wheat offers high grain yield, semi-dwarf stature and resistance to stem rust, leaf rust, common bunt and loose smut. In pre-registration testing, ES101 yielded six percent more grain than CDC Rama and had better straw strength. It matured about one day later than CDC Rama. ES101 was developed at Agriculture Canada's Cereal Research Centre in Winnipeg.

**GP18** – This Canada Western General Purpose (CWGP) spring wheat offers high grain yield, semi-dwarf stature and resistance to stem rust, leaf rust, common bunt and loose smut. In pre-registration testing, GP18 was higher yielding than the Canada Prairie Spring (CPS) wheat checks and required similar time to reach maturity. This new variety delivers a new leaf rust resistance gene, Lr18, which offers protection against the disease. GP18 was developed at Agriculture Canada's Cereal Research Centre in Winnipeg.

**DT540** – This new conventional gluten strength Canada Western Amber Durum (CWAD) wheat offers high grain yield, very good straw strength

and a very good disease resistance package. In pre-registration testing, DT540 was best adapted to the moister areas of the durum-growing region, where it yielded similar to AC Strongfield. DT540 has excellent resistance to stem rust, leaf rust and common bunt, as well as improved tolerance to fusarium head blight. It has high protein, yellow pigment concentration and low cadmium uptake. This new line was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon and is registered as CDC Verona.

**DT773** – This new strong gluten Canada Western Amber Durum (CWAD) wheat offers high grain yield, high test weight and very good disease resistance. In pre-registration testing, DT773 yielded two percent higher than AC Strongfield, and was six centimetres taller with stronger straw. It has excellent resistance to stem rust, leaf rust and common bunt, and has an improved fusarium head blight index. DT773 has high yellow pigment concentration, low cadmium uptake and protein content similar to other strong gluten durum varieties. DT773 was developed at Agriculture Canada's Semi-Arid Prairie Agricultural Research Centre in Swift Current, Sask., and is registered as Brigade.

**DT776** – This new strong gluten Canada Western

Amber Durum (CWAD) wheat offers high grain yield, high test weight and very good disease resistance. In pre-registration testing, DT776 yielded four percent less than AC Strongfield but was similar to the strong gluten check, AC Commander. DT776 is four centimetres taller than AC Strongfield with slightly weaker straw strength. It has excellent resistance to stem rust, leaf rust and common bunt, and has an improved fusarium head blight index. DT776 has high protein and yellow pigment concentration and low cadmium uptake. It was developed at Agriculture Canada's Semi-Arid Prairie Agricultural Research Centre in Swift Current, Sask., and is registered as Eurostar.

**DH99-37-100** – This Canada Western General Purpose (CWGP) winter wheat offers high grain yield, good winter survival and very good resistance to stem and leaf rust. In pre-registration trials, this new variety yielded eight percent higher than CDC Falcon in Manitoba and the eastern Parkland area of Saskatchewan. DH99-37-100 was taller than the check varieties but had straw strength similar to CDC Osprey. The new variety was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon and was recently registered as Peregrine.

**DH00-18-196** – This Canada Western General Purpose (CWGP) winter wheat offers high grain yield, short straw and good resistance to stem and leaf rust. In pre-registration testing, DH00-18-196 yielded about three percent higher than CDC Falcon and was three days later maturing. The new variety was similar in height to CDC Raptor. DH00-18-196 was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon and has been registered as Accipiter.

**DH99W181\*45** – This Canada Western General Purpose (CWGP) winter wheat offers high grain yield, good winter survival and a very good disease resistance package. In pre-registration testing, this new variety yielded similar to CDC Falcon, and was similar in maturity, height and straw strength to CDC Osprey. DH99W181\*45 has very good resistance to stem rust, leaf rust and stripe rust and offers improved tolerance to powdery mildew. This line was developed at the University of Manitoba in Winnipeg.

**W425** – This Canada Western General Purpose (CWGP) winter wheat offers high grain yield, good winter survival, short stature and very good stem and leaf rust resistance. In pre-registration trials, W425 yielded eight percent higher than CDC Falcon in the rust area of the eastern

prairies, matured one day later, and was about six centimetres taller with similar straw strength. Stem and leaf rust resistance was improved over CDC Falcon. W425 was developed at Agriculture Canada's Lethbridge Research Centre in Lethbridge.

## TRITICALE

This spring tricale offers high yield, early maturity, shorter straw and high test weight compared to current check varieties. In the pre-registration trials, T196 yielded five percent higher than the mean of the checks. It was one day later maturing and five centimetres shorter than AC Ultima. Test weight was higher than AC Ultima and similar to AC Certa. As with other spring tricale varieties, T196 has excellent resistance to stem rust, leaf rust and common bunt. T196 was developed at Agriculture Canada's Semi-Arid Prairie Agricultural Research Centre in Swift Current, Sask.

**WT005** – This winter tricale offers high yield, good winter survival and reduced awn expression. In pre-registration trials, WT005 yielded similar to Pika, was about 15 centimetres shorter and had superior straw strength. It has very good resistance to stem and leaf rust. WT005 was developed at the Alberta Agriculture's Field Crop Development Centre in Lacombe, Alta.

Information for this report was supplied by the Prairie Recommending Committee for Wheat, Rye & Tricale, a committee of the Prairie Grain Development Committee (PGDC). For more information on the PGDC and other crop lines that were recommended for registration in 2008, please visit [www.pgdc.ca](http://www.pgdc.ca). Special thanks to Rob Graf, PRCWRT, chair for supplying information for this list.

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# Oats & Barley



FILE PHOTO

IN 2008, THE FOLLOWING NEW LINES WERE RECOMMENDED FOR REGISTRATION.

The prairie recommending committee for oat and barley (PRCOB) is responsible for testing and evaluating new lines of barley and oats. After new cultivars are evaluated, the committee determines which lines are suitable for registration and makes recommendations to the Canadian Food Inspection Agency's variety registration office.

**BT577** — BT577, also known as Chigwell, is a six-rowed, smooth awned, hulled feed barley that is well adapted to the eastern, brown, black and grey wooded and irrigated soil zones of Western Canada. In pre-registration tests, the new variety showed beta-glucan and protein levels higher than check varieties. Plumpness was similar to check varieties but kernel test weight was lower. BT577 offers grain and forage yields similar or close to Vivar, making it a good option for feed grain and forage producers. The variety offers moderate resistance to scald, spot blotch and spot-form net blotch and is resistant to covered and false loose smut. The variety was developed by Alberta Agriculture's Field Crop Development Centre in Lacombe, Alta. It was approved for national registration on July 25, 2008.

**OT 2039** — OT 2039, also known as Souris, is a white hulled spring oat that was developed by North Dakota State University in Fargo, N.D. In pre-registration tests conducted in Western Canada, it showed superior yield performance in the black soil zone, outyielding the nearest check variety, CDC Dancer, by about 121 kilograms per acre. The variety also showed good yield performance in other soil zones and offers resistance to oat crown rusts and oat stem rust.

**OT2046** — OT2046, also known as Summit, is a white-hulled spring oat developed at Agriculture

Canada's Cereal Research Centre in Winnipeg. In pre-registration tests conducted in 2007, the overall mean yield of OT2046 was higher than all check varieties. Based on agronomic, kernel quality and disease data, the new variety has shown superior performance in most oat growing areas of Western Canada and offers resistance to prevalent pathotypes of oat crown rust. The line should provide excellent yield stability in rust prone regions.

**SR410** — This variety, also known as CDC Kamsack, is a white aleurone, six-rowed malting barley that offers good overall malting quality. It has shorter, stronger straw than malting checks CDC Sisler and Excel and in pre-registration trials, it outyielded the check varieties in all zones. SR410 has similar test weight to the malting checks, better plumpness and higher kernel weight. It offers better resistance to the surface borne smuts but is otherwise similar in disease resistance to the malting checks. The variety was developed by the Department of Plant Sciences at the University of Saskatchewan. It was approved for national registration on May 16, 2008.

**SR412** — SR412, also known as CDC Mayfair, is a six-rowed white aleurone malting barley. It is higher yielding than malting checks and has a higher grain plumpness and kernel weight. It is similar to the checks in terms of straw strength,

lodging resistance and maturity. SR412 is resistant to the surface borne smuts but otherwise similar to the checks in terms of disease resistance. It has higher malt extract and friability than the checks and lower beta-glucan levels but it is similar to the checks in other malting quality traits. SR412 was developed by the Department of Plant Sciences at the University of Saskatchewan. It was approved for national registration on May 16, 2008.

**TR05102** — Also known as CDC Landis, this two-rowed, hulled malt barley has good adaptability across Western Canada. In pre-registration tests, it demonstrated good agronomic performance, improved straw strength and greater yield potential than all malting checks. The new variety is resistant to stem rust and moderately resistant to net blotch and fusarium head blight. TR05102 offers a good malting profile, similar to that of AC Metcalfe but with a moderate improvement in extract. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon. It received national registration on June 18, 2008.

**TR05104** — This variety, also known as Meredith, is a two-rowed hulled malt barley with good adaptability across Western Canada.

Continued on Page 44

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In pre-registration tests, it demonstrated good agronomic performance and superior yield potential, similar to high yielding feed checks. It produced consistently low barley protein over two years of testing and demonstrated a good malting profile with malt beta-glucan levels below Harrington but greater than AC Metcalfe or CDC Kendall. Malt friability was equal to AC Metcalfe and CDC Kendall but consistently higher than Harrington. TR05104 is resistant to the smuts and spotted net-blotch and moderately resistant/moderately susceptible to stem rust and fusarium head blight. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon.

**TR05669** — TR05669, also known as Bentley, is a two-rowed, rough awned, malting barley that is well-adapted to the brown, black and grey soil zones of Western Canada. In pre-registration tests, it yielded 11 percent higher than AC Metcalfe and produced biomass yields eight percent higher than Virden. Test weights were lower than AC Metcalfe but higher than Harrington. Days to maturity were similar to the feed barley check, Xena. The new variety is susceptible to scald and moderately susceptible to the net form of net blotch but resistant to surface-borne smuts, the spot form of net blotch and spot blotch. Fusarium head blight and DON, stem rust and common root rot reactions are similar to AC Metcalfe. TR05669 offers high grain and forage yields and good malting quality, making it a versatile multi-purpose barley for the non-scald areas of Western Canada. The variety was developed by Alberta Agriculture's Field Crop Development Centre at Lacombe, Alta., and was approved for national registration on July 25, 2008.

**TR05671** — This two-rowed, rough awned, malting barley is well adapted to the brown, black and grey soil zones of Western Canada. In pre-registration tests, it yielded four percent higher than AC Metcalfe and had a high proportion of plump kernels, similar to the feed check, Xena. The new variety is resistant to surface borne smuts, spot form of bet blotch and fusarium head blight. It is moderately resistant to scald and stripe rust. Test weights of TR05671 were similar to Harrington and days to maturity were similar to Xena. The variety has good malting quality with extra low diastatic power, a characteristic preferred by craft brewers. TR05671 was developed by Alberta Agriculture's Field Crop Development Centre at Lacombe, Alta.

**TR05910** — Also known as Merit 16, this two-rowed, white aleurone, spring malting barley is being evaluated in plant scale testing by Anheuser Busch. In 2005 and 2006 co-op tests, its two-year average yield was 13 percent higher than Harrington and five percent higher than Metcalfe. Plant height is about 2.8 centimetres lower than Harrington and 4.9 cm lower than Metcalfe. Its

malting profile is consistent with Anheuser Busch brewing requirements. The variety was developed by Anheuser-Busch.

**TR05911** — Also known as Merit 57, this two-rowed, white aleurone, spring malting barley offers high yield potential and superior levels of malt extract but takes three to four days longer to mature than check varieties. In 2005 and 2006 co-op tests, its average two-year yield was 17.8 percent higher than Harrington, 9.7 percent higher than Metcalfe and 9.3 percent higher than CDC Kendall. It is moderately resistant to scald and net blotch and is currently being evaluated in plant scale tests by Anheuser Busch. It has intermediate plant height and intermediate straw strength. The new variety was developed by Anheuser Busch.

**TR05912** — TR05912 is a two-rowed, hulled malt barley that has good adaptability across Western Canada. It offers very good malting quality, similar to AC Metcalfe, and a good level of pre-harvest sprouting resistance. Yield potential is higher than all malt checks and grain protein is relatively low. In pre-registration tests, it exhibited good kernel weight and good levels of kernel plumpness. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon in collaboration with Sapporo Breweries in Japan and Prairie Malt in Biggar, Sask.

**TR05915** — This two-row malting barley line is similar to the check variety CDC Kendall in all traits, except that it accumulated about 25 to 30 percent less DON in the grain when tested in the fusarium head blight nursery at Brandon over a seven-year period. The variety is similar to CDC Kendall in malting quality, so commercial acceptance should be facilitated. The line has slightly improved levels of alpha amylase and wort beta-glucan relative to checks but extract and kernel weight levels are slightly lower than the checks. It also has a tendency for a higher barley protein. TR05915 is well adapted for the drier areas of Western Canada. The variety was developed by Agriculture Canada and the University of Saskatchewan's Crop Development Centre in Saskatoon.

**TR06389** — This is a two-rowed, hulled feed barley with good adaptability across Western Canada. It has high yield potential and improved reaction to prevalent diseases such as net-blotch and spot-blotch. It is also resistant to the surface borne smuts. In pre-registration tests, TR06389 produced yields and test weights similar to the feed check Xena. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon.

**TR06673** — TR06673 is a two rowed, rough awned, feed barley that is well-adapted to the brown, black and grey soil zones of Western Canada. It offers excellent disease resistance,

good grain yields and good feed quality. It heads two days earlier and matures one to two days earlier than Xena. Test weight, kernel weight, and percent plump kernels are similar to Xena. The new variety is resistant to surface-borne smuts, spot form of net blotch, fusarium head blight, scald and the non-QCC races of stem rust. It is moderately resistant to stripe rust. In pre-registration tests, TR06673 yielded 94 percent of the feed check Xena. Plants were taller than Xena but lodging was similar. The variety showed higher protein and digestible energy than the check varieties and lower dietary fibre. TR06673 was developed by Alberta Agriculture's Field Crop Development Centre at Lacombe, Alta.



FILE PHOTO

**TR06918** — TR06918 is a two-rowed, hulled malt barley with good adaptability across Western Canada. Grain and malting quality parameters are similar to CDC Kendall. In pre-registration tests, the new variety demonstrated similar yield potential, days to head, days to maturity, test weight, kernel weight and grain protein concentration. TR06918 has good levels of plumpness, friability, and high levels of diastatic power and alpha amylase. Levels of beta-glucan and malt peeling were slightly elevated. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon in collaboration with Prairie Malt and Sapporo Breweries in Japan. If registered, Sapporo hopes to undertake significant commercial production of this variety in Western Canada. ♦



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# Pulse & Special Crops



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IN 2008, THE FOLLOWING NEW LINES WERE RECOMMENDED FOR REGISTRATION.

The prairie recommending committee for pulse and special crops (PRCPSC) tests and evaluates pulse and special crop cultivars that have been put forth for registration in Western Canada.

## BUCKWHEAT

**DF-03** — This high yielding, black-seeded buckwheat line offers a slightly larger seed size than the checks. The new line was developed by Mancan Genetics.

**DF-04** — This is a high yielding, black-seeded buckwheat variety with a slightly larger seed size than the check varieties. The new line was developed by Mancan Genetics.

**DF-06** — In pre-registration tests, this high-yielding, black-seeded buckwheat line outyielded check varieties by 15 percent and had a slightly larger seed size. DF-06 was developed by Mancan Genetics.

## DRY BEANS

**BK04-001** — BK04-001 is a high yielding black bean line with a Type 2a indeterminate, upright growth habit and a matte black seed coat. It is well adapted to the Red River Valley region of Manitoba. The new variety was developed by Agriculture Canada.

**GN04-001** — This high yielding great northern bean line has a Type 2b indeterminate growth habit and low white mould incidence and severity. It is well adapted to the Red River Valley region of Manitoba. GN04-001 was developed by Agriculture Canada.

**MHR197-3745** — This is a high yielding navy bean line with a Type 2a indeterminate, upright bush growth habit and low white mould incidence and severity. It is adapted to the Red River Valley region of Manitoba and was developed by

Agriculture Canada.

**T10601** — This high yielding navy bean line has a Type 2a indeterminate, upright bush growth habit, and low white mould incidence and severity. It is adapted to the Red River Valley region of Manitoba. T10601 was developed by Hyland Seeds.

**VM-353** — This high yielding navy bean line offers good pod clearance and upright stature, suitable for irrigated and dry land production. The new variety was developed by Globe Seeds/Terramax.

**VM-605** — A high yielding, early maturing navy bean line, VM-605 offers good pod clearance and upright stature, suitable for the dry land region of southeast Saskatchewan and southwest Manitoba. It has good disease tolerance to anthracnose races 73 and 105. The new variety was developed by Globe Seeds/Terramax.

**GTS-549** — GTS-549 is a high yielding navy bean line with a Type 2b indeterminate, upright bush growth habit, good cooking quality and some field tolerance to white mould. The variety was developed by Gen-Tec Seeds.

**1571a-13** — This is a high yielding great northern bean line with Type 2 indeterminate growth habit. It matures earlier than the check variety and also has better lodging resistance. The variety was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**1702-14** — This high yielding pinto bean line has determinate growth habit and maturity. It is resistant to anthracnose races 73 and 105. The variety was developed by the University

of Saskatchewan Crop Development Centre in Saskatoon.

**1681a-6** — This is a high yielding black bean line with Type 2 early indeterminate growth habit. It is resistant to anthracnose races 73 and 105 and was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

## LENTILS

**1788S-4** — This is a high yielding, extra small red lentil with a tan seed coat and improved lodging tolerance. The seed type is suitable for markets in the Middle East. The new variety was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**1894T-1** — This is a high yielding, extra small red lentil with improved lodging tolerance. The seed type is suitable for markets in South Asia and the Middle East. The new variety was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**1899T-50** — 1899T-50 is a high yielding, extra small red lentil with improved lodging tolerance. The seed type is suitable for markets in South Asia and the Middle East. The new variety was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**2154S-4** — This high yielding, small red lentil has a gray seed coat and improved lodging tolerance. The seed type is suitable for most red lentil markets. 2154S-4 was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**IBC-112** — This is the first high yielding small green lentil that is tolerant to imidazolinone herbicides. The seed type is suitable for markets in Italy, Greece and Morocco. IBC-112 was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**IBC-145** — IBC-145 is a high yielding, imidazolinone tolerant medium green lentil line. It was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**IBC-188** — This is a high yielding, imidazolinone tolerant French green lentil line. It was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

## FABABEANS

**Ceb 04928** — This high yielding, white flowered fababean line offers good lodging resistance. It was developed by Limagrain Advanta Nederland BV.

**NPZ 4-7540** — This is a high yielding, white flowered fababean line with good lodging resistance. It was developed by Norddeutsche Pflanzenzucht Hans-Georg Lembke KG.

## DRY PEAS

**CDC1659-13** — This high yielding yellow pea line offers good lodging resistance and is resistant to powdery mildew. It was developed by the University

of Saskatchewan Crop Development Centre in Saskatoon.

**CDC1734-5** — CDC1734-5 is a high yielding yellow pea line with good lodging resistance. The new variety is resistant to powdery mildew and its seed shape is rounder than that of check varieties. The new variety was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**CDC1749-8** — This high yielding yellow pea line offers good lodging resistance and a seed shape that is rounder than the check varieties. It is resistant to powdery mildew. The new line was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**CDC1759-6** — CDC1759-6 is a high yielding yellow pea line that is resistant to powdery mildew and offers good lodging resistance. It was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**CDC1759-30** — This high yielding yellow pea line is resistant to powdery mildew and offers good lodging resistance. It was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**CDC1767-23** — This is a high yielding green pea line with improved bleaching resistance

and colour intensity compared to the checks. It has good lodging resistance and is resistant to powdery mildew. CDC1767-23 was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**CDC1812-5** — This high yielding green pea line has higher colour intensity compared to the check varieties. The new variety is resistant to powdery mildew and offers good bleaching and lodging resistance. CDC1812-5 was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

**IN 4176** — This high yielding yellow pea line offers improved lodging resistance relative to check varieties and is resistant to powdery mildew. The new variety was developed by Limagrain Advanta Nederland BV.

**MP1846** — This high yielding yellow pea line offers good lodging resistance and is resistant to powdery mildew. It was developed by Agriculture Canada.

**SW D5014** — This is a high yielding yellow pea line with earlier maturity than the checks. The seed size is smaller than the check varieties and the shape is a bit rounder. The new variety is resistant to powdery mildew and was developed by SW Seed.

Information for this report was supplied by the Prairie Recommending Committee for Pulse & Special Crops, a committee of the Prairie Grain Development Committee (PGDC). For more information on the PGDC and other crop lines that were recommended for registration in 2008, please visit [www.pgdc.ca](http://www.pgdc.ca).



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# Oilseeds

The prairie recommending committee for oilseeds (PRCO) tests and evaluates candidate cultivars of condiment mustard and flax for registration in Canada.

IN 2008, THE FOLLOWING NEW LINES WERE RECOMMENDED FOR REGISTRATION.



## LINSEED FLAX

**FP 2214** — This is a brown-seeded linseed flax line that offers yields and maturity similar to Flanders in all agro-ecological zones and under conditions of late seeding in Western Canada. FP 2214 represents a significant improvement in seed size and seed quality, offering significantly higher oil content, oil quality and meal protein content. The new line is immune to rust, race

371, and has moderate fusarium wilt resistance, similar to the mean of Flanders and Norlin. FP 2214 was bred by Dr. Scott Duguid at the Agriculture Canada Research Centre in Morden, Man.

**FP2223** — This brown-seeded linseed flax line offers yields and maturity similar to Flanders in all agro-ecological zones and under conditions of late seeding in Western Canada. FP2223 has

significantly larger sized seeds than Flanders and improved oil quality. It has significantly higher iodine value and significantly higher linolenic acid content than Flanders. FP2223 is immune to rust, race 371, and has moderate fusarium wilt resistance, similar to the mean of Flanders and Norlin. The new line was bred by Dr. Gordon Rowland at the University of Saskatchewan in Saskatoon.

Information for this report was supplied by the Prairie Recommending Committee for Oilseeds, a committee of the Prairie Grain Development Committee (PGDC). For more information on the PGDC and other crop lines that were recommended for registration in 2008, please visit [www.pgdc.ca](http://www.pgdc.ca). Special thanks to Ginette Séguin-Swartz, PRCO secretary for supplying information for this list.

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# Rapeseed & Canola

The Western Canadian Canola Rapeseed Recommending Committee evaluates lines based on agronomic performance, disease resistance and end-use quality. The table below contains varieties recommended for registration in 2008.

| Co-op name    | check varieties | variety  | Organization                    | Herbicide Resistance | Hybrid/Synthetic | Specialty     | Yield vs Check +/- % | Yield SSZ +/- % | Yield MSZ +/- % | Yield LSZ +/- % | Yield ISZ | Maturity vs Check +/- days | Blackleg Rating | Blackleg % of Westar | % Oil | % Meal Protein | Height vs Check +/- cm | Lodging Higher = Better |
|---------------|-----------------|----------|---------------------------------|----------------------|------------------|---------------|----------------------|-----------------|-----------------|-----------------|-----------|----------------------------|-----------------|----------------------|-------|----------------|------------------------|-------------------------|
| 30120-B6      | 46A65, Q2       |          | Agriprogress/Lembke Research    | Clearfield           |                  |               | 13                   |                 | 12              | 14              |           | 0                          | MR              | 33.6                 | -0.4  | -1.2           | 9.8                    | 0                       |
| 30412-B6      | 46A65, Q2       |          | Agriprogress/Lembke Research    | Round Up Ready       |                  |               | 12.4                 |                 | 16              | 8               | 0         | 0                          | MR              | 31.8                 | 0.9   | -0.9           | 4.3                    | 0                       |
| 30416-B6      | 46A65, Q2       |          | Agriprogress/Lembke Research    | Round Up Ready       |                  |               | 11.7                 |                 | 15              | 8               | 0         | 0                          | MR              | 47.5                 | 0.5   | -0.5           | 6.5                    | 0                       |
| 30503-B6      | 46A65, Q2       |          | Agriprogress/Lembke Research    | Round Up Ready       |                  |               | 11.6                 |                 | 13              | 9               | 0         | 0                          | MR              | 40.2                 | 0.2   | -0.8           | 5.9                    | 0                       |
| 30507-B6      | 46A65, Q2       |          | Agriprogress/Lembke Research    | Round Up Ready       |                  |               | 13.6                 |                 | 17              | 9               | 0         | -1                         | MR              | 39.7                 | 0.3   | -1.0           | 2.2                    | 0                       |
| 30609-B6      | 46A65, Q2       |          | Agriprogress/Lembke Research    | Round Up Ready       |                  |               | 8.7                  |                 | 11              | 6               | 0         | 0                          | MR              | 44.7                 | 1.4   | -0.5           | -4.4                   | 0                       |
| 30611-B6      | 46A65, Q2       |          | Agriprogress/Lembke Research    | Round Up Ready       |                  |               | 6.3                  |                 | 9               | 3               | 0         | 0                          | MR              | 42.1                 | 1.2   | -0.5           | -2.5                   | 0                       |
| 06RHY/951     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                | Low Linolenic | 30.5                 | 23              | 28              | 40              | 0         | 0                          | MR              | 30.7                 | 1.2   | -2.1           | 6.4                    | 0                       |
| 06RHY/953     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                | Low Linolenic | 29.7                 | 25              | 28              | 36              | 0         | -1                         | MR              | 39.7                 | 1.5   | -2.3           | 3.0                    | 0                       |
| 06RHY/954     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                | Low Linolenic | 28.4                 | 29              | 25              | 33              | 0         | 0                          | MR              | 41.6                 | 1.7   | -1.2           | 5.8                    | 0                       |
| PHS05-814     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                |               | 24.3                 | 25              | 21              | 28              | 0         | 0                          | MR              | 36.5                 | 1.6   | -0.7           | 10.3                   | 1                       |
| PHS06-904     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                |               | 33.6                 | 27              | 30              | 44              | 0         | 1                          | R               | 25.2                 | 1.5   | -0.8           | 9.5                    | 1                       |
| PHS06-938     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                |               | 29.9                 | 30              | 28              | 32              | 0         | -1                         | R               | 27.0                 | 2.1   | -0.3           | 6.8                    | 0                       |
| PHS06-944     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                |               | 35                   | 25              | 35              | 44              | 0         | 1                          | R               | 25.2                 | 1.0   | -0.4           | 9.1                    | 0                       |
| PHS06-952     | 46A65, Q2       |          | Bayer CropScience               | Liberty              | H                |               | 35.3                 | 30              | 31              | 46              | 0         | 1                          | R               | 27.8                 | 0.9   | -1.5           | 3.4                    | 1                       |
| BCS328L       | 46A65, Q2       |          | Bonis and Company               | Liberty              |                  |               | 10.5                 |                 | 6               | 17              | 0         | 0                          | MR              | 46.6                 | 0.0   | 2.1            | 2.1                    | 0                       |
| 04H272        | 46A65, Q2       |          | Cargill Specialty Canola Oils   | Round Up Ready       | H                | Low Linolenic | 13.6                 | 3               | 12              | 17              | 0         | -1                         | MR              | 37.7                 | 1.5   | 0.6            | 6.3                    | 0                       |
| 04H278        | 46A65, Q2       |          | Cargill Specialty Canola Oils   | Round Up Ready       | H                | Low Linolenic | 14.6                 | 7               | 12              | 19              | 0         | 1                          | MR              | 36.9                 | 1.9   | 0.5            | 8.0                    | 0                       |
| 04H290        | 46A65, Q2       |          | Cargill Specialty Canola Oils   | Round Up Ready       | H                | Low Linolenic | 11.8                 | 4               | 15              | 13              | 0         | 0                          | R               | 29.7                 | 1.6   | 2.2            | 7.1                    | 0                       |
| 04H430        | 46A65, Q2       |          | Cargill Specialty Canola Oils   | Round Up Ready       | H                | Low Linolenic | 19.6                 | 12              | 19              | 27              | 0         | 1                          | MR              | 32.9                 | 1.0   | 0.2            | 2.5                    | 0                       |
| 04H431        | 46A65, Q2       |          | Cargill Specialty Canola Oils   | Round Up Ready       | H                | Low Linolenic | 14.8                 | 11              | 16              | 16              | 0         | -1                         | MR              | 34.7                 | 2.8   | -1.0           | -1.4                   | 0                       |
| 05H450        | 46A65, Q2       |          | Cargill Specialty Canola Oils   | Round Up Ready       | H                | Low Linolenic | 18.3                 | 8               | 17              | 21              | 0         | 0                          | MR              | 38.8                 | 1.3   | -1.1           | -1.7                   | 0                       |
| 22072         | 46A65, Q2       |          | DSV Canada Inc.                 | Round Up Ready       |                  |               | -5                   | -3              | -7              | -4              | 0         | -1                         | MR              | 43.8                 | 1.0   | 1.3            | -0.8                   | 0                       |
| H6033         | 46A65, Q2       |          | DSV Canada Inc.                 | Round Up Ready       | H                |               | 9.4                  | 9               | 7               | 13              | 0         | 1                          | MR              | 44.9                 | 1.0   | 0.8            | 10.2                   | 0                       |
| H6045         | 46A65, Q2       |          | DSV Canada Inc.                 | Round Up Ready       | H                |               | 9.2                  | 12              | 5               | 12              | 0         | 0                          | MR              | 45.9                 | 1.5   | 0.1            | 0.9                    | 0                       |
| H6051         | 46A65, Q2       | 4434 RR  | DSV Canada Inc.                 | Round Up Ready       | H                |               | 10.9                 | 6               | 13              | 13              | 0         | 0                          | MR              | 41.1                 | 1.3   | 0.4            | 4.4                    | 0                       |
| H6235         | 46A65, Q2       | 4424 RR  | DSV Canada Inc.                 | Round Up Ready       | H                |               | 11.7                 | 16              | 6               | 14              | 0         | 1                          | MR              | 46.1                 | 0.7   | -0.1           | 11.4                   | 0                       |
| D5393         | 46A65, Q2       | 71-40 CL | Monsanto Canada Inc.            | Clearfield           | H                |               | 16.9                 | 8               | 15              | 29              | 0         | 0                          | R               | 20.5                 | 0.2   | 1.2            | 6.5                    | 0                       |
| Z5380         | 46A65, Q2       | 72-55 RR | Monsanto Canada Inc.            | Round Up Ready       | H                |               | 21.1                 | 13              | 19              | 27              | 0         | -1                         | MR              | 30.5                 | 2.4   | 0.8            | -3.7                   | 0                       |
| 05N372R       | 43A56 & 44A04   | 43E01    | Pioneer Hi-Bred Production Ltd. | Round Up Ready       | H                |               | 15.9                 | 16              | 0               | 0               | 0         | 0                          | MR              | 41.1                 | 0.8   | 0.7            | -7.7                   | 0                       |
| 06N530R       | 46A65, Q2       | 45H28    | Pioneer Hi-Bred Production Ltd. | Round Up Ready       | H                |               | 22.4                 | 23              | 23              | 20              | 0         | -1                         | R               | 25.0                 | 2.8   | -1.4           | 2.1                    | 0                       |
| 06N538R       | 46A65, Q2       | D3150    | Pioneer Hi-Bred Production Ltd. | Round Up Ready       | H                |               | 17.1                 | 20              | 15              | 17              | 0         | -0                         | MR              | 30.5                 | 2.7   | -0.9           | 9.5                    | 0                       |
| 06N553R       | 46A65, Q2       | D3151    | Pioneer Hi-Bred Production Ltd. | Round Up Ready       | H                |               | 17.9                 | 20              | 15              | 20              | 0         | -1                         | MR              | 33.3                 | 2.5   | 0.2            | 5.5                    | 0                       |
| 06N583R       | 46A65, Q2       | 9553     | Pioneer Hi-Bred Production Ltd. | Round Up Ready       | H                |               | 20.9                 | 21              | 20              | 23              | 0         | -1                         | R               | 22.2                 | 2.7   | 1.6            | 3.1                    | 0                       |
| 06N606R       | 46A65, Q2       |          | Pioneer Hi-Bred Production Ltd. | Round Up Ready       | H                |               | 16.9                 | 13              | 18              | 19              | 0         | -1                         | R               | 20.9                 | 1.4   | 1.5            | 0.8                    | 0                       |
| 06N718R       | 46A65, Q2       | 45S51    | Pioneer Hi-Bred Production Ltd. | Round Up Ready       | H                |               | 15.0                 | 8               | 14              | 22              | 0         | -0                         | R               | 27.8                 | 0.8   | -0.4           | -0.3                   | 0                       |
| SW K5323 RR   | 46A65, Q2       |          | SW Seed Ltd.                    | Round Up Ready       |                  |               | 9.4                  | 9               | 9               | 10              | 0         | -1                         | MR              | 38.0                 | 1.1   | 1.6            | 0.5                    | 0                       |
| SW K5325 RR   | 46A65, Q2       |          | SW Seed Ltd.                    | Round Up Ready       |                  |               | 16.5                 | 13              | 15              | 21              | 0         | 1                          | MR              | 32.7                 | 0.8   | -0.9           | 4.0                    | 0                       |
| SW K5349 RR   | 46A65, Q2       |          | SW Seed Ltd.                    | Round Up Ready       |                  |               | -3.7                 | -7              | -6              | 1               | 0         | 2                          | R               | 18.5                 | 1.3   | 2.2            | 5.4                    | 0                       |
| NR04-01675    | 46A65, Q2       |          | Viterra Inc.                    | Round Up Ready       |                  |               | 5.0                  |                 | 6               | 3               | 0         | 1                          | R               | 29.9                 | 1.2   | 1.2            | 10.0                   | 0                       |
| NR04-04346    | 46A65, Q2       |          | Viterra Inc.                    | Round Up Ready       |                  |               | 10.6                 |                 | 10              | 13              | 0         | -1                         | R               | 28.1                 | 1.7   | -0.5           | 1.4                    | 0                       |
| NR04-04769    | 46A65, Q2       |          | Viterra Inc.                    | Round Up Ready       |                  |               | 4.2                  |                 | 5               | 4               | 0         | 1                          | R               | 28.8                 | 0.7   | -1.0           | 4.1                    | 0                       |
| SW-PR 04-2416 | 46A65, Q2       |          | Viterra Inc.                    | Round Up Ready       | S                |               | 11.0                 |                 | 12              | 9               | 0         | 0                          | MR              | 40.0                 | 0.4   | 0.6            | 6.3                    | 0                       |
| SW-PT 04-2774 | 46A65, Q2       |          | Viterra Inc.                    | Round Up Ready       | H                |               | 11.9                 |                 | 12              | 12              | 0         | -1                         | MR              | 39.2                 | 0.1   | 0.1            | 2.1                    | 0                       |
| SW-PW 04-5881 | 46A65, Q2       | 9554     | Viterra Inc.                    | Round Up Ready       | H                |               | 20.7                 |                 | 20              | 21              | 0         | 0                          | MR              | 32.6                 | 0.6   | 0.3            | 4.6                    | 0                       |



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# Canadian Food Inspection Agency 2008 Registration Report

The list below contains information on new crop varieties registered by the Canadian Food Inspection Agency between Nov. 1, 2007 and Dec. 1, 2008. The varieties listed below were recommended for registration by the Prairie Grain Development Committee and its affiliated subcommittees or by the Western Canada Canola/Rapeseed Recommending Committee.

## BARLEY, SIX-ROW, SPRING

### CDC KAMSACK

Experimental numbers: SR410, SM03152  
Registration date: 2008-05-16  
Registration type: National

*CDC Kamsack is a white aleurone, six-rowed malting barley that offers good overall malting quality. It has shorter, stronger straw than malting checks CDC Sisler and Excel and in pre-registration trials, it outyielded the check varieties in all zones. For more information, see the listing under SR410 on page 42 of this publication. CDC Kamsack was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon.*

### CDC MAYFAIR

Experimental numbers: SR412, SM03219  
Registration date: 2008-05-16  
Registration type: National

*Mayfair is a six-rowed white aleurone malting barley. It is higher yielding than malting checks and has a higher grain plumpness and kernel weight. It is similar to the checks in terms of straw strength, lodging resistance and maturity. For more information, see the listing under SR412 on page 42 of this publication. Mayfair was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Canterra Seeds in Winnipeg.*

### CHIGWELL

Experimental numbers: H98075009, BT577  
Registration date: 2008-07-25  
Registration type: National

*Chigwell is a six-rowed, smooth-awned, hulled feed barley that is well adapted to the eastern, brown, black and grey wooded and irrigated soil zones of Western Canada. In pre-registration tests, the new variety showed beta-glucan and protein levels higher than check varieties. For more information, see the listing under BT577 on page 42 of this publication. Chigwell was developed by Alberta Agriculture's Field Crop Development Centre in Lacombe, Alta., and will be distributed through Secan Association.*

## BARLEY, TWO-ROW, SPRING

### BENTLEY

Experimental numbers: H93103004, TR05669, FB414  
Registration date: 2008-07-25  
Registration type: National

*Bentley is a two-rowed, rough awned, malting barley that is well-adapted to the brown, black and grey soil zones of Western Canada. In pre-registration tests, it yielded 11 percent higher than AC Metcalfe and produced biomass yields eight percent higher than Virden. For more information, see the listing under TR05669 on page 44 of this publication. Bentley was developed by Alberta Agriculture's Field Crop Development Centre at Lacombe, Alta., and will be distributed through Canterra Seeds in Winnipeg.*

### CDC AURORA NIJO

Experimental numbers: TR03903; SM01376s  
Registration date: 2008-11-14  
Registration type: National

*This two-row malting barley offers good straw strength and has yield potential similar to AC Metcalfe. It received a three-year interim registration on Nov. 28, 2005 to facilitate plant-scale testing by a major brewing company. Interim registration was due to expire on Nov. 28, 2008. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon.*

### CDC LANDIS

Experimental numbers: TR05102, SM03003  
Registration date: 2008-06-18  
Registration type: National

*Landis is a two-rowed, hulled malt barley with good adaptability across Western*

*Canada. In pre-registration tests, it demonstrated good agronomic performance, improved straw strength and greater yield potential than all malting checks. For more information, see the listing under TR05102 on page 42 of this publication. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon.*

### CDC MEREDITH

Experimental numbers: TR05104, SM03602  
Registration date: 2008-05-16  
Registration type: National

*Meredith is a two-rowed hulled malt barley with good adaptability across Western Canada. In pre-registration tests, it demonstrated good agronomic performance and superior yield potential, similar to high yielding feed checks. It produced consistently low barley protein over two years of testing. For more information, see the listing under TR05104 on page 44 of this publication. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed through Secan Association.*

### CDC POLARSTAR

Experimental numbers: TR06918  
Registration date: 2008-05-15  
Registration type: Interim  
Expiry date: 2011-05-15

*CDC Polarstar is a two-rowed, hulled malt barley with good adaptability across Western Canada. Grain and malting quality parameters are similar to CDC Kendall. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon, in collaboration with Prairie Malt and Sapporo Breweries in Japan. For more varietal information, see the entry under TR06918 on page 44 of this publication. The Canadian distributor is Canterra Seeds in Winnipeg.*

### CDC RESERVE

Experimental numbers: TR05912, SM03374s  
Registration date: 2008-05-16  
Registration type: National

*CDC Reserve is a two-rowed, hulled malt barley that has good adaptability across Western Canada. It offers very good malting quality, similar to AC Metcalfe, and a good level of pre-harvest sprouting resistance. Yield potential is higher than all malt checks and grain protein is relatively low. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon in collaboration with Sapporo Breweries in Japan and Prairie Malt in Biggar, Sask. For more varietal information, see the entry under TR05912 on page 44 of this publication. Distribution will be handled through Secan Association.*

## BEAN, FIELD, PINTO TYPE

### Variety name: WINDBREAKER

Experimental Numbers: 08530762  
Registration Date: 2008-04-02  
Registration Type: National Registration

*This high yielding pinto bean line has a semi-upright growth habit and maturity similar to Maverick. It is suitable for production in the Red River Valley of Manitoba. It was developed by Seminis Vegetable Seeds in Filer, Idaho, and will be distributed by Canterra Seeds Ltd., in Winnipeg.*

## BEAN, FIELD, WHITE KIDNEY TYPE

### Variety name: GTS 402

Experimental numbers: GTS 402, COB 678-89  
Registration date: 2008-06-18  
Registration type: National

*This white kidney bean is an early maturing line that is adapted to the short season production areas of Manitoba, Ontario and Quebec. It was developed by Gen-Tec Seeds Ltd., of Woodslee, Ont., and will be distributed by Thompsons Limited in Blenheim, Ont., Parrish & Heimbecker Ltd. in Hensall, Ont., and the Hensall District Coop Inc.*

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**CANOLA QUALITY BRASSICA JUNCEA L.****45J10**

Experimental numbers: 04J010C;Y04J010C  
Registration date: 2007-12-12

Registration type: Contract registration subject to conditions.

Contact Pioneer Hi-Bred Production Ltd., in Saskatoon.

**8570**

Experimental numbers: J05Z-07784

Registration date: 2008-11-17

Registration type: Contract Registration

*This open-pollinated juncea canola variety with Clearfield resistance offers excellent yield potential and stability. Inherent traits lead to increased tolerance to frost, heat and drought, as well as increased shatter resistance. For more details, contact Proven Seeds, Viterra.*

**8571**

Experimental numbers: J05Z-08376

Registration date: 2008-11-17

Registration type: Contract Registration

*This open-pollinated juncea canola variety with Clearfield resistance offers excellent yield potential and stability. Inherent traits lead to increased tolerance to frost, heat and drought, as well as increased shatter resistance, making the variety suitable for straight-cut combining. For additional agronomic information, contact Proven Seeds, Viterra.*

**CANOLA, SPRING, BRASSICA NAPUS,****1144**

Experimental numbers: 06RHY/953

Registration date: 2008-08-19

Registration type: National

Contact Bayer CropScience

**43E01**

Experimental numbers: 05N372R

Registration date: 2008-04-07

Registration type: National

Contact Pioneer Hi-Bred Production Limited

**4424 RR**

Experimental numbers: H6235

Registration date: 2008-06-02

Registration type: National

Contact DL Seeds, Morden, Man.

**4434 RR**

Experimental numbers: H6051

Registration date: 2008-06-03

Registration type: National

Contact DL Seeds, Morden, Man.

**45H28**

Experimental numbers: 06N530R

Registration date: 2008-04-07

Registration type: National

Contact Pioneer Hi-Bred Production Limited

**45S51**

Experimental numbers: 06N718R

Registration date: 2008-06-02

Registration type: National

Contact Pioneer Hi-Bred Production Limited

**71-40 CL**

Experimental numbers: D5393

Registration date: 2008-04-07

Registration type: National

Contact Monsanto Canada

**72-55 RR**

Experimental numbers: Z5380

Registration date: 2008-04-02

Registration type: National

Contact Monsanto Canada Inc., Winnipeg

**9552**

Experimental numbers: NR04-04346

Registration date: 2008-08-28

Registration type: National

Contact Proven Seeds, Viterra.

**9553**

Experimental numbers: 06N583R

Registration date: 2008-04-07

Registration type: National

Contact Pioneer Hi-Bred Production Limited

**9554**

Experimental numbers: SW-PW 04-5881

Registration date: 2008-07-25

Registration type: National

Contact Proven Seed, Viterra

**D3150**

Experimental numbers: 06N538R

Registration date: 2008-04-07

Registration type: National

Contact Pioneer Hi-Bred Production Limited

**D3151**

Experimental numbers: 06N553R

Registration date: 2008-04-07

Registration type: National

Contact Pioneer Hi-Bred Production Limited

**V2030**

Experimental numbers: 04H272

Registration date: 2008-08-19

Registration type: National

Contact Cargill Specialty Canola Oils

**FABABEAN****IMPOSA**

Experimental numbers: Ceb 04928

Registration Date: 2008-11-14

Registration type: National

Contact Cebeco Seeds.

**FLAX, OILSEED****SHAPE**

Experimental Numbers: FP2188

Registration Date: 2008-06-27

Registration Type: National Registration

*This brown-seeded linseed flax line, developed by Agriculture Canada matures significantly earlier than Flanders. Yields are similar to Flanders in the short and longer growing season regions of the black and grey soil zone. The Canadian distributor is EDIBO in Laurier, Man.*

**LENTIL****CDC IMPALA**

Experimental numbers: 3110

Registration date: 2008-09-26

Registration type: National

*This small red lentil is tolerant to imidazolinone herbicides. It was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Saskatchewan Pulse Growers, Saskatoon.*

**CDC IMPRESS**

Experimental numbers: 2471

Registration date: 2008-09-26

Registration type: National Registration

*This medium green lentil line is tolerant to imidazolinone herbicides. Yield is 97 percent of CDC Meteor. It was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Saskatchewan Pulse Growers, Saskatoon.*

**CDC MAXIM**

Experimental numbers: 3114

Registration date: 2008-09-26

Registration type: National

*This small red lentil line is tolerant to imidazolinone herbicides. Yield is 104 percent of CDC Impact. The line was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Saskatchewan Pulse Growers, Saskatoon.*

**CDC RED RIDER**

Experimental numbers: 1308M-7

Registration date: 2008-09-26

Registration type: National

*This small red lentil line offers high seed yield compared to CDC Impact and CDC Redberry. It was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Saskatchewan Pulse Growers, Saskatoon.*

**MUSTARD, BRASSICA JUNCEA L., INDIAN****AMIGO**

Experimental numbers: J01-1352

Registration date: 2008-08-28

Registration type: National

*This condiment brown mustard line is well adapted to the brown mustard growing areas of Western Canada and offers similar maturity, seed yield, distinct green seed count and chlorophyll content as the check variety, Commercial Brown. Amigo has significantly reduced fixed oil, significantly increased protein content and significantly higher volatile oil (allyl isothiocyanate) content than Commercial Brown. The variety was developed by Agriculture Canada.*

**OAT, SPRING****CDC MINSTREL**

Experimental numbers: OT3018; S003191

Registration date: 2008-02-04

Registration type: National

*This spring oat offers high yield potential, strong straw and very good grain quality. It is adapted to production outside traditional oat rust areas. The line was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon.*

**SOURIS**

Experimental numbers: ND961161, OT2039, 2000UMPON-23,

02QION009

Registration date: 2008-05-16

Registration type: National

*This white hulled spring oat was developed by North Dakota State University in Fargo, N.D. In pre-registration tests conducted in Western Canada, it showed superior yield performance in the black soil zone, outyielding the nearest check variety, CDC Dancer, by about 121 kilograms per acre. The variety also showed good yield performance in other soil zones and offers resistance to oat crown rusts and oat stem rust. For more information on agronomic performance and seed availability, contact the Canadian agent, Seed Depot Corporation in Pilot Mound, Man.*

**STAINLESS**

Experimental numbers: OT2040, W033167, 99P25, AS2D

Registration date: 2008-04-07

Registration type: National

*This milling oat performs well in the black soil zone of the Prairies. Crown rust and stem rust reactions suggest that the line offers a good level of resistance to prevalent rust pathotypes in the black soil zone. It also has good levels of dietary fibre compared to check varieties. Stainless was developed at Agriculture Canada's Cereal Research Centre in Winnipeg.*

**SUMMIT**

Experimental numbers: OT2046; 04J0282, 05J1211, (05RAT16), 00P08-

BD1A

Registration date: 2008-11-26

Registration type: National

*Summit is a white-hulled spring oat developed at Agriculture Canada's Cereal Research Centre in Winnipeg. In pre-registration tests conducted in 2007, the overall mean yield of Summit was higher than all check varieties. Based on agronomic, kernel quality and disease data, the new variety has shown superior performance in most oat growing areas of Western Canada and offers resistance to prevalent pathotypes of oat crown rust.*

**PEA, FIELD, GREEN****CDC PATRICK**

Experimental numbers: CDC 1434-20

Registration date: 2008-04-02

Registration type: National

*This green cotyledon, semi-leafless field pea line features high yield potential and resistance to powdery mildew. The line's green colour bleaching resistance and green colour intensity are similar to CDC Striker. The line was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Saskatchewan Pulse Growers, Saskatoon.*

**MENDEL**

Experimental numbers: MP 1835

Registration date: 2008-05-01

Registration type: National

*This green cotyledon field pea line offers high yield potential, early maturity, round seed shape and resistance to powdery mildew. Its green colour bleaching resistance and green colour intensity are similar to CDC Striker. For more information on this variety, contact the Canadian distributor, FarmPure Seeds Inc., in Regina.*

**PEA, FIELD, YELLOW****CDC PROSPER**

Experimental numbers: CDC 1400-8

Registration date: 2008-04-02

**Registration type: National**

*This yellow cotyledon, semi-leafless field pea line offers high yield potential, early maturity, small seed size, round seed shape, resistance to powdery mildew and lower incidence of fusarium wilt. It was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Saskatchewan Pulse Growers in Saskatoon.*

**HUGO**

Experimental numbers: MP 1838

Registration date: 2008-05-01

Registration type: National

*This yellow cotyledon field pea line has high yield potential, small seed size, round seed shape and resistance to powdery mildew. It was developed by Agriculture Canada in Lacombe, Alta., and will be distributed by FarmPure Seeds Inc., in Regina.*

**TALENTO**

Experimental numbers: IN 4176

Registration date: 2008-09-18

Registration type: National

*This high yielding yellow pea line offers improved lodging resistance relative to check varieties and is resistant to powdery mildew. The new variety was developed by Limagrain Advanta Nederland BV and will be distributed by FarmPure Seeds Inc., in Regina.*

**TRITICALE, WINTER****LUOMA**

Experimental numbers: 94D024001, WT004

Registration date: 2008-09-18

Registration type: National

*In pre-registration testing, this winter triticale line produced yields equivalent to Pika. It features reduced awn expression similar to Bobcat and offers winter hardiness superior to Bobcat. Luoma also has higher biomass yields than Bobcat with improved test weight and kernel weight. It is rated as intermediate for lodging, between Bobcat and Pika. The variety was developed by Alberta Agriculture's Field Crop Development Centre in Lacombe, Alta.,*

**WHEAT, DURUM****BRIGADE**

Experimental numbers: DT773, A9909-HD3D

Registration date: 2008-08-22

Registration type: Regional registration for production in British Columbia, Alberta, Saskatchewan and Manitoba

*This new strong gluten Canada Western Amber Durum wheat offers high grain yield, high test weight and very good disease resistance. Brigade has high yellow pigment concentration, low cadmium uptake and protein content similar to other strong gluten durum varieties. For more varietal information, see the entry under DT773 on page 40 of this publication. The variety was developed Agriculture Canada.*

**CDC VERONA**

Experimental numbers: D44-2428, DT540

Registration date: 2008-06-17

Registration type: Regional registration for production in British Columbia, Alberta, Saskatchewan and Manitoba

*This new conventional gluten strength amber durum offers high grain yield, very good straw strength and a very good disease resistance package. In pre-registration testing, Verona was best adapted to the moister areas of the durum-growing region, where it yielded similar to AC Strongfield. For more varietal information, see the entry under DT540 on page 40 of this publication. This variety was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon and will be distributed by Patterson Grain Ltd., Winnipeg.*

**EUROSTAR**

Experimental numbers: A9930-QX2C, DT776

Registration date: 2008-06-17

Registration type: Regional registration for production in British Columbia, Alberta, Saskatchewan and Manitoba

*This strong gluten amber durum wheat offers high grain yield, high test weight and very good disease resistance. In pre-registration testing, it yielded four percent less than AC Strongfield but was similar to the strong gluten check, AC Commander. For more varietal information, see the entry under DT776 on page 40 of this publication. Eurostar was developed at Agriculture Canada's Semi-Arid Prairie Agricultural Research Centre in Swift Current, Sask., and will be distributed through SeCan Association.*

**WHEAT, SPRING****5702PR**

Experimental numbers: HY977;99S3088-05

Registration date: 2008-01-09

Registration type: Regional registration for production in British Columbia, Alberta, Saskatchewan, Manitoba, New Brunswick, Nova



Scotia, Prince Edward Island and Newfoundland. This Canada Prairie Spring Red wheat features high yield potential, good straw strength and early maturity. It was developed by AgriPro Wheat in Morden, Man., and will be distributed by Syngenta Seeds Canada Ltd., in Morden, Man., and Proven Seed, Viterra in Regina.

**FIELDSTAR**

Experimental numbers: 97B64-M1B3; BW365

Registration date: 2008-11-14

Registration type: Regional

Fieldstar differs from the reference varieties, Superb and McKenzie, in flag leaf length, anthocyanin colouration of the flag leaf auricles, plant height, anthocyanin colouration of the straw at maturity and spike length. It also carries a gene for antibiosis resistance to orange blossom wheat midge while Superb and McKenzie do not. The variety was developed by Agriculture Canada's cereal Research Centre in Winnipeg.

**GLENCROSS**

Experimental numbers: ES 95, 99E03\*J22

Registration date: 2008-06-03

Registration type: Regional registration for production in British Columbia, Alberta, Saskatchewan and Manitoba

This Canada Western Extra Strong wheat offers resistance to the orange wheat blossom midge. It has good protein potential and early maturity. The line was developed at Agriculture Canada's Cereal Research Centre in Winnipeg

**STETTLER**

Experimental numbers: BW867, B9962, AR12

Registration date: 2008-10-16

Registration type: Regional Registration

This Canada Western Red Spring wheat offers high yield potential, semi-dwarf stature, high grain protein concentration and resistance to stem rust, common bunt and loose smut. In pre-registration trials, Stettler yielded three percent more than AC Superb, and matured one day earlier. For more varietal information, see the entry under BW867 on page 40 of this publication.

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# Saskatchewan Pedigreed Seed Growers

## Directory of Crop Varieties

This list was prepared by the Canadian Seed Growers Association. It includes varieties eligible for sale in Canada and seed crops issued certificates as of Nov. 1, 2008. 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****53V52**

Pioneer Hi-Bred International Inc. Lethbridge

**54Q25**

Herperger, Ronald & Elaine Atwater 306-745-2528

**ABLE**

Pickseed Canada Inc. Winnipeg 204-633-0088

**AC BLUE J**

Bjornson, Gregory P. Wynyard 306-554-3302

**AC BRADOR**

Northstar Seed Ltd. Neepawa 204-476-5241

**AC CARIBOU**

Brett-Young Seeds Limited St. Norbert 204-261-7932

**AC GRAZELAND BR**

Viterra / Saskatchewan Wheat Pool Regina 306-569-4082

**AC LONGVIEW**

Farmpure Seeds Regina 306-791-0500

**AC MELODIE**

Northstar Seed Ltd. Neepawa 204-476-5241

**AC NORDICA**

Gourley, Bruce D. Watson 306-287-3127

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| Bolt, Dale & Scott & Tod  | Wynyard          | 306-554-2076 | C | C |
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| Chapple, Floyd & Debbie   | Grandora         | 306-329-4697 | S | C |
| Charabin, Dale Kenneth & Timothy V. & Ryan                        | North Battleford | 306-445-2939 | C | C |
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| Dangstorp, Emil & Brian   | Redvers          | 306-452-3444 | R | C |
| Denis, Michel P. & Marc   | St. Denis        | 306-258-2075 | C | C |
| Edmunds, Greg & Glen  | Tisdale          | 306-873-5480 | C | C |
| Edwards, Lawrence R., Donna, Jeff & Mike                          | Nokomis          | 306-528-2140 | S | C |
| Ennis, Garnet & Burton & Neil                                     | Glenavon         | 306-429-2793 | R | C |
| Fedoruk, Michael J.   | Kamsack          | 306-542-4235 | R | C |
| Floberg, Barry & Delana & Devin & Brandon                         | Shaunavon        | 306-297-2087 | C | C |
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| Fritzler, Baine A., Brenda D. & Adam A.                           | Govan            | 306-484-4612 | S | C |
| Geall, Brian R.   | Nipawin          | 306-862-9177 | C | C |
| Gellner, Clayton S.   | Southey          | 306-726-4323 | C | C |
| Girodat, Gerald   | Shaunavon        | 306-297-2913 | C | C |
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| Hardy, Brian & Calvin   | Grenfell         | 306-697-3127 | C | C |
| Heggie, Robert Thomas   | Leross           | 306-675-4920 | C | C |
| Herle, Raymond & Gregory R.                                       | Wilkie           | 306-843-2934 | C | C |
| Herndier, Don O.  | Lemberg          | 306-335-2763 | C | C |
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| Hyland, Thomas Francis  | Scott            | 306-247-2086 | R | C |
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| Redman, Wayne G. & Collin M.                                      | Margo            | 306-324-4235 | R | C |
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| Stokke, Terry J. & Shane T.        | Watrous     | 306-946-2566 | C | C | C |
| Tebbutt, Ronald E. & Gregg         | Nipawin     | 306-862-9730 | C | C | C |
| Thompson, Jan Harris               | Naicam      | 306-874-5407 | R | C | C |
| Tomtene, Steven & Slind, Daniel    | Birch Hills | 306-749-3230 | F | R | C |
| Trawin, Julie Ann                  | Melfort     | 306-752-4060 | S | F | R |
| Trowell, Kenneth & Larry           | Saltcoats   | 306-744-2687 | R | C | C |
| Wakefield, Kristopher & Laurie G.  | Maidstone   | 306-893-2527 | C | C | C |
| Warrington, John                   | Mervin      | 306-845-2642 | C | C | C |
| Weightman, Brian                   | Rosthern    | 306-232-5588 | C | C | C |
| Wiens, Brennan R.                  | Herschel    | 306-377-2002 | C | C | C |
| Wiens, Rudy G.                     | Herschel    | 306-377-4800 | C | C | C |
| Wilfing, Raymond John & Ryan John  | Meadow Lake | 306-236-6811 | R | C | C |
| Winterhalt, Tim                    | Unity       | 306-228-3170 | C | C | C |
| Wood, Leonard David                | Wynyard     | 306-554-2932 | C | C | C |
| Woroschuk, Andrew                  | Calder      | 306-742-4682 | C | C | C |
| Wylie, Leslie Dale                 | Biggar      | 306-948-5394 | C | C | C |
| Youzwa, Donald                     | Nipawin     | 306-862-5690 | R | C | C |
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| Cay, Randy D.                                 | Kinistino | 306-864-3696 | R | C | C |

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| Boldt, Garry                | Osler    | 306-239-2071 | C | C | C |
| Edmunds, Greg & Glen        | Tisdale  | 306-873-5480 | C | C | C |
| Weightman, Brian            | Rosthern | 306-232-5588 | C | C | C |

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| Fedoruk, Rod M. & Cathy            | Kamsack      | 306-542-4235 | R | C | C |
| Girodat, Gerald                    | Shaunavon    | 306-297-2913 | F | C | C |
| Kaeding, Roger W. & Warren         | Churchbridge | 306-896-2236 | R | C | C |
| Pfeifer, Robert G.                 | Lemberg      | 306-335-2532 | R | C | C |
| South, Winston & Richard & Bradley | Melfort      | 306-752-9840 | R | C | C |

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| Boldt, Garry                                  | Osler            | 306-239-2071 | R | C | C |
| Bolt, Dale & Scott & Tod                      | Wynyard          | 306-554-2076 | R | C | C |
| Booy, Jerry N. & Murray T. & Darcy K.         | Glaslyn          | 306-342-2058 | C | C | C |
| Boyd, Clare W. & Dale A.                      | Melfort          | 306-752-2108 | S | F | C |
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| Heavin, Larry N. & L. Warren                  | Melfort          | 306-752-4020 | S | F | R |



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| Hetland, Bill   | Naicam         | 306-874-5694 | R C     |
| Hleck, Leo  | Codette        | 306-862-5966 | C       |
| Hyland, Thomas Francis  | Scott          | 306-247-2086 | R C     |
| Hyndman, David  | Balcarres      | 306-334-2914 | C       |
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| Latrace, Bill   | Caronport      | 306-693-2626 | R C     |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard        | 306-554-2078 | F C     |
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| Lung Seeds Ltd.   | Lake Lenore    | 306-368-2414 | S C     |
| Lutzer, Albert & Latrace, Jim                                     | Lumsden        | 306-731-2843 | C       |
| McCarthy, Richard J. & Brent                                      | Corning        | 306-224-4848 | C       |
| McDougall, Ken & Craig  | Moose Jaw      | 306-693-3649 | C       |
| Medernach, Louis J. & Kim L.                                      | Cudworth       | 306-256-3398 | R C     |
| Novak, Orrin  | Kuroki         | 306-338-2021 | C       |
| Nystuen, David G.   | Spalding       | 306-872-2014 | S F     |
| Olson, Lyndon Ordon   | Archerwill     | 306-323-4912 | R       |
| Ostafie, Dave & Robert  | Canora         | 306-563-6244 | R       |
| Pratchler, John & L. & M. & A.                                    | Muenster       | 306-682-3317 | R       |
| Redman, Wayne G. & Collin M.                                      | Margo          | 306-324-4235 | R       |
| Reisner, Cecil & Barry  | Limerick       | 306-263-2139 | R       |
| Rude, Stanley   | Naicam         | 306-874-2359 | R C     |
| Rugg, Barry C. & Robert B.  | Elstow         | 306-257-3638 | C       |
| Sandercok, Eric M.  | Balcarres      | 306-334-2958 | C       |
| Seidle, E. & B. & C. & M.   | Medstead       | 306-342-4377 | S R C   |
| Shwaga, Jeff W.   | Wroxton        | 306-742-4590 | R C     |
| South, Winston & Richard & Bradley                                | Melfort        | 306-752-9840 | C       |
| Sperle, Bentley D. & Jody   | Unity          | 306-228-3160 | S       |
| Stauber, Clayton & Lori   | Stewart Valley | 306-773-7907 | C       |
| Tebbutt, Ronald E. & Gregg  | Nipawin        | 306-862-9730 | R       |
| Tomtene, Steven & Slind, Daniel                                   | Birch Hills    | 306-749-3230 | F       |
| Trawin, Brent John  | Melfort        | 306-752-4060 | R       |
| Trawin, John  | Melfort        | 306-752-4060 | S F     |
| Trowell, Kenneth & Larry  | Saltcoats      | 306-744-2687 | R       |
| Trowell, Leslie   | Saltcoats      | 306-744-2684 | F C     |
| Van Burck, Hans & Marianne  | Star City      | 306-863-4377 | S R     |
| Wakefield, Laurie Garland   | Maidstone      | 306-893-2984 | C       |
| Watson, Wayne Donald & Calvin & Mark                              | Avonlea        | 306-868-2171 | R C     |
| Wood, Leonard David   | Wynyard        | 306-554-2932 | C       |
| Woroschuk, Andrew   | Calder         | 306-742-4682 | C       |
| Yauck, Kevin Rodney   | Govan          | 306-484-4555 | C       |
| Zwingli, James Trent & Shelley                                    | Melfort        | 306-752-4224 | C       |
| <b>CDC COWBOY</b>   |                |              |         |
| Froese, Terrance P.   | Rabbit Lake    | 306-824-2121 | C       |
| Van Burck, Hans & Marianne  | Star City      | 306-863-4377 | S R     |
| Weightman, Brian  | Rosthern       | 306-232-5588 | C       |
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| Tomtene, Steven & Slind, Daniel                                   | Birch Hills    | 306-749-3230 | F       |
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| Fedoruk, Rod M. & Cathy   | Kamsack        | 306-542-4235 | R       |
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| Viterra / Proven Seed   | Regina         | 306-569-4444 | S F R C |
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| Crosson, Lorne, Will, Lee                  | Welwyn          | 306-733-4593 | R     |
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| Woods, Dale Arthur & June                  | Rocanville      | 306-645-4423 | S     |
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| Nakonechny, Don P, Coral, Lance & Lauren   | Ruthilda Kanata | 306-932-4409 | S     |
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| <b>CDC TREY</b>                            |                 |              |       |
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| Froese, Terrance P.                        | Rabbit Lake     | 306-824-2121 | C     |
| Trowell, Leslie                            | Saltcoats       | 306-744-2684 | R     |
| <b>CHAMPION</b>                            |                 |              |       |
| Viterra / Proven Seed                      | Regina          | 306-569-4444 | S F   |
| <b>CONLON</b>                              |                 |              |       |
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| Herle, Raymond & Gregory R.                | Wilkie          | 306-843-2934 | C     |
| Seed Depot Corporation                     | Pilot Mound     | 204-825-2000 | C     |
| <b>DESPERADO</b>                           |                 |              |       |
| Trowell, Leslie                            | Saltcoats       | 306-744-2684 | S     |
| <b>FORMOSA</b>                             |                 |              |       |
| Smith, Ron T.W. & Barb A.                  | Limerick        | 306-263-4944 | C     |
| <b>LEGACY</b>                              |                 |              |       |
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| Cay, Randy D.                              | Kinistino       | 306-864-3696 | C     |
| Clancy, Kenneth                            | Carrot River    | 306-768-2902 | C     |
| Fenton, Gerald A. & Robin Paul             | Tisdale         | 306-873-5438 | F R C |
| Hardy, Brian & Calvin                      | Grenfell        | 306-697-3127 | F C   |
| Hetland, Bill                              | Naicam          | 306-874-5694 | S F   |
| Hleck, Leo                                 | Codette         | 306-862-5966 | C     |
| Kaeding, Roger W. & Warren                 | Churchbridge    | 306-896-2236 | R     |
| Ostafie, Dave & Robert                     | Canora          | 306-563-6244 | R     |
| Redman, Wayne G. & Collin M.               | Margo           | 306-324-4235 | C     |
| Tomtene, Steven & Slind, Daniel            | Birch Hills     | 306-749-3230 | R     |
| Van Burck, Hans & Marianne                 | Star City       | 306-863-4377 | F C   |
| Viterra / Proven Seed                      | Regina          | 306-569-4444 | R C   |
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| Froese, Terrance P.                        | Rabbit Lake     | 306-824-2121 | R     |
| Kennett, Brian Guy                         | Manor           | 306-448-4813 | R     |
| Tomtene, Steven & Slind, Daniel            | Birch Hills     | 306-749-3230 | S R   |
| Tomtene, Terry Morris & Steven             | Birch Hills     |              | R     |
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| Boyd, Clare W. & Dale A.                   | Melfort         | 306-752-2108 | C     |
| Buziak, Ronald Charles                     | Mayfair         | 306-445-6556 | C     |
| Cay, Randy D.                              | Kinistino       | 306-864-3696 | S C   |
| Crone, Regan                               | Spalding        | 306-872-4625 | C     |
| Edwards, Lawrence R., Donna, Jeff & Mike   | Nokomis         | 306-528-2140 | C     |
| Farley, William M. & James P.              | Grand Coulee    | 306-757-6844 | C     |
| Farpure Seeds                              | Regina          | 306-791-0500 | C     |
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| Hardy, Allan W. & Dale & Evan              | Grenfell        | 306-697-3128 | C     |
| Hyndman, Neil S.                           | Balcarres       | 306-334-2914 | R C   |
| Ostafie, Dave & Robert                     | Canora          | 306-563-6244 | R     |
| Smith, Wayne D.                            | Limerick        | 306-263-2144 | C     |
| Statham, Clifford Lyle                     | Star City       | 306-863-2380 | R     |
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| Trawin, John                               | Melfort         | 306-752-4060 | R     |
| Trowell, Leslie                            | Saltcoats       | 306-744-2684 | F R   |
| Van Burck, Hans & Marianne                 | Star City       | 306-863-4377 | R     |
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| Beuker, Wilbur A.                          | Melfort         | 306-863-2225 | C     |
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| Latrace, Bill                              | Caronport       | 306-693-2626 | C     |
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| Cay, Randy D.                              | Kinistino    | 306-864-3696 |   | R   |
| Dangstorp, Emil & Brian                    | Redvers      | 306-452-3444 |   | C   |
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| Mannle, Kenneth                            | Moosomin     | 306-435-3411 | S | F   |
| Olson, Lyndon Ordon                        | Archerwill   | 306-323-4912 |   | C   |
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| Slind Seeds Group (1998) Ltd.              | Archerwill   | 306-323-4402 |   | C   |
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| CDC PINTIUM                                |              |              |   |     |
| Larsen, Lyle L.                            | Aylsham      | 306-862-7333 | S |     |
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| Harrison, Douglas & Robert M.              | White Fox    | 306-276-2424 |   | C   |
| Lyons, Murray F.                           | Nipawin      | 306-862-3066 |   | C   |
| Maxwell, David S.                          | Nipawin      | 306-862-9622 |   | C   |
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| OPAL                                       |              |              |   |     |
| Farmpure Seeds                             | Regina       | 306-791-0500 |   | C   |
| BROMEGRASS - HYBRID                        |              |              |   |     |
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| Farmpure Seeds                             | Regina       | 306-791-0500 |   | F C |
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| Mangels, Glen Ray                          | Arborfield   | 306-769-4132 |   | C   |
| Myers, George R.                           | Elrose       | 306-378-4074 |   | C   |
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| Pickseed Canada Inc.                       | Winnipeg     | 204-633-0088 |   | C   |
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| Antony, Lawrence                           | Macnutt      | 306-742-4585 | S |     |
| Farmpure Seeds                             | Regina       | 306-791-0500 |   | C   |
| Northstar Seed Ltd.                        | Neepawa      | 204-476-5241 |   | C   |
| Trawin, John                               | Melfort      | 306-752-4060 |   | F C |
| MAGNA - SMOOTH                             |              |              |   |     |
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| Maxwell, David S.                          | Nipawin      | 306-862-9622 |   | C   |
| Norman, Chris                              | Foam Lake    | 306-272-3846 | S |     |
| MANCHAR - SMOOTH                           |              |              |   |     |
| Staffen, James R.                          | Nipawin      | 306-862-5301 |   | R   |
| PADDOCK - MEADOW                           |              |              |   |     |
| Farmpure Seeds                             | Regina       | 306-791-0500 |   | F C |
| Thesen, Perry                              | Carrot River | 306-768-3662 |   | C   |
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| Herle, Raymond & Gregory R.        | Wilkie      | 306-843-2934 |   | C |
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|----------------------|------------|--------------|--|---|

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#### 1818

|                     |          |              |  |   |
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|                       |        |              |  |   |
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| Viterra / Proven Seed | Regina | 306-569-4444 |  | C |
|-----------------------|--------|--------------|--|---|

#### 32-75

|                 |            |              |  |   |
|-----------------|------------|--------------|--|---|
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|-----------------|------------|--------------|--|---|

#### 34-65

|                 |            |              |  |   |
|-----------------|------------|--------------|--|---|
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|-----------------|------------|--------------|--|---|

#### 997 RR

|                            |              |              |  |   |
|----------------------------|--------------|--------------|--|---|
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#### ACS-C7

|                           |          |              |  |   |
|---------------------------|----------|--------------|--|---|
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|---------------------------|----------|--------------|--|---|

#### EAGLE

|                |         |              |  |   |
|----------------|---------|--------------|--|---|
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|----------------|---------|--------------|--|---|

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|                           |             |              |  |   |
|---------------------------|-------------|--------------|--|---|
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|---------------------------|-------------|--------------|--|---|

#### RUGBY

|                                    |             |              |   |     |
|------------------------------------|-------------|--------------|---|-----|
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| Greenshields, Grant & Jim & Callie | Semans      | 306-524-2155 |   | C   |
| Hofer, Lorne A.                    | Wilkie      | 306-843-2797 | F | C   |
| Lung Seeds Ltd.                    | Lake Lenore | 306-368-2414 |   | C   |
| Redman, Wayne G. & Collin M.       | Margo       | 306-324-4235 |   | C   |
| Secan Association                  | Kanata      | 613-592-8600 |   | F C |

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|                       |        |              |  |   |
|-----------------------|--------|--------------|--|---|
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|-----------------------|--------|--------------|--|---|

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|-----------------------|--------|--------------|--|---|

### CHICKPEA - DESI

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|---------------|----------|--------------|---|--|
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|---------------|----------|--------------|---|--|

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|               |          |              |  |   |
|---------------|----------|--------------|--|---|
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|---------------|----------|--------------|--|---|

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|   |                |              |   |   |
|---|----------------|--------------|---|---|
| Annand, Glenn   | Mossbank       | 306-354-7675 | S | F |
| Geiger, Timothy                                       | Leader         | 306-628-4335 |   | F |
| Girodat, Gerald                                       | Shaunavon      | 306-297-2913 | S |   |
| Marcil, Harvey G. & Brent Louis                       | Moose Jaw      | 306-694-2981 |   | F |
| McDougall, Ken & Craig                                | Moose Jaw      | 306-693-3649 | S | F |
| Reisner, Cecil & Barry                                | Limerick       | 306-263-2139 | S | F |
| Renwick, Douglas Dale                                 | Milestone      | 306-436-4418 |   | R |
| Seymour, G.P, Donne, Kyle & Kelly & R. Thistlethwaite | Stewart Valley | 306-778-2344 |   | F |
| Simpson, John W.                                      | Moose Jaw      | 306-693-2132 |   | F |
| Smith, Ron T.W. & Barb A.                             | Limerick       | 306-263-4944 | S |   |



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| Sopatyk, Jeffery & Patti                   | Saskatoon    | 306-227-7867 | S |     |
| Stirton, Brian James                       | Moose Jaw    | 306-693-2310 | F |     |
| Watson, Wayne Donald & Calvin & Mark       | Avonlea      | 306-868-2171 | F |     |
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| Ries, George & Larry                       | Humboldt     | 306-682-3131 |   | C   |
| <b>CLOVER - RED</b>                        |              |              |   |     |
| <b>AC CHARLIE</b>                          |              |              |   |     |
| Peifer, Denton M.                          | Nipawin      | 306-862-3437 |   | C   |
| <b>ALTASWEDE</b>                           |              |              |   |     |
| Pickseed Canada Inc.                       | Winnipeg     | 204-633-0088 |   | C   |
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| Pickseed Canada Inc.                       | Winnipeg     | 204-633-0088 |   | C   |
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| <b>CLOVER - SWEET</b>                      |              |              |   |     |
| <b>NORGOLD</b>                             |              |              |   |     |
| Robertson, Albert James                    | Saskatoon    | 306-373-9140 |   | C   |
| <b>FABA BEAN</b>                           |              |              |   |     |
| <b>SNOWBIRD</b>                            |              |              |   |     |
| Edwards, Lawrence R., Donna, Jeff & Mike   | Nokomis      | 306-528-2140 |   | C   |
| Kaeding, Roger W. & Warren                 | Churchbridge | 306-896-2236 |   | C   |
| Marshall, Larry                            | Shellbrook   | 306-747-2725 |   | C   |
| <b>TABOAR</b>                              |              |              |   |     |
| Campbell, Hugh                             | Qu'appelle   | 306-699-7123 |   | R   |
| <b>FESCUE - SHEEP</b>                      |              |              |   |     |
| <b>DREW</b>                                |              |              |   |     |
| Lyons, Murray F.                           | Nipawin      | 306-862-3066 |   | F   |
| <b>FESCUE - MEADOW</b>                     |              |              |   |     |
| <b>SIGMUND</b>                             |              |              |   |     |
| Willness, Rick                             | Smeaton      | 306-426-2392 |   | F   |
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| <b>CDC ARRAS</b>                           |              |              |   |     |
| Craswell, Raymond W.                       | Strasbourg   | 306-725-3236 | S | F R |
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| Amos, K. Wayne                             | Oxbow        | 306-483-2963 |   | C   |
| Bergstrom, Randy M.                        | Birsay       | 306-573-4625 |   | C   |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y. | Lake Lenore  | 306-368-2602 |   | R C |
| Beuker, Allan Daniel                       | Melfort      | 306-863-2225 | F | R C |
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| Chapple, Floyd & Debbie                    | Grandora     | 306-329-4697 |   | R   |
| Dangstorp, Emil & Brian                    | Redvers      | 306-452-3444 |   | C   |
| Dutton, David H. & George                  | Paynton      | 306-895-4306 |   | C   |
| Edmunds, Greg & Glen                       | Tisdale      | 306-873-5480 |   | C   |
| Fenton, Gerald A. & Robin Paul             | Tisdale      | 306-873-5438 | S | R   |
| Floberg, Barry & Delana & Devin & Brandon  | Shaunavon    | 306-297-2087 |   | R   |
| Fritzler, Baine A., Brenda D. & Adam A.    | Govan        | 306-484-4612 |   | R C |
| Garratt, Lyle C. & K.C.                    | Milestone    | 306-436-2178 |   | C   |
| Gerry, Greg                                | Creelman     | 306-457-2220 |   | C   |
| Girardin, Gaetan                           | Meyronne     | 306-264-5146 |   | R   |
| Kennett, Brian Guy                         | Manor        | 306-448-4813 | F | R   |
| Latrace, Bill                              | Caronport    | 306-693-2626 |   | C   |
| Lung Seeds Ltd.                            | Lake Lenore  | 306-368-2414 |   | C   |
| Marin, Darald                              | Radville     | 306-869-2262 |   | C   |
| Mayerle, Bernhard C.                       | Tisdale      | 306-873-4267 |   | C   |
| McCarthy, Richard J. & Brent               | Corning      | 306-224-4848 |   | R   |
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| Rugg, Barry C. & Robert B.  | Elstow        | 306-257-3638 |   | R   |
| Sandercocock, Eric M.   | Balcarres     | 306-334-2958 |   | C   |
| Schmeling, Donald H.  | Riceton       | 306-738-2064 |   | C   |
| S lind Seeds Group (1998) Ltd.                                    | Archerwill    | 306-323-4402 |   | R   |
| Stirton, Brian James  | Moose Jaw     | 306-693-2310 |   | R   |
| Stokke, Terry J. & Shane T.                                       | Watrous       | 306-946-2566 |   | R   |
| Trowell, Kenneth & Larry  | Saltcoats     | 306-744-2687 |   | R   |
| Weightman, Brian  | Rosthern      | 306-232-5588 |   | C   |
| <b>CDC MONS</b>   |               |              |   |     |
| Hardy, Brian & Calvin   | Grenfell      | 306-697-3127 |   | C   |
| <b>CDC SORREL</b>   |               |              |   |     |
| Allan, John R. & John Garth                                       | Corning       | 306-457-2629 | S | F C |
| Allan, John Richard   | Corning       | 306-224-2021 |   | C   |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore   | 306-368-2602 |   | C   |
| Edmunds, Greg & Glen  | Tisdale       | 306-873-5480 |   | R   |
| Edwards, Lawrence R., Donna, Jeff & Mike                          | Nokomis       | 306-528-2140 | S | F   |
| Fenton, Gerald A. & Robin Paul                                    | Tisdale       | 306-873-5438 | S | F R |
| Fowler, Edith   | Central Butte | 306-796-4652 |   | R   |
| Fraser, Edward H. & Glen & Dale                                   | Yarbo         | 306-745-3830 |   | R   |
| Fritzler, Baine A., Brenda D. & Adam A.                           | Govan         | 306-484-4612 |   | C   |
| Greenshields, Grant & Jim & Callie                                | Semans        | 306-524-2155 |   | R   |
| Heavin, G. Harvey & G. Ryan                                       | Melfort       | 306-752-4171 |   | C   |
| Heggie, Kyle Robert   | Leross        | 306-675-4920 |   | C   |
| Heggie, Robert Thomas   | Leross        | 306-675-4920 |   | R   |
| Hetland, Bill   | Naicam        | 306-874-5694 |   | R   |
| Holland, Ernest W.  | Rocanville    | 306-645-4223 |   | R   |
| Hyndman, Glen   | Balcarres     | 306-334-2914 |   | R   |
| Hyndman, Neil S.  | Balcarres     | 306-334-2914 |   | R   |
| Kennett, Brian Guy  | Manor         | 306-448-4813 |   | R   |
| Kerber, Greg  | Rosthern      | 306-232-4474 |   | R   |
| Klemmer, Richard  | Nipawin       | 306-862-3874 |   | R   |
| Klym, Roy & Vern  | Regina        | 306-543-5052 |   | R   |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard       | 306-554-2078 | S | F R |
| Leduc, Gerald R.  | Assiniboia    | 306-642-3076 |   | C   |
| Littman, Larry W. & Allan B. & L.R.                               | Saltcoats     | 306-783-6518 | S |     |
| Lung Seeds Ltd.   | Lake Lenore   | 306-368-2414 |   | R   |
| Needham, Ronald Clarence  | Oxbow         | 306-483-5063 |   | C   |
| Olson, Lyndon Ordon   | Archerwill    | 306-323-4912 |   | R   |
| Ostafie, Dave & Robert  | Canora        | 306-563-6244 |   | F   |
| Radloff, Shelly Colleen   | Melfort       | 306-752-4060 | S | F R |
| Reisner, Cecil & Barry  | Limerick      | 306-263-2139 |   | R   |
| Rude, Stanley   | Naicam        | 306-874-2359 |   | R   |
| Shewchuk, Stan & Lorne & Terry                                    | Krydor        | 306-497-2800 | S | F   |
| Trawin, Alan Ross, Mitchell, Ashton, Jennifer & Jessica           | Melfort       | 306-752-4060 | S |     |
| Van Burck, Hans & Marianne  | Star City     | 306-863-4377 | S |     |
| Woroschuk, Andrew   | Calder        | 306-742-4682 |   | R   |
| Yauck, Arthur   | Cymric        | 306-484-4643 | S |     |
| Yauck, Kevin Rodney   | Govan         | 306-484-4555 | S | F R |
| <b>CDC VALOUR</b>   |               |              |   |     |
| Olson, Lyndon Ordon   | Archerwill    | 306-323-4912 |   | C   |
| <b>HANLEY</b>   |               |              |   |     |
| Cresswell, Gordon B. & Bryan & Mark                               | Tisdale       | 306-873-5360 |   | R   |
| Holland, Ernest W.  | Rocanville    | 306-645-4223 |   | C   |
| <b>NORLIN</b>   |               |              |   |     |
| Garratt, Lyle C. & K.C.   | Milestone     | 306-436-2178 | S |     |
| <b>PRAIRIE BLUE</b>   |               |              |   |     |
| Allan, John R. & John Garth                                       | Corning       | 306-457-2629 |   | R   |
| Willner, Lorne E.   | Davidson      | 306-567-4613 |   | R   |
| <b>PRAIRIE GRANDE</b>   |               |              |   |     |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore   | 306-368-2602 |   | F   |
| Boyd, Clare W. & Dale A.  | Melfort       | 306-752-2108 |   | R   |
| Carlson, Herbert E.P. & Leslie                                    | Buchanan      | 306-592-4449 |   | R   |



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| Dutton, David H. & George      | Paynton     | 306-895-4306 | R |
| Lung Seeds Ltd.                | Lake Lenore | 306-368-2414 | S |
| Mayerle, Garry D.              | Tisdale     | 306-873-5993 | R |
| Shewchuk, Stan & Lorne & Terry | Krydor      | 306-497-2800 | S |
| Sperle, Bentley D. & Jody      | Unity       | 306-228-3160 | R |
| Tebbutt, Ronald E. & Gregg     | Nipawin     | 306-862-9730 | S |

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| Fedoruk, Rod M. & Cathy | Kamsack   | 306-542-4235 | R   |
| Trowell, Leslie         | Saltcoats | 306-744-2684 | F R |

**TAURUS**

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| Larsen, Lyle L.            | Aylsham   | 306-862-7333 | C   |
| Trowell, Leslie            | Saltcoats | 306-744-2684 | R   |
| Van Burck, Hans & Marianne | Star City | 306-863-4377 | S F |
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| Bruce, Vic R.           | Tuxford      | 306-693-2044 | R     |
| Corbett, Dean & Trent   | Macrorie     | 306-243-2047 | R     |
| Fast, Walter J. & Linda | Kindersley   | 306-463-3626 | R     |
| Garratt, Lyle C. & K.C. | Milestone    | 306-436-2178 | R     |
| Hansen, James S.        | Yellow Grass | 306-465-2525 | F     |

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| Hundeby, R. & D. & R. & A. & K. & L. & Wonnick, Adam | Elbow     | 306-854-4901 | R   |
| Klym, Roy & Vern                                     | Regina    | 306-543-5052 | C   |
| Lutzer, Albert & Latrace, Jim                        | Lumsden   | 306-731-2843 | R   |
| Marcil, Harvey G. & Brent Louis                      | Moose Jaw | 306-694-2981 | R   |
| McDougall, Ken & Craig                               | Moose Jaw | 306-693-3649 | S F |

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| Nakonechny, Don P, Coral, Lance & Lauren | Ruthilda  | 306-932-4409 | F R   |
| Reisner, Cecil & Barry                   | Limerick  | 306-263-2139 | S F R |
| Renwick, Douglas Dale                    | Milestone | 306-436-4418 | F     |

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| Seymour, G.P. Donne, Kyle & Kelly & R. Thistlethwaite | Stewart Valley | 306-778-2344 | S F R C |
| Simpson, Trevor W.                                    | Moose Jaw      | 306-693-2132 | F C     |
| Smith, Wayne D.                                       | Limerick       | 306-263-2144 | R       |
| Sopatyk, Jeffery & Patti                              | Saskatoon      | 306-227-7867 | S F C   |
| Stauber, Clayton & Lori                               | Stewart Valley | 306-773-7907 | C       |
| Stirton, Brian James                                  | Moose Jaw      | 306-693-2310 | R       |

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|--------------------------------------|----------|--------------|---|
| Watson, Wayne Donald & Calvin & Mark | Avonlea  | 306-868-2171 | F |
| Willner, Lorne E.                    | Davidson | 306-567-4613 | F |

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|---|--------------|--------------|-----|
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| Ardell, Terrence Wade, Michael, Brad & Joanne | Vanscoy      | 306-668-4415 | R   |
| Barlow, Bradley L.                            | Griffin      | 306-842-6216 | C   |
| Craswell, Raymond W.                          | Strasbourg   | 306-725-3236 | F R |
| Fast, Walter J. & Linda                       | Kindersley   | 306-463-3626 | R   |
| Froese, Terrance P.                           | Rabbit Lake  | 306-824-2121 | S   |
| Hansen, James S.                              | Yellow Grass | 306-465-2525 | R   |
| Mattus, Ronald                                | Chaplin      | 306-395-2652 | R   |
| Mayerle, Garry D.                             | Tisdale      | 306-873-5993 | C   |
| McDougall, Ken & Craig                        | Moose Jaw    | 306-693-3649 | R   |
| Mueller, Gordon                               | Humboldt     | 306-682-3016 | C   |
| Schmeling, Donald H.                          | Riceton      | 306-738-2064 | C   |
| Smith, Wayne D.                               | Limerick     | 306-263-2144 | C   |

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| Bailey, Roy G.                                | Milden       | 306-935-4702 | F   |
| Farley, William M. & James P.                 | Grand Coulee | 306-757-6844 | F   |
| Fast, Walter J. & Linda                       | Kindersley   | 306-463-3626 | R   |
| Fenton, Gerald A. & Robin Paul                | Tisdale      | 306-873-5438 | S F |
| Greenshields, Grant & Jim & Callie            | Semans       | 306-524-2155 | F   |
| Lutzer, Albert & Latrace, Jim                 | Lumsden      | 306-731-2843 | S   |
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| Seymour, G.P. Donne, Kyle & Kelly & R. Thistlethwaite | Stewart Valley | 306-778-2344 | F   |
| Sopatyk, Jeffery & Patti                              | Saskatoon      | 306-227-7867 | S R |
| Stirton, Brian James                                  | Moose Jaw      | 306-693-2310 | R   |
| Straub, Lorne A.                                      | Pense          | 306-345-2390 | F   |
| Titman, David G. & Loa L.                             | Viscount       | 306-944-4236 | S   |
| Willner, Lorne E.                                     | Davidson       | 306-567-4613 | F   |

**CDC IMPERIAL - SMALL RED**

|                               |              |              |     |
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| Ackerman, Patrick             | Chamberlain  | 306-638-3177 | R   |
| Beck, Gregor                  | Rouleau      | 306-776-2432 | S   |
| Dutton, David H. & George     | Paynton      | 306-895-4306 | C   |
| Fast, Walter J. & Linda       | Kindersley   | 306-463-3626 | R   |
| Hansen, James S.              | Yellow Grass | 306-465-2525 | R   |
| Lutzer, Albert & Latrace, Jim | Lumsden      | 306-731-2843 | C   |
| Schumacher, Mark              | Delisle      | 306-493-2937 | C   |
| Smith, Ron T.W. & Barb A.     | Limerick     | 306-263-4944 | R   |
| Sopatyk, Jeffery & Patti      | Saskatoon    | 306-227-7867 | S F |
| Willner, Brady E.             | Davidson     | 306-567-4613 | C   |
| Yauck, Kevin Rodney           | Govan        | 306-484-4555 | R   |

**CDC IMPRESS - MEDIUM GREEN**

|                                    |           |              |     |
|------------------------------------|-----------|--------------|-----|
| Greenshields, Grant & Jim & Callie | Semans    | 306-524-2155 | F   |
| Lutzer, Albert & Latrace, Jim      | Lumsden   | 306-731-2843 | F   |
| Reisner, Cecil & Barry             | Limerick  | 306-263-2139 | S F |
| Simpson, Jamie                     | Moose Jaw | 306-693-2132 | R   |

**CDC IMPROVE - LARGE GREEN**

|                                     |              |              |   |
|-------------------------------------|--------------|--------------|---|
| Altwasser, Rodney & Allen R. & Dean | Yellow Grass | 306-465-2727 | R |
| Bruce, Vic R.                       | Tuxford      | 306-693-2044 | R |
| Fast, Walter J. & Linda             | Kindersley   | 306-463-3626 | R |
| Garratt, Lyle C. & K.C.             | Milestone    | 306-436-2178 | R |
| Gellner, Clayton S.                 | Southey      | 306-726-4323 | R |
| Gizen, Jason                        | Prelate      | 306-673-2687 | R |

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|------------------------------------|--------------|--------------|---|
| Greenshields, Grant & Jim & Callie | Semans       | 306-524-2155 | R |
| Hansen, James S.                   | Yellow Grass | 306-465-2525 | R |
| Klym, Roy & Vern                   | Regina       | 306-543-5052 | R |
| Leduc, Gerald R.                   | Assiniboia   | 306-642-3076 | R |
| Lutzer, Albert & Latrace, Jim      | Lumsden      | 306-731-2843 | R |
| Marcil, Harvey G. & Brent Louis    | Moose Jaw    | 306-694-2981 | R |

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| Nakonechny, Don P, Coral, Lance & Lauren | Ruthilda  | 306-932-4409 | F R   |
| Reisner, Cecil & Barry                   | Limerick  | 306-263-2139 | S F R |
| Rennick, Joe R. & William J.             | Milestone | 306-436-4353 | S F   |
| Renwick, Douglas Dale                    | Milestone | 306-436-4418 | F     |
| Rugg, Barry C. & Robert B.               | Elstow    | 306-257-3638 | R     |
| Schmeling, Donald H.                     | Riceton   | 306-738-2064 | S F   |

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|---|----------------|--------------|-----|
| Seymour, G.P. Donne, Kyle & Kelly & R. Thistlethwaite | Stewart Valley | 306-778-2344 | R   |
| Simpson, Jamie  | Moose Jaw      | 306-693-2132 | R C |
| Sopatyk, Jeffery & Patti                              | Saskatoon      | 306-227-7867 | S   |
| Stauber, Clayton & Lori                               | Stewart Valley | 306-773-7907 | C   |
| Stirton, Brian James                                  | Moose Jaw      | 306-693-2310 | R   |
| Sudom, Blaine G. & Nathan                             | Avonlea        | 306-868-4620 | R   |

**CDC MAXIM - SMALL RED**

|   |                  |              |     |
|---|------------------|--------------|-----|
| Watson, Wayne Donald & Calvin & Mark          | Avonlea          | 306-868-2171 | R   |
| Ardell, Terrence Wade, Michael, Brad & Joanne | Vanscoy          | 306-668-4415 | R   |
| Barlow, Bradley L.                            | Griffin          | 306-842-6216 | F   |
| Baxter, Daniel J.H.                           | North Battleford | 306-445-5414 | S   |
| Denis, Michel P. & Marc                       | St. Denis        | 306-258-2075 | F   |
| Dutton, David H. & George                     | Paynton          | 306-895-4306 | S   |
| Fast, Walter J. & Linda                       | Kindersley       | 306-463-3626 | S   |
| Herle, Raymond & Gregory R.                   | Wilkie           | 306-843-2934 | F   |
| Lutzer, Albert & Latrace, Jim                 | Lumsden          | 306-731-2843 | F   |
| Mayell, Harvey J. & Calvin J.                 | Congress         | 306-642-3120 | S   |
| McDougall, Ken & Craig                        | Moose Jaw        | 306-693-3649 | S F |

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| Nakonechny, Don P, Coral, Lance & Lauren | Ruthilda  | 306-932-4409 | F   |
| Reisner, Cecil & Barry                   | Limerick  | 306-263-2139 | S F |
| Simpson, Greg J.                         | Moose Jaw | 306-693-2132 | R   |
| Sopatyk, Jeffery & Patti                 | Saskatoon | 306-227-7867 | S R |
| Stirton, Brian James                     | Moose Jaw | 306-693-2310 | F   |
| Straub, Lorne A.                         | Pense     | 306-345-2390 | S   |



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| Veikle, Lorne A. & Carl E. & G. & J.                 | Cut Knife        | 306-398-4714 | S     |
| Watson, Wayne Donald & Calvin & Mark                 | Avonlea          | 306-868-2171 | S F   |
| <b>CDC METEOR - MEDIUM GREEN</b>                     |                  |              |       |
| Beck, Gregor   | Rouleau          | 306-776-2432 | C     |
| Greenshields, Grant & Jim & Callie                   | Semans           | 306-524-2155 | R     |
| Nagel, David   | Mossbank         | 306-354-2517 | R C   |
| <b>CDC PLATO - LARGE GREEN</b>                       |                  |              |       |
| Bailey, Roy G.                                       | Milden           | 306-935-4702 | C     |
| Forer, Tim & Denise                                  | Avonlea          | 306-868-4433 | C     |
| Klym, Roy & Vern                                     | Regina           | 306-543-5052 | C     |
| Mattus, Ronald                                       | Chaplin          | 306-395-2652 | R     |
| Nagel, David   | Mossbank         | 306-354-2517 | C     |
| Petruic, Cameron L., Judy & Nick                     | Avonlea          | 306-868-2294 | S F R |
| <b>CDC RED RIDER - SMALL RED</b>                     |                  |              |       |
| Bailey, Roy G.                                       | Milden           | 306-935-4702 | F     |
| Reisner, Cecil & Barry                               | Limerick         | 306-263-2139 | S F   |
| Simpson, Tyler                                       | Moose Jaw        | 306-693-2132 | R     |
| <b>CDC REDBERRY - SMALL RED</b>                      |                  |              |       |
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| Craswell, Raymond W.                                 | Strasbourg       | 306-725-3236 | S     |
| Gregoire, Denis                                      | North Battleford | 306-445-5516 | R C   |
| Hundeby, R. & D. & R. & A. & K. & L. & Wonnick, Adam | Elbow            | 306-854-4901 | C     |
| McDougall, Ken & Craig                               | Moose Jaw        | 306-693-3649 | C     |
| Petruic, Cameron L., Judy & Nick                     | Avonlea          | 306-868-2294 | S F   |
| Veikle, Lorne A. & Carl E. & G. & J.                 | Cut Knife        | 306-398-4714 | F     |
| <b>CDC ROSETOWN - SMALL RED</b>                      |                  |              |       |
| Hansen, James S.                                     | Yellow Grass     | 306-465-2525 | R     |
| <b>CDC ROULEAU - SMALL RED</b>                       |                  |              |       |
| Dobson, Curtis & Alison                              | Rouleau          | 306-776-2500 | C     |
| Fast, Walter J. & Linda                              | Kindersley       | 306-463-3626 | C     |
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| <b>CDC VICEROY - SMALL GREEN</b>                     |                  |              |       |
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| Heenan, William D. & E.H.                            | Regina           | 306-757-8493 | C     |
| Rennick, Joe R. & William J.                         | Milestone        | 306-436-4353 | F C   |
| Rogg, Paul A.  | Pennant          | 306-626-3236 | C     |
| Simpson, Thomas H.                                   | Moose Jaw        | 306-693-2132 | C     |
| Watson, Wayne Donald & Calvin & Mark                 | Avonlea          | 306-868-2171 | C     |

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| Latrace, Bill                                 | Caronport        | 306-693-2626 | R C |
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| Trawin, John                                  | Melfort          | 306-752-4060 | C   |
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| Froese, Terrance P.                           | Rabbit Lake      | 306-824-2121 | S   |
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| Boyd, Clare W. & Dale A.                      | Melfort      | 306-752-2108 | S |   | C   |
| Edwards, Lawrence R., Donna, Jeff & Mike      | Nokomis      | 306-528-2140 | S | F |     |
| Fedoruk, Rod M. & Cathy                       | Kamsack      | 306-542-4235 |   |   | R C |
| Fenton, Gerald A. & Robin Paul                | Tisdale      | 306-873-5438 | S | F |     |
| Frederick, Blaine                             | Watson       | 306-287-4289 |   |   | C   |
| Hetland, Bill                                 | Naicam       | 306-874-5694 |   |   | R   |
| Kaeding, Roger W. & Warren                    | Churchbridge | 306-896-2236 |   |   | C   |
| Lueke, Dennis                                 | Humboldt     | 306-682-5170 | F | C |     |
| Olson, Lyndon Ordon                           | Archerwill   | 306-323-4912 |   |   | R   |
| Slind Seeds Group (1998) Ltd.                 | Archerwill   | 306-323-4402 |   |   | R   |
| Smith, Wayne D.                               | Limerick     | 306-263-2144 |   |   | R   |
| Tomtene, Steven & Slind, Daniel               | Birch Hills  | 306-749-3230 | F | C |     |

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|------------------------------|------------|--------------|--|--|---|
| <b>LU</b>                    |            |              |  |  |   |
| Olson, Lyndon Ordon          | Archerwill | 306-323-4912 |  |  | R |
| Redman, Wayne G. & Collin M. | Margo      | 306-324-4235 |  |  | C |

|   |           |              |  |  |     |
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| <b>PINNACLE</b>                               |           |              |  |  |     |
| Ardell, Terrence Wade, Michael, Brad & Joanne | Vanscoy   | 306-668-4415 |  |  | R C |
| Tulloch, Randy                                | Broadview | 306-696-2840 |  |  | C   |

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| <b>STAINLESS</b>        |         |              |   |  |  |
| Fedoruk, Rod M. & Cathy | Kamsack | 306-542-4235 | S |  |  |

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| <b>SW BETANIA</b>      |        |              |   |   |  |
| Jones, Bradley & Wanda | Wadena | 306-338-2381 | F | C |  |
| Viterra / Proven Seed  | Regina | 306-569-4444 | S | R |  |

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| <b>TRIACTOR</b>                    |             |              |   |  |  |
| Fedoruk, Rod M. & Cathy            | Kamsack     | 306-542-4235 | S |  |  |
| Lung Seeds Ltd.                    | Lake Lenore | 306-368-2414 | F |  |  |
| South, Winston & Richard & Bradley | Melfort     | 306-752-9840 | F |  |  |
| Trowell, Leslie                    | Saltcoats   | 306-744-2684 | F |  |  |

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| <b>PEAS</b>                          |           |              |  |  |   |
| <b>AGASSIZ</b>                       |           |              |  |  |   |
| Greenshields, Grant & Jim & Callie   | Semans    | 306-524-2155 |  |  | R |
| Pfeifer, Robert G.                   | Lemberg   | 306-335-2532 |  |  | R |
| Veikle, Lorne A. & Carl E. & G. & J. | Cut Knife | 306-398-4714 |  |  | R |

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| <b>CDC ACER</b>                |         |              |   |   |   |
| Fenton, Gerald A. & Robin Paul | Tisdale | 306-873-5438 | S | F | R |

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| <b>CDC BRONCO</b>           |               |              |   |   |     |
| Allan, John R. & John Garth | Corning       | 306-457-2629 | S | F | R C |
| Boldt, Garry                | Osler         | 306-239-2071 |   |   | C   |
| Bolt, Dale & Scott & Tod    | Wynyard       | 306-554-2076 |   |   | C   |
| Brown, Kyle                 | Prince Albert | 306-922-0571 | S | F | C   |
| Cay, Randy D.               | Kinistino     | 306-864-3696 | F |   | C   |
| Chapple, Floyd & Debbie     | Grandora      | 306-329-4697 |   |   | C   |
| Clearwater, Don W.          | Nipawin       | 306-862-3025 |   |   | R   |
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| Fenton, Gerald A. & Robin Paul          | Tisdale     | 306-873-5438 |   |   | R |
| Fritzler, Baine A., Brenda D. & Adam A. | Govan       | 306-484-4612 |   |   | C |
| Klym, Roy & Vern                        | Regina      | 306-543-5052 |   |   | R |
| Labrecque, Roger                        | Saskatoon   | 306-373-9379 |   |   | C |
| Luck, Lorne C. & Landis                 | Tisdale     | 306-873-4111 |   |   | C |
| Lung Seeds Ltd.                         | Lake Lenore | 306-368-2414 |   |   | R |
| Maxwell, David S.                       | Nipawin     | 306-862-9622 | S | F | R |
| Mayell, Harvey J. & Calvin J.           | Congress    | 306-642-3120 |   |   | C |
| Olson, Lyndon Ordon                     | Archerwill  | 306-323-4912 |   |   | C |
| Rayner, Loren                           | Stenen      | 306-548-4655 |   |   | R |
| Rempel, Blair Allan                     | Nipawin     | 306-862-3573 |   |   | C |
| Shymanski, Ronald Albert                | Choiceland  | 306-428-2405 |   |   | R |
| South, Winston & Richard & Bradley      | Melfort     | 306-752-9840 |   |   | C |
| Warrington, John                        | Mervin      | 306-845-2642 |   |   | C |
| Willner, Brady E.                       | Davidson    | 306-567-4613 |   |   | C |
| Willner, Lorne E.                       | Davidson    | 306-567-4613 |   |   | C |

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| <b>CDC CENTENNIAL</b>                                 |                |              |   |   |   |
| Allan, John R. & John Garth                           | Corning        | 306-457-2629 | S |   |   |
| Bailey, Roy G.  | Milden         | 306-935-4702 | S |   |   |
| Barlow, Bradley L.                                    | Griffin        | 306-842-6216 | S |   |   |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.            | Lake Lenore    | 306-368-2602 |   |   | F |
| Cresswell, Gordon B. & Bryan & Mark                   | Tisdale        | 306-873-5360 | S |   |   |
| Dutton, David H. & George                             | Paynton        | 306-895-4306 | S |   |   |
| Fast, Walter J. & Linda                               | Kindersley     | 306-463-3626 | F |   |   |
| Fedoruk, Rod M. & Cathy                               | Kamsack        | 306-542-4235 | F |   |   |
| Garratt, Lyle C. & K.C.                               | Milestone      | 306-436-2178 | F |   |   |
| Geiger, Timothy                                       | Leader         | 306-628-4335 | F |   |   |
| Larsen, Lyle L.                                       | Aylsham        | 306-862-7333 | S |   |   |
| Lung Seeds Ltd.                                       | Lake Lenore    | 306-368-2414 | F |   |   |
| Rempel, Blair Allan                                   | Nipawin        | 306-862-3573 | S |   |   |
| Sanderson, Donald Stewart                             | Rosetown       | 306-882-3317 |   |   | R |
| Seymour, G.P. Donne, Kyle & Kelly & R. Thistlethwaite | Stewart Valley | 306-778-2344 | F |   |   |
| Simpson, John W.                                      | Moose Jaw      | 306-693-2132 |   |   | R |
| Sopatyk, Jeffery & Patti                              | Saskatoon      | 306-227-7867 | S |   | R |
| Sperle, Bentley D. & Jody                             | Unity          | 306-228-3160 | F |   |   |
| Tebbutt, Ronald E. & Gregg                            | Nipawin        | 306-862-9730 | S | F |   |
| Van Burck, Hans & Marianne                            | Star City      | 306-863-4377 | S |   |   |
| Watson, Wayne Donald & Calvin & Mark                  | Avonlea        | 306-868-2171 |   |   | F |

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| <b>CDC GOLDEN</b>   |               |              |   |   |     |
| Allan, John R. & John Garth                                       | Corning       | 306-457-2629 | F | R | C   |
| Allan, John Richard   | Corning       | 306-224-2021 |   |   | C   |
| Amos, K. Wayne  | Oxbow         | 306-483-2963 | S | F | C   |
| Annand, Glenn   | Mossbank      | 306-354-7675 |   |   | R   |
| Ardell, Terrence Wade, Michael, Brad & Joanne                     | Vanscoy       | 306-668-4415 |   |   | R C |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore   | 306-368-2602 |   |   | C   |
| Bews Agrow Ltd.   | Eatonia       | 306-967-2440 |   |   | C   |
| Bolt, Dale & Scott & Tod  | Wynyard       | 306-554-2076 |   |   | C   |
| Buziak, Ronald Charles  | Mayfair       | 306-445-6556 |   |   | C   |
| Carefoot, Floyd Martin  | Swift Current | 306-773-6963 |   |   | C   |
| Chapple, Floyd & Debbie   | Grandora      | 306-329-4697 |   |   | C   |
| Craswell, Raymond W.  | Strasbourg    | 306-725-3236 |   |   | R   |
| Floberg, Barry & Delana & Devin & Brandon                         | Shaunavon     | 306-297-2087 |   |   | C   |
| Froese, Terrance P.   | Rabbit Lake   | 306-824-2121 |   |   | C   |
| Garratt, Lyle C. & K.C.   | Milestone     | 306-436-2178 |   |   | C   |
| Girodat, Gerald   | Shaunavon     | 306-297-2913 |   |   | C   |
| Hansen, James S.  | Yellow Grass  | 306-465-2525 |   |   | C   |
| Heggie, Robert Thomas   | Leross        | 306-675-4920 |   |   | R   |
| Herle, Raymond & Gregory R.                                       | Wilkie        | 306-843-2934 |   |   | C   |
| Johnson, Oscar Stuart   | Margo         | 306-324-4315 |   |   | C   |
| Kaeding, Roger W. & Warren  | Churchbridge  | 306-896-2236 |   |   | C   |
| Kerber, Greg  | Rosthern      | 306-232-4474 |   |   | C   |
| Klym, Roy & Vern  | Regina        | 306-543-5052 |   |   | R C |
| Labrecque, Roger  | Saskatoon     | 306-373-9379 |   |   | C   |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard       | 306-554-2078 |   |   | R C |
| Mattus, Ronald  | Chaplin       | 306-395-2652 |   |   | R   |



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| Mayerle, Bernhard C.  | Tisdale        | 306-873-4267 | C     |
| McDougall, Ken & Craig  | Moose Jaw      | 306-693-3649 | C     |
| Nakonechny, Don P. Coral, Lance & Lauren                          | Ruthilda       | 306-932-4409 | C     |
| Palmier, Maurice  | Lafleche       | 306-472-5917 | C     |
| Reisner, Cecil & Barry  | Limerick       | 306-263-2139 | R C   |
| Rennick, Joe R. & William J.                                      | Milestone      | 306-436-4353 | R     |
| Schmeling, Donald H.  | Riceton        | 306-738-2064 | C     |
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| Travland, Glenn & Marie   | Coronach       | 306-267-4916 | C     |
| Travland, Norman & Lureen & Kevin                                 | Coronach       | 306-267-4923 | R C   |
| Trawin, Debra Ann   | Melfort        | 306-752-4060 | F R   |
| Veikle, Lorne A. & Carl E. & G. & J.                              | Cut Knife      | 306-398-4714 | C     |
| Weightman, Brian  | Rosthern       | 306-232-5588 | C     |
| Yauck, Kevin Rodney   | Govan          | 306-484-4555 | C     |
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| Annand, Glenn   | Mossbank       | 306-354-7675 | S     |
| Boldt, Garry  | Osler          | 306-239-2071 | S     |
| Kaeding, Roger W. & Warren  | Churchbridge   | 306-896-2236 | S     |
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| Annand, Glenn   | Mossbank       | 306-354-7675 | S     |
| Ardell, Terrence Wade, Michael, Brad & Joanne                     | Vanscoy        | 306-668-4415 | R     |
| Bailey, Roy G.  | Milden         | 306-935-4702 | R     |
| Bergstrom, Randy M.   | Birsay         | 306-573-4625 | R     |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore    | 306-368-2602 | S F R |
| Bews Agrow Ltd.   | Eatonia        | 306-967-2440 | F     |
| Bolt, Dale & Scott & Tod  | Wynyard        | 306-554-2076 | R     |
| Bruce, Vic R.   | Tuxford        | 306-693-2044 | R     |
| Bryant, Lee & Phyl & Vern & Carol                                 | Battleford     | 306-937-3565 | S     |
| Cay, Randy D.   | Kinistino      | 306-864-3696 | R     |
| Cresswell, Gordon B. & Bryan & Mark                               | Tisdale        | 306-873-5360 | R     |
| Denis, Michel P. & Marc   | St. Denis      | 306-258-2075 | R     |
| Dutton, David H. & George   | Paynton        | 306-895-4306 | R     |
| Edwards, Lawrence R., Donna, Jeff & Mike                          | Nokomis        | 306-528-2140 | S F   |
| Fast, Walter J. & Linda   | Kindersley     | 306-463-3626 | R     |
| Fedoruk, Rod M. & Cathy   | Kamsack        | 306-542-4235 | R     |
| Fenton, Gerald A. & Robin Paul                                    | Tisdale        | 306-873-5438 | S F   |
| Fritzler, Baine A., Brenda D. & Adam A.                           | Govan          | 306-484-4612 | R     |
| Ganshorn, Allan W.  | Regina         | 306-757-8328 | S F R |
| Geall, Brian R.   | Nipawin        | 306-862-9177 | R     |
| Girodat, Gerald   | Shaunavon      | 306-297-2913 | R     |
| Greenshields, Grant & Jim & Callie                                | Semans         | 306-524-2155 | R     |
| Heavin, Larry N. & L. Warren                                      | Melfort        | 306-752-4020 | S F   |
| Heavin, Milton Russell  | Melfort        | 306-752-4071 | S R   |
| Herle, Raymond & Gregory R.                                       | Wilkie         | 306-843-2934 | R     |
| Hetland, Bill   | Naicam         | 306-874-5694 | S F R |
| Hundeby, R. & D. & R. & A. & K. & L. & Wonnick, Adam              | Elbow          | 306-854-4901 | R     |
| Kaeding, Roger W. & Warren  | Churchbridge   | 306-896-2236 | R     |
| Klemmer, Richard  | Nipawin        | 306-862-3874 | F R   |
| Klym, Roy & Vern  | Regina         | 306-543-5052 | R     |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard        | 306-554-2078 | S F R |
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| Lung Seeds Ltd.   | Lake Lenore    | 306-368-2414 | R     |
| Marcil, Harvey G. & Brent Louis                                   | Moose Jaw      | 306-694-2981 | R     |
| Mayerle, Bernhard C.  | Tisdale        | 306-873-4267 | R     |
| Mayerle, Erwin D.   | Tisdale        | 306-873-4261 | F R   |
| Mayerle, Garry D.   | Tisdale        | 306-873-5993 | R     |
| Mayerle, Kris   | Tisdale        | 306-873-4261 | R     |
| Novak, Orrin  | Kuroki         | 306-338-2021 | R     |
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| Rude, Stanley   | Naicam         | 306-874-2359 | R     |
| Sanderson, Donald Stewart                               | Rosetown       | 306-882-3317 | R     |
| Seymour, G.P. Donne, Kyle & Kelly & R. Thistlethwaite   | Stewart Valley | 306-778-2344 | C     |
| Simpson, John W.  | Moose Jaw      | 306-693-2132 | S     |
| Sopatyk, Jeffery & Patti                                | Saskatoon      | 306-227-7867 | S F R |
| South, Winston & Richard & Bradley                      | Melfort        | 306-752-9840 | R     |
| Stauber, Clayton & Lori                                 | Stewart Valley | 306-773-7907 | C     |
| Straub, Lorne A.  | Pense          | 306-345-2390 | S     |
| Tebbutt, Ronald E. & Gregg                              | Nipawin        | 306-862-9730 | S F R |
| Trawin, Alan Ross, Mitchell, Ashton, Jennifer & Jessica | Melfort        | 306-752-4060 | S R   |
| Trawin, Brent John                                      | Melfort        | 306-752-4060 | S F R |
| Van Burck, Hans & Marianne                              | Star City      | 306-863-4377 | S F   |
| Veikle, Lorne A. & Carl E. & G. & J.                    | Cut Knife      | 306-398-4714 | R     |
| Wakefield, Kristopher & Laurie G.                       | Maidstone      | 306-893-2527 | F     |
| Wakefield, Laurie Garland                               | Maidstone      | 306-893-2984 | R     |
| Walker, Vincent C.                                      | Melfort        | 306-863-4110 | R     |
| Warrington, John  | Mervin         | 306-845-2642 | R     |
| Watson, Wayne Donald & Calvin & Mark                    | Avonlea        | 306-868-2171 | R     |
| Winterhalt, Tim   | Unity          | 306-228-3170 | R     |
| Woods, Dale Arthur & June                               | Rocanville     | 306-645-4423 | R     |
| Yauck, Arthur   | Cymric         | 306-484-4643 | S     |
| Yauck, Kevin Rodney                                     | Govan          | 306-484-4555 | S R   |
| Youzwa, Donald  | Nipawin        | 306-862-5690 | F R   |
| <b>CDC PATRICK</b>                                      |                |              |       |
| Annand, Glenn   | Mossbank       | 306-354-7675 | S     |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.              | Lake Lenore    | 306-368-2602 | S     |
| Cresswell, Gordon B. & Bryan & Mark                     | Tisdale        | 306-873-5360 | S     |
| Dutton, David H. & George                               | Paynton        | 306-895-4306 | S     |
| Fedoruk, Rod M. & Cathy                                 | Kamsack        | 306-542-4235 | S     |
| Fraser, Edward H. & Glen & Dale                         | Yarbo          | 306-745-3830 | S     |
| Greenshields, Grant & Jim & Callie                      | Semans         | 306-524-2155 | S     |
| Heavin, G. Harvey & G. Ryan                             | Melfort        | 306-752-4171 | S     |
| Hetland, Bill   | Naicam         | 306-874-5694 | S     |
| Kaeding, Roger W. & Warren                              | Churchbridge   | 306-896-2236 | S     |
| Lung Seeds Ltd.   | Lake Lenore    | 306-368-2414 | S     |
| Lutzer, Albert & Latrace, Jim                           | Lumsden        | 306-731-2843 | S     |
| Ostafie, Dave & Robert                                  | Canora         | 306-563-6244 | S     |
| Rugg, Barry C. & Robert B.                              | Elstora        | 306-257-3638 | S     |
| Slind Seeds Group (1998) Ltd.                           | Archerwill     | 306-323-4402 | S     |
| Sopatyk, Jeffery & Patti                                | Saskatoon      | 306-227-7867 | S     |
| Van Burck, Hans & Marianne                              | Star City      | 306-863-4377 | S     |
| Veikle, Lynne & Marshall                                | Cut Knife      | 306-398-2923 | S     |
| Walker, Vincent C.                                      | Melfort        | 306-863-4110 | S     |
| <b>CDC PROSPER</b>                                      |                |              |       |
| Bruce, Vic R.   | Tuxford        | 306-693-2044 | S F   |
| Bryant, Lee & Phyl & Vern & Carol                       | Battleford     | 306-937-3565 | S     |
| Clearwater, Don W.                                      | Nipawin        | 306-862-3025 | S     |
| Fedoruk, Rod M. & Cathy                                 | Kamsack        | 306-542-4235 | S     |
| Fenton, Gerald A. & Robin Paul                          | Tisdale        | 306-873-5438 | S     |
| Greenshields, Grant & Jim & Callie                      | Semans         | 306-524-2155 | S     |
| Kaeding, Roger W. & Warren                              | Churchbridge   | 306-896-2236 | S     |
| McDougall, Ken & Craig                                  | Moose Jaw      | 306-693-3649 | S     |
| South, Winston & Richard & Bradley                      | Melfort        | 306-752-9840 | S     |
| Walker, Vincent C.                                      | Melfort        | 306-863-4110 | S     |
| <b>CDC ROCKET</b>                                       |                |              |       |
| Bailey, Roy G.  | Milden         | 306-935-4702 | R     |
| Greenshields, Grant & Jim & Callie                      | Semans         | 306-524-2155 | R     |
| Herle, Raymond & Gregory R.                             | Wilkie         | 306-843-2934 | R     |
| <b>CDC SAGE</b>   |                |              |       |
| Amos, K. Wayne  | Oxbow          | 306-483-2963 | S F R |
| Baxter, Barry Arnold                                    | Codette        | 306-862-5723 | C     |
| Baxter, Kent R. & Aaron M.                              | Codette        | 306-862-3091 | C     |



|   |                  |              |         |
|---|------------------|--------------|---------|
| Cresswell, Gordon B. & Bryan & Mark                               | Tisdale          | 306-873-5360 | S F     |
| Danielson, Lionel & Bonnie  | Norquay          | 306-594-2173 | S       |
| Dutton, David H. & George   | Paynton          | 306-895-4306 | R C     |
| Fraser, Edward H. & Glen & Dale                                   | Yarbo            | 306-745-3830 | C       |
| Gregoire, Denis   | North Battleford | 306-445-5516 | C       |
| Hleck, Leo  | Codette          | 306-862-5966 | S F R   |
| Hundebly, R. & D. & R. & A. & K. & L. & Wonnick, Adam             | Elbow            | 306-854-4901 | C       |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard          | 306-554-2078 | F R     |
| Luck, Lorne C. & Landis   | Tisdale          | 306-873-4111 | R       |
| Lutzer, Albert & Latrace, Jim                                     | Lumsden          | 306-731-2843 | C       |
| Petruic, Cameron L., Judy & Nick                                  | Avonlea          | 306-868-2294 | S F R   |
| Rude, Stanley   | Naicam           | 306-874-2359 | C       |
| Rugg, Barry C. & Robert B.  | Elstow           | 306-257-3638 | R       |
| Slind Seeds Group (1998) Ltd.                                     | Archerwill       | 306-323-4402 | C       |
| Sopatky, Jeffery & Patti  | Saskatoon        | 306-227-7867 | R       |
| Veikle, Lorne A. & Carl E. & G. & J.                              | Cut Knife        | 306-398-4714 | C       |
| Watson, Wayne Donald & Calvin & Mark                              | Avonlea          | 306-868-2171 | C       |
| <b>CDC STRIKER</b>  |                  |              |         |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore      | 306-368-2602 | C       |
| Gregoire, Denis   | North Battleford | 306-445-5516 | C       |
| Lung Seeds Ltd.   | Lake Lenore      | 306-368-2414 | S F R   |
| Medernach, Louis J. & Kim L.                                      | Cudworth         | 306-256-3398 | R C     |
| Rude, Stanley   | Naicam           | 306-874-2359 | F C     |
| Woods, Dale Arthur & June   | Rocanville       | 306-645-4423 | C       |
| <b>CDC TUCKER</b>   |                  |              |         |
| Boldt, Garry  | Osler            | 306-239-2071 | R       |
| Girodat, Gerald   | Shaunavon        | 306-297-2913 | R       |
| Greenshields, Grant & Jim & Callie                                | Semans           | 306-524-2155 | R       |
| Hanowski, Larry & Marian  | Melville         | 306-728-3223 | R       |
| Kaeding, Roger W. & Warren  | Churchbridge     | 306-896-2236 | R       |
| Van Burck, Hans & Marianne  | Star City        | 306-863-4377 | R       |
| <b>COOPER</b>   |                  |              |         |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore      | 306-368-2602 | R       |
| Greenshields, Grant & Jim & Callie                                | Semans           | 306-524-2155 | C       |
| Hyndman, Neil S.  | Balcarres        | 306-334-2914 | C       |
| Johnson, Oscar Stuart   | Margo            | 306-324-4315 | C       |
| Novak, Orrin  | Kuroki           | 306-338-2021 | C       |
| Pfeifer, Robert G.  | Lemberg          | 306-335-2532 | C       |
| Yauck, Kevin Rodney   | Govan            | 306-484-4555 | C       |
| <b>CUTLASS</b>  |                  |              |         |
| Beuker, Allan Daniel  | Melfort          | 306-863-2225 | R C     |
| Bolt, Dale & Scott & Tod  | Wynyard          | 306-554-2076 | C       |
| Heavin, Larry N. & L. Warren                                      | Melfort          | 306-752-4020 | C       |
| Wakefield, Laurie Garland   | Maidstone        | 306-893-2984 | C       |
| <b>DS-ADMIRAL</b>   |                  |              |         |
| Boyd, Clare W. & Dale A.  | Melfort          | 306-752-2108 | C       |
| Buziak, Ronald Charles  | Mayfair          | 306-445-6556 | R       |
| Cay, Randy D.   | Kinistino        | 306-864-3696 | S F R C |
| Froese, Terrance P.   | Rabbit Lake      | 306-824-2121 | R C     |
| Hyndman, Glen   | Balcarres        | 306-334-2914 | C       |
| Ostafie, Dave & Robert  | Canora           | 306-563-6244 | C       |
| Van Burck, Hans & Marianne  | Star City        | 306-863-4377 | C       |
| Wilfing, Raymond John & Ryan John                                 | Meadow Lake      | 306-236-6811 | C       |
| <b>ECLIPSE</b>  |                  |              |         |
| Edwards, Lawrence R., Donna, Jeff & Mike                          | Nokomis          | 306-528-2140 | C       |
| McCarthy, Richard J. & Brent                                      | Corning          | 306-224-4848 | C       |
| Palmier, Maurice  | Lafleche         | 306-472-5917 | C       |
| Trowell, Leslie   | Saltcoats        | 306-744-2684 | R       |
| <b>HUGO</b>   |                  |              |         |
| Fedoruk, Rod M. & Cathy   | Kamsack          | 306-542-4235 | S       |
| Trowell, Leslie   | Saltcoats        | 306-744-2684 | S       |

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| <b>Barley</b><br>Newdale<br>CDC Copeland<br>CDC Trey<br>Tradition | <b>Canola</b><br>Canterra - 1855H, 1768S, 1852H, 1896, 1818, 1841, 1651H-CL<br>FP Genetics - 93H01 RR, SW3950 RR, 83501 RR, SW6802 RR, SW Wizzard - Conventional<br>Brett-Young - 4362, 4414, 4424, 4434, 997, 5505 CL, 3303 LL | <b>Grasses &amp; Forages</b><br>Pickseed<br>Brett Young                |
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|---|------------------|--------------|-------|
| <b>NOBLE</b>  |                  |              |       |
| Hardy, Allan W. & Dale & Evan   | Grenfell         | 306-697-3128 | R     |
| Ostafie, Dave & Robert  | Canora           | 306-563-6244 | F     |
| Reisner, Cecil & Barry  | Limerick         | 306-263-2139 | R     |
| <b>POLSTEAD</b>   |                  |              |       |
| Blenkin, Leonard G. & Larry K. Edwards, Lawrence R., Donna, Jeff & Mike | Santaluta        | 306-727-2222 | R     |
| Fedoruk, Rod M. & Cathy   | Nokomis          | 306-528-2140 | S F   |
| Heenan, Thomas Dale & Deb.  | Kamsack          | 306-542-4235 | C     |
| McCarthy, Richard J. & Brent  | Regina           | 306-522-9375 | C     |
| Sayers, Charlie Joseph  | Corning          | 306-224-4848 | C     |
| Trowell, Leslie   | Delmas           | 306-445-6522 | C     |
| Van Burck, Hans & Marianne  | Saltcoats        | 306-744-2684 | F R   |
| Wilfing, Raymond John & Ryan John                                       | Star City        | 306-863-4377 | S F R |
|   | Meadow Lake      | 306-236-6811 | C     |
| <b>REWARD</b>   |                  |              |       |
| Fedoruk, Rod M. & Cathy   | Kamsack          | 306-542-4235 | R     |
| <b>SORENTO</b>  |                  |              |       |
| Charabin, Dale Kenneth & Timothy V. & Ryan                              | North Battleford | 306-445-2939 | F     |
| Trowell, Leslie   | Saltcoats        | 306-744-2684 | F R   |
| Woods, Dale Arthur & June   | Rocanville       | 306-645-4423 | R     |
| Yauck, Kevin Rodney   | Govan            | 306-484-4555 | F     |
| <b>SW CIRCUS</b>  |                  |              |       |
| Heavin, Larry N. & L. Warren  | Melfort          | 306-752-4020 | F R   |
| <b>SW MIDAS</b>   |                  |              |       |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.       | Wynyard          | 306-554-2078 | C     |
| Trowell, Leslie   | Saltcoats        | 306-744-2684 | R     |
| Van Burck, Hans & Marianne  | Star City        | 306-863-4377 | R C   |
| <b>SW SERGEANT</b>  |                  |              |       |
| Pfeifer, Robert G.  | Lemberg          | 306-335-2532 | R     |
| <b>TALENTO</b>  |                  |              |       |
| Froese, Terrance P.   | Rabbit Lake      | 306-824-2121 | S     |
| Smith, Ron T.W. & Barb A.   | Limerick         | 306-263-4944 | S F   |
| <b>TAMORA</b>   |                  |              |       |
| Blenkin, Leonard G. & Larry K.  | Santaluta        | 306-727-2222 | R     |
| Froese, Terrance P.   | Rabbit Lake      | 306-824-2121 | R     |
| Ostafie, Dave & Robert  | Canora           | 306-563-6244 | F     |
| Smith, Ron T.W. & Barb A.   | Limerick         | 306-263-4944 | C     |
| <b>THUNDERBIRD</b>  |                  |              |       |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                              | Lake Lenore      | 306-368-2602 | R     |
| Clancy, Kenneth   | Carrot River     | 306-768-2902 | R     |
| Crosson, Lorne, Will, Lee   | Welwyn           | 306-733-4593 | R     |
| Greenshields, Grant & Jim & Callie                                      | Semans           | 306-524-2155 | F     |
| Hyndman, Glen   | Balcarres        | 306-334-2914 | R     |
| Johnson, Oscar Stuart   | Margo            | 306-324-4315 | R     |
| Trowell, Leslie   | Saltcoats        | 306-744-2684 | F R   |
| <b>TRAPPER</b>  |                  |              |       |
| Meier, Garry L.   | Ridgedale        | 306-277-2110 | F C   |
| <b>TUDOR</b>  |                  |              |       |
| Trowell, Leslie   | Saltcoats        | 306-744-2684 | F R   |
| <b>RYE</b>  |                  |              |       |
| <b>DANKO</b>  |                  |              |       |
| Smith, Ron T.W. & Barb A.   | Limerick         | 306-263-4944 | S     |
| Smith, Wayne D.   | Limerick         | 306-263-2144 | S     |
| <b>HAZLET</b>   |                  |              |       |
| Kaeding, Roger W. & Warren  | Churchbridge     | 306-896-2236 | F     |
| Ostafie, Dave & Robert  | Canora           | 306-563-6244 | R     |
| Willner, Lorne E.   | Davidson         | 306-567-4613 | R     |
| <b>PRIMA</b>  |                  |              |       |
| Bailey, Roy G.  | Milden           | 306-935-4702 | C     |
| Musgrave, Lang & Vincent  | McCreary         | 204-835-2527 | C     |
| Tanner, David A. & Hazel  | Regina           | 306-757-7012 | C     |



## RYEGRASS

| SWIFT                                   |           |              |  |   |
|---|-----------|--------------|--|---|
| Farmpure Seeds                          | Regina    | 306-791-0500 |  | C |
| Fritzler, Baine A., Brenda D. & Adam A. | Govan     | 306-484-4612 |  | C |
| Tulloch, Randy                          | Broadview | 306-696-2840 |  | C |

## SAINFOIN

| NOVA                                    |           |              |   |   |
|---|-----------|--------------|---|---|
| Farmpure Seeds                          | Regina    | 306-791-0500 |   | C |
| Petracek, Arnold J. & Alan D. & Michael | Esterhazy | 306-745-6210 | F |   |

## SOYBEANS

| LS0036RR                           |           |              |   |   |
|------------------------------------|-----------|--------------|---|---|
| Elmy, Robert W., Kevin & Christina | Saltcoats | 306-744-2779 | R | C |
| Sopatky, Jeffery & Patti           | Saskatoon | 306-227-7867 | S |   |
| Sudom, Blaine G. & Nathan          | Avonlea   | 306-868-4620 |   | R |

## SUNFLOWERS

| AC SIERRA                          |           |              |   |  |
|------------------------------------|-----------|--------------|---|--|
| Elmy, Robert W., Kevin & Christina | Saltcoats | 306-744-2779 | S |  |

## TIMOTHY

| AC OPAL              |          |              |  |   |
|----------------------|----------|--------------|--|---|
| Pickseed Canada Inc. | Winnipeg | 204-633-0088 |  | C |

## ALMA

|                   |           |              |  |   |
|-------------------|-----------|--------------|--|---|
| Riemer, Curtis D. | White Fox | 306-276-2319 |  | C |
| Wallis, Brian     | Tisdale   | 306-873-5574 |  | C |

## BASHO

|                      |              |              |  |   |
|----------------------|--------------|--------------|--|---|
| Ag Vision Seeds Ltd. | Carrot River | 306-768-3335 |  | C |
|----------------------|--------------|--------------|--|---|

## CHAMP

|                 |           |              |  |   |
|-----------------|-----------|--------------|--|---|
| Black, Lyle     | White Fox | 306-276-2440 |  | C |
| Deschamps, Gary | Tisdale   | 306-873-2122 |  | C |

## CLIMAX

|                               |              |              |  |   |
|-------------------------------|--------------|--------------|--|---|
| Ag Vision Seeds Ltd.          | Carrot River | 306-768-3335 |  | C |
| Astrophe, Russell Glen        | White Fox    | 306-276-2350 |  | C |
| Farmpure Seeds                | Regina       | 306-791-0500 |  | C |
| Harrison, Douglas & Robert M. | White Fox    | 306-276-2424 |  | C |

## COMTAL

|                |        |              |  |   |
|----------------|--------|--------------|--|---|
| Farmpure Seeds | Regina | 306-791-0500 |  | C |
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## EXPRESS

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| Pickseed Canada Inc. | Winnipeg | 204-633-0088 |  | C |
|----------------------|----------|--------------|--|---|

## JOLIETTE

|                |           |              |  |   |
|----------------|-----------|--------------|--|---|
| Black, Lyle    | White Fox | 306-276-2440 |  | C |
| Farmpure Seeds | Regina    | 306-791-0500 |  | C |

## JONATAN

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|----------------|--------|--------------|--|---|
| Farmpure Seeds | Regina | 306-791-0500 |  | C |
|----------------|--------|--------------|--|---|

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| Pickseed Canada Inc. | Winnipeg | 204-633-0088 | S |  |
|----------------------|----------|--------------|---|--|

## OVATION

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| Northstar Seed Ltd. | Neepawa | 204-476-5241 |  | C |
|---------------------|---------|--------------|--|---|

## PROMESSE

|                           |             |              |  |   |
|---------------------------|-------------|--------------|--|---|
| Brett-Young Seeds Limited | St. Norbert | 204-261-7932 |  | C |
|---------------------------|-------------|--------------|--|---|

## TREASURE

|                      |          |              |  |   |
|----------------------|----------|--------------|--|---|
| Pickseed Canada Inc. | Winnipeg | 204-633-0088 |  | C |
|----------------------|----------|--------------|--|---|

## TRITICALE

| BUNKER              |             |              |  |   |
|---------------------|-------------|--------------|--|---|
| Froese, Terrance P. | Rabbit Lake | 306-824-2121 |  | R |
| Girodat, Gerald     | Shaunavon   | 306-297-2913 |  | R |
| Maze, Norman Daryl  | Unity       | 306-398-2637 |  | R |

## TRITICALE - WINTER

| FRIDGE                             |           |              |   |   |
|------------------------------------|-----------|--------------|---|---|
| Elmy, Robert W., Kevin & Christina | Saltcoats | 306-744-2779 | F | C |



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| AC GREENFIX                |              |              |  |   |
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| Kaeding, Roger W. & Warren | Churchbridge | 306-896-2236 |  | C |
| Tinant, Adrien J.          | Cadillac     | 306-785-4532 |  | C |

## WHEAT - DURUM

| AC AVONLEA      |           |              |  |   |
|-----------------|-----------|--------------|--|---|
| Girodat, Gerald | Shaunavon | 306-297-2913 |  | C |
| Hyndman, David  | Balcarres | 306-334-2914 |  | C |
| Luke, Dennis    | Humboldt  | 306-682-5170 |  | C |

## AC NAVIGATOR

|  |                |              |   |       |
|--|----------------|--------------|---|-------|
| Anderson, Trevor Ward                                | Frontier       | 306-296-2104 |   | C     |
| Boyd, William R. & Regan                             | Eston          | 306-962-3526 |   | C     |
| Hundeby, R. & D. & R. & A. & K. & L. & Wonnick, Adam | Elbow          | 306-854-4901 |   | C     |
| Sperle, Bentley D. & Jody                            | Unity          | 306-228-3160 |   | C     |
| Stauber, Clayton & Lori                              | Stewart Valley | 306-773-7907 |   | C     |
| Viterra / Proven Seed                                | Regina         | 306-569-4444 | S | F R C |
| Wiens, Brennan R.                                    | Herschel       | 306-377-2002 |   | R     |
| Wiens, Rudy G.                                       | Herschel       | 306-377-4800 |   | R C   |

## BRIGADE

|                       |        |              |   |  |
|-----------------------|--------|--------------|---|--|
| Viterra / Proven Seed | Regina | 306-569-4444 | S |  |
|-----------------------|--------|--------------|---|--|

## CDC VERONA

|  |                |              |   |   |
|--|----------------|--------------|---|---|
| N.M. Paterson & Sons Ltd., Seymour, G.P. Donne, Kyle & Kelly & R. Thistlethwaite | Winnipeg       | 204-926-9563 | S | F |
|  | Stewart Valley | 306-778-2344 | S |   |

## COMMANDER

|                       |        |              |   |       |
|-----------------------|--------|--------------|---|-------|
| Viterra / Proven Seed | Regina | 306-569-4444 | S | F R C |
|-----------------------|--------|--------------|---|-------|

## EUROSTAR

|                                      |            |              |   |  |
|--------------------------------------|------------|--------------|---|--|
| Johnston, Lorne E. & L. Neil & L. J. | Eston      | 306-962-3917 | S |  |
| Leduc, Gerald R.                     | Assiniboia | 306-642-3076 | S |  |

## KYLE

|                                      |           |              |   |     |
|--------------------------------------|-----------|--------------|---|-----|
| Garratt, Lyle C. & K.C.              | Milestone | 306-436-2178 |   | C   |
| Needham, Reginald R.                 | Oxbow     | 306-483-5052 | S | C   |
| Needham, Ronald Clarence             | Oxbow     | 306-483-5063 |   | F R |
| Palmier, Maurice                     | Lafleche  | 306-472-5917 |   | C   |
| Travland, Glenn & Marie              | Coronach  | 306-267-4916 |   | R   |
| Travland, Norman & Lureen & Kevin    | Coronach  | 306-267-4923 |   | C   |
| Watson, Wayne Donald & Calvin & Mark | Avonlea   | 306-868-2171 |   | C   |

## NAPOLEON

|                    |         |              |  |   |
|--------------------|---------|--------------|--|---|
| Pfeifer, Robert G. | Lemberg | 306-335-2532 |  | C |
|--------------------|---------|--------------|--|---|

## STRONGFIELD

|                                     |              |              |  |     |
|-------------------------------------|--------------|--------------|--|-----|
| Ackerman, Patrick                   | Chamberlain  | 306-638-3177 |  | R   |
| Altwasser, Rodney & Allen R. & Dean | Yellow Grass | 306-465-2727 |  | R   |
| Annand, Glenn                       | Mossbank     | 306-354-7675 |  | R C |

|   |         |              |   |   |
|---|---------|--------------|---|---|
| Ardell, Terrence Wade, Michael, Brad & Joanne | Vanscoy | 306-668-4415 | S | R |
|---|---------|--------------|---|---|

|                |        |              |  |   |
|----------------|--------|--------------|--|---|
| Bailey, Roy G. | Milden | 306-935-4702 |  | R |
|----------------|--------|--------------|--|---|

|                    |         |              |  |   |
|--------------------|---------|--------------|--|---|
| Barlow, Bradley L. | Griffin | 306-842-6216 |  | R |
|--------------------|---------|--------------|--|---|

|                     |        |              |  |   |
|---------------------|--------|--------------|--|---|
| Bergstrom, Randy M. | Birsay | 306-573-4625 |  | R |
|---------------------|--------|--------------|--|---|

|                 |         |              |   |     |
|-----------------|---------|--------------|---|-----|
| Bews Agrow Ltd. | Eatonia | 306-967-2440 | S | F R |
|-----------------|---------|--------------|---|-----|

|                                |           |              |  |   |
|--------------------------------|-----------|--------------|--|---|
| Blenkin, Leonard G. & Larry K. | Sintaluta | 306-727-2222 |  | C |
|--------------------------------|-----------|--------------|--|---|

|                          |       |              |   |   |
|--------------------------|-------|--------------|---|---|
| Boyd, William R. & Regan | Eston | 306-962-3526 | S | R |
|--------------------------|-------|--------------|---|---|

|                                 |        |              |  |   |
|---------------------------------|--------|--------------|--|---|
| Brigden, Allan D., Drew & Devon | Kisbey | 306-462-4813 |  | C |
|---------------------------------|--------|--------------|--|---|

|                      |            |              |  |     |
|----------------------|------------|--------------|--|-----|
| Craswell, Raymond W. | Strasbourg | 306-725-3236 |  | R C |
|----------------------|------------|--------------|--|-----|

|                         |         |              |  |   |
|-------------------------|---------|--------------|--|---|
| Dobson, Curtis & Alison | Rouleau | 306-776-2500 |  | C |
|-------------------------|---------|--------------|--|---|

|                     |        |              |  |   |
|---------------------|--------|--------------|--|---|
| Eyolfson, Robert H. | Leslie | 306-272-4624 |  | C |
|---------------------|--------|--------------|--|---|

|                         |            |              |  |   |
|-------------------------|------------|--------------|--|---|
| Fast, Walter J. & Linda | Kindersley | 306-463-3626 |  | R |
|-------------------------|------------|--------------|--|---|

|   |           |              |  |   |
|---|-----------|--------------|--|---|
| Floberg, Barry & Delana & Devin & Brandon | Shaunavon | 306-297-2087 |  | C |
|---|-----------|--------------|--|---|

|                     |         |              |  |   |
|---------------------|---------|--------------|--|---|
| Forer, Tim & Denise | Avonlea | 306-868-4433 |  | C |
|---------------------|---------|--------------|--|---|

|                       |         |              |  |   |
|-----------------------|---------|--------------|--|---|
| Fraser, Scott & Shawn | Pambrun | 306-582-2148 |  | C |
|-----------------------|---------|--------------|--|---|

|   |       |              |   |     |
|---|-------|--------------|---|-----|
| Fritzler, Baine A., Brenda D. & Adam A. | Govan | 306-484-4612 | S | R C |
|---|-------|--------------|---|-----|

|                         |           |              |  |     |
|-------------------------|-----------|--------------|--|-----|
| Garratt, Lyle C. & K.C. | Milestone | 306-436-2178 |  | R C |
|-------------------------|-----------|--------------|--|-----|

|                 |        |              |  |     |
|-----------------|--------|--------------|--|-----|
| Geiger, Timothy | Leader | 306-628-4335 |  | F R |
|-----------------|--------|--------------|--|-----|

|                  |              |              |  |     |
|------------------|--------------|--------------|--|-----|
| Girodat, Gerald  | Shaunavon    | 306-297-2913 |  | R C |
| Hansen, James S. | Yellow Grass | 306-465-2525 |  | C   |



|   |                |              |       |
|---|----------------|--------------|-------|
| Hyndman, David  | Balcarres      | 306-334-2914 | C     |
| Hyndman, Glen   | Balcarres      | 306-334-2914 | R     |
| Johnston, Lorne E. & L. Neil & L. J.                  | Eston          | 306-962-3917 | R C   |
| Kemper, Russell & Donna                               | Fulda          | 306-682-4929 | R     |
| Klym, Roy & Vern                                      | Regina         | 306-543-5052 | C     |
| Latrace, Bill   | Caronport      | 306-693-2626 | C     |
| Leduc, Gerald R.                                      | Assiniboia     | 306-642-3076 | S F   |
| Lutzner, Albert & Latrace, Jim                        | Lumsden        | 306-731-2843 | C     |
| Marcil, Harvey G. & Brent Louis                       | Moose Jaw      | 306-694-2981 | S R   |
| Mattus, Ronald  | Chaplin        | 306-395-2652 | C     |
| McDougall, Ken & Craig                                | Moose Jaw      | 306-693-3649 | R     |
| Miller, Neil, Lynwood, Jarrod, Sean & Bruce           | Avonlea        | 306-868-2165 | S C   |
| Nakonechny, Don P, Coral, Lance & Lauren              | Ruthilda       | 306-932-4409 | R     |
| Needham, Reginald R.                                  | Oxbow          | 306-483-5052 | R     |
| Palmier, Maurice                                      | Lafleche       | 306-472-5917 | R C   |
| Patzer, Wendell Albert                                | Frontier       | 306-296-4780 | C     |
| Petruic, Cameron L., Judy & Nick                      | Avonlea        | 306-868-2294 | S     |
| Reisner, Cecil & Barry                                | Limerick       | 306-263-2139 | S F R |
| Sandercok, Eric M.                                    | Balcarres      | 306-334-2958 | C     |
| Sanderson, Everett D. & Wanda                         | Rosetown       | 306-882-3371 | R     |
| Schmeling, Donald H.                                  | Riceton        | 306-738-2064 | C     |
| Seymour, G.P, Donne, Kyle & Kelly & R. Thistlethwaite | Stewart Valley | 306-778-2344 | F C   |
| Simpson, Thomas H.                                    | Moose Jaw      | 306-693-2132 | C     |
| Smith, Ron T.W. & Barb A.                             | Limerick       | 306-263-4944 | C     |
| Smith, Wayne D.                                       | Limerick       | 306-263-2144 | C     |
| Stauber, Clayton & Lori                               | Stewart Valley | 306-773-7907 | C     |
| Stirton, Brian James                                  | Moose Jaw      | 306-693-2310 | F C   |
| Stoll, Douglas John, Joan & Lyndon                    | Delisle        | 306-493-2534 | R     |
| Straub, Lorne A.                                      | Pense          | 306-345-2390 | S R   |
| Sudom, Blaine G. & Nathan                             | Avonlea        | 306-868-4620 | S     |
| Tanner, David A. & Hazel                              | Regina         | 306-757-7012 | R     |
| Watson, Wayne Donald & Calvin & Mark                  | Avonlea        | 306-868-2171 | S F R |
| Wiens, Rudy G.  | Herschel       | 306-377-4800 | C     |
| Willner, Lorne E.                                     | Davidson       | 306-567-4613 | R     |
| Yauck, Kevin Rodney                                   | Govan          | 306-484-4555 | C     |
| Yuke, Blair   | Moose Jaw      | 306-691-0085 | R     |

**WHEAT - SPRING****5400IP**

|                               |          |              |         |
|-------------------------------|----------|--------------|---------|
| Hall, Norman & Ernie          | Wynyard  | 306-554-3122 | C       |
| Hardy, Allan W. & Dale & Evan | Grenfell | 306-697-3128 | C       |
| Viterra / Proven Seed         | Regina   | 306-569-4444 | S F R C |

**5602HR**

|   |             |              |       |
|---|-------------|--------------|-------|
| Ardell, Terrence Wade, Michael, Brad & Joanne | Vanscoy     | 306-668-4415 | S     |
| Crosson, Lorne, Will, Lee                     | Welwyn      | 306-733-4593 | R     |
| Klym, Roy & Vern                              | Regina      | 306-543-5052 | R     |
| Lung Seeds Ltd.                               | Lake Lenore | 306-368-2414 | R     |
| South, Winston & Richard & Bradley            | Melfort     | 306-752-9840 | R     |
| Viterra / Proven Seed                         | Regina      | 306-569-4444 | S R C |

**5700PR**

|                       |        |              |   |
|-----------------------|--------|--------------|---|
| Novak, Orrin          | Kuroki | 306-338-2021 | C |
| Viterra / Proven Seed | Regina | 306-569-4444 | C |

**5701PR**

|                       |          |              |         |
|-----------------------|----------|--------------|---------|
| Thompson, Jan Harris  | Naicam   | 306-874-5407 | R       |
| Viterra / Proven Seed | Regina   | 306-569-4444 | S F R C |
| Wiens, Rudy G.        | Herschel | 306-377-4800 | S       |

**5702PR**

|                       |         |              |       |
|-----------------------|---------|--------------|-------|
| Cox, David A.         | Nipawin | 306-862-4496 | R     |
| Viterra / Proven Seed | Regina  | 306-569-4444 | S F R |

**AC ANDREW**

|  |                  |              |     |
|--|------------------|--------------|-----|
| Allan, John R. & John Garth                | Corning          | 306-457-2629 | C   |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y. | Lake Lenore      | 306-368-2602 | F   |
| Buziak, Ronald Charles                     | Mayfair          | 306-445-6556 | C   |
| Charabin, Dale Kenneth & Timothy V. & Ryan | North Battleford | 306-445-2939 | C   |
| Edwards, Lawrence R., Donna, Jeff & Mike   | Nokomis          | 306-528-2140 | S F |

|   |             |              |     |
|---|-------------|--------------|-----|
| Forster, Glenn M. & Patrick & Marthe    | Lake Lenore | 306-682-3485 | S F |
| Fritzler, Baine A., Brenda D. & Adam A. | Govan       | 306-484-4612 | C   |
| Gerry, Greg                             | Creelman    | 306-457-2220 | C   |
| Herle, Raymond & Gregory R.             | Wilkie      | 306-843-2934 | C   |
| Latrace, Bill                           | Caronport   | 306-693-2626 | R   |
| Lung Seeds Ltd.                         | Lake Lenore | 306-368-2414 | R C |
| Mannle, Kenneth                         | Moosomin    | 306-435-3411 | C   |
| Meyer, Ward                             | Lake Lenore | 306-368-2635 | C   |
| Moroz, Troy                             | Pelly       | 306-595-4622 | R   |
| Straub, Lorne A.                        | Pense       | 306-345-2390 | F   |
| Trawin, John                            | Melfort     | 306-752-4060 | F C |
| Veikle, Lorne A. & Carl E. & G. & J.    | Cut Knife   | 306-398-4714 | C   |
| Winterhalt, Tim                         | Unity       | 306-228-3170 | R C |

**AC BARRIE**

|                              |               |              |   |
|------------------------------|---------------|--------------|---|
| Allan, John R. & John Garth  | Corning       | 306-457-2629 | C |
| Amos, K. Wayne               | Oxbow         | 306-483-2963 | R |
| Dangstorp, Emil & Brian      | Redvers       | 306-452-3444 | C |
| Edmunds, Greg & Glen         | Tisdale       | 306-873-5480 | C |
| Fowler, Edith                | Central Butte | 306-796-4652 | C |
| Heavin, Larry N. & L. Warren | Melfort       | 306-752-4020 | R |
| Reisner, Cecil & Barry       | Limerick      | 306-263-2139 | C |
| Willmot, Eric Leigh          | Carnduff      | 306-482-3810 | C |
| Woroschuk, Andrew            | Calder        | 306-742-4682 | R |

**AC CRYSTAL**

|  |                  |              |   |
|--|------------------|--------------|---|
| Allan, John R. & John Garth                | Corning          | 306-457-2629 | R |
| Allan, John Richard                        | Corning          | 306-224-2021 | C |
| Charabin, Dale Kenneth & Timothy V. & Ryan | North Battleford | 306-445-2939 | C |
| Edmunds, Greg & Glen                       | Tisdale          | 306-873-5480 | C |
| Henne, Albert Clarence                     | Kelfield         | 306-932-4806 | S |
| Rempel, Blair Allan                        | Nipawin          | 306-862-3573 | C |
| Schiltroth, John Mark                      | Ridgedale        | 306-873-4967 | C |

**AC DOMAIN**

|                            |         |              |   |
|----------------------------|---------|--------------|---|
| Danielson, Lionel & Bonnie | Norquay | 306-594-2173 | S |
|----------------------------|---------|--------------|---|

**AC ELSA**

|                                |                  |              |     |
|--------------------------------|------------------|--------------|-----|
| Blenkin, Leonard G. & Larry K. | Sintaluta        | 306-727-2222 | C   |
| Calcutt, Garry M.              | Lemberg          | 306-335-2760 | R C |
| Ennis, Garnet & Burton & Neil  | Glenavon         | 306-429-2793 | F C |
| Gregoire, Denis                | North Battleford | 306-445-5516 | C   |
| Hardy, Brian & Calvin          | Grenfell         | 306-697-3127 | C   |
| Herndier, Don O.               | Lemberg          | 306-335-2763 | C   |

|                                     |             |              |     |
|-------------------------------------|-------------|--------------|-----|
| Lepp, Milton & Elden; & Neufeld, M. | Hepburn     | 306-254-4243 | C   |
| McCarthy, Richard J. & Brent        | Corning     | 306-224-4848 | R C |
| Meyer, Ward                         | Lake Lenore | 306-368-2635 | R   |
| Pratchler, John & L. & M. & A.      | Muenster    | 306-682-3317 | R   |
| Reisner, Cecil & Barry              | Limerick    | 306-263-2139 | R   |
| Rude, Stanley                       | Naicam      | 306-874-2359 | C   |
| Slind Seeds Group (1998) Ltd.       | Archerwill  | 306-323-4402 | C   |
| Smith, Ron T.W. & Barb A.           | Limerick    | 306-263-4944 | C   |
| Trowell, Kenneth & Larry            | Saltcoats   | 306-744-2687 | S F |
| Wakefield, Kristopher & Laurie G.   | Maidstone   | 306-893-2527 | C   |
| Will, Gordon James                  | Mortlach    | 306-355-2289 | C   |
| Willner, Lorne E.                   | Davidson    | 306-567-4613 | R   |
| Woroschuk, Andrew                   | Calder      | 306-742-4682 | C   |

**AC INTREPID**

|   |                  |              |       |
|---|------------------|--------------|-------|
| Ardell, Terrence Wade, Michael, Brad & Joanne | Vanscoy          | 306-668-4415 | S F   |
| Cay, Susan M.                                 | Kinistino        | 306-752-3696 | R C   |
| Fedoruk, Rod M. & Cathy                       | Kamsack          | 306-542-4235 | S     |
| Illingworth, H.V. & T. D.                     | North Battleford | 306-445-5630 | S R C |
| Mayerle, Kris                                 | Tisdale          | 306-873-4261 | C     |
| Slind Seeds Group (1998) Ltd.                 | Archerwill       | 306-323-4402 | C     |
| Veikle, Lorne A. & Carl E. & G. & J.          | Cut Knife        | 306-398-4714 | S R   |

**AC SPLENDOR**

|                         |         |              |     |
|-------------------------|---------|--------------|-----|
| Beattie, M.L.           | Tisdale | 306-873-5137 | R   |
| Beuker, Wilbur A.       | Melfort | 306-863-2225 | R C |
| Luck, Lorne C. & Landis | Tisdale | 306-873-4111 | R   |

**AC VISTA**

|                               |              |              |   |
|-------------------------------|--------------|--------------|---|
| Hardy, Allan W. & Dale & Evan | Grenfell     | 306-697-3128 | C |
| Kaeding, Roger W. & Warren    | Churchbridge | 306-896-2236 | S |

# Notice to grain producers

## Know your seed

When you know which variety of wheat you seed this spring, you can deliver your crop with confidence this fall.

All registered varieties of western Canadian wheat belong to a specific class. Varieties and classes are recorded in the Canadian Grain Commission's variety designation lists. If your wheat is not on a list, it will be graded at the elevator as feed wheat or the lowest grade of amber durum.

Each year, you are required to sign a **Declaration of Eligibility for the Class** form at each licensed facility where you deliver. When you sign the form, you are declaring that your wheat qualifies for a particular class.

Remember, it is your responsibility to know which class your variety of wheat is eligible for.

## How to be sure

### Check the variety

If you are not sure which variety you are seeding, have it tested at a private lab.

### Find out if the variety is listed

Check the variety designation lists on the Canadian Grain Commission's web site.

### Working together, we all play a part in maintaining Canada's grain quality

For more information, contact the Canadian Grain Commission.

1-800-853-6705

TTY: 1-866-317-4289

[www.grainscanada.gc.ca](http://www.grainscanada.gc.ca)



Canadian Grain  
Commission

Commission canadienne  
des grains

Canada




|  |                  |              |   |   |   |                  |              |   |   |
|--|------------------|--------------|---|---|---|------------------|--------------|---|---|
| Wilfing, Raymond John & Ryan John          | Meadow Lake      | 306-236-6811 | R | C | Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard          | 306-554-2078 | F | R |
| <b>ALVENA</b>                              |                  |              |   |   | Littman, Larry W. & Allan B. & L.R.                               | Saltcoats        | 306-783-6518 |   | C |
| Boyd, Clare W. & Dale A.                   | Melfort          | 306-752-2108 |   | C | Mayerle, Bernhard C.  | Tisdale          | 306-873-4267 |   | R |
| Buziak, Ronald Charles                     | Mayfair          | 306-445-6556 |   | C | Ostafie, Dave & Robert  | Canora           | 306-563-6244 |   | F |
| Carlson, Herbert E.P. & Leslie             | Buchanan         | 306-592-4449 |   | C | Smith, Wayne D.   | Limerick         | 306-263-2144 |   | R |
| Fedoruk, Rod M. & Cathy                    | Kamsack          | 306-542-4235 |   | C | Van Burck, Hans & Marianne  | Star City        | 306-863-4377 |   | F |
| Heavin, Larry N. & L. Warren               | Melfort          | 306-752-4020 | S | F | Wakefield, Laurie Garland   | Maidstone        | 306-893-2984 |   | C |
| Littman, Larry W. & Allan B. & L.R.        | Saltcoats        | 306-783-6518 |   | C | Weightman, Brian  | Rosthern         | 306-232-5588 |   | C |
| Ostafie, Dave & Robert                     | Canora           | 306-563-6244 |   | C | Wilfing, Raymond John & Ryan John                                 | Meadow Lake      | 306-236-6811 |   | C |
| Rempel, Blair Allan                        | Nipawin          | 306-862-3573 |   | C | Woods, Dale Arthur & June   | Rocanville       | 306-645-4423 |   | R |
| Shwaga, Jeff W.                            | Wroxton          | 306-742-4590 |   | C | <b>INFINITY</b>   |                  |              |   |   |
| Veikle, Lorne A. & Carl E. & G. & J.       | Cut Knife        | 306-398-4714 |   | C | Ardell, Terrence Wade, Michael, Brad & Joanne                     | Vanscoy          | 306-668-4415 |   | R |
| Woroschuk, Andrew                          | Calder           | 306-742-4682 |   | C | Bergstrom, Randy M.   | Birsay           | 306-573-4625 |   | R |
| <b>BHISHAJ</b>                             |                  |              |   |   | Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore      | 306-368-2602 |   | C |
| Charabin, Dale Kenneth & Timothy V. & Ryan | North Battleford | 306-445-2939 |   | F | Blenkin, Leonard G. & Larry K.                                    | Sintaluta        | 306-727-2222 |   | C |
| <b>CDC ABOUND</b>                          |                  |              |   |   | Buziak, Ronald Charles  | Mayfair          | 306-445-6556 |   | C |
| Cox, David A.                              | Nipawin          | 306-862-4496 |   | R | Cay, Randy D.   | Kinistino        | 306-864-3696 |   | C |
| Viterra / Proven Seed                      | Regina           | 306-569-4444 | S | F | Crosson, Lorne, Will, Lee   | Welwyn           | 306-733-4593 |   | F |
| <b>CDC ALSASK</b>                          |                  |              |   |   | Dangstorp, Emil & Brian   | Redvers          | 306-452-3444 |   | R |
| Viterra / Proven Seed                      | Regina           | 306-569-4444 |   | R | Dowdeswell, Donald D.   | Pennant          | 306-626-3388 |   | C |
| <b>CDC GO</b>                              |                  |              |   |   | Fedoruk, Rod M. & Cathy   | Kamsack          | 306-542-4235 |   | F |
| Brown, Kyle                                | Prince Albert    | 306-922-0571 |   | R | Fraser, Edward H. & Glen & Dale                                   | Yarbo            | 306-745-3830 |   | C |
| Danielson, Jason                           | Norquay          | 306-594-2173 | S | C | Girodat, Gerald   | Shaunavon        | 306-297-2913 |   | C |
| Danielson, Lionel & Bonnie                 | Norquay          | 306-594-2173 | S | C | Herle, Raymond & Gregory R.                                       | Wilkie           | 306-843-2934 |   | C |
| Heavin, G. Harvey & G. Ryan                | Melfort          | 306-752-4171 | S | F | Hetland, Bill   | Naicam           | 306-874-5694 |   | C |
| Nystuen, David G.                          | Spalding         | 306-872-2014 | S | C | Hyndman, Glen   | Balcarres        | 306-334-2914 |   | C |
| Ostapovitch, F.G. & Glen                   | Theodore         | 306-647-2205 |   | R | Hyndman, Neil S.  | Balcarres        | 306-334-2914 |   | R |
| <b>CDC IMAGINE</b>                         |                  |              |   |   | Illingworth, H.V. & T. D.   | North Battleford | 306-445-5630 |   | C |
| Nikonetz, Harry                            | Hudson Bay       | 306-865-2033 | S | C | Johnson, Oscar Stuart   | Margo            | 306-324-4315 |   | C |
| Viterra / Proven Seed                      | Regina           | 306-569-4444 | S | F | Kaeding, Roger W. & Warren  | Churchbridge     | 306-896-2236 |   | R |
| Winterhalt, Tim                            | Unity            | 306-228-3170 |   | C | Labrecque, Roger  | Saskatoon        | 306-373-9379 |   | C |
| <b>CDC OSLER</b>                           |                  |              |   |   | Mayerle, Bernhard C.  | Tisdale          | 306-873-4267 |   | C |
| Beuker, Allan Daniel                       | Melfort          | 306-863-2225 | F | R | Mayerle, Erwin D.   | Tisdale          | 306-873-4261 |   | R |
| Klemmer, Richard                           | Nipawin          | 306-862-3874 |   | C | Mayerle, Kris   | Tisdale          | 306-873-4261 |   | C |
| Rusk, William N. (Bill)                    | Nipawin          | 306-276-2507 |   | C | Olson, Lyndon Ordon   | Archerwill       | 306-323-4912 |   | C |
| Slind Seeds Group (1998) Ltd.              | Archerwill       | 306-323-4402 |   | C | Pfeifer, Robert G.  | Lemberg          | 306-335-2532 |   | C |
| <b>CDC RAMA</b>                            |                  |              |   |   | Reisner, Cecil & Barry  | Limerick         | 306-263-2139 |   | R |
| Hardy, Allan W. & Dale & Evan              | Grenfell         | 306-697-3128 |   | R | Slind Seeds Group (1998) Ltd.                                     | Archerwill       | 306-323-4402 |   | R |
| <b>CDC TEAL</b>                            |                  |              |   |   | Trowell, Leslie   | Saltcoats        | 306-744-2684 |   | C |
| Blenkin, Leonard G. & Larry K.             | Sintaluta        | 306-727-2222 |   | C | Woods, Dale Arthur & June   | Rocanville       | 306-645-4423 |   | F |
| Charabin, Dale Kenneth & Timothy V. & Ryan | North Battleford | 306-445-2939 | S | C | Yauck, Kevin Rodney   | Govan            | 306-484-4555 | S | F |
| Dowdeswell, Donald D.                      | Pennant          | 306-626-3388 |   | C | <b>KANE</b>   |                  |              |   |   |
| Fenton, Gerald A. & Robin Paul             | Tisdale          | 306-873-5438 | S | F | Amos, K. Wayne  | Oxbow            | 306-483-2963 |   | C |
| Hardy, Allan W. & Dale & Evan              | Grenfell         | 306-697-3128 |   | F | Bergstrom, Randy M.   | Birsay           | 306-573-4625 |   | R |
| Hardy, Brian & Calvin                      | Grenfell         | 306-697-3127 |   | C | Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore      | 306-368-2602 |   | F |
| Smith, Wayne D.                            | Limerick         | 306-263-2144 |   | R | Boyd, Clare W. & Dale A.  | Melfort          | 306-752-2108 |   | C |
| <b>CDC ZORBA</b>                           |                  |              |   |   | Buziak, Ronald Charles  | Mayfair          | 306-445-6556 |   | C |
| Amos, K. Wayne                             | Oxbow            | 306-483-2963 | S | C | Danielson, Lionel & Bonnie  | Norquay          | 306-594-2173 |   | C |
| Kennett, Brian Guy                         | Manor            | 306-448-4813 |   | F | Fedoruk, Rod M. & Cathy   | Kamsack          | 306-542-4235 |   | C |
| <b>COLUMBUS</b>                            |                  |              |   |   | Greenshields, Grant & Jim & Callie                                | Semans           | 306-524-2155 |   | F |
| Titman, David G. & Loa L.                  | Viscount         | 306-944-4236 | S | F | Heavin, G. Harvey & G. Ryan                                       | Melfort          | 306-752-4171 | S | F |
| Willner, Lorne E.                          | Davidson         | 306-567-4613 | S | C | Hleck, Leo  | Codette          | 306-862-5966 |   | C |
| <b>HARVEST</b>                             |                  |              |   |   | Ostafie, Dave & Robert  | Canora           | 306-563-6244 |   | F |
| Boyd, Clare W. & Dale A.                   | Melfort          | 306-752-2108 |   | C | Rude, Stanley   | Naicam           | 306-874-2359 |   | F |
| Brigden, Allan D., Drew & Devon            | Kisbey           | 306-462-4813 |   | R | Tebbutt, Ronald E. & Gregg  | Nipawin          | 306-862-9730 |   | C |
| Buziak, Ronald Charles                     | Mayfair          | 306-445-6556 |   | C | Trowell, Kenneth & Larry  | Saltcoats        | 306-744-2687 | S | F |
| Cay, Randy D.                              | Kinistino        | 306-864-3696 |   | R | <b>KATEPWA</b>  |                  |              |   |   |
| Cay, Susan M.                              | Kinistino        | 306-752-3696 |   | R | Tanner, David A. & Hazel  | Regina           | 306-757-7012 |   | C |
| Charabin, Dale Kenneth & Timothy V. & Ryan | North Battleford | 306-445-2939 |   | R | <b>LILLIAN</b>  |                  |              |   |   |
| Danielson, Lionel & Bonnie                 | Norquay          | 306-594-2173 |   | R | Allan, John R. & John Garth                                       | Corning          | 306-457-2629 |   | R |
| Fedoruk, Rod M. & Cathy                    | Kamsack          | 306-542-4235 |   | C | Altwasser, Rodney & Allen R. & Dean                               | Yellow Grass     | 306-465-2727 |   | C |
| Fenton, Gerald A. & Robin Paul             | Tisdale          | 306-873-5438 | S | F | Annand, Glenn   | Mossbank         | 306-354-7675 | S | F |
| Frederick, Blaine                          | Watson           | 306-287-4289 |   | C | Bergstrom, Randy M.   | Birsay           | 306-573-4625 |   | C |
| Hardy, Allan W. & Dale & Evan              | Grenfell         | 306-697-3128 |   | R | Bews Agrow Ltd.   | Eatonia          | 306-967-2440 |   | R |
| Herle, Raymond & Gregory R.                | Wilkie           | 306-843-2934 |   | C | Blenkin, Leonard G. & Larry K.                                    | Sintaluta        | 306-727-2222 |   | C |
| Hetland, Bill                              | Naicam           | 306-874-5694 |   | R | Bolt, Dale & Scott & Tod  | Wynyard          | 306-554-2076 |   | C |
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| Denis, Michel P. & Marc   | St. Denis        | 306-258-2075 |
| Edwards, Lawrence R., Donna, Jeff & Mike                          | Nokomis          | 306-528-2140 |
| Floberg, Barry & Delana & Devin & Brandon                         | Shaunavon        | 306-297-2087 |
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| Greenshields, Grant & Jim & Callie                                | Semans           | 306-524-2155 |
| Heavin, Larry N. & L. Warren                                      | Melfort          | 306-752-4020 |
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| Lung Seeds Ltd.   | Lake Lenore      | 306-368-2414 |
| Lung, Ivan & Schemenauer, S. & B.;                                | Lake Lenore      | 306-368-2414 |
| McCutcheon, Orville & David                                       | Outlook          | 306-856-2265 |
| McDougall, Ken & Craig  | Moose Jaw        | 306-693-3649 |
| Palchinski, Michael   | Saskatoon        | 306-374-3406 |
| Palmier, Maurice  | Lafleche         | 306-472-5917 |
| Patzer, Wendell Albert  | Frontier         | 306-296-4780 |
| Pratchler, John & L. & M. & A.                                    | Muenster         | 306-682-3317 |
| Reisner, Cecil & Barry  | Limerick         | 306-263-2139 |
| Robinson, Oren A. & Marlene                                       | Landis           | 306-658-4755 |
| Rugg, Barry C. & Robert B.  | Elstow           | 306-257-3638 |
| Shewchuk, Stan & Lorne & Terry                                    | Krydor           | 306-497-2800 |
| Smith, Wayne D.   | Limerick         | 306-263-2144 |
| Stokke, Terry J. & Shane T.                                       | Watrous          | 306-946-2566 |
| Watson, Wayne Donald & Calvin & Mark                              | Avonlea          | 306-868-2171 |
| Wiens, Brennan R.   | Herschel         | 306-377-2002 |
| Wiens, Rudy G.  | Herschel         | 306-377-4800 |
| Willner, Lorne E.   | Davidson         | 306-567-4613 |
| Woroschuk, Andrew   | Calder           | 306-742-4682 |
| Yauck, Kevin Rodney   | Govan            | 306-484-4555 |
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| Viterra / Proven Seed   | Regina           | 306-569-4444 |
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| Maxwell, David S.   | Nipawin          | 306-862-9622 |
| <b>SADASH</b>   |                  |              |
| Berscheid, K.N. & B. & E.K. & S. & C. & Y.                        | Lake Lenore      | 306-368-2602 |
| Fenton, Gerald A. & Robin Paul                                    | Tisdale          | 306-873-5438 |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard          | 306-554-2078 |
| Lung Seeds Ltd.   | Lake Lenore      | 306-368-2414 |
| Tomtene, Steven & Slind, Daniel                                   | Birch Hills      | 306-749-3230 |
| <b>SNOWBIRD</b>   |                  |              |
| Charabin, Dale Kenneth & Timothy V. & Ryan                        | North Battleford | 306-445-2939 |
| Hardy, Allan W. & Dale & Evan                                     | Grenfell         | 306-697-3128 |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. | Wynyard          | 306-554-2078 |
| Reisner, Cecil & Barry  | Limerick         | 306-263-2139 |
| Sayers, Charlie Joseph  | Delmas           | 306-445-6522 |
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| Sudom, Blaine G. & Nathan   | Avonlea          | 306-868-4620 |
| Yauck, Kevin Rodney   | Govan            | 306-484-4555 |
| <b>STETTLER</b>   |                  |              |
| Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard &               |                  |              |

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|---|----------------|--------------|-------|
| C Bolt, Glen A.                                   | Wynyard        | 306-554-2078 | S     |
| <b>SUPERB</b>                                     |                |              |       |
| C Craswell, Gordon B. & Bryan & Mark              | Tisdale        | 306-873-5360 | C     |
| C Dangstorp, Emil & Brian                         | Redvers        | 306-452-3444 | C     |
| C Heavin, G. Harvey & G. Ryan                     | Melfort        | 306-752-4171 | F R   |
| C Heavin, Milton Russell                          | Melfort        | 306-752-4071 | R     |
| C Holland, Ernest W.                              | Rocanville     | 306-645-4223 | C     |
| C Kennett, Brian Guy                              | Manor          | 306-448-4813 | R     |
| C Osborne, Nolan Stanley C.                       | Yorkton        | 306-782-7113 | C     |
| C Ostapovitch, F.G. & Glen                        | Theodore       | 306-647-2205 | S F R |
| C Palmier, Maurice                                | Lafleche       | 306-472-5917 | R     |
| C Petracek, Arnold J. & Alan D. & Michael         | Esterhazy      | 306-745-6210 | C     |
| C Redman, Wayne G. & Collin M.                    | Margo          | 306-324-4235 | C     |
| C Rempel, Blair Allan                             | Nipawin        | 306-862-3573 | C     |
| C Schultz, Bernie Edwin                           | Choiceland     | 306-428-2847 | C     |
| C Shewchuk, Stan & Lorne & Terry                  | Krydor         | 306-497-2800 | R     |
| C Thompson, Jan Harris                            | Naicam         | 306-874-5407 | C     |
| C Trawin, Julie Ann                               | Melfort        | 306-752-4060 | F R   |
| C Wylie, Leslie Dale                              | Biggar         | 306-948-5394 | C     |
| C Zwingli, James Trent & Shelley                  | Melfort        | 306-752-4224 | R     |
| <b>WASKADA</b>                                    |                |              |       |
| R C Allan, John R. & John Garth                   | Corning        | 306-457-2629 | S F R |
| C Amos, K. Wayne                                  | Oxbow          | 306-483-2963 | S R   |
| R Ardell, Terrence Wade, Michael, Brad & Joanne   | Vanscoy        | 306-668-4415 | S R   |
| R Berscheid, K.N. & B. & E.K. & S. & C. & Y.      | Lake Lenore    | 306-368-2602 | S     |
| R Buziak, Ronald Charles                          | Mayfair        | 306-445-6556 | R     |
| C Carlson, Herbert E.P. & Leslie                  | Buchanan       | 306-592-4449 | R     |
| C Hardy, Allan W. & Dale & Evan                   | Grenfell       | 306-697-3128 | S F R |
| C Heavin, Larry N. & L. Warren                    | Melfort        | 306-752-4020 | S     |
| R C Palmier, Maurice                              | Lafleche       | 306-472-5917 | F     |
| C Redman, Wayne G. & Collin M.                    | Margo          | 306-324-4235 | S R   |
| R C Stauber, Clayton & Lori                       | Stewart Valley | 306-773-7907 | R     |
| C Tebbutt, Ronald E. & Gregg                      | Nipawin        | 306-862-9730 | S     |
| C Trawin, John                                    | Melfort        | 306-752-4060 | S R   |
| <b>WHEAT - MIDGE TOLERANT</b>                     |                |              |       |
| <b>GOODEVE</b>                                    |                |              |       |
| R C Ardell, Terrence Wade, Michael, Brad & Joanne | Vanscoy        | 306-668-4415 | S     |
| C Craswell, Raymond W.                            | Strasbourg     | 306-725-3236 | S     |
| C Danielson, Lionel & Bonnie                      | Norquay        | 306-594-2173 | S     |
| C Denis, Michel P. & Marc                         | St. Denis      | 306-258-2075 | S     |
| C Fedoruk, Rod M. & Cathy                         | Kamsack        | 306-542-4235 | S     |
| C Fraser, Edward H. & Glen & Dale                 | Yarbo          | 306-745-3830 | S     |
| R Froese, Terrance P.                             | Rabbit Lake    | 306-824-2121 | S F   |
| C Garratt, Lyle C. & K.C.                         | Milestone      | 306-436-2178 | S     |
| C Hardy, Allan W. & Dale & Evan                   | Grenfell       | 306-697-3128 | S     |
| C Hetland, Bill                                   | Naicam         | 306-874-5694 | S     |
| R Palmier, Maurice                                | Lafleche       | 306-472-5917 | S     |
| C Smith, Ron T.W. & Barb A.                       | Limerick       | 306-263-4944 | S     |
| C Tomtene, Steven & Slind, Daniel                 | Birch Hills    | 306-749-3230 | S     |
| C Veikle, Lorne A. & Carl E. & G. & J.            | Cut Knife      | 306-398-4714 | S     |
| C Wakefield, Laurie Garland                       | Maidstone      | 306-893-2984 | S     |
| R Wilfing, Raymond John & Ryan John               | Meadow Lake    | 306-236-6811 | S     |
| <b>WHEAT - WINTER</b>                             |                |              |       |
| <b>CDC BUTEO</b>                                  |                |              |       |
| C Annand, Glenn                                   | Mossbank       | 306-354-7675 | R     |
| C Carlson, Herbert E.P. & Leslie                  | Buchanan       | 306-592-4449 | C     |
| C Fedoruk, Rod M. & Cathy                         | Kamsack        | 306-542-4235 | R     |
| R Floberg, Barry & Delana & Devin & Brandon       | Shaunavon      | 306-297-2087 | C     |
| R Gellner, Clayton S.                             | Southey        | 306-726-4323 | R     |
| R Girodat, Gerald                                 | Shaunavon      | 306-297-2913 | C     |
| R Kaeding, Roger W. & Warren                      | Churchbridge   | 306-896-2236 | F C   |
| R Leduc, Gerald R.                                | Assiniboia     | 306-642-3076 | R C   |
| R C Lutzner, Albert & Latrace, Jim                | Lumsden        | 306-731-2843 | C     |
| R McDougall, Ken & Craig                          | Moose Jaw      | 306-693-3649 | R     |
| R Meili, James Patrick                            | Moose Jaw      | 306-692-5767 | R C   |
| R Ostafie, Dave & Robert                          | Canora         | 306-563-6244 | R     |
| R Patzer, Wendell Albert                          | Frontier       | 306-296-4780 | C     |

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| Rude, Stanley                | Naicam    | 306-874-2359 | R C |
| Sandercock, Eric M.          | Balcarres | 306-334-2958 | C   |
| Sayers, Charlie Joseph       | Delmas    | 306-445-6522 | C   |
| Sopatky, Jeffery & Patti     | Saskatoon | 306-227-7867 | S R |
| Stokke, Terry J. & Shane T.  | Watrous   | 306-946-2566 | R   |

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| McDougall, Ken & Craig | Moose Jaw | 306-693-3649 | S R C |
| Meili, James Patrick   | Moose Jaw | 306-692-5767 | R     |
| Shoemaker, Norman      | Pense     | 306-354-2193 | R C   |

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| Elmy, Robert W.,<br>Kevin & Christina  | Saltcoats | 306-744-2779 | R |
| Hardy, Allan W. & Dale & Evan          | Grenfell  | 306-697-3128 | C |
| Jones, Bradley & Wanda                 | Wadena    | 306-338-2381 | C |
| Littman, Larry W. &<br>Allan B. & L.R. | Saltcoats | 306-783-6518 | C |

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| Trawin, Alan Ross, Mitchell,<br>Ashton, Jennifer & Jessica | Melfort | 306-752-4060 | C |

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| Clearwater, Don W. | Nipawin     | 306-862-3025 | C |
| Farmpure Seeds     | Regina      | 306-791-0500 | C |
| Horudko, Dwight    | Nipawin     | 306-862-9491 | C |
| Ralph, Robert E.   | Arborefield | 306-769-4160 | C |
| Tulloch, Randy     | Broadview   | 306-696-2840 | C |

**KIRK**

|                      |          |              |     |
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| Farmpure Seeds       | Regina   | 306-791-0500 | C   |
| Freedman, Brent      | Gronlid  | 306-277-4721 | S C |
| Geall, Brian R.      | Nipawin  | 306-862-9177 | F C |
| Hochbaum, Jack       | Wilkie   | 306-843-2054 | C   |
| Horudko, Dwight      | Nipawin  | 306-862-9491 | C   |
| Horudko, Ernest      | Nipawin  | 306-862-4889 | C   |
| Pickseed Canada Inc. | Winnipeg | 204-633-0088 | C   |

**WHEATGRASS - INTERMEDIATE****CHIEF**

|                   |              |              |   |
|-------------------|--------------|--------------|---|
| Farmpure Seeds    | Regina       | 306-791-0500 | C |
| Lindsay, Eldon M. | Carrot River | 306-768-3156 | C |
| Whyte, George     | Codette      | 306-862-5821 | C |

**WHEATGRASS - SLENDER****REVENUE**

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