

**A closer look at
Western Canada's
new midge tolerant
wheat varieties**

ALSO INSIDE:

- Seed supply outlook
- Seed grower information
- Varieties registered in 2009
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President's Message



The 2009 season is finally behind us – for most producers at least – and after a very cool summer and a harvest that never ended, we experienced higher yields and better quality than expected.

Now it's time to look forward to a new season in 2010. Will it have the same challenges as last year or new ones? Which crops and varieties should we grow? Do we want early maturity, better disease packages or something else?

The Saskatchewan Seed Guide is still farmers' most coveted source for information to determine which variety best suits their own farm operation. Each year, the Saskatchewan

Variety Performance Group coordinates scientifically monitored test plots to collect data and provide us with the most current information. Their work and contribution to this publication is invaluable.

And starting your crop with certified seed also helps reduce the risk during an uncertain season.

Each time certified seed is purchased, a portion of the purchase price is returned to research and development to further improve varieties. The seed grower's role is to transfer new agronomic technology to farmers through seed that is genetically pure, with good germination, uniform seed size, emergence and maturity, and minimum disease levels.

This year, the seed industry is proud to introduce several new varieties that offer tolerance to orange blossom wheat midge. Those new varieties are a shining example of how research, innovation and seed growers work together to provide Saskatchewan farmers with new options to protect crops.

Combining the data in this guide and seeking out your local seed grower to discuss which varieties will work best on your farm will help narrow down the best choices that will address the challenges and maximize the return on your farm.

On behalf of all those whose efforts help make this publication possible, I would like to wish you all the best in 2010, a safe season and a bountiful harvest.

Lyndon Olson, President
Saskatchewan Seed Growers Association

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ON THE COVER:

Unity wheat, a midge tolerant variety developed by plant breeders at Agriculture Canada, will be available to grain growers this year. It will be sold as a midge tolerant blend known as Unity-Waskada. For

more information on this variety and other midge tolerant varieties available for 2010 planting, see the story on page 12.

WP photo by Michael Raine

Contents



- 8** > A tale of two seasons
By Shirley Byers
- 12** > Midge tolerant wheat varieties make debut across West
By Shannon Moneo
- 18** > CWGP wheat varieties slowly gaining market share
By Barb Grinder
- 22** > New wheat protocol aims to keep deregistered varieties out of system
By Darlene Polachic
- 25** > Life after deregistration
By Darlene Polachic
- 26** > DNA test nears completion
By Shannon Moneo
- 28** > New clubroot resistant canola varieties make debut in 2010
By Stephanie Banks
- 31** > Ascochyta blight raises concern among pea growers
By Shirley Byers
- 39** > Lillian expands prairie acreage
By Shannon Moneo
- 44** > Results of Agriculture Canada 2009 Variety Request for Proposals
- 46** > New cereal varieties take aim at fusarium
By Shirley Byers
- 48** > Canadian Food Inspection Agency 2009 Registration Report

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Seed Growers List

Alfalfa.....	57	Clover.....	62	Rye.....	73
Barley.....	57	Faba Bean.....	63	Ryegrass.....	74
Bean.....	61	Fescue.....	63	Sainfoin.....	74
Birdsfoot Trefoil.....	61	Flax.....	63	Soybeans.....	74
Bromegrass.....	61	Hemp.....	64	Sunflowers.....	74
Canarygrass.....	61	Lentil.....	64	Timothy.....	74
Canaryseed.....	62	Mustard.....	68	Triticale.....	74
Canola.....	62	Needlegrass.....	68	Vetch - Chickling.....	74
Chickpea.....	62	Oats.....	68	Wheat.....	75
Cicer Milk Vetch.....	62	Peas.....	69	Wheatgrass.....	84



Looking Ahead

See our variety recommendation lists for a closer look at new varieties being developed for Saskatchewan producers

Oilseeds.....	34
Wheat, Rye & Triticale.....	36
Oats & Barley.....	38
Pulses & Special Crops.....	40
Canola & Rapeseed.....	42

"Varieties of Grain Crops 2010" 24-page pullout included with this guide



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A tale of two seasons By Shirley Byers Freelance writer

FOR MANY PRODUCERS, 2009 DELIVERED THE BEST OF YIELDS
AND THE WORST OF WEATHER



FILE PHOTO

A late, cool spring hindered crop growth in many parts of the province and delayed crop maturity. Producers in many parts of Saskatchewan worked late into the fall to get this year's crop in the bin.

STRANGE, TROUBLED, CHALLENGING, desperate are a few of the adjectives used by Saskatchewan seed growers to describe the 2009 growing season.

Though the eleventh month brought unusually mild weather conditions that allowed the harvest to progress, seed growers from Maidstone, Carrot River, Kindersley and LaFleche agreed that 2009 was a challenging year and hoped for a better fate in 2010.

"It's been a troubled year and it's not over yet," said Kris Wakefield of Maidstone, Sask., in early November.

With 1,400 acres remaining to combine as of Nov. 5, the northwest Saskatchewan seed grower said troubles began in the spring and continued throughout the growing season.

"Nothing really germinated till the beginning of June.... Then we had a whole bunch of rain and then it got dry again."

Summer was cool in the northwest, said Wakefield. Most of the moisture received during the growing season came late in the summer.

September brought an unexpected and welcome heat wave that helped crops mature.

"Everything was a month behind. We had August in September and September in October."

By October, the ground was dry again, Wakefield added.

"When we did soil sampling in October, the ground was so dry we couldn't get a probe in."

The Wakefields felt fortunate to begin harvesting on Sept. 1.

Sixty days later, on Oct. 30, they were still harvesting No. 1 wheat.

Snow that arrived during the first week of October shut down the combines for the rest of the month.

Weather aside, 2009 was a decent year, he said.

Bugs and disease weren't prominent problems and field peas yielded more than 70 bushels per acre.

Looking ahead to 2010, Wakefield said there may be a shortage of some varieties and an overabundance of others.

"Whatever was harvested early, the yields were pretty good," he said.

"Guys might need to phone around (to find the seed they want). The closest grower might not have what they want but the next guy might."

In the northeast near Carrot River, seed grower Ken Clancy also described the year as a challenge.

"The weather hasn't cooperated very well," said Clancy in November.

"We only had one month of summer and that

was September. Also, it was cold and everything is late and now we're fighting to get the crop off and it's mid November."

As in the northwest, bugs and disease weren't pressing concerns in the northeast.

Midge damage was minimal with only the occasional producer needing to spray. Several producers told Clancy there was something affecting their field peas. The fields looked good but yields fell short.

Harvested peas were smaller than usual and Clancy wondered if some crops had been affected by ascochyta blight.

He noted that fields sprayed with fungicide yielded almost 15 bu. per acre higher than those that weren't sprayed.

Supplies of pedigreed seed in the northeast should be sufficient, he predicted.

"The cereals were off early. The majority of the cereals came off in good shape."

Clancy said producers in the northeast will probably stick closely to their rotations.

"Everything depends on what prices do through the winter," he said.

In west central Saskatchewan, near Kindersley, seed grower Walter Fast described growing conditions as strange, starting with a cool and "horribly dry" spring.

"Our situation was quite desperate here. We sprayed out almost 2,000 acres here in early July. It wasn't going to make a crop so we sprayed it out."

While many producers in the area had similar difficulties, Fast said there were phenomenal crops in small pockets that got additional rain.

Some crops on chem fallow also produced well.

The Kindersley area produces a lot of durum as well as wheat, barley, yellow peas, canaryseed and lentils, primarily red types.

In 2009, the pulses did better than most crops, Fast said.

"I was impressed with the pulses. For the stressed start and the adverse conditions, the pulses actually came through pretty well."

Nearly six weeks after planting, many of Fast's yellow peas were swelled but few were germinating. He said he was tempted to spray out the yellow peas.

"It looked just awful, a little bit growing.... Then we got some rain and all of a sudden it just took off. That first June rain, the whole field greened up amazingly well. We ended up with 32 bushels in the end. It was amazing to see, I wouldn't have believed it."

Regrowth and variable staging were issues in most crops, he said.

"That's why we got caught with a few acres still out (at the end of October)."

Otherwise, Fast would have completed his combining by the end of September.

Fast felt the grasshopper population was on the increase but there was little evidence of wheat midge or sawfly.

Area growers were pleased with sawfly resistance provided by Lillian and also with the performance of midge resistant wheat varieties, he said.

Fast doesn't anticipate seed shortages in his area but said many producers are looking for lentils.

"Any calls or enquiries, it's all lentils. It's incredible and it's because of what the market is doing."

In the south central part of the province, near LaFleche, Sask., Maurice and Anita Palmier were still combining canola and chickpeas on Nov. 5.

It wouldn't be a bumper crop, said Anita, but it would be above average.

"We had good moisture throughout the year, which was unusual because there's usually less rain down here," she said.

In a normal year, combining is finished in the LaFleche area by the end of September but this year, the canola and chickpeas weren't ready.

Anita said yields were above average. Unlike most years, rain fell throughout June and July. "A shot of rain could make five to 10 bushels difference," she said.

The rain boosted yields but also delayed

maturity and dry down of canola and chickpeas.

A hard frost was needed to kill the plants.

When frost arrived, harvest went ahead, although more rain caused delays.

Producers in Assiniboia and areas further west received three or four inches of rain during harvest, keeping some bumper crops in the field until early November.

Grasshoppers weren't a concern in the area but gophers were.

"We had 555 acres (of canola) all around the river," said Anita.

"The hired man went out to poison but 80 acres disappeared. It all grew back because of the rain so when we went to combine, it was still flowering so that's why (we were held up).

"Some was flowering some was done, because of the gopher damage. They love canola," she added. "It's just like candy."

Looking ahead to 2010, Anita said there would be enough pedigreed seed to meet the demand.

Durum sales were down in 2009 but Lillian and the midge tolerant wheats were very popular.

"I think the spring wheats are going to be the biggest (in 2010)," she said.

"I would say spring wheat and durum usually run about 50- 50 but I imagine this year it will be 50 percent spring wheat, 30 percent durum and 20 percent lentils and chickpeas." ♦



'TIS THE SEASON...

For producers, spring is just around the corner. The days are getting longer, in more ways than one. It's time to make predictions, firm up commitments, and be fully prepared in this high-stakes business we call farming.

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Midge tolerant wheat varieties make debut across West

THREE VARIETAL BLENDS OFFERING TOLERANCE TO THE ORANGE BLOSSOM WHEAT MIDGE WILL BE AVAILABLE TO COMMERCIAL GRAIN GROWERS FOR 2010 PLANTING.

By Shannon Moneo
Freelance writer



FILE PHOTO

The economic losses associated with wheat midge damage vary from year to year. Recently, the insect has spread into Alberta and British Columbia's Peace River region.

PRAIRIE WHEAT PRODUCERS being pestered by the orange blossom wheat midge will have access to three of the four new midge tolerant wheat varieties in 2010.

"This is new technology for Western Canada," said Todd Hyra, an agronomist and SeCan's business manager for Western Canada.

"It's a major development."

Using traditional plant breeding techniques, scientists at Agriculture Canada labs in Winnipeg and Swift Current spent 15 years moving a single gene, Sm1, into spring wheat varieties.

Found in old American soft red winter varieties, Sm1 is the only known gene that confers tolerance to wheat midge.

Since the fall 2009, SeCan members have been selling the Unity-Waskada varietal blend, with Waskada as a refuge variety. A refuge variety is a second variety that is included in midge tolerant blends to preserve midge tolerance.

Alliance Seed Corporation is distributing a Goodeve-AC Intrepid varietal blend with AC Intrepid as the refuge.

Both are Canada Western red spring (CWRS)

varieties.

Faurschou Farms is distributing the Glencross-Burnside varietal blend, with Burnside as the refuge. Glencross-Burnside is a Canada Western extra strong (CWES) variety.

Jim Downey, SeCan's research and development manager, said the Glencross varietal blend will not be used widely in Saskatchewan. Much of the Glencross available this year is destined for Manitoba fields, he added. The market for CWES wheat, typically used to make items like frozen pizza dough, is limited.

The fourth midge tolerant variety, Fieldstar-Waskada varietal blend with Waskada as the refuge, will be on the market in fall 2010. Seed production for Fieldstar is a year behind, Hyra said.

SeCan will sell Fieldstar, which also falls into the CWRS class.

Only selected seed retailers in Western Canada will be taking orders for the midge tolerant wheat, but Downey said it shouldn't be difficult to find a retailer.

For details on seed availability, see the list of

Saskatchewan pedigreed seed growers handling midge tolerant blends, located on pages 75-82 of this publication.

Downey recommends that producers contact a seed grower quickly if they hope to secure supplies of midge tolerant blends for 2010 planting.

"In the first year of any variety, it's usually in short supply because of high demand," Downey said.

"Price will be at a premium to existing or older varieties."

While local retailers can set a price, Hyra predicted that midge tolerant seed would sell for \$13 to \$14 per bushel versus \$11 to \$12 for a new non-midge tolerant variety or \$9 to \$10 for a variety that's been available for a couple years.

Midge tolerant varieties have been field-tested since 2007 at eight different locations in Alberta, Saskatchewan and Manitoba and results were encouraging.

Yields of the midge tolerant varieties have been running about 10 percent higher than the CWRS check, AC Barrie, said Ron DePauw, an

CONTINUED ON PAGE 14



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Agriculture Canada geneticist and plant breeder who helped to develop and commercialize the midge tolerant varieties.

The Sm1 varieties also mature about four days earlier than the check and protein concentration is one percent higher.

“Midge tolerant wheat performs better,” DePauw said.

In two trials of Unity, the varietal blend was the highest yielding variety, a result that garnered considerable interest, Downey added.

DePauw expects annual market share for midge tolerant varieties to eventually reach several million acres, generating \$30 million to \$60 million of incremental value per year.

Since making its appearance on the Prairies a century ago, the orange blossom wheat midge has made life miserable for Saskatchewan farmers.

The six-legged fly, which measures three millimetres in length, can cause significant economic losses, Hyra said.

In 2006, for example, midge related losses in Western Canada were estimated at \$40 million. Chemical treatment is expensive.

Insecticides can boost production costs by as much as \$20 per acre and the window for application is narrow.

The chemicals also kill beneficial insects including a tiny parasitic wasp that preys on the midge.

“Nobody likes to spend all their summer evenings scouting for midge,” Hyra said.

Midge infestations vary across the West but in recent years, producers in central and eastern Saskatchewan and western Manitoba have been hardest hit.

In 2008, midge damage declined slightly but the insect expanded its range into Alberta and B.C.’s Peace River region.

Last year, producers in Saskatchewan and Alberta were hit harder than those in Manitoba, Hyra said.

Damage occurs when the midge larvae feed on developing wheat kernels. The kernels become shrunken and deformed, leading to grade related losses.

“But that damage is just the tip of the iceberg,” said DePauw.

When kernels are shriveled, up to 50 percent

of the crop can be blown out the back of the combine during harvest. The farmer never knows the kernels existed.

Losses can range from \$20 to \$75 per acre.

Hyra calculated that if one midge infests four to five flowering wheat heads, roughly 15 percent of the crop will be damaged. Based on a potential yield of 40 bushels per acre, the midge-induced losses could approach \$36 per acre.

Work on developing midge tolerant wheats began in 1996 when genetic resistance to the midge was detected in soft winter wheat varieties Augusta, Caldwell, Clark and Howell.

By 2002, scientists in Winnipeg had isolated the single gene that confers resistance, Sm1.

Eight years later, the seed is making its way into the hands of commercial grain producers.

When the midge begins to feed on midge tolerant seed, the Sm1 gene causes naturally occurring organic acids in wheat kernels to rise more quickly than they would in plants without the Sm1 gene.

The higher acid levels cause the midge larvae to stop feeding and they eventually starve.

CONTINUED ON PAGE 16

PLANT, PROTECT, PRESERVE

New midge tolerant wheat website offers everything farmers need to know about midge tolerant wheat

CANADA’S MIDGE TOLERANT wheat stewardship team recently launched a new website, www.midgetolerantwheat.ca, to serve as a comprehensive guide to grain growers interested in using midge tolerant wheat varieties.

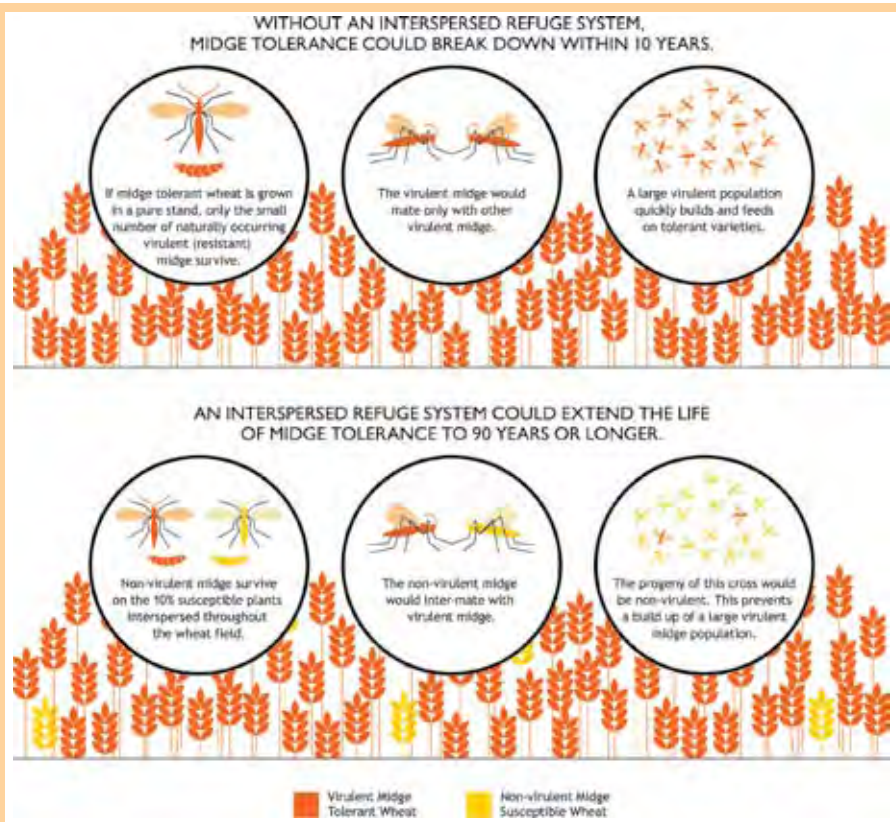
“The site is a great resource for farmers, seed growers and industry to learn more about the benefits, new varieties and stewardship program to help preserve this valuable trait for the future,” says Mike Espeseth, communications manager for the Western Grains Research Foundation.

The tolerant wheat stewardship team is a broad industry coalition representing plant breeders, government, seed growers, seed distributors and producer groups.

The team is committed to maintaining the viability of midge tolerant wheat by educating Western Canadian wheat producers on the importance of proper stewardship of midge tolerant varieties.

It took 15 years of work and a huge financial investment for researchers to move a single gene for midge tolerance, Sm1, into spring wheat varieties.

“Farmers helped fund the research with their check-off dollars,” said Espeseth, noting that the varieties were developed by Agriculture Canada wheat breeders in Winnipeg and Swift Current.



Tolerance based on a single gene can become ineffective over a short period of time unless a proper refuge is maintained.

Within the natural midge population, a small number of midge (referred to as virulent midge) carry a mutation that allows them to feed on midge tolerant wheat varieties and survive.

Therefore, an interspersed refuge system, a blend of a midge tolerant and susceptible varieties, is required.

“Understanding the science behind how the interspersed refuge system works is very important to the entire industry,” said Espeseth.

“With this knowledge, it is clear that the stewardship agreement is a simple, effective way to help preserve this exciting technology for decades to come.”

Visit www.midgetolerantwheat.ca to learn more about the benefits of this new technology and how to preserve it for the future.

Bob Rusk's farming career had been like a roller coaster.



Growers have their share of ups and downs. Especially during seeding season. So when Bob Rusk from Lafleche, Saskatchewan looked out over his rolling hills and heavy gumbo soil wanting to ensure the right seeding depth for his wheat and small seeded crops, he chose the drill famous for its extreme precision. The Morris Contour Drill features an independent contour opener with parallel linkage for ultra-precise seed and fertilizer placement. Each opener moves independently of the frame, and of each other, to closely follow every contour of your land. To learn how the Morris Contour Drill can work for you, visit our website or your nearest dealer.

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Basing tolerance on a single gene is a precarious strategy.

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

To prolong tolerance, the wheat is sold as a varietal blend, which contains 90 percent midge tolerant seeds and 10 percent susceptible seeds.

Susceptible seeds are known as the refuge variety.

If the midge tolerant variety were grown without a refuge variety in a pure stand, the vast majority of midge would perish but a few would survive.

Those that survive would carry a mutation that would eventually be bred into other surviving insects.

Known as a virulent midge, the surviving midge population would mate, multiply and eventually build up a large virulent population.

With the 90:10 wheat blend, non-virulent midge will survive on the 10 percent of susceptible plants and mate with virulent midge.

The offspring will be non-virulent.

By employing this strategy, the life of the midge tolerant gene can be extended from roughly a decade to more than 90 years, DePauw said.

But the 90:10 ratio must be maintained to ensure the strategy works.

To protect the midge tolerant technology, the wheat industry has drafted its first-ever stewardship agreement, which must be

honoured by all commercial growers who buy the seed.

“This is different for wheat, absolutely. It’s all about preserving the technology,” Hyra said.

“With this technology, some responsibility is needed.”

“Without the refuge, tolerance is broken in eight to 10 years.”

Farmers who buy midge tolerant wheat for 2010 planting will be required to sign a midge tolerant wheat stewardship agreement.

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

In year one, certified midge tolerant seed is bought and planted.

In year two, farmers are allowed to plant farm-saved supplies of midge tolerant seed.

In year three, new midge tolerant seed must be purchased.

According to Hyra, maintaining the refuge variety at the desired 10 percent level, is crucial to the success of the program.

“In Saskatchewan, farm-saved seed was a way of life,” Hyra said.

But with so much riding on preserving that Sm1 gene, farmers will play by the rules, he predicted.

Retailers are also required to sign stewardship agreements and they must also complete training before they can sell Sm1 seed.

Following successful completion of the training

program, pedigreed seed growers receive an authorized retailer number.

“Anyone who touches midge tolerant wheat must sign an agreement,” Hyra said.

If agreements aren’t honoured, penalties are spelled out in the agreements.

For example, producers who plant farm saved seed for more one generation are subject to fines of \$100 per acre for each unauthorized acre sown.

All stewardship agreements will be sent to a central office. Follow-ups may be conducted after two years and future purchases can be tracked.

Random and targeted audits will be performed. “We can check for irregularities,” Hyra said.

He noted that there’s always a few people who break the rules.

“Please don’t participate if you don’t want to follow the rules. There are other options,” he advised.

Created with producer funding through the Western Grains Research Foundation, the midge resistant wheat is available only in Canada.

It was developed using Canadian public dollars and is meant for Canadian farmers, Hyra said.

Without a stewardship agreement, the wheat isn’t being released in the U.S., Hyra said. And export rights don’t exist.

To get the latest information on midge tolerant wheat call the Western Grains Research Foundation at 306-975-0060 or go to www.midgetolerantwheat.ca. ♦

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Always Growing



CWGP wheat varieties slowly gaining market share

ECONOMIC RECESSION HAS SLOWED INVESTMENT IN THE ETHANOL INDUSTRY, ALTHOUGH SOME INDUSTRY ANALYSTS EXPECT A REBOUND IN 2010

By Barb Grinder
Freelance writer

WHEN THE GOVERNMENT of Canada approved the creation of a Canada Western General Purpose (CWGP) wheat class in 2007, the industry was rife with speculation about how producers and end users would embrace the new classification.

Two years and worldwide economic recession later, there are still many questions to be answered.

The CWGP wheat class was introduced to encourage the development and production of new wheat cultivars specifically designed for use in the ethanol industry.

Varieties in the new class were supposed to be high yielding, with relatively high starch content. Since then, six varieties have been registered for the western provinces — Minnedosa, Accipiter, Peregrine, Broadview, Sunrise and CDC Ptarmigan.

CDC Ptarmigan, the first wheat registered in the CWGP class, is the most widely used.

It was developed by the Crop Development Centre in Saskatoon and is being distributed by Western Ag Seed Innovations, the company that helped spur its development and registration.

Dr. Brian Fowler, a wheat breeder at the University of Saskatchewan, made the cross for the cultivar in 1981, but waited until 1999 for a three-year interim registration.

The variety didn't receive support for full registration until 2008, after the CWGP class was created.

A soft white winter wheat, Ptarmigan has very high yields and high tonnes of starch per acre, making it ideal for ethanol production.

Test results show it has relatively low production costs and good grain yield stability in high and low moisture environments.

There's also a reduced risk of fusarium head blight infestation because of the wheat's early development and maturity.

Fowler said ethanol processors have indicated that CDC Ptarmigan produces higher ethanol yields per tonne in the digestion/conversion process than spring wheat.

Though Ptarmigan accounted for more than 65 percent of all the CWGP class planted last year, the entire class represented only a small



FILE PHOTO

Terra Grain Fuels president Tim LaFrance stands in front of one of dozens of piles of AC Andrew wheat, a soft white variety, at the company's ethanol production facility near Belle Plaine, Sask. When it opened in 2008, the plant was North America's largest wheat ethanol production facility. The company contracts wheat production with local farmers.

portion of total wheat acreage in 2009, less than 0.05 percent.

"It's hard to get a handle on how the CWGP class is doing, because there's still so little of the seed available to farmers," Fowler said.

"The industry will decide if the new class has a future after they've had a chance to work with it."

Because CWGP wheat is registered only for biofuel and feed use, Fowler believes its future will always be limited.

"It's a wait and see situation, even in regard to its use in ethanol production," he said.

"In eastern Canada, almost all ethanol is being made from corn, even if they have to import it from the U.S. Eventually, ethanol will probably come from other biomass, such as switchgrass or wood chips, though that's probably a long time ahead."

There's limited interest in CWGP wheat from growers, so there's not much interest in breeding new cultivars in the class, Fowler added.

"Even for ethanol, there's more interest in

growing low protein, high starch soft white spring wheat. That's what the processing plants are using because there has been long term breeding work to develop adapted cultivars for the soft wheat milling market."

Fowler says the CWGP class could have a greater potential market if it wasn't limited to non-food uses and if more emphasis were placed on its use as feed.

"There's definitely some interest in Ptarmigan from millers."

A poll conducted three years ago by Winter Cereals Canada Inc. in conjunction with the Animal Nutrition Association of Canada found that the feed industry was strongly in favour of using wheat to supply high energy levels to the livestock diet.

Feed industry stakeholders also expressed a desire for wheat with high starch content and a minimum protein concentration of 10 percent or less.

CONTINUED ON PAGE 20

EXPERIENCE THE ADVANTAGES OF MERIDIAN BUILT STORAGE SOLUTIONS



There was a strong concern about the presence of fusarium in feed wheat, making CWGP winter wheat cultivars like Ptarmigan and Sunrise ideal.

Dale Hicks, who co-founded Western Ag in 2006, agreed that most ethanol processors on the Prairies prefer to use soft white spring wheat. The future of Ptarmigan is very promising, he added.

“It gives higher yields to the grower and produces more fuel per tonne in the ethanol processing end of the operation. Until it’s available in good supply, however, AC Andrew will remain the standby wheat crop for biofuels.”

Getting farmers to grow Ptarmigan isn’t just a matter of improving seed supplies, Hicks added. “Because it’s a winter crop, getting growers to switch is like hand to hand combat – you have to convert one farmer at a time.

“For growers in the north, or if you have a bad summer, the season for winter wheat can be too short. By the time you have the previous crop off the land, it may be too late to plant a winter crop. And you need standing stubble to plant into.

“On the plus side, sawfly is cutting into spring wheat yields in southern Saskatchewan, but it doesn’t affect winter wheat.”

Hicks said using grain to produce fuel is a sensible way to meet the world’s energy demands.

“It doesn’t really take grain out of food production, because we certainly can produce as much as we need.

“The idea that the use of corn for producing ethanol in the U.S. is driving up food prices is a myth,” he continued.

“Any price increase was set by the commodity trading markets ... (not) by a food shortage. Actually, in these tough economic times, having an alternate market for wheat is great. If farmers can’t make enough money selling their crops, they’ll get out of farming and then we’ll really have a food shortage.”

According to the Canadian Renewable Fuels Association, the ethanol market offers a great opportunity for Western Canadian wheat farmers.

When federal legislation is implemented requiring gas to be five percent biorenewable, Canadian fuel manufacturers will require more than two billion litres of ethanol a year.

Pound-Maker, Canada’s first integrated feedlot and ethanol production facility, started operations in Lanigan, Sask., in 1970.

By 2008, the facility had expanded to produce more than 13 million litres of ethanol and enough dried distiller’s grain to supply a 40,000-head feedlot.

The plant uses mostly AC Andrew soft white wheat, but ethanol plant manager Keith Rueve said it would definitely use Ptarmigan or other high starch, general-purpose wheat if it was available.

Raymond Dyck at Husky Oil said he’d also use CWGP wheat if it were available.



FILE PHOTO

Staff at NorthWest Bio Energy at Unity expect to buy about 68,000 tonnes of wheat for ethanol production in 2010. AC Andrew is the preferred variety. The new facility shipped its first load of denatured ethanol (50,000 litres) on Sept. 1, 2009.

“We look mainly for price, supply and a high starch content in the grains we use, but part of the price is the shipping cost, so we’d need a relatively local source,” he said.

“However, we also sell the distilled grains to feedlots, so we also have to check for a high fibre content and an absence of fungal mycotoxins from fusarium.”

Together, Husky’s ethanol plants in Minnedosa, Man., and Lloydminster, Sask., average about 225 to 250 million litres of ethanol per year.

Dyck said the Husky plants use a variety of grains, including CPS red varieties, white winter varieties and non-food grades of amber durum.

Unlike most other plants, they use little soft white wheat, because its fusarium levels in Manitoba are too high.

They have experimented with CDC Ptarmigan, but the freight costs and lack of supply are limiting factors.

Terra Grain Fuels’ ethanol plant in Belle Plaine, Sask., uses AC Andrew exclusively, producing about 150 million litres of ethanol a year.

Two other Saskatchewan grain-based ethanol plants, both with a capacity of 25 million litres a year, have recently started production.

The NorAmer Bio Energy plant at Weyburn uses wheat and some corn and NorthWest Bio Energy at Unity, Sask., uses primarily AC Andrew.

General manager of NorthWest Bio Energy, Jason Skinner, said the company will use about 68,000 tonnes of wheat in 2010, about 80 percent of which is contracted through

shareholders and local producers.

Skinner said the facility will use some CPS varieties with lower protein content.

In Alberta, Permolex International completed its first ethanol plant in Red Deer.

The plant processes feed grade wheat into fuel grade ethanol, but also produces bakery flour, wheat gluten and livestock feed.

In 2009, the company received \$23.2 million through the federal government’s ecoENERGY for Biofuels program for expansion of its ethanol capabilities.

The plant is one of the largest users of CPS wheat in Canada.

It sources wheat from all areas of Alberta and western Saskatchewan. Once expansion is complete, the company expects to expand its use of Ptarmigan and other CWGP wheats.

Though there have been proposals for several new ethanol production facilities on the Prairies, the economic climate has substantially hampered investment.

According to Ron Kehrig, manager of the biofuels and bioproducts division of Enterprise Saskatchewan, some of these plans “may not be dead, just parked.”

“The only thing one could say for sure right now is that there are five plants currently operating in the province, with a total design capacity of 342 million litres a year,” Kehrig said.

“But I think some of the new plants being proposed will become a reality.” ♦

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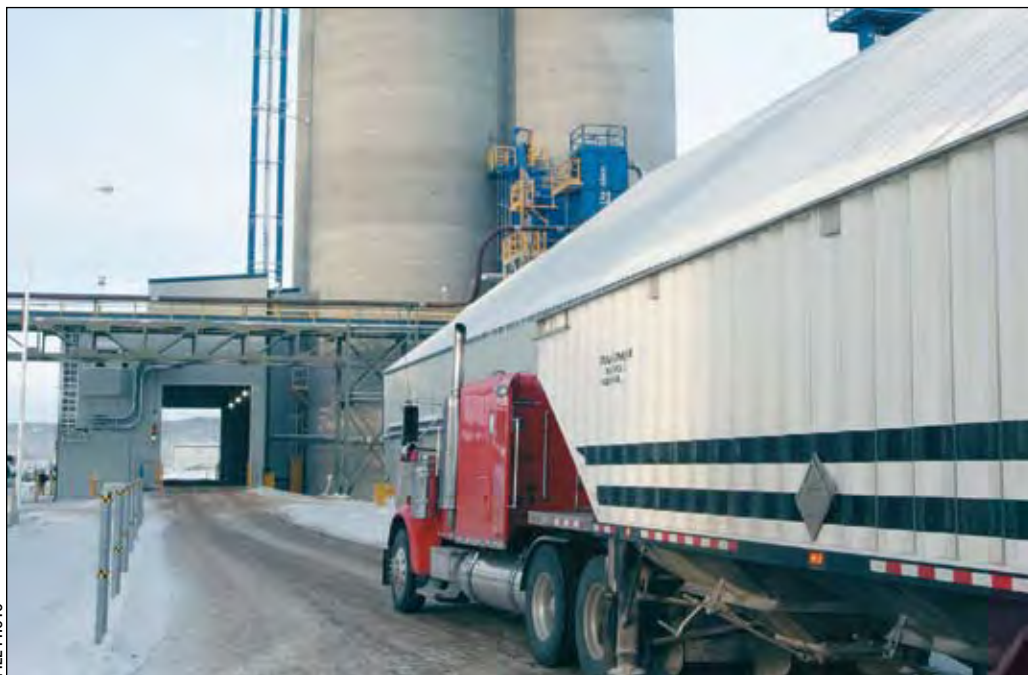


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New wheat protocol aims to keep deregistered varieties out of system



FILE PHOTO

With the elimination of KVD, there is an added onus on farmers and grain companies to keep accurate records and ensure that only registered varieties are being grown and delivered.

THREE YEAR HORIZON ALLOWS OLD VARIETIES TO PASS THROUGH THE SYSTEM, SAY OFFICIALS

By Darlene Polachic
Freelance writer

IN AN EFFORT to alleviate potential losses to farmers, the Canadian Food Inspection Agency and Canadian Grain Commission have recently adopted a new protocol that will inform grain producers of upcoming changes to the registration status of wheat varieties.

Under the new protocol, notices for all wheat varieties slated for deregistration will be released on Aug. 1 of each year.

Varieties proposed for deregistration will remain on the Canadian Grain Commission's Variety Designation List and the Canadian Food Inspection Agency's list for three years. This three-year phase-out period is designed to allow sufficient time to clear the value chain of all seed and grain of that variety.

The new protocol will also issue updates and directives to the industry through as many avenues as possible, say organizers.

"Once an announcement of deregistration of a specific variety is made, it will be the responsibility of the farmer to deliver any wheat of that variety to the handling system," said Daryl Beswitherick, acting manager of quality assurance for the Canadian Grain Commission.

"If it is done within the three-year period, the grower can still get top grade for the variety. After the three-year phase-out period, the wheat will grade out only as Canada feed wheat."

"The only illegality would be if a farmer misrepresented the variety on his declaration at the elevator."

—Daryl Beswitherick

to get a good price?" he said.

"The only illegality would be if a farmer misrepresented the variety on his declaration at the elevator."

Since the elimination of the kernel visual distinguishability (KVD) system for most

wheat classes in August 2008, farmers have been required to make an eligibility declaration, specifying which class of wheat they are delivering to the elevator.

KVD allowed grain inspectors to distinguish wheat classes visually and quickly at virtually no cost.

"(Under KVD) wheat had to look like the class in which it was registered," Beswitherick said.

"Each class has its own specific physical characteristics and is visually distinct from the others. Under KVD, anything in the red spring wheat category, for instance, had to look like red spring wheat. If it didn't, it couldn't be registered."

The elimination of KVD was intended allow the development and commercialization of new wheat varieties, regardless of their visual characteristics.

In the red winter wheat category for example, many promising new varieties were being developed, but none were registered because of visual restrictions imposed by KVD.

"The government deemed the regulation to be too restrictive, and said it interfered with



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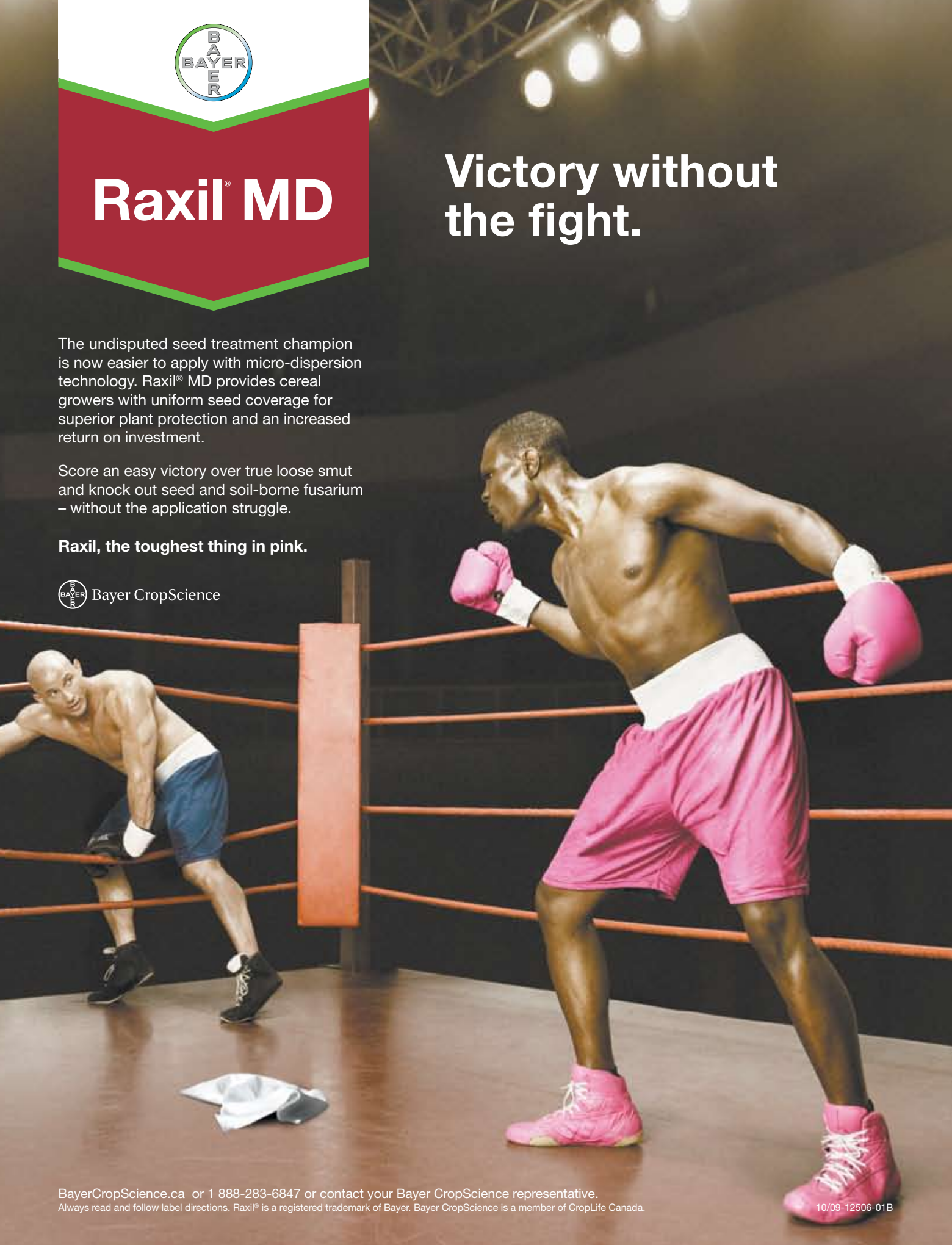
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REAP WHAT YOU SOW

Farmers encouraged to avoid economic losses, plant registered varieties



FILE PHOTO

BREEDERS WITHIN THE grain industry are continually working to produce new and improved wheat varieties for Canadian farmers.

In Canada, all registered varieties are put on the Variety Designation List, which is maintained by the Canadian Grain Commission.

“Any variety (of grain) grown in Canada must be registered,” says Daryl Beswitherick, a grain commission official.

“Once a variety is registered, (the commission) puts it on a Grain Variety Designation List, which means it qualifies for the highest grade in the class in which it is registered. Without the registration, wheat can only be sold as Canada feed wheat or, in the case of durum, the lowest grade for durum.”

According to Beswitherick, the Variety Designation List, was established a few years ago to ensure that producers were growing preferred varieties.

“Before that, wheat varieties were said to be equal to or better than Neepawa wheat, for instance. Now we have the list which enables any variety on the list to be eligible for the top grades in its class.”

The list includes eight Western Canadian wheat classes and all the varieties that are eligible for each class.

The grain industry uses the lists to keep ineligible varieties from compromising the quality of grain shipments and possibly causing problems for end users.

From time to time, and for various reasons, specific varieties are deregistered, or dropped from the list.

This can mean significant financial loss for farmers who plant wheat varieties that are no longer eligible for milling grades and top payment.

Cindy Pearson, an official with the Canadian Food Inspection Agency’s variety registration office, says the CFIA maintains a similar registration list for all agricultural crops grown in Canada.

By viewing this list, commercial producers can avoid economic losses and ensure they are growing registered seed varieties.

Commercial growers who produce crops from seed that has been saved from previous years should always check the registration status of the seed varieties they intend to plant, Pearson said.

Before planting any saved seed, farmers are advised to:

- Contact the company that sold the seed.
- Check the Canadian Food Inspection Agency’s list of registered varieties in Canada. This list can be found at <http://www.inspection.gc.ca/english/plaveg/variet/regvare.shtml>.
- Consult the Canadian Grain Commission’s variety designation lists. Go to the commission’s website at www.grainscanada.gc.ca and click on the link to variety designation lists.

— POLACHIC

CONTINUED FROM PAGE 22

breeders’ ability to develop new and better varieties,” Beswitherick said.

It could take several years to determine whether the elimination of KVD is a benefit to the grain industry as a whole, he added. “Time will tell,” Beswitherick said.

“Before, anyone in the grain handling system could instantly distinguish visibly between classes. That will be lost.

“On the other hand, this does remove a lot of restrictions for breeders who can now concentrate on building characteristics like yield, disease factors and agronomics in new varieties, rather than just appearance.”

According to Beswitherick, the presence of an unregistered wheat variety in a shipment of wheat bound for an overseas market could have unforeseen consequences.

Those will depend on how much of the deregistered variety is detected.

“Some tolerance is allowed,” he said.

“In red spring wheat, for instance, 1.5 percent would be allowed in No. 1 grade, three percent in No. 2 grade, and five percent in No. 3 and No. 4 grades.”

There is no traceback procedure to determine where an unregistered wheat variety originated.

“Keeping track would be up to individual elevator companies,” Beswitherick said.

“They would have to keep samples from each producer load and record which rail car it went into. Traceback is possible, but it would be quite a process.”

The Canadian Grain Commission is urging producers to be aware of what varieties they are planting.

Old or common seed supplies should be tested at a private lab before seeding. Farmers are also encouraged to buy certified seed to ensure varietal purity.

The commission also recommends good operating practices such as emptying and cleaning bins before storing grain, putting only one class of wheat in each bin, and keeping careful records.

If someone else is hauling a farmer’s grain to the elevator, they should be given clear instructions. Producers should try to be present when their grain is being loaded and unloaded.

For more information on registered wheat varieties and those that have been deregistered, check the Canadian Grain Commission website at www.grainscanada.gc.ca or the Canadian Food Inspection Agency website at www.inspection.gc.ca. ♦

Life after deregistration

By Darlene Polachic
Freelance writer

WHAT HAPPENS TO CROP VARIETIES AFTER THEY ARE DROPPED FROM THE VARIETY DESIGNATION LIST?

IN CANADA, EVERY registered variety of grain is listed on the Canadian Grain Commission's Variety Designation List, which is also posted on the Canadian Food Inspection Agency's website.

The list is reviewed, updated and posted quarterly as new and better varieties of grain are added and others are dropped or deregistered.

But what happens to deregistered varieties?

Daryl Beswitherick, a Canadian Grain Commission official, said deregistration generally occurs at the request of the variety's owner.

"One reason for such a request might be because the owner doesn't feel the variety is selling well enough," said Beswitherick.

"He doesn't want to keep paying the fee to keep the variety registered, so he applies to have it dropped from the list."

Before applying to deregister a variety, the registrant must check the availability of pedigreed seed and develop a disposal plan that is acceptable to seed growers in possession of seed.

To aid in this process, the commission has recently developed a wheat deregistration protocol that includes a three-year phase-out period. During the phase-out, growers can sell the

deregistered wheat variety through the primary handling system and still get the highest price for the grade.

After the three-year phase out, the variety can still be grown but production is limited.

"It just stops being grown, mostly because it is no longer economically viable," Beswitherick said. "By the time the three years has elapsed, it should be completely out of the grain handling system."

According to Beswitherick, it is neither illegal to grow deregistered seed, nor must a farmer in possession of a deregistered variety inform the grain commission.

"However, the grower must understand that if the deregistered variety is grown and sold into the primary elevator system, the variety must be declared, and deregistered wheat will only command Canada Feed Wheat grade."

Dorothy Murrell, managing director of the Crop Development Centre in Saskatoon, said deregistered varieties never disappear entirely.

"A small sample of germplasm will be kept in the gene bank at the Plant Gene Resource Centre for Cereal Crops. This is a resource bank for all of Canada, and is located in Saskatoon," she said.

"If the deregistered variety has had some past merit in the marketplace, it may well have been used in a crossing program to produce a new variety. Breeders are always making new crosses and trying to choose the best parent material."

Organic farmers often grow deregistered varieties and heritage varieties that predate registry.

The new wheat deregistration protocol does not hamper those growers in any way, said Marc Loiselle, an organic farmer from Vonda, Sask.

"It isn't a problem, because I don't move my grain through the regular systems," said Loiselle, who grows Red Fife wheat, a variety that is more than 100 years old and predates registration.

He sells Red Fife through the Canadian Wheat Board because his markets are in the U.S. He needs an export permit in order to get his product across the border.

"With CWB approval, I sell my wheat as feed wheat to the States, but after that, it's a producer direct sale," he said.

"I set my own price to the buyer."

Loiselle said Red Fife is in demand among artisan bakers and millers who consider it to be superior to other varieties. ♦

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DNA test nears completion

By Shannon Moneo
Freelance writer

DNA TESTS ARE ALREADY AVAILABLE FOR BLENDED LOTS OF MIDGE TOLERANT WHEAT

THE PRAIRIE WHEAT industry could soon have access to a powerful new tool that categorizes wheat by its DNA.

About a year ago, the Saskatchewan Research Council signed an agreement with Agriculture Canada to develop a test that could replace varietal declarations and identify wheat varieties with a high degree of accuracy.

“It will be a huge marketing tool,” said Tajinder Grewal, a research scientist working on the project at the SRC’s GenServe Laboratories in Saskatoon.

“Canada has a very good reputation that it produces good quality grain. We have to protect that reputation.”

When the kernel visual distinguishability (KVD) test was eliminated by the federal government in 2008, the need for a reliable wheat test became apparent.

The development of a DNA test will ensure traceability and enhance quality control.

The system will also mitigate risk for farmers and grain handling companies by ensuring that fewer grain shipments are downgraded at the last minute or rejected due to the presence of unregistered varieties.

The new system uses advanced DNA-based technology developed between 2000 and 2008 by Agriculture Canada.

The technology uses single nucleotide polymorphism (SNP) as a way to analyze DNA and distinguish between wheat varieties and classes.

Identifying wheat by its DNA requires a system that analyzes chromosomes and recognizes unique DNA markers on those chromosomes.

There are thousands of DNA markers on a single chromosome and a single marker will not accurately distinguish one wheat variety from another.

Many markers must be tested to get an accurate result.

As well, each class of wheat has different DNA configurations, said SRC project leader Kimberly Bryce.

For example, DNA from durum wheat varieties is less complex than DNA from red spring wheat varieties.

Because durum is less complex, Bryce predicted that a durum identification test could be ready this year.

The next priority is CWRS, the most popular wheat class in Canada.



FILE PHOTO

The elimination of kernel visual distinguishability highlighted the need for a new system that could identify wheat by its DNA. The Saskatchewan Research Council’s goal is to have a system that will identify roughly 100 wheat varieties in several different wheat classes.

Because there are many varieties within the class, Bryce couldn’t estimate when the test would be available.

The SRC’s goal is to have a system that will identify roughly 100 wheat varieties in several different wheat classes, she added.

When work began on developing a reliable DNA test, the grain handling industry indicated that a 24-hour turnaround time was critical.

If samples are submitted by a grain handling company by Monday noon, for example, results should be available by Tuesday noon.

Grewal said scientists working on the project are trying to determine whether a 24-hour turnaround is achievable.

After that, they will determine what volume of wheat can be analyzed in a 24-hour period.

Once the technology is licensed beyond SRC, Grewal predicts that large grain handling companies like Cargill or the Canadian Wheat Board will set up their own testing facilities.

As the technology evolves, smaller grain companies and perhaps farmers could have their own facilities.

But for now, a “driveway test” is a long way off, Grewal said.

According to Bryce, most tests that involve DNA analysis must be conducted in a closely controlled lab environment.

“People are talking about using a black box at the elevator,” she said.

“With our technology, testing has to be done in a controlled environment. The test must be run in a lab because DNA is so fragile.”

The SRC has also developed a DNA test to determine the ratios of four varietal blends of midge-tolerant wheat that will be available to farmers this year and next.

The tests were developed to ensure that midge tolerant blends meet the prescribed 90 percent midge tolerant and 10 percent midge susceptible ratio.

For now, all testing on midge tolerant wheat is being conducted at the SRC facility in Saskatoon.

Given the complexity of the analysis and equipment required, it’s unlikely a second lab will be operating anytime soon.

The price of having a midge tolerant sample tested at the SRC lab varies depending on the pedigree.

A select sample of approximately 950 seeds costs about \$400, Bryce said.

A registered or foundation sample of roughly 400 seeds costs \$175.

A certified sample of roughly 200 seeds costs about \$100.

Wheat from the three prairie provinces and possibly B.C. will be tested.

The five-year, \$9 million project to develop DNA based wheat testing systems was funded by the federal and Saskatchewan governments.

GenServe Laboratories’ reputation as one of North America’s leading facilities for plant and animal genetic research, makes it a leading site for such work.

The lab also does molecular marker testing and development, parentage identification and DNA fingerprinting. ♦

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New clubroot resistant canola varieties make debut in 2010

DEMAND FOR NEW VARIETIES IS HIGH BUT SEED SUPPLIES WILL BE LIMITED



PHOTO COURTESY OF PIONEER HI-BRED

Pioneer Hi-Bred's 45H29 is the first clubroot resistant canola available to prairie producers. The new variety will be available in limited quantities for spring 2010 planting. Monsanto Canada is hoping to have at least one variety available this spring, although commercialization hinges on an emergency recommendation by the Western Canadian canola and rapeseed recommending committee next month.

PRAIRIE CANOLA

GROWERS will get their first look at a new clubroot resistant canola variety this spring.

45H29, a Roundup Ready hybrid developed by Pioneer Hi-Bred, is the first canola variety that offers clubroot resistance.

The company field tested it in the Edmonton area where the clubroot pathogen has disrupted canola growing operations and forced thousands of acres out of production.

Seed availability will be limited but Rachel Faust, Pioneer Hi-Bred's marketing communications manager, said the company should have enough seed to supply all clubroot-infected areas.

Seed supplies will be more abundant next year, allowing commercial production of 45H29 over a greater area.

"We developed the variety to address the Edmonton area need, but we're seeing demand all across Saskatchewan because 45H29 has over one bushel yield advantage over 45H28," Faust said.

Agronomically, the variety stands up well against the check varieties.

In pre-registration testing, yields were 28 percent higher than the check varieties 46A65

By **Stephanie Banks**
Freelance writer

and Q2. It also matured half a day earlier than the checks and is rated R for blackleg resistance.

Faust said farmers can expect 45H29 to cost about the same as other hybrid varieties. Seed is only available from Pioneer Hi-Bred sales representatives.

Monsanto Canada is also hoping to have at least one clubroot resistant variety available by spring 2010, and possibly as many as three.

Cornie Thiessen, Dekalb's marketing manager in Winnipeg, said commercialization of the new varieties is contingent on a favourable ruling from the Western Canadian canola rapeseed recommending committee (WCCRRC), registration by the Canadian Food Inspection Agency and successful off-season multiplication of the seed.

"We're reliant on WCCRRC granting us interim registration on the varieties," he said.

Normally, the committee does not recommend a new canola line for registration until two years of agronomic data have been compiled.

In some instances, however, a line with less than two years of data will be recommended for emergency registration.

"We believe the presence of clubroot on Alberta farms is an ongoing emergency situation for growers and they need access to solutions that are

widely available from as many seed suppliers as possible," Thiessen said.

"Growers like to have choices when it comes to purchasing seed and we would like to see those choices become more readily available to them."

If approved, Monsanto's clubroot varieties would be incorporated into the company's Dekalb 73 series of canola hybrids.

The clubroot resistant varieties are currently being multiplied at an off-season production facility in Chile.

If the new lines get a green light from the recommending committee in late February, Monsanto would unveil them immediately and could begin marketing shortly after, pending registration by the Canadian Food Inspection Agency.

Supplies of the new varieties would be limited and targeted specifically for areas where clubroot infestation is a concern, Thiessen said.

Bayer Crop Science plans to have its first clubroot resistant variety available by 2012.

So far, clubroot damage has been limited to Alberta but industry experts warn that the pathogen could threaten Saskatchewan's \$1.5 billion canola industry.

"We've already confirmed that the clubroot pathogen is here, in one soil sample in western

CONTINUED ON PAGE 30

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AN OUNCE OF PREVENTION

Canola industry officials urge farmers to use smart agronomic practices to prevent the spread of clubroot.

OFFICIALS FROM THE Canola Council of Canada say maintaining clean farm equipment and vehicles is key to limiting the spread of clubroot.

In particular, producers in high risk areas are urged to clean equipment thoroughly before moving into another field.

"You can start by knocking off the big, loose stuff, use (compressed) air, high pressure water to get at the rest," agronomist John Mayko told the Western Producer.

"And we are recommending a weak bleach solution to finish. I know many producers want to avoid the bleach due to its corrosive properties, especially with all the electronics and hydraulics on modern equipment, but it's the best science we have on the subject right now."

In Alberta, provincial plant pathologist Ron Howard is leading a project to test alternative biocide cleaning products at a research facility in Brooks, Alta.

One such product is Virkon, a veterinary bactericide and fungicide.

The potassium monopersulfate product is used to clean and disinfect agricultural buildings, veterinary hospitals and food processing plants.

Mayko said the prairie provinces, industry organizations and crop genetic and pesticide companies are investing in future control methods, but developing a cleaning routine on the farm remains the best approach.

Producers should also follow these preventive measures.

■ Rotate cruciferous crops

The recommended frequency for cropping canola on the same field is once in every four years.

■ Keep it clean

Moving clubroot-infected soil on vehicles and equipment spreads the disease.

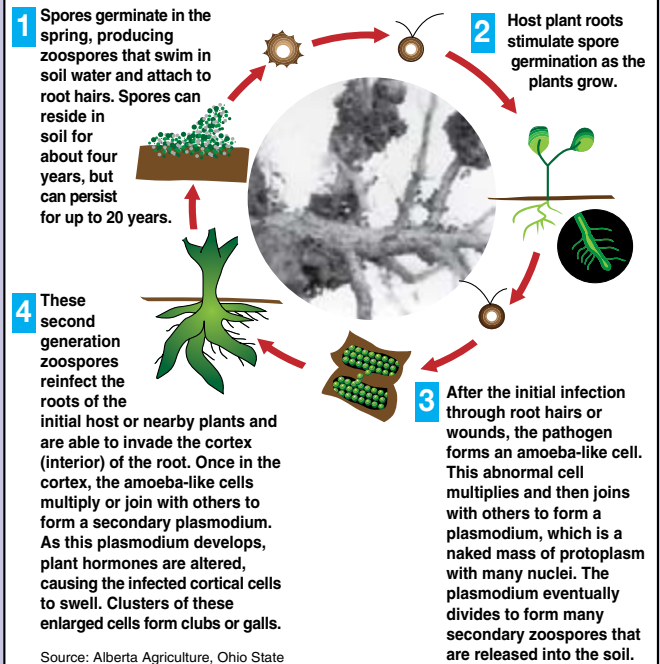
Inspect and thoroughly clean any equipment before it enters your land. Move suspicious equipment onto a lawn and use a power washer to remove dirt and plant debris. Clean equipment before moving to a new field.

■ Check crops often for signs of the disease

Look for stunted plants, yellowing, wilting, premature ripening and shrivelled seed. Check field entrances carefully. That's where the first signs of clubroot often appear. Pull up yellow or wilted plants and check for deformed, club-like roots.

■ Control cruciferous weeds

The clubroot life cycle



Cruciferous weeds affected by clubroot include stinkweed, shepherd's purse, wild mustard, wintercress, yellow rocket and peppergrass. Vigilant control of volunteer canola and mustard also reduces the risk of infection.

■ Prevention first, control as a last resort

Controlling clubroot with fungicides is cost prohibitive for large crops so preventing the spread of the disease is critical.

Using lime or calcium compounds to raise soil pH levels to 7.0 inhibits spore germination, but is expensive and unreliable.

— BANKS

CONTINUED FROM PAGE 28

central Saskatchewan," said Pat Flaten, research manager for the Saskatchewan Canola Development Commission in Saskatoon. The positive soil sample was identified in 2008 during the annual canola disease survey.

In that survey, soil from 150 Saskatchewan fields was sampled and 30 samples were sent for analysis.

Murray Hartman, oilseed specialist with Alberta Agriculture, has witnessed clubroot's damaging effects on Alberta's canola crop.

"This disease is more virulent than other strains on canola. It's never going to go away," he said.

"The spores last for up to 20 years in the soil and will happily live off weeds. We should expect clubroot in all the prairie provinces."

According to Randy Kutcher, plant pathologist for Agriculture Canada, clubroot is transported by soil so the pathogen can unknowingly be

carried on muddy shoes, vehicle tires, animal hoofs, or even in potted plants.

The first clubroot-infected canola plants were found in about a dozen fields near Edmonton in 2003.

By 2009, the quick-spreading disease had infected approximately 500 fields in a 20,000 square kilometre area.

The disease has also been reported near Brooks, Alta.

Decaying roots from clubroot-infected plants produce spores that can survive for 20 years.

Clubroot thrives in warm temperatures of 20 C and in acidic, high-moisture soil with a pH below 6.6.

The disease causes cruciferous plants to grow club-like roots called galls.

The galls reduce absorption of water and nutrients, causing stunted plant growth, wilting, yellowing, premature ripening and shrivelled seeds.

Faye Dokken, plant disease specialist with Saskatchewan Agriculture, said although the pathogen has been detected in a Saskatchewan soil sample, there have been no reports of infected fields or galls.

Nonetheless, farmers should watch for clubroot symptoms and adopt management techniques that reduce the risk of infection.

"The good news is that we have not seen any of these symptoms in the fields we've surveyed," said Dokken.

Albertans have discovered that clubroot also thrives in fields where canola is planted in successive years.

"Farmers are telling me that they find a patch the size of a table top the first year, more the second year and by the third crop year, the whole field was infected," said Hartman.

"Farmers wouldn't want to lose their most profitable crop. That's why everyone's concerned." ♦

Ascochyta blight raises concern among pea growers

PRODUCERS SHOULD SCOUT FIELDS REGULARLY, MINIMIZE LODGING

By Shirley Byers
Freelance writer

PEA PRODUCERS WHO harvested lower than expected yields last fall have identified ascochyta blight as the potential culprit.

Three different fungi can cause ascochyta blight.

Ascochyta pinodes, also referred to as mycosphaerella blight, is the most common in Western Canada. It can affect roots, leaves, stems, flowers and pods.

The others, ascochyta pinodella and ascochyta pisi, also affect crop development but they are less common and less likely to cause significant yield loss.

Occurring at any time during the growing season, ascochyta lesions reduce the green photosynthetic tissue of the plant, limiting production of the starches and sugars required to fill the seed pods.

The result is reduced yields.

If the stem base is infected, yield losses and lodging can occur.

Ascochyta produces small purplish-brown irregular flecks under the plant canopy, on lower leaves, stems and tendrils.

Under continued humid conditions, the flecks spread into each other, covering the lower leaves. Stem lesions are purplish-black and may extend above and below the soil line.

Pod lesions begin as small, dark spots but may become extensive and lead to early pod aging.

Affected seed may show no symptoms or may look normal but be smaller than usual. In severe infections, seeds may be shrunken or discoloured.

Ascochyta management strategies include crop rotations, straw chopping, harrowing to speed decomposition of pea residue and

selecting resistant varieties.

To limit the risk of ascochyta, producers should choose proper seeding times and depths.

Crops should not be planted when soils are cold, nor should seeds be sown too densely.

Growers should also choose a variety with good lodging rating and avoid fields with excess nitrogen. These practices help reduce disease impact by minimizing lodging.

Having seed tested at an accredited lab for germination and seed-borne diseases is recommended.

Seed treatments are also available.

Growers should scout fields during the vegetative stage.

If symptoms do not move beyond the lower third of the plant canopy at flowering, then the risk of yield loss is low and fungicide application should not be required. ♦

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In 2009, the following new lines were recommended for registration.



LINSEED FLAX

FP2242 – This linseed flax line has significantly higher yields than the check variety Flanders in the brown soil zone and similar yields to the check in all other zones. Seed weight is significantly higher than Flanders. This new line offers immunity to rust and moderate resistance to fusarium wilt.

Information for this report was supplied by the Prairie Recommending Committee for Oilseeds (PRCO), 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 2009, please visit the PGDC website at www.pgdc.ca.



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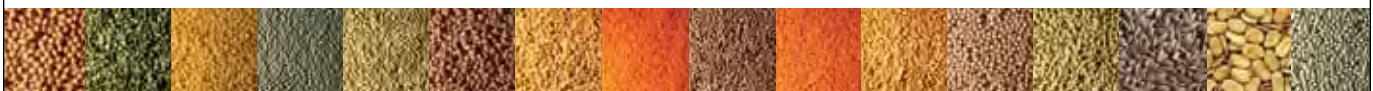
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Wheat, rye and triticale

THE PRAIRIE RECOMMENDING COMMITTEE FOR WHEAT, RYE AND TRITICALE EVALUATES CULTIVARS OF WHEAT, RYE AND TRITICALE. AFTER NEW CULTIVARS ARE EVALUATED, THE COMMITTEE DETERMINES WHICH LINES ARE SUITABLE FOR REGISTRATION AND MAKES RECOMMENDATIONS TO THE CANADIAN FOOD INSPECTION AGENCY VARIETY REGISTRATION OFFICE.

In 2009, the following new lines were recommended for registration.

BW394 is CWRS wheat variety registered as Shaw. It is resistant to the orange wheat blossom midge. The variety was developed at Agriculture Canada's Cereal Research Centre in Winnipeg.

BW406 is a high-yielding CWRS wheat variety released as Glenn in the United States. It offers intermediate fusarium head blight resistance with low DON accumulation. The line was developed at North Dakota State University.

BW880 is a CWRS wheat line with improved leaf spot resistance. It was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon.

BW881 is a CWRS wheat line developed at the U of S Crop Development Centre in Saskatoon. It is a new check in the Western Bread Wheat Cooperative Registration trial.

BW883 is a CWRS wheat line with orange wheat blossom midge resistance. It was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon.

PT575 is a CWRS wheat line with resistance to Clearfield herbicides and intermediate maturity. It was developed at the University of Saskatchewan's Crop Development Centre in Saskatoon.

BW874 is a CWRS wheat variety registered as Carberry. It offers improved fusarium head blight tolerance. This variety was developed at Agriculture Canada's Semiarid Prairie Agricultural Research Centre in Swift Current, Sask., and is a new check in the Western Bread Wheat Cooperative Registration trial.

BW875 is a CWRS wheat variety registered as Muchmore. It was developed at Agriculture Canada's Semiarid Prairie Agricultural Research Centre in Swift Current, Sask.

BW878 is a CWRS wheat line with early



maturity. It was developed by Syngenta Seeds Canada.

DT787 is a CWAD variety registered as Enterprise. It offers improved fusarium tolerance. Enterprise was developed at Agriculture Canada's Semiarid Prairie Agricultural Research Centre in Swift Current, Sask.

BW315a is a CWHWS wheat variety that received interim registration as Snowstar. The variety, developed at Agriculture Canada's Cereal Research Centre in Winnipeg, was supported for full registration in 2009.

HY682 is a CPSR wheat variety with resistance to the orange wheat blossom midge and Hessian fly. It was developed at Agriculture Canada's Cereal Research Centre in Winnipeg.

HY475 is a CPSW wheat variety, also known as Snowwhite475. It was granted an extension of interim registration to allow orderly disposal of pedigreed seed from the pedigreed and commercial seed channels. The line was developed at Agriculture Canada's Semiarid Prairie Agricultural Research Centre in Swift Current, Sask.

HY476 is a CPSW wheat variety, also known as Snowwhite 476. It was granted an extension

of interim registration to allow orderly disposal of pedigreed seed from the pedigreed and commercial seed channels. The line was developed at Agriculture Canada's Semiarid Prairie Agricultural Research Centre in Swift Current, Sask.

O3SPELT4 is a high yielding spelt wheat line developed at the University of Saskatchewan's Crop Development Centre in Saskatoon.

DH99-55-2 is a CWGP winter wheat variety registered as Sunrise. It was developed at the University of Saskatchewan in Saskatoon.

DH99W19H*16 is a CWGP winter wheat line developed at the University of Manitoba in Winnipeg.

DH99W31N*34 is a CWGP winter wheat line developed at the University of Manitoba in Winnipeg.

GP003 is a CWGP spring wheat line developed at the University of Saskatchewan's Crop Development Centre in Saskatoon.

GP010 is a CWGP spring wheat line developed at Agriculture Canada's Semiarid Prairie Agricultural Research Centre in Swift Current, Sask.

Information for this report was supplied by the Prairie Recommending Committee for Wheat, Rye and Triticale (PRCWR), a committee of the Prairie Grain Development Committee (PGDC), with special thanks to Robert Graf and Brian Beres. For more information on the PGDC and other crop lines that were recommended for registration in 2009, please visit www.pgdc.ca.

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Oats and Barley

THE PRAIRIE RECOMMENDING COMMITTEE FOR OATS 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.

In 2009, the following new lines were recommended for registration.

OATS

OT2036 – OT2036 is a spring oat variety developed by Agriculture Canada.

BARLEY

BT980 – Also known as Celebration, BT980 is a six row malt barley line developed by Busch Agricultural Resources Inc. It offers excellent agronomic performance and malt quality. The line is moderately resistant to septoria and net blotch and has improved reaction to fusarium head blight and consistently lower DON content. The Canadian agent is Viterra.

BT984 – Also known as Stellar-ND, this six row malt barley has a significantly earlier heading date than Tradition and Lacey. It offers fair to good lodging resistance, fair to good tolerance to straw breaking, fair tolerance to drought and good malting characteristics. It is resistant to spot blotch, and is moderately susceptible to fusarium head blight and net blotch. This line was developed by the North Dakota State University Research Foundation. The Canadian agent is Busch Agricultural Resources Inc., Canada.

SR420 – SR420 is a white aleurone six-row malting barley. In pre-registration tests it outyielded malting checks, Legacy and Excel, in both 2006 and 2007. SR420 has good kernel physical characteristics, being similar to the malting checks for kernel plumpness but has higher test and kernel weight. Its disease resistance is similar to the malting checks. SR420 has good overall malting quality similar to Excel and Legacy. This line was developed by the Crop



Development Centre at the University of Saskatchewan.

TR06294 – This two row hulled malt barley line is widely adapted to conditions across Western Canada. In two years of testing across all soil zones, it outyielded AC Metcalfe by nine percent. TR06294 has a desirable malting quality profile with consistently higher malt extract and lower soluble protein content than AC Metcalfe. It combines good agronomic performance with an excellent disease resistance package, including resistance to loose and surface borne smuts, moderate resistance to spot blotch, spotted net blotch and fusarium head blight, and moderate resistance to common root rot and stem rust. TR06294's desirable combination of agronomic traits, disease resistance and malting quality, particularly high grain yield and malt extract, should make it a useful two-row malting barley for western Canadian producers and the malting and

brewing industry. The line was developed by Agriculture Canada.

TR06297 – Registered as Major, this two row malt barley is widely adapted to Western Canada and offered a nine percent yield advantage over AC Metcalfe during two years of testing across all soil zones. It has shorter, stronger straw and heavier, plumper kernels than AC Metcalfe combined with similar days to heading and maturity. TR06297 has an excellent disease resistance package, including resistance to spotted net blotch and loose smut, moderate resistance to spot blotch, surface borne smuts and fusarium head blight (FHB), and moderate resistance to netted net blotch and stem rust. TR06297 has a malting quality profile similar to AC Metcalfe. The variety was developed by Agriculture Canada. Distribution rights have been acquired by Viterra.

TR07728 – This two row feed barley was developed by WestBred LLC in Bozeman, Montana. The Canadian agent is Viterra.

HB402 – This two row hullless barley line was developed by the Crop Development Centre at the University of Saskatchewan. It was registered as CDC ExPlus on May 15, 2009.

HB705 – HB705 is a two row hullless malt barley developed by Agriculture and Agri-Food Canada. Distribution rights have been acquired by Alliance Seed Corp. HB705 yielded eight percent less than CDC McGwire over three years of testing, but it matured earlier than CDC McGwire, had stronger straw and produced heavier, plumper kernels. The variety performed the best in the black and black-grey soil zones of Western Canada. HB705 has an average disease resistance package with notably lower fusarium head blight reaction and deoxynivalenol accumulation than the check.

FB313 – This forage barley was developed by WestBred LLC in Bozeman, Montana. The Canadian agent is Viterra.

Some of the information contained in this report was supplied by the Prairie Recommending Committee for Oats and Barley (PRCOB), 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 2009, please visit www.pgdc.ca.

Lillian

expands prairie acreage

By Shannon Moneo
Freelance writer

LILLIAN WHEAT IS continuing to gain ground on Western Canadian farms, according to the Canadian Wheat Board's 2009 annual variety survey.

Registered in 2003 and introduced three years later, the Canada Western Red Spring variety captured about four percent of Saskatchewan's CWRS acreage in 2006, jumping to 19 percent in 2007, 24 percent in 2008 and 27 percent in 2009.

Lillian is a solid stemmed variety that was bred to withstand the wheat stem sawfly.

Mike Grenier, a CWB agronomist, said Lillian was a "step forward" in the CWRS class. Its promise of sawfly resistance led to quick adoption by Saskatchewan wheat growers.

Lillian is not completely immune to sawfly damage but its solid stem reduces damage considerably.

The variety is also gaining favour among farmers because of its good yield potential.

Some producers who don't have sawfly problems are choosing it solely for yield.

Cecil Reisner grows roughly a dozen varieties of pedigreed wheat and barley near Limerick, Sask.

He said Lillian is a popular seller.

"The sawfly bothers us quite a bit in this area," Reisner said.

While Lillian is gaining ground, three older CWRS varieties — AC Barrie, Superb and McKenzie — are all declining because newer varieties such as Harvest and Infinity produce higher yields and more protein, said Grenier.

Harvest, first grown in 2006, has been gaining popularity, particularly in the Yorkton-Melville area, thanks to its improved sprouting resistance and ability to withstand adverse weather, he said.

Infinity offers excellent yield potential and can be grown across all soil zones.

Both have good leaf rust resistance, an important factor in eastern Saskatchewan.

The decline of AC Barrie has been occurring slowly over the past decade.

In 1999, Barrie accounted for 51 percent of CWRS acres seeded in Saskatchewan. In 2009, it accounted for less than seven percent.

Grenier said the growing popularity of midge tolerant wheat varieties will lead to further declines of older CWRS varieties.

In the Canada Western Amber Durum class, Strongfield continued to cement its hold on Saskatchewan farms.

Introduced in 2006, Strongfield grabbed 63 percent of CWAD acres seeded in 2009, up from 52 percent in 2008.

Kyle acreage was down to 11 percent from 18 in 2008 and AC Avonlea dropped to 15 percent from 17 percent in 2008.

Strongfield offers the best yields in its class.

Its strength, colour and low cadmium content also give it an edge among buyers, especially those in the Europe.

Grenier said CWRS and CWAD varieties account for the vast majority of wheat grown in the province. About 93 percent of the wheat grown in Saskatchewan is either red spring and amber durum.

Grenier said there were some notable trends in other classes as well.

For the Canada Western Extra Strong class, Burnside and CDC Rama dominated production at 60 percent and 36 percent of seeded acreage respectively.

Burnside's phenomenal growth from 11 percent in 2008 to 60 percent in 2009 has relegated Glenlea and Walrus to minor acreage crops.

In the Canada Western Soft White Spring class,

AC Andrew has significant growth potential, Grenier said.

AC Andrew captured almost 100 percent of seeded CWSWS acres in 2009.

Its high starch and low protein levels, coupled with high yields, make it an attractive option.

Drawbacks include late maturation, poor sprouting tolerance and high susceptibility of fusarium head blight, Grenier said.

CWSWS varieties are grown primarily for the ethanol market.

In barley, AC Metcalfe remained king in 2009.

Last year, it accounted for 58 percent of all two-row malting acres seeded in the province.

CDC Copeland was second at 28 percent.

Harrington, which held the number one spot for about 15 years, accounted for just one percent of seeded acreage last year.

According to Grenier, two-row malting varieties accounts for roughly 74 percent of all barley seeded in Saskatchewan.

According to Bill Legge, a plant breeder with Agriculture Canada, there are at least four new two-row malting varieties that could take a bite out of Metcalfe's acreage.

Major, registered in 2009, is similar to Metcalfe but offers higher yields and improved straw strength. CDC Meredith, meanwhile, is higher yielding and has a consistently lower protein content than AC Metcalfe.

Also en route is CDC Reserve, which offers improved sprouting resistance, and Norman, which offers better protection against fusarium.

Commercial seed supplies for the new varieties are not likely to be available until 2011 at the earliest.

"They're quite interesting, in effect something a lot different," Legge said. ♦



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THE PRAIRIE RECOMMENDING COMMITTEE FOR PULSE AND SPECIAL CROPS TESTS AND EVALUATES PULSE AND SPECIAL CROP LINES FOR REGISTRATION IN WESTERN CANADA

In 2009, the following new lines were recommended for registration.

DRY BEANS

BK05-009 is a high yielding black bean line with upright indeterminate growth habit (Type 2) and early maturity. Seeds of BK05-009 are black with an intermediate (matte shiny) seed luster or glossiness. BK05-009 is well adapted to the Red River Valley of Manitoba with maturity earlier than the check cultivars AC Harblack and CDC Jet. It has a lower incidence to white mould than AC Harblack but is similar to CDC Jet. The line was developed by Agriculture and Agri-Food Canada.

Eclipse is a high yielding black bean variety with a Type 2a indeterminate, upright growth habit and matte black seed. It also has good pod height, which is ideal for direct harvest. It has excellent lodging resistance and exhibits both plant and pod maturity concurrently. It was developed by the North Dakota State University.

170A-96048 is a high yielding navy bean line with upright indeterminate growth (2a), good seed quality and late-maturity. 170A-96048 is adapted to the Red River Valley of Manitoba. It matures seven days later than the check cultivar Envoy but similar to AC Cruiser. It has moderate resistance to common bacterial blight. The line was developed by Agriculture and Agri-Food Canada.

056C-96204 is a high yielding navy bean line with upright indeterminate growth (2a), good seed quality and early maturity. 056C-96204 is adapted to the Red River Valley of Manitoba and has moderate resistance to common bacterial blight. The line was developed by Agriculture and Agri-Food Canada.

OAC 05-1 is a navy line that has excellent yield potential, improved pod clearance and maturity similar to Envoy. This line also has resistance to both races of anthracnose, race 73 and race 105. The target production area for OAC 05-1 is the Manitoba escarpment



area and south eastern Saskatchewan. The line was developed by the University of Guelph.

T65081 is a high yielding navy bean line with a Type 2a indeterminate, upright bush growth habit. In trials, it has shown a lower common bacterial blight incidence relative to Envoy. T65081 is adapted to the Red River Valley of Manitoba. The line was developed by Hyland Seeds, a division of Thompsons Limited.

2005s-1 is an indeterminate (Type 2a) pinto bean line with excellent seed coat colour and early maturity. Although the yield potential is below that of CDC Pintium, it is more than offset by the premium being offered to producers for the better seed colour. The line was developed by the Crop Development Centre at the University of Saskatchewan.

2793CBB is an indeterminate (Type 2a) pinto bean line with excellent seed coat colour, early maturity and yields similar to

CDC Pintium. It has tolerance to anthracnose races 73 and 105 with white mould scores better than CDC Pintium. The line was developed by the Crop Development Centre at the University of Saskatchewan.

Mariah (B0800) is an indeterminate (Type 2b) pinto bean line with earlier maturity than Maverick in Manitoba trials. Mariah has a more erect growth habit with improved lodging resistance relative to Maverick. It is resistant to BCMV (I allele) and rust race 53. Mariah is adapted to the Red River Valley of Manitoba. The line was developed by Seminis Vegetable Seeds.

Medicine Hat (B0813) is an indeterminate (Type 2b) pinto bean line with earlier maturity than Maverick in Manitoba trials. Medicine Hat has a more erect growth habit than Maverick with improved lodging resistance. It is resistant to the NY15 race of BCMV and to rust race 53. Medicine Hat is adapted to the Red River Valley of Manitoba and the pinto bean growing areas of Alberta. The line was developed by Seminis Vegetable Seeds.

SR05-008 is a high yielding small red bean with good seed quality, partially upright indeterminate growth (2a), and early maturity. SR05-008 is well adapted to the Red River Valley of Manitoba, with maturity six days earlier than the check cultivar, AC Scarlet. The average yield of SR05-008 is 4.4 percent higher than AC Scarlet. SR05-008 is susceptible to white mould, anthracnose races 73 and 105, and common bacterial blight. The line was developed by Agriculture and Agri-Food Canada.

GS 780 is an upright, indeterminate (2a) small red bean with high yield potential and small seed size. It is resistant to races 73 and 105 of anthracnose and is adapted to the Red River Valley of Manitoba. The line was developed by Gowan Seeds.

Myasi is a high yielding yellow bean genotype with a determinate (Type 1), upright growth habit and yellow bean seed. It is adapted to the dry bean growing areas of Alberta. The line was developed by ADM.

FABA BEANS

NPZ 4-7520 is a high yielding zero-tannin faba bean that has exceptional lodging resistance, average maturity and medium-large seed size. It was developed by

Norddeutsche Pflanzenzucht Hans-Georg Lembke KG (NPZ) of Germany.

NPZ 5-7680 is a high yielding tannin faba bean that has very good lodging resistance, slightly later maturity than check varieties and medium-large seed size. The line was developed by Norddeutsche Pflanzenzucht Hans-Georg Lembke KG (NPZ) of Germany.

LENTILS

1897T-30a is an extra small red lentil with improved yield potential over CDC Robin. The seed type is suitable for markets in South Asia and the Middle East. The line was developed by the Crop Development Centre at the University of Saskatchewan.

2271-5 is a small red lentil with improved yield potential over CDC Redberry and some tolerance to stemphylium blight. The seed type should be well suited to lentil milling markets around the world. The line was developed by the Crop Development Centre at the University of Saskatchewan.

2275-15 (CDC KR-1) is a large red lentil with improved yield potential over CDC Redberry. The large seed type is suitable for new markets in the Middle East and South Asia. The line was developed by the Crop Development Centre at the University of Saskatchewan.

2321-6 is a small red lentil with improved yield potential over CDC Redberry and increased plant height. The seed type

should be well suited to lentil milling markets around the world. The new line was developed by the Crop Development Centre at the University of Saskatchewan.

3056-12 is a medium green lentil with a green seed coat and green cotyledons. It offers improved lodging tolerance over the check varieties and the seed type should be suitable for new premium specialty markets. The line was developed by the Crop Development Centre at the University of Saskatchewan.

IBC-187 (CDC Imax CL) is a medium red lentil with Clearfield resistance – the first lentil in this class tolerant to imidazolinone herbicides. The yield potential is higher than the small red CDC Impact. Plant height is higher than the check varieties. The seed type is suitable for markets in some Middle Eastern and some south Asian markets. The line was developed by the Crop Development Centre at the University of Saskatchewan.

IBC-194 (CDC Impower CL) is a large green lentil with Clearfield resistance and improved seed coat colour relative to CDC Improve. Plant height is higher than other Clearfield checks. The seed type is suitable for large green lentil markets in Europe, Middle East and South America. The line was developed by the Crop Development Centre at the University of Saskatchewan.

PEAS

CDC 1897-3 is a semi-leafless yellow

cotyledon pea with improved yield potential relative to check varieties Cutlass and Eclipse. CDC 1897-3 is resistant to powdery mildew and has good lodging resistance, similar to the checks. It was developed by the Crop Development Centre at the University of Saskatchewan.

CDC 1897-14 is a semi-leafless yellow cotyledon pea with improved yield potential relative to check varieties Cutlass and Eclipse. It is resistant to powdery mildew and has good lodging resistance, similar to the checks. The new line was developed by the Crop Development Centre at the University of Saskatchewan.

LAN 4188 is a semi-leafless yellow cotyledon pea with a similar yield potential to check varieties Cutlass and Eclipse. It is resistant to powdery mildew with lodging resistance similar to Eclipse and slightly better than Cutlass. Vine length is longer than the check varieties. The line was developed by Lima Grain Nederland.

CDC 1932-201 is a semi-leafless green cotyledon pea with improved yield potential over check varieties CDC Striker and Cooper. It is resistant to powdery mildew, which is an improvement over the green check CDC Striker. Seed size is smaller than the checks. CDC 1932-201 offers good bleaching tolerance, similar to CDC Striker and better than Cooper. The new line was developed by the Crop Development Centre at the University of Saskatchewan.

Information for this report was supplied by the Prairie Recommending Committee for Pulse and 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 2009, please visit the PGDC website at www.pgdc.ca.

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WEBSITE HELPS FARMERS CHOOSE BEST VARIETY

WESTERN CANADIAN FARMERS have another tool to help them choose the variety of wheat best suited to their farm. It's the provincial registration trials website, launched in 2009.

"The goal of the website is to enable farmers to compare varieties head-to-head with results from their own farms and see if there are better seed choices out there for them," says Mike Espeseth, communications manager for the Western Grain Research Foundation.

The site compares the performance of registered wheat varieties.

Data comes from trial sites across Western Canada and has been adapted in a standardized format, allowing farmers to make educated variety decisions.

The website, located at www.pvttrials.com, is in the pilot stages and only carries results for varieties in the Canadian Western red spring wheat class.

Eventually, the site will cover varieties in all

classes of wheat and barley.

Espeeth said the website is easy to use and was designed to accommodate people with dial-up internet access.

"It's not flashy or complicated," Espeeth said.

"Users can just jump right in."

A pull-down menu offers several options including regional reports and head-to-head variety comparisons.

Regional reports allow the user to choose a growing zone and a specific trial site to see how a variety performed in a specified region.

The head-to-head variety section allows the user to select a crop variety and compare it to a second variety in selected regions and production zones.

For example, a comparison can be made between AC Barrie and CDC Bounty in dryland farming conditions in various locations in Alberta, Saskatchewan and Manitoba.

"The big deal in setting up this website was

getting the provinces to talk together," Espeeth said. "In the past, each province kept their data in a different form. To be usable on the website, it all had to be standardized."

Espeeth says the information on the website is available in the annual seed guides that are published in each province.

However, the website allows users to compare specific varieties, regardless of their location.

Espeeth says feedback on the website is hard to gauge because when it was launched in April 2009, most farmers had already made their variety choices.

The project was initiated by the Agricultural Research and Extension Council of Alberta.

Base funding came from Agriculture Canada. The Western Grains Research Foundation provided special grant funding and leadership on the project.

— POLACHIC

Results of Agriculture Canada 2009 Variety Request for Proposals

The following list contains the names of companies that were awarded licence rights in 2009 to multiply and distribute new crop varieties developed by Agriculture and Agri-Food Canada.

Variety	Company
O56C-96204 Field Bean (Navy Type)	Canterra
BK05-009 Field Bean (Black Type)	Canterra
BW874 Canada Western Red Spring Wheat	SeCan Association
BW875 Canada Western Red Spring Wheat	FP Genetics
DT787 Canada Western Amber Durum	Canterra
ES101 Hard Red Spring Wheat	Faurschou Farms
FP2214 Flax	Alliance Seed Corp.
GP010 Spring Wheat (General Purpose)	Canterra
HB705 Barley (Two-row Hulless Malt)	Alliance Seed Corp.
HY682 Canada Prairie Spring Wheat	Canterra
OA1174-3 Covered Oat	Hyland Seeds
OA1176-1 Covered Oat	SeCan Association
OT05-18 Oilseed Soybean	Canterra
OT05-20 Tofu Soybean	Canterra
OT05-21 Tofu Soybean	Canterra
OX-802 Tofu Soybean	SeCan Association
S9465 Meadow Bromegrass	SeCan Association
TR06297 Barley (Two-row Malt)	Viterra

NO PROPOSALS WERE RECEIVED/ACCEPTED FOR THE FOLLOWING LINES:

170A-96048 Field Bean (Navy Type)*
 CRS 1001 Alfalfa*
 GN04-001 Great Northern Bean*
 HR167 Field Bean (Cranberry Type)
 HR168 Field Bean (Cranberry Type)
 HR182 Field Bean (Pinto Type)
 HR185 Field Bean (Great Northern Type)
 MHR197-3745 Navy Bean

OA1178-2 Covered Oat *
 OT05-12 Tofu Type Soybean*
 OX-602 Tofu Type Food Grade Soybean
 OX-603 Tofu Type Food Grade Soybean
 OX-801 Tofu Soybean*
 SMB02 Meadow Bromegrass*
 SR05-008 Field Bean (Small Red Type)*
 TR06294 Barley (Two-row Malt)*

* These lines will be offered again through the 2010 Request for Proposal process.

In 2010, the request for proposals for new or unlicensed Agriculture and Agri-Food Canada seed varieties will run from March 3 to March 24.

A complete list of new varieties available will be published on the Agriculture and Agri-Food Canada website as of March 3, 2010.



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New cereal varieties take aim at fusarium

By Shirley Byers
Freelance writer



FILE PHOTO

There are many types of fusarium but the most damaging is fusarium graminearum, the purple section of the petri dish. Farmers across Saskatchewan are encouraged to watch the disease closely and monitor its spread. Last year, fusarium head blight affected Saskatchewan cereal crops in a long band that stretched north to south along the Manitoba border.

ALREADY COMMON IN MANITOBA AND EASTERN SASKATCHEWAN, FUSARIUM HEAD BLIGHT IS CONTINUING ITS WESTWARD SPREAD ACROSS THE PRAIRIES

ALTHOUGH IT WAS once believed that most of the Prairies were too dry for fusarium head blight, the fungal disease has significantly disrupted durum wheat and malting barley production in Manitoba and has firmly established itself in eastern Saskatchewan.

Given favourable conditions, it will move west across the province, say experts.

Fusarium head blight (FHB) is caused by several species of fusarium.

Fusarium graminearum is most damaging, said Randy Clear, a biologist at the Canadian Grain Commission grain research laboratory in Winnipeg. Graminearum produces a mycotoxin known as vomitoxin or deoxynivalenol. Low levels of toxin can result in grade losses or in seeds deemed unacceptable for human or animal consumption.

According to Clear, the grain commission's 2009 harvest samples for Saskatchewan showed fusarium damage in wheat grown along the

Manitoba border. Damage was evident in the south and continued up to the northeast.

"Around 10 percent of the samples from the eastern part of the province have been affected in grade because of fusarium damage this year," Clear said.

"For red spring, the maximum allowed for No. 1 red is 0.25 percent fusarium damaged kernels and we're seeing, in samples that are affected by it, the average is maybe around 0.5 percent in Saskatchewan.

"It would have gone from a No. 1 to a No. 2 based on fusarium."

Although sampling hadn't been completed, Clear said in late November that enough testing had been done to give a fairly accurate picture of infection levels.

"As you go further west, there's fewer fields with (damage)," he said.

"(As you go west) it's not uncommon to find it, but the levels would be quite low. As you go

to the western side of Saskatchewan, it's really difficult to find it at all."

Fusarium is moving westward, however.

"If there is a good amount of wet weather in western Saskatchewan, it will become an important issue there as well," Clear predicted.

"Right now, it's an important issue on the eastern side of Saskatchewan where it only requires suitable weather to happen each year."

Fusarium is carried on crop residue but can survive for short periods below the surface.

It can also be carried by wind and by planting infected seed.

NEW IN WHEAT

Canadian plant breeders have been working for years to develop resistant cultivars.

There are four new red spring wheats that offer fusarium resistance.

They are Waskada, 5602HR, WR859CL and Carberry.

Of these, Carberry, developed by Agriculture Canada plant breeder Ron DePauw and his team at Swift Current, Sask., has an impressive list of traits.

Carberry offers resistance to five major diseases including fusarium, leaf and stem rust, common bunt and loose smut, as well as resistance to lodging.

With end use quality eligible for top grades of CWRS, Carberry produces yields equal to the highest yielding check variety. Protein concentrations are also greater than the highest yielding check.

Foundation seed is being multiplied this year. The variety is scheduled to be widely available for commercial production by 2012.

Waskada, a new variety coming on the market in 2010, has fair resistance to leaf rust and fusarium.

Meanwhile, 5602HR was grown on seven percent of wheat acreage in Manitoba in 2009.

"It has a nice solid disease resistance package as well, although it has not shown as good a yield as Carberry," DePauw said.

"In the brown and dark brown soil zone, Carberry yielded five percent more than 5602HR and nine percent more than Barrie. In the black soil zone, Carberry yielded 17 percent more than Barrie, which would be 12 or 13 percent more than 5602HR."

The fourth variety, WR859 CL, is tolerant to Clearfield herbicides.

Warburtons, the largest bakery in the United Kingdom, imports about 50 percent of its grain from Canada.

It is contracting AC Barrie, Infinity, CDC Teale and 5400 IP under identity preserved contracts but Carberry has also qualified for this lucrative identity preserved market.

A premium will be paid to producers for meeting the specifications for the IP production of this variety.

PROMISING DURUM VARIETIES

In the last two years there have been four new durum registrations that offer improved fusarium resistance.

Brigade, Eurostar, CDC Verona and Enterprise all offer better tolerance relative to other durum varieties but Brigade sets the standard, said Danny Singh, durum breeder at Swift Current's semiarid prairie agriculture research centre.

"Brigade is probably the best of these four for FHB tolerance but they're all better than the check and they're all good lines," said Singh.

Brigade, Eurostar and Enterprise were developed at Agriculture Canada's wheat breeding facility at Swift Current.

CDC Verona was developed at the Crop Development Centre at the University of Saskatchewan in Saskatoon.

Saskatchewan durum breeders are looking for ways to transfer fusarium resistance from red

wheat varieties into western amber durum.

"They are also looking at some of the relatives of durum," Singh said.

Brigade, Eurostar and Verona should be commercially available in 2011. Enterprise should be available in 2012.

HARD TO DETECT IN BARLEY

Symptoms of fusarium are more difficult to spot in barley.

Infection may be worse than it looks, said James Tucker, a barley pathologist based in Brandon.

"The secondary infection doesn't necessarily damage the kernels but it can actually carry a high level of toxin," he said.

"You might have seed that looks quite healthy but carries a high level of fusarium infection."

Barley varieties that offer improved fusarium resistance include CDC Mindon, a two-row feed barley bred by the Crop Development Centre. Seed should be available to commercial producers this fall.

Norman, a two-row malting barley from Agriculture Canada in Brandon and the Crop Development Centre is expected to be ready for commercial distribution in 2012. ♦

VIGILANCE IS KEY TO FHB CONTROL

To slow the spread of fusarium graminearum, Alberta has developed a management plan that includes regulations, inspectors and management strategies.



SASKATCHEWAN DOES not have a fusarium management plan in place, but individual producers can slow the spread by monitoring.

"Monitor what's in your fields," said Randy Clear, a biologist with the Canadian Grain Commission.

"If you're not finding fusarium graminearum ... you don't want to introduce it. You may want to know if the seed you're planting has detectable levels of the pathogen."

Testing seed samples and crop samples at harvest is a good practice.

If fusarium graminearum levels are building in seed or harvested grain, producers should consider using a tolerant variety.

This will slow development of the inoculum and reduce disease levels if the weather is suitable for the development of

fusarium head blight.

Symptoms are easiest to see in wheat, said Clear.

At harvest, check grain samples frequently and look for chalky white kernels. Keep samples that contain those kernels and have the samples tested.

Be vigilant, Clear advised.

Know where the disease is present and monitor its spread and its levels.

"Just keep an eye on it," he said.

"If you're in an area where it's well established, like eastern Saskatchewan, the weather will tell you most about what's going to happen with it. Variety will help but it won't stop it."

— BYERS

Canadian Food Inspection Agency 2009 Registration Report

The list below contains information on new crop varieties registered by the Canadian Food Inspection Agency between Nov. 1, 2008 and Nov. 1, 2009. It also contains the names of varieties that had interim or restricted registrations renewed or extended by the CFIA. Commercial seed for the following varieties may not be available in 2010. Commercial producers are encouraged to contact the Canadian distributor or an authorized agent to determine seed availability. This list does not include all new varieties available to commercial producers in 2010, only those registered during the period specified.

BARLEY, TWO-ROW, SPRING

BUSBY

Experimental numbers: TR06673; H94034003
Registration date: 2009-02-04
Registration type: National

Busby is a two rowed, rough awned feed barley developed by Alberta Agriculture's Field Crop Development Centre at Lacombe. The variety will be marketed by Mastin Seeds Ltd., of Sundre, Alta. Busby is well-adapted to the brown, black and grey soil zones of Western Canada. It has excellent disease resistance, good grain yields and good feed quality.

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 AUSTENSON

Experimental numbers: TR06389; SB040372
Registration date: 2009-03-16
Registration type: National

This two-row hulled feed barley ranked first in yield across 16 western Canadian sites in 2006 and 2007 two-row coop trials. It combines high yield potential with good straw strength, very good grain quality and good leaf disease resistance. It will be a good alternative to Xena in the feed barley marketplace. The variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon. The Canadian distributor is Secan.

CDC CARTER

Experimental numbers: HB 390, SH041245
Registration date: 2009-03-16
Registration type: National

This two-row hulless feed barley is a double smut resistant hulless barley for organic and conventional producers. While important for all hulless barley producers, complete genetic smut resistance is of special significance to organic producers since without resistance or use of chemical seed treatment, organic hulless barley production is not possible. CDC Carter was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon. The Canadian distributor is Secan.

CDC EXPLUS

Experimental numbers: HB 402, SM03480h
Registration date: 2009-05-15
Registration type: Contact CFIA

This two-row spring hulless barley variety was developed by the University of Saskatchewan's Crop Development Centre in Saskatoon.

HB705

Experimental numbers: HB705
Registration date: 2009-05-25
Registration type: Contact CFIA

HB705 is a two-row hulless malt barley, developed by Agriculture Canada. It matures

earlier and has stronger straw than CDC McGwire with heavier, plumper kernels. Although hulless barley is not used commercially for malting and brewing purposes in Canada, HB705 may have malting quality potential with higher malt extract, more favourable protein modification, and lower beta glucan content and viscosity than CDC McGwire.

MAJOR

Experimental numbers: TR06297
Registration date: 2009-05-25
Registration type: Contact CFIA

Major is a two-row hulled malting barley adapted to Western Canada. Over two years of testing across all soil zones, yields were nine percent higher than AC Metcalfe. It has shorter, stronger straw and heavier, plumper kernels than AC Metcalfe combined with similar days to heading and maturity. It has an excellent disease resistance package, including resistance to spotted net blotch and loose smut, moderate resistance to spot blotch, surface borne smuts and fusarium head blight. Its malting quality profile is similar to that of AC Metcalfe. The line was developed by Agriculture Canada.

MERIT 16

Experimental numbers: TR05910, 2B99-2316
Registration date: 2009-08-17
Registration type: Contact CFIA

Merit 16 is a two-rowed, white aleurone, spring malting barley 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.

MERIT 57

Experimental numbers: TR05911, 2B99-2657
Registration date: 2009-08-17
Registration type: Contact CFIA

Merit 57 is two-rowed, white aleurone, spring malting barley that 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 being evaluated in plant scale tests by Anheuser Busch. The new variety was developed by Anheuser Busch.

NORMAN

Experimental numbers: TR05915
Registration date: 2009-02-02
Registration type: Contact CFIA

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. 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.

TR05671

Experimental numbers: TR05671

Registration date: 2009-02-03

Registration type: Restricted

This two-rowed, rough awned, malting barley is well adapted to the brown, black and grey soil zones of Western Canada. 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. Interim registration was originally scheduled to expire on Feb. 3, 2010.

BEAN, FIELD, BLACK TYPE

ECLIPSE

Experimental Numbers: ND990221-02

Registration Date: 2009-07-15

Registration Type: National

Eclipse is a high yielding black bean variety with a Type 2a indeterminate, upright growth habit and matte black seed. It also has good pod height, which is ideal for direct harvest. It has excellent lodging resistance and exhibits both plant and pod maturity concurrently. The variety was developed by the North Dakota State University. The Canadian distributor is Duncan Seeds, Morden, Man.

BEAN, FIELD, PEA OR NAVY TYPE

HY4181

Experimental numbers: T65081

Registration date: 2009-04-10

Registration type: Contact CFIA

HY4181 is a high yielding navy bean line with a Type 2a indeterminate, upright bush growth habit. In trials, it has shown a lower Common Bacterial Blight incidence compared to Envoy. T65081 is adapted to the Red River Valley of Manitoba. It was developed by Hyland Seeds, a division of Thompsons Limited.

OCTANE

Experimental numbers: VM96 353, VM 353

Registration date: 2009-04-10

Registration type: National

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.

SKYLINE

Experimental numbers: VM01 605, VM 605

Registration date: 2009-04-10

Registration type: National

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.

BEAN, FIELD, PINTO TYPE

CDC WM-1

Experimental numbers: 2005s-1, 1533-15

Registration date: 2009-05-25

Registration type: National

CDC WM-1 is an indeterminate (Type 2a) pinto bean line with excellent seed coat colour and early maturity. Although the yield potential is below that of CDC Pintium, it is more than offset by the premium being offered to producers for the better seed colour. It was developed by the Crop Development Centre, University of Saskatchewan.

CDC WM-2

Experimental numbers: 2793CBB

Registration date: 2009-05-06

Registration type: National

CDC WM-2 is an indeterminate (Type 2a) pinto bean line with excellent seed coat colour, early maturity and yields similar to CDC Pintium. It has tolerance to anthracnose races 73 and 105 with white mould scores better than CDC Pintium. It was developed by the Crop Development Centre, University of Saskatchewan.

MARIAH

Experimental numbers: 08540800, B 0800

Registration date: 2009-08-31

Registration type: National

Mariah is an indeterminate (Type 2b) pinto bean line with earlier maturity than

Maverick in Manitoba trials. Mariah has a more erect growth habit with improved lodging resistance over Maverick. It is resistant to BCMV (I allele) and to rust race 53. It is well adapted to the Red River Valley of Manitoba. The variety was developed by Seminis Vegetable Seeds.

MEDICINE HAT

Experimental numbers: 08550813, B 0813

Registration date: 2009-08-31

Registration type: National

Medicine Hat is an indeterminate (Type 2b) pinto bean line with earlier maturity than Maverick in Manitoba trials. Medicine Hat has a more erect growth habit with improved lodging resistance over Maverick. It is resistant to the NY15 race of BCMV and to rust race 53. Medicine Hat is adapted to the Red River Valley of Manitoba and the pinto bean growing areas of Alberta. It was developed by Seminis Vegetable Seeds.

BEAN, FIELD, YELLOW TYPE

MYASI

Experimental Numbers: Myasi-1

Registration Date: 2009-06-09

Registration Type: National Registration

Myasi is a high yielding yellow bean genotype with a determinate (Type 1), upright growth habit and yellow bean seed. It is adapted to the dry bean growing areas of Alberta. The variety was developed by ADM (USA). The Canadian distributor is Viterra.

CANOLA, SPRING, BRASSICA JUNCEA

8470 (XCEED 8470)

Experimental numbers: J05Z-08920

Registration date: 2009-07-21

Registration type: Contract

Xceed 8470 is an open pollinated, Clearfield juncea variety that produces canola quality oil. It offers resistance to blackleg and fusarium wilt. Improved shatter resistance makes it well suited to straight cut combining operations. The variety offers increased tolerance to heat, frost and drought. Seed is commercially available in 2010. For additional information on seed availability and varietal characteristics, contact Viterra.

8570

Experimental numbers: J05Z-07784

Registration date: 2008-11-17

Registration type: Contract

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 Viterra.

8571

Experimental numbers: J05Z-08376

Registration date: 2008-11-17

Registration type: Contract

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 information on this variety, contact Viterra.

CANOLA, SPRING, BRASSICA NAPUS

1145 (Invigor 1145)

Experimental numbers: PHS07-525

Registration date: 2009-07-15

Registration type: National

This high yielding Liberty Link specialty oil hybrid offers similar maturity to check varieties but offers higher yield potential and resistance to blackleg. In registration trials, it yielded 133 percent of check varieties 46A65 and Q2. Seed will be available on contract basis through Cargill's specialty canola program. For additional information on seed availability and varietal characteristics, contact Bayer CropScience.

1950 (Canterra 1950)

Experimental numbers: 30422-C7

Registration date: 2009-07-22

Registration type: National

Canterra 1950 is a high yielding RoundUp Ready (Genuity) hybrid available through Canterra Seeds. It is moderately resistant to blackleg and offers significant yield advantages over check varieties 46A65 and Q2. Commercial seed will be available in 2010. For additional information on seed availability and varietal characteristics, contact Canterra Seeds.

CONTINUED ON PAGE 50

1956 (Canterra 1956)

Experimental numbers: SW-PY 05-0416

Registration date: 2009-10-08

Registration type: National

Canterra 1956 is a Roundup Ready (Genuity) hybrid available through Canterra Seeds. It offers high yield potential relative to checks and is resistant to blackleg. Commercial seed will be available in 2010. For additional information on seed availability and varietal characteristics, contact Canterra Seeds.

30120-B6

Experimental numbers: 30120-B6

Registration date: 2009-03-16

Registration type: National

For additional information on this variety, contact the Canadian distributor, Canterra Seeds.

30507-B6

Experimental numbers: 30507-B6

Registration date: 2009-06-09

Registration type: National

For additional information on this variety, contact the Canadian distributor, Canterra Seeds.

3303 LL

Experimental numbers: 3303, 84S00 LL

Registration date: 2008-12-01

Registration type: National

This synthetic Liberty Link variety offers good lodging resistance and good yield potential across all growing zones. In pre-registration tests, it outyielded the check varieties 46A65 and Q2 by 15 percent. It is moderately resistant to blackleg. Commercial seed will be available in 2010. For additional information on seed availability and varietal characteristics, contact Brett Young Seeds.

45H29

Experimental numbers: 08N825R

Registration date: 2009-03-30

Registration type: Interim (Expiry date 2012-03-30)

This is the first Roundup Ready hybrid to offer resistance to the clubroot pathogen. It is rated R for blackleg and yielded 28 percent higher than the check varieties 46A65 and Q2 in pre-registration testing. Some seed will be available in 2010 but supplies may be limited. For additional information on seed availability and varietal characteristics, contact Pioneer Hi-Bred.

46M20

Experimental numbers: 05N212R

Registration date: 2009-02-02

Registration type: Contact CFIA

For additional information on this variety, contact Pioneer Hi-Bred.

5525CL

Experimental numbers: 30611-C7

Registration date: 2009-07-22

Registration type: National

This Clearfield hybrid matures later than the checks but offers significantly higher yield potential than the check varieties 46A65 and Q2. 5525CL is rated R for blackleg. Seed will be commercially available for 2010. For additional information on this variety, contact the Canadian distributor, Brett Young Seeds.

5770 (Invigor 5770)

Experimental numbers: 06RHY/674

Registration date: 2009-07-15

Registration type: National

This high yielding Liberty Link hybrid matures two days later than the check varieties but offers exceptionally high yields and resistance to blackleg. In registration trials, it yielded 135 percent of check varieties 46A65 and Q2. Seed will be available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact Bayer CropScience.

6020 RR

Experimental numbers: 30408-C7

Registration date: 2009-10-08

Registration type: National

6020 RR is a RoundUp Ready hybrid available through Brett Young. It is widely adapted

to growing conditions across the Prairies. In pre-registration tests, the variety yielded 121 percent of checks 46A65 and Q2. It is rated MR for blackleg and offers good oil content. Seed will be commercially available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact Brett Young Seeds.

6040 RR

Experimental numbers: 30216-C7

Registration date: 2009-10-08

Registration type: National

6040 RR is a Roundup Ready hybrid available through Brett Young. It has excellent standability and performed well in long season zones. In pre-registration tests, the variety yielded 124 percent of checks 46A65 and Q2. Seed will be commercially available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact Brett Young Seeds.

6130 RR

Experimental numbers: SW-PW 05-5007

Registration date: 2009-10-08

Registration type: National

6130 RR is a Roundup Ready synthetic hybrid that offers good yield potential, above average oil content and good disease resistance. In pre-registration tests, the variety yielded 118 percent of check varieties 46A65 and Q2. The variety is rated R for blackleg. Seed will be commercially available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact Brett Young Seeds.

72-35 RR

Experimental numbers: Z44466

Registration date: 2009-02-02

Registration type: National

72 35 RR is a Roundup Ready Dekalb hybrid. The variety's early maturity makes it an ideal candidate for short season production zones. The variety is moderately resistant to blackleg and has good yield potential relative to 32-75. Seed will be commercially available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact Monsanto Canada or an authorized Dekalb dealer.

72-65

Experimental numbers: G72021

Registration date: 2009-03-16

Registration type: National

72 65 RR is a RoundUp Ready Dekalb hybrid. It offers high oil content and is rated R for blackleg. Seed will be commercially available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact Monsanto Canada.

9350 (Proven 9350)

Experimental numbers: 05N371R

Registration date: 2009-03-26

Registration type: National

Proven 9350 is a Roundup Ready (Genuity) hybrid. It matures six days earlier than 45H21, making it an ideal candidate for short season production zones. The variety is moderately resistant to blackleg. Seed will be commercially available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact Viterra.

9555 (Proven 9555)

Experimental numbers: SW-PY 05-0473

Registration date: 2009-08-31

Registration type: National

Proven 9555 (Genuity) is a Roundup Ready synthetic variety with excellent standability. The variety is rated R for blackleg and maturity is one day later than the check variety, 45H21. Seed is commercially available for the 2010 growing season. For additional information on seed availability and varietal characteristics, contact the Canadian distributor, Viterra.

NX4-101 RR

Experimental numbers: G2X0022, 0022, G2X0022RR

Registration date: 2009-03-06

Registration type: Contact CFIA

NX4 101 RR is an open pollinated, Roundup Ready, specialty oil variety developed by Dow AgroSciences Canada. The variety is resistant to blackleg and yielded 96 percent of 71-45 RR in pre-registration tests. Seed is available for contract production only.

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For additional information on this variety or for contract details, contact the Canadian distributor, Dow Agrosciences.

NX4-102 RR

Experimental numbers: G2X0023, 0023, G2X0023RR
Registration date: 2009-03-06
Registration type: Contact CFIA

For additional information on this variety, contact the Canadian distributor, Dow Agrosciences.

NX4-103 RR

Experimental numbers: G2X0043, 0043, G2X0043RR
Registration date: 2009-03-06
Registration type: Contact CFIA

For additional information on this variety, contact the Canadian distributor, Dow Agrosciences.

NX4-104 RR

Experimental numbers: G2X0044, 0044, G2X0044RR
Registration date: 2009-03-06
Registration type: Contact CFIA

NX4 104 RR is an open pollinated, Roundp Ready, specialty oil variety developed by Dow AgroSciences Canada. The variety is moderately resistant to blackleg and yielded 99 percent of 71-45 RR in pre-registration tests. Seed is available for contract production only. For additional information on this variety or for contract details, contact the Canadian distributor, Dow Agrosciences.

NX4-105 RR

Experimental numbers: G2X0039, 0039, G2X0039RR
Registration date: 2009-03-06
Registration type: Contact CFIA

For additional information on this variety, contact the Canadian distributor, Dow Agrosciences.

NX4-201 CL

Experimental numbers: DN51505, 1505
Registration date: 2009-02-24
Registration type: Contact CFIA

For additional information on this variety, contact the Canadian distributor, Dow Agrosciences.

NX4-202 CL

Experimental numbers: DN51607, 1607
Registration date: 2009-02-24
Registration type: Contact CFIA

NX4 202 CL is an open pollinated, Clearfield specialty oil variety developed by Dow AgroSciences Canada. The variety is moderately resistant to blackleg and yielded 96 percent of InVigor 50202 in pre-registration tests. Seed is available for contract production only. For additional information on this variety or for contract details, contact the Canadian distributor, Dow Agrosciences.

NX4-203 CL

Experimental numbers: DN051692, 1692
Registration date: 2009-02-24
Registration type: Contact CFIA

For additional information on this variety, contact the Canadian distributor, Dow Agrosciences.

NX4-204 CL

Experimental numbers: DN051493, 1493
Registration date: 2009-02-24
Registration type: Contact CFIA

For additional information on this variety, contact the Canadian distributor, Dow Agrosciences.

CANOLA, SPRING, BRASSICA RAPA**ACS-C12**

Experimental numbers: ACS-C12
Registration date: 2009-07-15
Registration type: Contact CFIA

For additional information on this variety, contact Alberta Agriculture.

ACS-C18

Experimental numbers: ACS-C18
Registration date: 2009-07-15
Registration type: Contact CFIA

For additional information on this variety, contact Alberta Agriculture.

ACS-C29

Experimental numbers: ACS-C29
Registration date: 2009-07-15
Registration type: Contact CFIA

For additional information on this variety, contact the Canadian distributor, Dow Agrosciences.

FABABEAN**FLORENT**

Experimental Numbers: NPZ-3-7080
Registration Date: 2009-03-16
Registration Type: National

This high yielding faba bean line offers better lodging resistance and larger seed size than CDC Fatima and CDC Blitz. The line was developed by German-based breeder Norddeutsche Pflanzenzucht Hans-Georg Lembke KG. The Canadian distributor is Roy Legumex, St. Jean Baptiste, Man.

IMPOSA

Experimental Numbers: Ceb 04928
Registration Date: 2008-11-14
Registration Type: National

This high yielding, white flowered fababean line offers good lodging resistance. For information on this variety, please contact Cebeco Seeds.

FESCUE, MEADOW, FORAGE TYPE**PREVAL**

Experimental Numbers: not available
Registration Date: 2009-02-02
Registration Type: National Registration

Preval combines good forage yield with improved resistance to diseases. It offers good winter hardiness and produces long, wide leaves making it an excellent choice for haying or pasture. For additional information on this variety, contact the Canadian distributor Northstar Seed Ltd.

FLAX, OILSEED**FP2214**

Experimental numbers: FP 2214
Registration date: 2009-06-09
Registration type: Contact CFIA

This brown-seeded linseed flax variety 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. It was developed by Agriculture Canada in Morden, Man.

50

Experimental numbers: 01-91-F7-1401, CR50
Registration date: 2009-02-24
Registration type: Contract

For additional information on this variety, contact the Canadian distributor, Proven Seed, Viterra.

LENTIL**CDC IMAX CL**

Experimental Numbers: IBC 187
Registration Date: 2009-08-31
Registration Type: National

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Name / Contract	High	Low	Last	Change
CANOLA Jan 2010	415.50	409.30	415.10	-3.50
CANOLA Mar 2010	422.70	418.60	422.70	+3.20
CANOLA May 2010	426.00	422.70	426.80	+4.10
WESTERN BARLEY Jan 2010	161.00	160.00	161.00	+1.00
WESTERN BARLEY Mar 2010	161.50	161.50	161.50	+1.20
WESTERN BARLEY May 2010	162.70	162.70	162.70	+1.20
SPRING WHEAT Dec 2009	540-0	533-6	533-6	-6-4
SPRING WHEAT Mar 2010	558-2	546-6	548-2	-6-0
SPRING WHEAT May 2010	565-6	558-6	560-2	-6-0
KCBT WHEAT Dec 2009	521-4	520-0	520-4	-6-0
KCBT WHEAT Mar 2010	544-2	530-4	533-0	-6-0
KCBT WHEAT May 2010	550-4	542-0	544-6	-6-0
WHEAT Dec 2009	533-2	516-8	519-2	-6-0
WHEAT Mar 2010	554-2	537-2	539-0	-6-0
WHEAT May 2010	566-0	550-0	560-6	-6-0
CRS Dec 2009	508-4	502-0	507-0	-6-0
CRS Mar 2010	518-0	508-0	510-0	-6-0

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CDC Imax CL is small, blaze type red lentil. It is tolerant to Odyssey herbicide. The yield potential is higher than CDC Impact. Plant height is increased over the checks. The seed type is suitable for markets in some Middle Eastern and some South Asian markets. It was developed by the Crop Development Centre, University of Saskatchewan.

CDC IMIGREEN CL

Experimental Numbers: IBC 145
Registration Date: 2009-08-31
Registration Type: National

CDC Imigreen is a high yielding, imidazolinone tolerant medium green lentil line. It was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

CDC IMPOWER CL

Experimental Numbers: IBC 194
Registration Date: 2009-08-31
Registration Type: National

CDC Impower CL is a large green, laird type lentil. Yield is similar to CDC Improve with better seed coat colour. The variety is tolerant to Odyssey herbicide. It was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

CDC INVINCIBLE CL

Experimental Numbers: IBC 112
Registration Date: 2009-08-31
Registration Type: National

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. CDC Invincible was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

CDC KR-1

Experimental Numbers: 2275-15
Registration Date: 2009-08-31
Registration Type: National

CDC KR-1 is a large red lentil with improved yield potential over CDC Redberry. The seed type is large, suitable for new markets in the Middle East and South Asia. It offers good resistance to ascochyta and anthracnose race 1. The new variety was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

CDC PERIDOT

Experimental Numbers: IBC 188
Registration Date: 2009-08-31
Registration Type: National

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

CDC REDBOW

Experimental Numbers: 1894T-1
Registration Date: 2009-08-17
Registration Type: National

This is a high yielding, extra small, robin type red lentil with improved lodging resistance. The seed type is suitable for markets in South Asia and the Middle East. Seeds are more plump than CDC Robin. The new variety was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

CDC REDCOAT

Experimental Numbers: 2154S-4
Registration Date: 2009-08-31
Registration Type: National

This high yielding, small red, blaze type lentil has a gray seed coat and improved lodging tolerance. It offers high yield potential with plump seeds and size between CDC Blaze and CDC Redberry. The seed type is suitable for most red lentil markets. CDC Redcoat was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

CDC ROSEBUD

Experimental Numbers: 1788S-4
Registration Date: 2009-08-31
Registration Type: National

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 is more plump than CDC Robin and could potentially serve a new market class. It was developed by the University of Saskatchewan Crop Development Centre in Saskatoon.

MUSTARD, BRASSICA JUNCEA L., ORIENTAL**ACANTO**

Experimental numbers: J97-102
Registration date: 2009-03-30
Registration type: Contract

For more information on this mustard variety, contact Proven Seeds, Viterra.

OAT, SPRING**SUMMIT**

Experimental numbers: OT2046; 04J0282, 05J1211, (05RAT16), 00P08-BD1A
Registration date: 2008-11-26
Registration type: National

Summit is a white-hulled spring oat. In preregistration 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. For additional information on this variety, contact Alberta Agriculture and Food.

ORCHARDGRASS**TUNDRA**

Experimental numbers: 2000 ABC
Registration date: 2009-05-15
Registration type: National

For additional information on this variety, contact the Canadian distributor Northstar Seed Ltd.

PEA, FIELD, YELLOW**APCM 97107**

Experimental Numbers: APCM 97107
Registration date: 2009-03-30
Registration type: National

This yellow cotyledon field pea line features high yield potential, early maturity, large seed size and resistance to powdery mildew. For more information on this variety, contact DL Seeds in Morden, Man.

ARGUS

Experimental Numbers: MP1846
Registration date: 2009-05-25
Registration type: National

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

CDC TREASURE

Experimental Numbers: CDC 1410-15
Registration date: 2009-02-24
Registration type: National

This yellow cotyledon, semi-leafless field pea line has high yield potential, early maturity, 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. The distributor is Saskatchewan Pulse Growers.

SUNFLOWER, OILSEED**8N358CL**

Experimental Numbers: E87358CL
Registration date: 2009-04-21
Registration type: National

IS 23-30 NS/DM

Experimental Numbers: DKF 23-30 NS/DM
Registration date: 2009-05-19
Registration type: Interim (Expiry date 2010-05-19)

IS 3480 CL

Experimental Numbers: DKF 34-80 CL
Registration date: 2009-09-17
Registration type: National

IS 7120 HO/DM

Experimental Numbers: IS 7120
Registration date: 2009-06-11
Registration type: Interim (Expiry date 2010-06-11)

IS 6131 NS/DM

Experimental Numbers: IS 6131 NS/DM
Registration date: 2009-04-21
Registration type: National

TIMOTHY

PRATT

Experimental numbers: CRS 80-118
Registration date: 2009-01-12
Registration type: Contact CFIA

This variety was developed by Alberta Agriculture in Lacombe.

TRITICALE, WINTER

METZGER

Experimental numbers: 94D036011, WT005
Registration date: 2009-07-23
Registration type: Regional

This winter triticale offers high yield, good winter survival and reduced awn expression. In preregistration 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.

WHEAT, DURUM

ENTERPRISE

Experimental numbers: DT787
Registration date: 2009-07-23
Registration type: Regional

Enterprise is a conventional gluten strength-type low cadmium amber durum variety. It has higher pigment, higher grain yield and higher test weight than the checks, with protein content similar to AC Avonlea and Strongfield. In three years of co-op testing, it yielded two percent higher than Strongfield. Maturity was similar to Strongfield and two days earlier than AC Navigator. Enterprise is resistant to leaf and stem rust. In most cases, the loose smut reaction was lower than the checks. The variety was developed at Agriculture Canada's Semiarid Prairie Agricultural Research Centre in Swift Current, Sask.

WHEAT, SPRING

5400IP

Experimental numbers: BW 295, UGG97-2383
Registration date: 2009-04-13
Registration type: Contract, regional

This hard red spring wheat variety is registered for regional contract production in B.C., Alberta, Saskatchewan and Manitoba using identity preserved production systems. For more information, contact Viterra.

5603HR

Experimental numbers: BW 388, 9852015-02
Registration date: 2009-05-15
Registration type: Regional

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 preregistration testing, it yielded four percent higher than AC Superb, with similar maturity. BW388 was developed by Syngenta Seeds Canada.

CARBERRY

Experimental numbers: BW874, B0065&AK043
Registration date: 2009-09-18
Registration type: Regional

This Canada Western Red Spring Wheat has improved resistance to fusarium head blight coupled with high grain yield, high protein concentration, semi-dwarf stature with strong straw, and resistance to stem rust and common bunt. Based on 36 trials over three years, grain yield of Carberry was 9.6 percent higher than the mean of the checks, and similar to Superb, the highest yielding check. The time to maturity was very slightly later than Superb, the latest maturing check. Carberry was developed by Agriculture Canada's Semiarid Prairie Agricultural Research Centre at Swift Current, Sask.

CDN BISON

Experimental numbers: ES101, 98E06-AQ1D
Registration date: 2009-10-08
Registration type: Restricted, Regional (B.C., Alberta, Saskatchewan, Manitoba and Ontario)

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, Bison 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 by Agriculture Canada.

FIELDSTAR

Experimental numbers: 97B64-M1B3 (Tested as the varietal blend 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.

GLENN

Experimental numbers: BW406
Registration date: 2009-03-24
Registration type: Regional

Glenn heads earlier, matures later and has a much higher test weight than the reference varieties including AC Barrie and AC Superb. It has high yield potential, very good milling and baking traits as well as disease resistance. For additional information on this variety, contact Canterra Seeds Ltd. or visit the company's website at www.canterra.com/home/products/cereals/spring_wheat/

KANE

Experimental numbers: BW342
Registration date: 2009-04-22
Registration type: Extension of restricted registration to national registration

Restricted registration for this hard red spring wheat variety has now been extended to national registration. The variety is moderately susceptible to fusarium head blight but has good shattering resistance.

MINNEDOSA

Experimental numbers: GP018, HW007, W02257
Registration date: 2009-03-06
Registration type: Regional

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 preregistration testing, Minnedosa 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. It was developed at Agriculture Canada's Cereal Research Centre in Winnipeg.

MUCHMORE

Experimental numbers: BW875, B0065&BE057
Registration date: 2009-09-18
Registration type: Regional

This Canada Western red spring wheat, has acceptable resistance to fusarium head blight coupled with very high grain yield, semi-dwarf stature with strong straw, and resistance to stem rust and common bunt. Based on 36 trials over three years, the

grain yield of Muchmore was 13.9 percent higher than the mean of the checks, and 4.3 percent more than Superb, the highest yielding check. BW875 had protein concentration significantly less than the mean of the checks but equal to Superb. It was developed at Agriculture Canada.

SNOWSTAR

Experimental numbers: BW315a, 97B31*B106
 Registration date: 2009-05-15
 Registration type: National

This Canadian Western Hard White (CWHW) wheat variety, initially granted interim registration to facilitate market testing, has now been granted full national registration. Snowstar has a solid overall package of disease resistance, yield potential and seed quality. It represents a significant improvement over earlier CWHW varieties. The variety will be distributed through Secan.

SNOWHITE 475

Experimental numbers: HY475, 9525-FM15
 Registration date: 2009-04-28
 Registration type: Interim, regional (Registration renewed to 2011-04-28)

Snowwhite 475 received interim registration in 2006 to allow assessment of its quality and to determine the most appropriate classification. The variety features earlier maturity and higher test weights than AC Vista and it outyielded Snowbird in co-op trials by seven percent. Interim registration has been extended to April 28, 2011 to allow orderly disposal of pedigreed seed. Snowwhite 475 was developed by Agriculture Canada, Swift Current.

SNOWHITE 476

Experimental numbers: HY476, P9711-PAE03B1
 Registration date: 2009-04-28
 Registration type: Interim, regional (Registration renewed to 2011-04-28)
Like Snowwhite 475, Snowwhite 476 has earlier maturity and higher test weight than AC Vista, with higher yields than Snowbird. Interim registration, initially intended to allow for the variety's assessment, has been extended to April 28, 2011 to allow orderly disposal of pedigreed seed. The variety was developed by Agriculture Canada, Swift Current.

WR859 CL

Experimental numbers: BW859
 Registration date: 2009-06-19
 Registration type: Regional (B.C., Alberta, Saskatchewan, Manitoba and Ontario)
This variety offers good resistance to pre-harvest sprouting and moderate resistance to fusarium head blight. For more information on this variety, contact Syngenta Seeds Canada.

The publishers of this list made reasonable efforts to ensure its accuracy but will not be held responsible for errors or omissions. Due to space restrictions, soybean varieties registered by the CFIA's variety registration office between Nov. 1, 2008 and Nov. 1, 2009 are not included in this list.



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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, 2009. 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

54Q25

Herperger, Ronald & Elaine Atwater, SK 306-745-2528 C
Pioneer Hi-Bred International Inc. Lethbridge, AB 403-327-6135 C

ABLE

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

AC BLUE J

Bjornson, Gregory P. Wynyard, SK 306-554-3302 C

AC BRADOR

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

AC CARIBOU

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

AC LONGVIEW

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

AC MELODIE

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

AC NORDICA

Gourley, Bruce D. Watson, SK 306-287-3127 C

ALGONQUIN

Aitken, Robert Eyebrow, SK 306-759-2700 C
Bueckert, Phil Eyebrow, SK 306-759-2076 C
Lalonde, Lucien & Denise Zenon Park, SK 306-767-2293 C
LeBras, Terence & Mart Arborfield, SK 306-769-8814 C
Nicklen, Gregory Carrot River, SK 306-768-2251 C
Nicklen, Jared Carrot River, SK 306-768-3136 C

AMERISTAND 201+Z

Viterra Regina, SK 306-569-5027 C

APPROVED

Pickseed Canada Inc. Winnipeg, MB 204-633-0088 F C

ASCEND

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

BEAVER

MacLeod, Bryce Aberdeen, SK 306-253-4620 C
Wildeman, Maurice Don Lanigan, SK 306-365-4395 C

DAKOTA

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

ELEVATE

Northstar Seed Ltd. Neepawa, MB 204-476-5241 F

ESPRIT

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GENEVA

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

GENOA

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

GIBRALTAR

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

LADAK

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LEADER

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MATRIX (4241 - USA)

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

MULTI5301

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

MULTIPLIER 3

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

PERFECT

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

PICKSEED 2065MF

Pickseed Canada Inc. Winnipeg, MB 204-633-0088 F C

PICKSEED 3006

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

RAMBLER

Lalonde, Lucien & Denise Zenon Park, SK 306-767-2293 C
Pickseed Canada Inc. Winnipeg, MB 204-633-0088 F C

RANGELANDER

Bjornson, Gregory P. Wynyard, SK 306-554-3302 C
Gullacher, Evan Imperial, SK 306-963-2511 C
Martodam, Robert Spiritwood, SK 306-883-2091 F

RHINO

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

RUNNER

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

SATELLITE

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SPREDOR 4

Viterra Regina, SK 306-569-5027 C

TOPHAND

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TOWER ST

Sigfusson, Harold Edward Wynyard, SK 306-554-2039 C

WINTERGOLD

Hansen, Kurt Marsden, SK 306-826-5615 C

BARLEY

AC METCALFE

Ardell, Terrence, Michael, & Joanne Vanscoy, SK 306-668-4415 S F C
Berscheid, K.N. & B. & E.K. & S. & C. & Y. Lake Lenore, SK 306-368-2602 R
Beuker, Allan Daniel Melfort, SK 306-863-2225 R C
Bochek, Bob J. Hodgeville, SK 306-677-2548 C
Boit, Dale & Scott & Tod Wynyard, SK 306-554-2076 C

Booy, Jerry N. & Murray T. & Darcy K. Glaslyn, SK 306-342-2058 C
Boyd, Clare W. & Dale A. Melfort, SK 306-752-2108 C
Calcutt, Garry M. Lemberg, SK 306-335-2760 C
Chapple, Floyd & Debbie Grandora, SK 306-329-4697 S R C

Charabin, Dale Kenneth & Timothy V. & Ryan N. Battleford, SK 306-445-2939 R
Dangstorp, Brian & Perry Redvers, SK 306-452-3444 C
Denis, Michel P. & Marc St. Denis, SK 306-258-2075 C
Dutton, David H. & George Paynton, SK 306-895-4306 C
Edmunds, Greg & Glen Tisdale, SK 306-873-5480 R

Edwards, Lawrence R., Donna, Jeff & Mike Nokomis, SK 306-528-2140 F
Ennis, Garnet & Burton & Neil Glenavon, SK 306-429-2793 R
Fedoruk, Michael J. Kamsack, SK 306-542-4235 C

Floberg, Barry & Delana & Devin & Brandon Shaunavon, SK 306-297-2087 C
Fraser, Scott & Shawn Pambrun, SK 306-582-2148 C

Fritzler, Baine A., Brenda D. & Adam A.	Govan, SK	306-484-2010	F	C
Gaertner, Lyle	Tisdale, SK	306-873-4936		C
Girodat, Gerald	Shaunavon, SK	306-297-2913		C
Greenshields, Grant & Jim & Callie	Semans, SK	306-524-2155		C
Heggie, Robert Thomas	Leross, SK	306-675-4920	R	C
Herndier, Don O.	Lemberg, SK	306-335-2763		C
Hleck, Leo	Codette, SK	306-862-5966		C
Hyland, Thomas Francis	Scott, SK	306-247-2086		C
Johnson, Oscar Stuart	Margo, SK	306-324-4315		C
Jones, Bradley & Wanda	Wadena, SK	306-338-2381		C
Junop, Leonard	Delisle, SK	306-493-2572		C
Kaeding, Roger W. & Warren	Churchbridge, SK	306-896-2236		C
Kennett, Brian Guy	Manor, SK	306-448-4813		C
Larsen, Lyle L.	Aylsham, SK	306-862-7333	R	C
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Wynyard, SK	306-554-2078	F	C
Lepp, Milton & Elden; & Neufeld, M.	Hepburn, SK	306-254-4243		C
Luck, Lorne C. & Landis	Tisdale, SK	306-873-4111		C
Lung Seeds Ltd.	Lake Lenore, SK	306-368-2414	F	R
Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843		R
Mannie, Kenneth	Moosomin, SK	306-435-3411		C
Marcotte, Raymond W.	Kinistino, SK	306-864-3654		C
Mayerle, Erwin D.	Tisdale, SK	306-873-4261		C
Medernach, Louis J. & Kim L.	Cudworth, SK	306-256-3398		C
Meyer, Ward	Lake Lenore, SK	306-368-2635	R	C
Novak, Orrin	Kuroki, SK	306-338-2021	R	C
Nystuen, David G.	Spalding, SK	306-872-2014	S	C
Olson, Lyndon Ordin	Archerwill, SK	306-323-4912	S	C
Olson, Lynnell	Archerwill, SK	306-323-4912		R
Ostafie, Dave & Robert	Canora, SK	306-563-6244		C
Pastl, Glenn A.	Watson, SK	306-287-4243	R	C
Patzler, Wendell Albert	Frontier, SK	306-296-4780		C
Pratchler, John & Leander	Muenster, SK	306-682-3317		C
Redman, Wayne G. & Collin M.	Margo, SK	306-324-4235		C
Reisner, Cecil & Barry	Limerick, SK	306-263-2139		C
Rempel, Blair Allan	Nipawin, SK	306-862-3573	R	C
Rude, Stanley	Naicam, SK	306-874-2359		C
Rugg, Barry C. & Robert B.	Elstow, SK	306-257-3638	S	C
Sandercock, Eric M.	Balcarres, SK	306-334-2958		C
Seidle, E. & B. & C. & M.	Medstead, SK	306-342-4377	R	C
Shewchuk, Stan, Lorne & Terry	Blaine Lake, SK	306-497-2800	S	C
Shwaga, Jeff W.	Wroxton, SK	306-742-4590		C
Slind, Donald Edward	Archerwill, SK	306-323-4402		C
South, Winston & Richard & Bradley	Melfort, SK	306-752-9840		C
Sperle, Bentley D. & Jody	Unity, SK	306-228-3160		C
Stokke, Terry J. & Shane T.	Watrous, SK	306-946-2566		C
Tebbutt, Ronald E. & Gregg	Nipawin, SK	306-862-9730		C
Thompson, Jan Harris	Naicam, SK	306-874-5407		C
Tomtene, Steven & Slind, Daniel	Birch Hills, SK	306-749-3230		C
Trawin, Julie Ann	Melfort, SK	306-752-4060	F	R
Trowell, Kenneth & Larry	Saltcoats, SK	306-744-2687	S	R
Wakefield, Kristopher & Laurie G. & Monica	Maidstone, SK	306-893-2527	S	F
Warrington, John	Mervin, SK	306-845-2642		C
Wiens, Rudy G.	Herschel, SK	306-377-4800		C
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	306-236-6811		C
Winterhalt, Tim	Unity, SK	306-228-3170		C
Wood, Leonard David	Wynyard, SK	306-554-2932		C
Woroschuk, Andrew	Calder, SK	306-742-4682		C
Wylie, Leslie Dale	Biggar, SK	306-948-5394		C
Zwingli, James Trent & Shelley	Melfort, SK	306-752-4224		C

AC RANGER

Ardell, Terrence, Michael, & Joanne	Vanscoy, SK	306-668-4415	S	F
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AC ROSSER

Kerber, Greg	Rosthern, SK	306-232-4474		C
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BENTLEY

Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore, SK	306-368-2602	S	F
Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235		S
Pfeifer, Robert G.	Lemberg, SK	306-335-2532	S	F

CDC CARTER

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CDC COALITION					
Kaeding, Roger W. & Warren	Churchbridge, SK	306-896-2236			C
CDC COPELAND					
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore, SK	306-368-2602	F		
Boldt, Garry	Osler, SK	306-239-2071			C
Boyd, Clare W. & Dale A.	Melfort, SK	306-752-2108		R	
Carlson, Herbert E.P. & Leslie	Buchanan, SK	306-592-4449			C
Crone, Regan	Spalding, SK	306-872-4625			C
Denis, Michel P. & Marc	St. Denis, SK	306-258-2075			C
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis, SK	306-528-2140		R	
Frederick, Blaine	Watson, SK	306-287-3977			C
Fritzler, Baine A., Brenda D. & Adam A.	Govan, SK	306-484-2010	S	R	
Gellner, Clayton S.	Southey, SK	306-726-4323			C
Gregoire, Denis	N. Battleford, SK	306-445-5516			C
Heavin, Larry N. & L. Warren	Melfort, SK	306-752-4020			C
Heggie, Kyle Robert	Leross, SK	306-675-4920		R	
Hleck, Lloyd G.	Nipawin, SK	306-862-2155			C
Junop, Leonard	Delisle, SK	306-493-2572			C
Kennett, Brian Guy	Manor, SK	306-448-4813			C
Kerber, Greg	Rosthern, SK	306-232-4474			C
Lepp, Milton & Elden; & Neufeld, M.	Hepburn, SK	306-254-4243			C
Luck, Lorne C. & Landis	Tisdale, SK	306-873-4111			C
Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843			C
McCarthy, Richard J. & Brent	Corning, SK	306-224-4848			C
Medernach, Louis J. & Kim L.	Cudworth, SK	306-256-3398			C
Novak, Orrin	Kuroki, SK	306-338-2021		R	
Osborne, Nolan Stanley C.	Yorkton, SK	306-782-7113			C
Redman, Wayne G. & Collin M.	Margo, SK	306-324-4235			C
Rude, Stanley	Naicam, SK	306-874-2359			C
Rugg, Barry C. & Robert B.	Elstow, SK	306-257-3638		R	
Sandercock, Eric M.	Balcarres, SK	306-334-2958			C
Seidle, E. & B. & C. & M.	Medstead, SK	306-342-4377			C
Shewchuk, Stan, Lorne & Terry	Blaine Lake, SK	306-497-2800	S		C
Slind, Donald Edward	Archerwill, SK	306-323-4402		R	C
Sopatky, Jeffery & Patti	Saskatoon, SK	306-955-2516			C
South, Winston & Richard & Bradley	Melfort, SK	306-752-9840			C
Thompson, Jan Harris	Naicam, SK	306-874-5407			C
Tomtene, Steven & Slind, Daniel	Birch Hills, SK	306-749-3230		R	
Trawin, Brent John	Melfort, SK	306-752-4060			R
Trowell, Kenneth & Larry	Saltcoats, SK	306-744-2687	S		C
Trowell, Leslie	Saltcoats, SK	306-744-2684			R
Van Burck, Hans & Marianne	Star City, SK	306-863-4377	S	F	C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone, SK	306-893-2527			C
Watson, Wayne Donald & Calvin & Mark	Avonlea, SK	306-868-2171			C
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	306-236-6811			C
Wood, Leonard David	Wynyard, SK	306-554-2932			R
Woroschuk, Andrew	Calder, SK	306-742-4682			R
Yauck, Kevin Rodney	Govan, SK	306-484-4555			R
CDC COWBOY					
Ardell, Terrence, Michael, & Joanne	Vanscoy, SK	306-668-4415	S	R	
Fedoruk, Leah	Kamsack, SK	306-542-3645			R
Froese, Terrance P.	Rabbit Lake, SK	306-824-2121			C
Patzer, Wendell Albert	Frontier, SK	306-296-4780			C
Van Burck, Hans & Marianne	Star City, SK	306-863-4377	S	F	C
CDC FIBAR					
Hetland, Bill	Naicam, SK	306-874-5694	S		
Tomtene, Steven & Slind, Daniel	Birch Hills, SK	306-749-3230	S		R
CDC KAMSACK					
Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235	S		
CDC KENDALL					
Sperle, Bentley D. & Jody	Unity, SK	306-228-3160			R
Thompson, Jan Harris	Naicam, SK	306-874-5407			C
Viterra	Regina, SK	306-569-5027	S	F	R



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Van Burck, Hans & Marianne Star City, SK 306-863-4377 C

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Buziak, Ronald Charles Mayfair, SK 306-445-6556 R
Canterra Seeds Ltd. Winnipeg, MB 204-988-9750 F R C

Crosson, Lorne & Will & Lee Welwyn, SK 306-733-4593 S
Fedoruk, Rod M. & Cathy Kamsack, SK 306-542-4235 F R

Girodat, Gerald Shaunavon, SK 306-297-2913 C
Herle, Raymond & Gregory R. Wilkie, SK 306-843-2934 C

Mayerle, Kris Tisdale, SK 306-873-4261 R
Pfeifer, Robert G. Lemberg, SK 306-335-2532 C
Tomtene, Steven & Slind, Daniel Birch Hills, SK 306-749-3230 F C
Wiens, Rudy G. Herschel, SK 306-377-4800 S R

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CHAMPION

Novak, Roy Wadena, SK 306-338-2607 R
Viterra Regina, SK 306-569-5027 S F R

CONLON

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LEGACY

Berscheid, K.N. & B. & E.K. & S. & C. & Y. Lake Lenore, SK 306-368-2602 R
Cay, Randy D. Kinistino, SK 306-864-3696 R C

Fenton, Gerald A. & Robin Paul Tisdale, SK 306-873-5438 R C
Hardy, Brian & Calvin Grenfell, SK 306-697-3127 F R

Hettland, Bill Naicam, SK 306-874-5694 F
Ostafie, Dave & Robert Canora, SK 306-563-6244 R

Tomtene, Steven & Slind, Daniel Birch Hills, SK 306-749-3230 R
Viterra Regina, SK 306-569-5027 S C

MAJOR

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MERIT

Sopatky, Jeffery & Patti Saskatoon, SK 306-955-2516 S

MERIT 16

Crosson, Lorne & Will & Lee Welwyn, SK 306-733-4593 S

MERIT 57

Fedoruk, Rod M. & Cathy Kamsack, SK 306-542-4235 S
Trowell, Leslie Saltcoats, SK 306-744-2684 S

MILLHOUSE

Tomtene, Steven & Slind, Daniel Birch Hills, SK 306-749-3230 F

NEWDALE

Cay, Randy D. Kinistino, SK 306-864-3696 C
Frederick, Blaine Watson, SK 306-287-3977 R

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Smith, Ron T.W. & Barb A.	Limerick, SK	306-263-4944		C
Smith, Wayne D.	Limerick, SK	306-263-2144		C
Stauber, Clayton & Lori	Stewart Valley, SK	306-773-7907		C
Tanner, David A. & Hazel	Regina, SK	306-757-7012		C
Watson, Wayne Donald & Calvin & Mark	Avonlea, SK	306-868-2171		R
Willner, Lorne E.	Davidson, SK	306-567-4613		R

CDC IMAX - SMALL RED

Allan, John R. & John Garth	Corning, SK	306-457-2629	S	
Barlow, Bradley L.	Griffin, SK	306-842-6216	S	
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown, SK	306-882-2058	S	
Denis, Michel P. & Marc	St. Denis, SK	306-258-2075	S	
Dutton, David H. & George	Paynton, SK	306-895-4306	S	
Farley, William M. & James P.	Grand Coulee, SK	306-757-6844	S	
Hansen, James S.	Yellow Grass, SK	306-465-2525	S	
Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	306-694-2981	S	
McDougall, Ken & Craig	Moose Jaw, SK	306-693-3649	S	
Nakonechny, Don P, Coral, Lance, Lauren & Richelle	Ruthilda, SK	306-932-4409	S	
Reisner, Cecil & Barry	Limerick, SK	306-263-2139	S	
Renwick, Douglas Dale	Milestone, SK	306-436-4418	S	
Simpson, John W.	Moose Jaw, SK	306-693-2132	F	
Sopatyk, Jeffery & Patti	Saskatoon, SK	306-955-2516	S	
Stirton, Brian James	Moose Jaw, SK	306-693-2310	S	
Straub, Lorne A.	Pense, SK	306-345-2390	S	
Willner, Lorne E.	Davidson, SK	306-567-4613	S	

CDC IMIGREEN - MEDIUM GREEN

Beck, Gregor	Rouleau, SK	306-776-2432	S	
Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843	S	
McDougall, Ken & Craig	Moose Jaw, SK	306-693-3649	S	
Reisner, Cecil & Barry	Limerick, SK	306-263-2139	S	
Simpson, John W.	Moose Jaw, SK	306-693-2132	F	

CDC IMPACT - SMALL RED

Craswell, Raymond W.	Strasbourg, SK	306-725-3236		R
Fast, Walter J. & Linda	Kindersley, SK	306-463-3626		C
Mattus, Ronald	Chaplin, SK	306-395-2652		C
Schmeling, Donald H.	Riceton, SK	306-738-2064		C

CDC IMPALA - RED

Ardell, Terrence, Michael, & Joanne	Vanscoy, SK	306-668-4415		R C
Farley, William M. & James P.	Grand Coulee, SK	306-757-6844		R
Fast, Walter J. & Linda	Kindersley, SK	306-463-3626		C
Fenton, Gerald A. & Robin Paul	Tisdale, SK	306-873-5438	S F R	
Floberg, Barry & Delana & Devin & Brandon	Shaunavon, SK	306-297-2087		R
Latrace, Bill	Caronport, SK	306-693-2626		R
Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843	F	
Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	306-694-2981		R
Palmier, Maurice	Lafleche, SK	306-472-5917		R
Simpson, Jamie	Moose Jaw, SK	306-693-2132		C
Stirton, Brian James	Moose Jaw, SK	306-693-2310		C
Straub, Lorne A.	Pense, SK	306-345-2390		R
Willner, Lorne E.	Davidson, SK	306-567-4613		R

CDC IMPERIAL - SMALL RED

Ackerman, Patrick	Chamberlain, SK	306-638-3177		C
Fast, Walter J. & Linda	Kindersley, SK	306-463-3626		C
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Boft, Glen A.	Wynyard, SK	306-554-2078		C
Palmier, Maurice	Lafleche, SK	306-472-5917		C
Yauck, Kevin Rodney	Govan, SK	306-484-4555		C

CDC IMPOWER - LARGE GREEN

Annand, Glenn	Mossbank, SK	306-354-7675	S
Beck, Gregor	Rouleau, SK	306-776-2432	S
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown, SK	306-882-2058	S
Fast, Walter J. & Linda	Kindersley, SK	306-463-3626	S
Garratt, Lyle C. & K.C.	Milestone, SK	306-436-2178	S
Hansen, James S.	Yellow Grass, SK	306-465-2525	S
Hundeby, R., D., R., A., K. & L. & Wonnick, Adam	Elbow, SK	306-854-4901	S
Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843	S
Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	306-694-2981	S
McDougall, Ken & Craig	Moose Jaw, SK	306-693-3649	S
Reisner, Cecil & Barry	Limerick, SK	306-263-2139	S
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley, SK	306-778-2344	S
Simpson, John W.	Moose Jaw, SK	306-693-2132	F
Smith, Ron T.W. & Barb A.	Limerick, SK	306-263-4944	S
Sopatky, Jeffery & Patti	Saskatoon, SK	306-955-2516	S
Sudom, Blaine G. & Nathan	Avonlea, SK	306-868-4620	S
Watson, Wayne Donald & Calvin & Mark	Avonlea, SK	306-868-2171	S

CDC IMPRESS - MEDIUM GREEN

Greenshields, Grant & Jim & Callie	Semans, SK	306-524-2155	R
Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843	F R
Simpson, John W.	Moose Jaw, SK	306-693-2132	C

CDC IMPROVE - LARGE GREEN

Altwasser, Rodney & Allen R. & Dean	Yellow Grass, SK	306-465-2727	C
Annand, Glenn	Mossbank, SK	306-354-7675	C
Bruce, Vic R.	Tuxford, SK		C
Carlson, Keith W. & Grant	Outlook, SK	306-867-8571	C
Chute, Evan	Moose Jaw, SK	306-693-2007	C
Fast, Walter J. & Linda	Kindersley, SK	306-463-3626	C
Fraser, Scott & Shawn	Pambrun, SK	306-582-2148	C
Garratt, Lyle C. & K.C.	Milestone, SK	306-436-2178	C
Gellner, Clayton S.	Southey, SK	306-726-4323	C
Girardin, Gaetan	Meyronne, SK	306-264-5146	C
Gizen, Jason	Prelate, SK	306-673-2687	C
Klym, Roy	Regina, SK	306-543-5052	C
Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843	R C
Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	306-694-2981	C
Mattus, Ronald	Chaplin, SK	306-395-2652	C
Nakonechny, Don P, Coral, Lance, Lauren & Richelle	Ruthilda, SK	306-932-4409	R
Reisner, Cecil & Barry	Limerick, SK	306-263-2139	F R C
Rennick, Joe R. & William J.	Milestone, SK	306-436-4353	S F
Rugg, Barry C. & Robert B.	Elstow, SK	306-257-3638	C
Schmeling, Donald H.	Riceton, SK	306-738-2064	R
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley, SK	306-778-2344	C
Simpson, Trevor W.	Moose Jaw, SK	306-693-2132	C
Stirton, Brian James	Moose Jaw, SK	306-693-2310	C
Watson, Wayne Donald & Calvin & Mark	Avonlea, SK	306-868-2171	C

CDC INVINCIBLE - SMALL GREEN

Bruce, Vic R.	Tuxford, SK	306-631-7788	S
Garratt, Lyle C. & K.C.	Milestone, SK	306-436-2178	S
Heenan, Thomas Dale & Deb.	Regina, SK	306-522-9375	S
Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	306-694-2981	S
Reisner, Cecil & Barry	Limerick, SK	306-263-2139	S
Renwick, Douglas Dale	Milestone, SK	306-436-4418	S
Schmeling, Donald H.	Riceton, SK	306-738-2064	S
Seymour, Glen Patrick, Donne, Kyle, & Kelly	Stewart Valley, SK	306-778-2344	S
Simpson, John W.	Moose Jaw, SK	306-693-2132	F
Smith, Wayne D.	Limerick, SK	306-263-2144	S
Sopatky, Jeffery & Patti	Saskatoon, SK	306-955-2516	S
Stirton, Brian James	Moose Jaw, SK	306-693-2310	S
Sudom, Blaine G. & Nathan	Avonlea, SK	306-868-4620	S
Watson, Wayne Donald & Calvin & Mark	Avonlea, SK	306-868-2171	S

CDC KR-1 - LARGE RED

McDougall, Ken & Craig	Moose Jaw, SK	306-693-3649	S F
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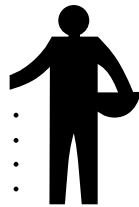
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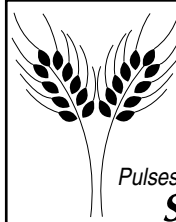
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 Sopatyk, Jeffery & Patti Saskatoon, SK 306-955-2516 S F

CDC LEMAY - FRENCH GREEN

Yauck, Kevin Rodney Govan, SK 306-484-4555 C

CDC MAXIM - SMALL RED

Amos, K. Wayne Oxbow, SK 306-483-2963 C
 Ardell, Terrence, Michael, & Joanne Vanscoy, SK 306-668-4415 C
 Barlow, Bradley L. Griffin, SK 306-842-6216 R
 Baxter, Daniel J.H. N. Battleford, SK 306-445-5414 F
 Craswell, Raymond W. Strasbourg, SK 306-725-3236 C
 Denis, Michel P. & Marc St. Denis, SK 306-258-2075 R
 Dutton, David H. & George Paynton, SK 306-895-4306 S F
 Fast, Walter J. & Linda Kindersley, SK 306-463-3626 S F
 Fraser, Scott & Shawn Pambrun, SK 306-582-2148 C
 Gizen, Jason Prelate, SK 306-673-2687 R
 Gregoire, Denis N. Battleford, SK 306-445-5516 R

Hanmer, Ronald F., Kent, Brad & Dallas Govan, SK 306-484-4327 R
 Hansen, James S. Yellow Grass, SK 306-465-2525 R
 Herle, Raymond & Gregory R. Wilkie, SK 306-843-2934 R
 Keyser, Robert Sean Cupar, SK 306-723-4949 C

Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Wynyard, SK 306-554-2078 R

Lutzer, Albert & Latrace, Jim & Sidebottom, Murray Lumsden, SK 306-731-2843 R
 Mayerle, Garry D. Tisdale, SK 306-873-5993 F
 McDougall, Ken & Craig Moose Jaw, SK 306-693-3649 S F R

Nakonechny, Don P, Coral, Lance, Lauren & Richelle Ruthilda, SK 306-932-4409 R
 Petruic, Cameron L., Judy & Nick Avonlea, SK 306-868-2294 R
 Reisner, Cecil & Barry Limerick, SK 306-263-2139 R
 Schumacher, Mark Delisle, SK 306-493-2937 C
 Simcoe Agservices Inc. Swift Current, SK 306-773-0803 C
 Simpson, Jamie Moose Jaw, SK 306-693-2132 C
 Sopatyk, Carter Saskatoon, SK 306-955-2516 R
 Sopatyk, Jeffery & Patti Saskatoon, SK 306-955-2516 S F R
 Stauber, Clayton & Lori Stewart Valley, SK 306-773-7907 R
 Stirton, Brian James Moose Jaw, SK 306-693-2310 R
 Straub, Lorne A. Pense, SK 306-345-2390 F

Veikle, Lorne A. & Carl, E., G. & J. Cut Knife, SK 306-398-4714 R
 Watson, Wayne Donald & Calvin & Mark Avonlea, SK 306-868-2171 R
 Wylie, Leslie Dale Biggar, SK 306-948-5394 R

CDC METEOR - MEDIUM GREEN

Beck, Gregor Rouleau, SK 306-776-2432 C

CDC PERIDOT - FRENCH GREEN

Yauck, Kevin Rodney Govan, SK 306-484-4555 S

CDC PLATO - LARGE GREEN

Klym, Roy Regina, SK 306-543-5052 C
 Mattus, Ronald Chaplin, SK 306-395-2652 C
 Petruic, Cameron L., Judy & Nick Avonlea, SK 306-868-2294 R

CDC RED RIDER - SMALL RED

Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Wynyard, SK 306-554-2078 R
 Simpson, Greg J. Moose Jaw, SK 306-693-2132 C

CDC REDBERRY - SMALL RED

Craswell, Raymond W. Strasbourg, SK 306-725-3236 F
 Hundebly, R., D., R., A., K. & L. & Wonnick, Adam Elbow, SK 306-854-4901 S
 Petruic, Cameron L., Judy & Nick Avonlea, SK 306-868-2294 R

CDC REDBOW - EXTRA SMALL RED

Simpson, Greg J. Moose Jaw, SK 306-693-2132 F
 Yauck, Kevin Rodney Govan, SK 306-484-4555 S

CDC REDCOAT - SMALL RED

Clark, Shaun & Gilchrist, Armand & Gibbings, Neil Rosetown, SK 306-882-2058 S
 Fast, Walter J. & Linda Kindersley, SK 306-463-3626 S
 Simpson, Greg J. Moose Jaw, SK 306-693-2132 F

CDC ROSEBUD - EXTRA SMALL RED

Greenshields, Grant & Jim & Callie Semans, SK 306-524-2155 S
 Simpson, Greg J. Moose Jaw, SK 306-693-2132 F



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CDC ROULEAU - SMALL RED

Mattus, Ronald	Chaplin, SK	306-395-2652	S	F
Yauck, Kevin Rodney	Govan, SK	306-484-4555		C

CDC VICEROY - SMALL GREEN

Heenan, William D. & E.H.	Regina, SK	306-757-8493		C
McDougall, Ken & Craig	Moose Jaw, SK	306-693-3649	R	
Rogg, Paul A.	Pennant, SK	306-626-3236		C

MUSTARD**AC VULCAN - ORIENTAL**

Mustard Capital Inc.	Gravelbourg, SK			C
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AMIGO - BROWN

Fritzler, Baine A., Brenda D. & Adam A.	Govan, SK	306-484-2010	S	
Sakai Spice	Lethbridge, AB		S	
Viterra	Regina, SK	306-569-5027	S	

ANDANTE - YELLOW

Besco Grain	Brunkild, MB		S	C
Fritzler, Baine A., Brenda D. & Adam A.	Govan, SK	306-484-2010	S	C
Mustard Capital Inc.	Gravelbourg, SK			C
Olds Mustard Company	Pleasant Prairie, WI	S		C

CENTENNIAL - BROWN

Besco Grain	Brunkild, MB		S	C
Mustard Capital Inc.	Gravelbourg, SK			C
Olds Mustard Company	Pleasant Prairie, WI	S		C
Viterra	Regina, SK	306-569-5027		C

CUTLASS - ORIENTAL

Bailey, Roy G.	Milden, SK	306-935-4702		C
Besco Grain	Brunkild, MB		S	C
Viterra	Regina, SK	306-569-5027		C

FORGE - ORIENTAL

Viterra	Regina, SK	306-569-5027		C
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Beuker, Allan Daniel	Melfort, SK	306-863-2225		R
Beuker, Wilbur A.	Melfort, SK	306-863-2225	F	C
Lepp, Milton & Elden; & Neufeld, M.	Hepburn, SK	306-254-4243		C
Madden, Wayne Arthur	St. Walburg, SK	306-248-3868		C
Rempel, Blair Allan	Nipawin, SK	306-862-3573		R
Robinson, Oren A. & Marlene	Landis, SK	306-658-4755		R
Schultz, Bernie Edwin	Choceland, SK	306-428-2847		R
Seidle, E. & B. & C. & M.	Medstead, SK	306-342-4377	F	R
Tebbutt, Ronald E. & Gregg	Nipawin, SK	306-862-9730		C
Trawin, Debra Ann	Melfort, SK	306-752-4060	F	
Trawin, John	Melfort, SK	306-752-4060		R
Zwingli, James Trent & Shelley	Melfort, SK	306-752-4224		R

CDC BALER - FORAGE

Lueke, Dennis	Humboldt, SK	306-682-5170	S	R
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CDC DANCER

Farley, William M. & James P.	Grand Coulee, SK	306-757-6844		C
Jones, Bradley & Wanda	Wadena, SK	306-338-2381		R
Littman, Larry W. & Allan B. & L.R. & Adam	Saltcoats, SK	306-783-6518		C
Lueke, Dennis	Humboldt, SK	306-682-5170		R
Olson, Lyndon Ordin	Archerwill, SK	306-323-4912		C
Trowell, Leslie	Saltcoats, SK	306-744-2684		R

CDC MINSTREL

Jones, Bradley & Wanda	Wadena, SK	306-338-2381	S	
Littman, Larry W. & Allan B. & L.R. & Adam	Saltcoats, SK	306-783-6518	S	
Ostafie, Dave & Robert	Canora, SK	306-563-6244	S	F
Van Burck, Hans & Marianne	Star City, SK	306-863-4377		F

CDC ORRIN

Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore, SK	306-368-2602		C
Fenton, Gerald A. & Robin Paul	Tisdale, SK	306-873-5438		R

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JORDAN					
Ennis, Garnet & Burton & Neil Niwanski, J. Paul	Glenavon, SK	306-429-2793			R
Palik, Jack	Melfort, SK	306-752-2399			C
Trowell, Kenneth & Larry Woods, Dale Arthur & June	Kipling, SK	306-736-2618			R
	Saltcoats, SK	306-744-2687			R
	Rocanville, SK	306-645-4423			R
LEGGETT					
Ardell, Terrence, Michael, & Joanne	Vanscoy, SK	306-668-4415	S		C
Boyd, Clare W. & Dale A.	Melfort, SK	306-752-2108	S	F	C
Edwards, Lawrence R., Donna, Jeff & Mike	Nokomis, SK	306-528-2140	S	F	
Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235			C
Fenton, Gerald A. & Robin Paul	Tisdale, SK	306-873-5438			C
Frederick, Blaine	Watson, SK	306-287-3977			R
Gaertner, Lyle	Tisdale, SK	306-873-4936			C
Hetland, Bill	Naicam, SK	306-874-5694			C
Kaeding, Roger W. & Warren Ostafie, Dave & Robert	Churchbridge, SK	306-896-2236			C
Slind, Donald Edward	Canora, SK	306-563-6244	S		
Smith, Ron T.W. & Barb A.	Archerwill, SK	306-323-4402			C
	Limerick, SK	306-263-4944			C
STAINLESS					
Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235			F
SUMMIT					
Littman, Larry W. & Allan B. & L.R. & Adam	Saltcoats, SK	306-783-6518	S		
Trowell, Leslie	Saltcoats, SK	306-744-2684	S		
SW BETANIA					
Jones, Bradley & Wanda Viterra	Wadena, SK	306-338-2381			C
	Regina, SK	306-569-5027			R
TRIACTOR					
Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235			F
Johnson, Oscar Stuart	Margo, SK	306-324-4315			C
Lung, Ivan & Schemenauer, S. & B.	Lake Lenore, SK	306-368-2511			R
South, Winston & Richard & Bradley	Melfort, SK	306-752-9840			C
Trowell, Leslie	Saltcoats, SK	306-744-2684			R
PEAS					
AGASSIZ - YELLOW					
Pfeifer, Robert G.	Lemberg, SK	306-335-2532			C
CAMRY - GREEN					
Fenton, Gerald A. & Robin Paul	Tisdale, SK	306-873-5438			C
CDC BRONCO - YELLOW					
Allan, Raymond N. & Ruth Brown, Kyle	Corning, SK	306-224-4666			C
Klym, Roy	Prince Albert, SK	306-922-0571			F
Luck, Lorne C. & Landis	Regina, SK	306-543-5052			C
Rempel, Blair Allan	Tisdale, SK	306-873-4111			C
Silversides, Roy P. & Ruby N.	Nipawin, SK	306-862-3573			C
Straub, Lorne A.	Corning, SK	306-457-2639			C
Warrington, John	Pense, SK	306-345-2390			R
Willner, Lorne E.	Mervin, SK	306-845-2642			C
	Davidson, SK	306-567-4613			R
CDC CENTENNIAL - YELLOW					
Allan, John R. & John Garth	Corning, SK	306-457-2629	S	F	
Barlow, Bradley L.	Griffin, SK	306-842-6216			F
Boyd, Clare W. & Dale A.	Melfort, SK	306-752-2108			R
Cresswell, Gordon B. & Bryan & Mark	Tisdale, SK	306-873-5360			F
Dutton, David H. & George	Paynton, SK	306-895-4306	S	F	
Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235			R
Fowler, Edith	Central Butte, SK	306-796-4652			R
Garratt, Lyle C. & K.C.	Milestone, SK	306-436-2178			R
Geiger, Timothy	Leader, SK	306-628-4335			R

Larsen, Lyle L. Lung, Ivan & Schemenauer, S. & B. Rempel, Blair Allan Simpson, Jamie Sperle, Bentley D. & Jody Tebbutt, Ronald E. & Gregg Van Burck, Hans & Marianne Watson, Wayne Donald & Calvin & Mark	Aylsham, SK Lake Lenore, SK Nipawin, SK Moose Jaw, SK Nipawin, SK Star City, SK Avonlea, SK	306-862-7333 306-368-2511 306-862-3573 306-693-2132 306-228-3160 306-862-9730 306-863-4377 306-868-2171	F R S F R S F R S F R
CDC GOLDEN - YELLOW			
Allan, John R. & John Garth Allan, John Richard Amos, K. Wayne Annand, Glenn Carefoot, Floyd Martin Chapple, Floyd & Debbie Floberg, Barry & Delana & Devin & Brandon Heggie, Robert Thomas Kerber, Greg Klym, Roy Mattus, Ronald McDougall, Ken & Craig Reisner, Cecil & Barry Tomtene, Steven & Slind, Daniel Travland, Glenn & Marie Travland, Norman & Lureen & Kevin	Corning, SK Corning, SK Oxbow, SK Mossbank, SK Swift Current, SK Grandora, SK Shaunavon, SK Leross, SK Rosthern, SK Regina, SK Chaplin, SK Moose Jaw, SK Limerick, SK Birch Hills, SK Coronach, SK Coronach, SK	306-457-2629 306-224-2021 306-483-2963 306-354-7675 306-773-6963 306-329-4697 306-297-2087 306-675-4920 306-232-4474 306-543-5052 306-395-2652 306-693-3649 306-263-2139 306-749-3230 306-267-4916 306-267-4923	R C R C S F R C C C R C F R C R C C C
CDC LEROY - FORAGE			
Amos, K. Wayne Annand, Glenn Boldt, Garry Herle, Raymond & Gregory R. Kaeding, Roger W. & Warren Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Maze, Norman Daryl	Oxbow, SK Mossbank, SK Osler, SK Wilkie, SK Churchbridge, SK Wynyard, SK Unity, SK	306-483-2963 306-354-7675 306-239-2071 306-843-2934 306-896-2236 306-554-2078 306-398-2637	S S F F S S F S S
CDC MEADOW - YELLOW			
Annand, Glenn Ardell, Terrence, Michael, & Joanne Bailey, Roy G. Bergstrom, Randy M. Berscheid, K.N. & B. & E.K. & S. & C. & Y. Beuker, Wilbur A. Bews, W. Kenneth & Brent W. Bolt, Dale & Scott & Tod Bruce, Vic R. Bryant, Lee & Phyl & Vern & Carol Carefoot, Lorne R. Carlson, Herbert E.P. & Leslie Cay, Randy D. Cresswell, Gordon B. & Bryan & Mark Crone, Regan Denis, Michel P. & Marc Dowdeswell, Keaton, L Dutton, David H. & George Edmunds, Greg & Glen Edwards, Lawrence R., Donna, Jeff & Mike Fast, Walter J. & Linda Fedoruk, Rod M. & Cathy Fenton, Gerald A. & Robin Paul Floberg, Barry & Delana & Devin & Brandon Fritzler, Baine A., Brenda D. & Adam A. Girodat, Gerald Greenshields, Grant & Jim & Callie Hanmer, Ronald F., Kent, Brad & Dallas Heavin, Larry N. & L. Warren Heavin, Milton Russell	Mossbank, SK Vanscoy, SK Milden, SK Birsay, SK Lake Lenore, SK Melfort, SK Eatonia, SK Wynyard, SK Tuxford, SK Battleford, SK Swift Current, SK Buchanan, SK Kinistino, SK Tisdale, SK Spalding, SK St. Denis, SK Pennant, SK Paynton, SK Tisdale, SK Nokomis, SK Kindersley, SK Kamsack, SK Tisdale, SK Shaunavon, SK Govan, SK Shaunavon, SK Semans, SK Govan, SK Melfort, SK Melfort, SK	306-354-7675 306-668-4415 306-935-4702 306-573-4625 306-368-2602 306-863-2225 306-967-2440 306-554-2076 306-937-3565 306-773-6970 306-592-4449 306-864-3696 306-873-5360 306-872-4625 306-258-2075 306-626-3388 306-895-4306 306-873-5480 306-528-2140 306-463-3626 306-542-4235 306-873-5438 306-297-2087 306-484-2010 306-297-2913 306-524-2155 306-484-4327 306-752-4020 306-752-4071	F R C C C R R C C C C F C C C C C C C C C C S R C C S F R R C C C S S F R C

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Herle, Raymond & Gregory R.	Wilkie, SK	306-843-2934	R
Hettland, Bill	Naicam, SK	306-874-5694	F C
Johnson, Oscar Stuart	Margo, SK	306-324-4315	C
Kaeding, Roger W. & Warren	Churchbridge, SK	306-896-2236	C
Klemmer, Richard	Nipawin, SK	306-862-3874	R
Klym, Roy	Regina, SK	306-543-5052	C
Labrecque, Roger	Saskatoon, SK	306-373-9379	C
Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Wynyard, SK	306-554-2078	S F R C
Littman, Larry W. & Allan B. & L.R. & Adam	Saltcoats, SK	306-783-6518	F R C
Lung Seeds Ltd.	Lake Lenore, SK	306-368-2414	C
Lung, Ivan & Schemenauer, S. & B.	Lake Lenore, SK	306-368-2511	C
Marcil, Harvey G. & Brent Louis	Moose Jaw, SK	306-694-2981	C
Mayerle, Bernhard C.	Tisdale, SK	306-873-4267	C
Mayerle, Erwin D.	Tisdale, SK	306-873-4261	C
Mayerle, Garry D.	Tisdale, SK	306-873-5993	C
Mayerle, Kris	Tisdale, SK	306-873-4261	C
McCarthy, Richard J. & Brent	Corning, SK	306-224-4848	C
McDougall, Ken & Craig	Moose Jaw, SK	306-693-3649	R
Moroz, Troy	Pelly, SK	306-595-4622	C
Novak, Orrin	Kuroki, SK	306-338-2021	C
Olson, Lyndon Ordin	Archerwill, SK	306-323-4912	C
Ostafie, Dave & Robert	Canora, SK	306-563-6244	F
Palmier, Maurice	Lafleche, SK	306-472-5917	C
Patzer, Wendell Albert	Frontier, SK	306-296-4780	C
Phelps, Douglas, C.	Prince Albert, SK	306-922-6016	F
Redman, Wayne G. & Collin M.	Margo, SK	306-324-4235	C
Reisner, Cecil & Barry	Limerick, SK	306-263-2139	R C
Rude, Stanley	Naicam, SK	306-874-2359	C
Sopatky, Jeffery & Patti	Saskatoon, SK	306-955-2516	S F R
South, Winston & Richard & Bradley	Melfort, SK	306-752-9840	C
Stauber, Clayton & Lori	Stewart Valley, SK	306-773-7907	C
Straub, Lorne A.	Pense, SK	306-345-2390	F
Tebbutt, Ronald E. & Gregg	Nipawin, SK	306-862-9730	S F R
Trawin, Alan Ross, Mitchell, Ashton, Jennifer & Jessica	Melfort, SK	306-752-4060	S F R
Trawin, Brent John	Melfort, SK	306-752-4060	S
Trowell, Leslie	Saltcoats, SK	306-744-2684	C
Van Burck, Hans & Marianne	Star City, SK	306-863-4377	S F R
Veikle, Lorne A. & Carl, E., G. & J.	Cut Knife, SK	306-398-4714	C
Wakefield, Kristopher & Laurie G. & Monica	Maidstone, SK	306-893-2527	R C
Warrington, John	Mervin, SK	306-845-2642	C
Watson, Wayne Donald & Calvin & Mark	Avonlea, SK	306-868-2171	C
Wilfing, Raymond John & Ryan John	Meadow Lake, SK	306-236-6811	C
Winterhalt, Tim	Unity, SK	306-228-3170	C
Woods, Dale Arthur & June	Rocanville, SK	306-645-4423	C
Woroschuk, Andrew	Calder, SK	306-742-4682	C
Yauck, Kevin Rodney	Govan, SK	306-484-4555	S F C
Youzwa, Donald	Nipawin, SK	306-862-5690	R
CDC PATRICK - GREEN			
Annand, Glenn	Mossbank, SK	306-354-7675	S F
Ardell, Terrence, Michael, & Joanne	Vanscoy, SK	306-668-4415	F
Berscheid, K.N. & B. & E.K. & S. & C. & Y.	Lake Lenore, SK	306-368-2602	S F
Clark, Shaun & Gilchrist, Armand & Gibbings, Neil	Rosetown, SK	306-882-2058	S
Cresswell, Gordon B. & Bryan & Mark	Tisdale, SK	306-873-5360	S F
Dutton, David H. & George	Paynton, SK	306-895-4306	S F
Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235	F
Fraser, Edward H. & Glen & Dale	Yarbo, SK	306-745-3830	F
Greenshields, Grant & Jim & Callie	Semans, SK	306-524-2155	F
Heavin, G. Harvey & G. Ryan	Melfort, SK	306-752-4171	S F
Hettland, Bill	Naicam, SK	306-874-5694	S F
Kaeding, Roger W. & Warren	Churchbridge, SK	306-896-2236	F
Lung, Ivan & Schemenauer, S. & B.	Lake Lenore, SK	306-368-2511	F
Lutzler, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843	F
Ostafie, Dave & Robert	Canora, SK	306-563-6244	S
Rugg, Barry C. & Robert B.	Elstow, SK	306-257-3638	S F



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CDC PROSPER - YELLOW

Bruce, Vic R. Bryant, Lee & Phyl & Vern & Carol Clearwater, Don W. Dutton, David H. & George Fedoruk, Rod M. & Cathy Fenton, Gerald A. & Robin Paul Greenshields, Grant & Jim & Callie Kaeding, Roger W. & Warren McDougall, Ken & Craig South, Winston & Richard & Bradley Walker, Vincent C.	Tuxford, SK Battleford, SK Nipawin, SK Paynton, SK Kamsack, SK Tisdale, SK Semans, SK Churchbridge, SK Moose Jaw, SK Melfort, SK Melfort, SK	306-631-7788 306-937-3565 306-862-3025 306-895-4306 306-542-4235 306-873-5438 306-524-2155 306-896-2236 306-693-3649 306-752-9840 306-863-4110	R F F S F S F F F
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CDC ROCKET - MAPLE

Herle, Raymond & Gregory R.	Wilkie, SK	306-843-2934	R
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CDC SAGE - GREEN

Baxter, Barry Arnold Cresswell, Gordon B. & Bryan & Mark Danielson, Lionel & Bonnie Fedoruk, Rod M. & Cathy Fraser, Edward H. & Glen & Dale Hleck, Leo Johnson, Oscar Stuart Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A. Luck, Lorne C. & Landis Lutzer, Albert & Latrace, Jim & Sidebottom, Murray Mayerle, Bernhard C. Mayerle, Erwin D. Medernach, Louis J. & Kim L. Novak, Orrin Petruic, Cameron L., Judy & Nick Rude, Stanley Rugg, Barry C. & Robert B. Slind Seeds Group (1998) Ltd. Tomtene, Steven & Slind, Daniel Veikle, Lorne A. & Carl, E., G. & J.	Codette, SK Tisdale, SK Norquay, SK Kamsack, SK Yarbo, SK Codette, SK Margo, SK Wynyard, SK Tisdale, SK	306-862-5723 306-873-5360 306-594-2173 306-542-4235 306-745-3830 306-862-5966 306-324-4315 306-554-2078 306-873-4111	R F S R F R R C
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Lumsden, SK Tisdale, SK Tisdale, SK Tisdale, SK Cudworth, SK Kuroki, SK Avonlea, SK Naicam, SK Elstow, SK Archerwill, SK Birch Hills, SK Cut Knife, SK	306-731-2843 306-873-4267 306-873-4261 306-256-3398 306-338-2021 306-868-2294 306-874-2359 306-257-3638 306-323-4402 306-749-3230 306-398-4714	C C C C C S R C C C F C
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CDC STRIKER - GREEN

Berscheid, K.N. & B. & E.K. & S. & C. & Y. Dutton, David H. & George Gregoire, Denis Heavin, Larry N. & L. Warren Lung Seeds Ltd. Lung, Leonard & D. & B. Medernach, Louis J. & Kim L. Rude, Stanley Woods, Dale Arthur & June	Lake Lenore, SK Paynton, SK N. Battleford, SK Melfort, SK Lake Lenore, SK Lake Lenore, SK Cudworth, SK Naicam, SK Rocanville, SK	306-368-2602 306-895-4306 306-445-5516 306-752-4020 306-368-2414 306-368-2414 306-256-3398 306-874-2359 306-645-4423	C C R C S F R R C R C
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CDC TREASURE - YELLOW

Berscheid, K.N. & B. & E.K. & S. & C. & Y. Brown, Keith Brown, Kyle Denis, Michel P. & Marc Fedoruk, Rod M. & Cathy Greenshields, Grant & Jim & Callie Lung, Ivan & Schemenauer, S. & B. McCarthy, Richard J. & Brent Sanderson, Everett D. & Wanda Smith, Ron T.W. & Barb A. Willner, Lorne E.	Lake Lenore, SK Prince Albert, SK Prince Albert, SK St. Denis, SK Kamsack, SK Semans, SK Lake Lenore, SK Corning, SK Rosetown, SK Limerick, SK Davidson, SK	306-368-2602 306-922-8053 306-922-0571 306-258-2075 306-542-4235 306-524-2155 306-368-2511 306-224-4848 306-882-3371 306-263-4944 306-567-4613	S S S S S S S S S S S S S
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Girodat, Gerald Greenshields, Grant & Jim & Callie	Shaunavon, SK	306-297-2913		C
Kaeding, Roger W. & Warren Laxdal, G.M.; Blyth, D., Gregory, Wayne & Richard & Bolt, Glen A.	Semans, SK Churchbridge, SK	306-524-2155 306-896-2236	S S	C C
Tanner, David A. & Hazel Van Burck, Hans & Marianne	Wynyard, SK Regina, SK Star City, SK	306-554-2078 306-757-7012 306-863-4377	S	C C

COOPER - GREEN

Pfeifer, Robert G.	Lemberg, SK	306-335-2532		C
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DS-ADMIRAL - YELLOW

Buziak, Ronald Charles Cay, Randy D. Hyndman, David Wilfing, Raymond John & Ryan John	Mayfair, SK Kinistino, SK Balcarres, SK Meadow Lake, SK	306-445-6556 306-864-3696 306-334-2914 306-236-6811		C R R C
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HUGO - YELLOW

Fedoruk, Rod M. & Cathy Trowell, Leslie	Kamsack, SK Saltcoats, SK	306-542-4235 306-744-2684	S S	F F
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MFR081 - MARROW FAT

Hetland, Bill	Naicam, SK	306-874-5694		F
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NOBLE - YELLOW

Ostafie, Dave & Robert	Canora, SK	306-563-6244		R
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POLSTEAD - YELLOW

Blenkin, Leonard G. & Larry K. Edwards, Lawrence R., Donna, Jeff & Mike	Sintaluta, SK Nokomis, SK	306-727-2222 306-528-2140		C R
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Hardy, Allan W. & Dale & Evan Van Burck, Hans & Marianne Wilfing, Raymond John & Ryan John	Grenfell, SK Star City, SK Meadow Lake, SK	306-697-3128 306-863-4377 306-236-6811		C C C
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REWARD - YELLOW

Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235	S	
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SORENTO - YELLOW

Charabin, Dale Kenneth & Timothy V. & Ryan Trowell, Leslie Yauck, Kevin Rodney	N. Battleford, SK Saltcoats, SK Govan, SK	306-445-2939 306-744-2684 306-484-4555		R C R
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STELLA - FORAGE

Van Burck, Hans & Marianne	Star City, SK	306-863-4377	S F	
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SW MIDAS - YELLOW

Trowell, Leslie	Saltcoats, SK	306-744-2684	F	R
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SW SERGEANT - GREEN

Pfeifer, Robert G.	Lemberg, SK	306-335-2532		R C
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TALENTO - YELLOW

Smith, Ron T.W. & Barb A.	Limerick, SK	306-263-4944	F	R
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TAMORA - GREEN

Ostafie, Dave & Robert	Canora, SK	306-563-6244		R
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THUNDERBIRD - YELLOW

Clancy, Kenneth Crosson, Lorne & Will & Lee Hyndman, Glen Trowell, Leslie	Carrot River, SK Welwyn, SK Balcarres, SK Saltcoats, SK	306-768-2902 306-733-4593 306-334-2914 306-744-2684	S F R	C C C R
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TRAPPER - YELLOW

Johnson, Oscar Stuart Meier, Garry L.	Margo, SK Ridgedale, SK	306-324-4315 306-277-2110	S F	C C
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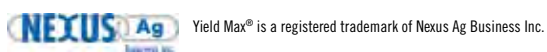
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Fedoruk, Rod M. & Cathy	Kamsack, SK	306-542-4235	S
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Lutzer, Albert & Latrace, Jim & Sidebottom, Murray	Lumsden, SK	306-731-2843	C
Meili, James Patrick	Moose Jaw, SK	306-692-5767	C
Ostafie, Dave & Robert	Canora, SK	306-563-6244	C
Palmier, Maurice	Lafleche, SK	306-472-5917	C
Patzer, Wendell Albert	Frontier, SK	306-296-4780	C
Rude, Stanley	Naicam, SK	306-874-2359	C

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