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ECO-FRIENDLY WEDDINGS | PAGE 16

GENETIC DILEMMAS | PAGE 47

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What lurks in Alberta fields?

A mild winter combined with an early, warm spring could give the pea leaf weevil a boost this year. Producers are urged to be on guard. | Page 51

**Animal rehab gets a lift**

The Western College of Veterinary Medicine is working with a more humane and effective device to lift large animals. | Page 56



RESEARCH

Cattle feed additive could boost immunity

BY BARB GLEN
LETHBRIDGE BUREAU

A Canadian company has developed a potential alternative to prophylactic antibiotic use in livestock.

Avivagen president Cameron Groome said the product's development is well timed, given ongoing concerns about antibiotic resistant bacteria, antibiotic use in livestock and food company initiatives to use meat from animals never given antibiotics.

The feed additive, called OxC-beta, is derived from carotenoids, which are the pigments that make carrots orange and tomatoes red.

Groome said peer-reviewed research in Canada and several Asian countries shows OxC-beta improves immune and anti-inflammatory functions in poultry and hogs.

"You're actually strengthening the immune function of the animal in such a way that it doesn't need to be fed antibiotics to stay healthy in a production environment, and that's what we've been demonstrating," said Groome.

SEE FEED ADDITIVE, PAGE 5 »

WORKING THE LATE SHIFT



Michael Hamm puts the lid on a load of soybeans for the final seeding run of the evening on one of Perry Soper's fields near Gladstone, Man., as a full moon rises. There's an old gardener's tale that says frost will not occur until after the full moon in May. Soper was expecting to be finished seeding by the end of the long weekend. | SANDY BLACK PHOTO

PULSES

Canadian lentils sub-par?

International buyers disappointed in quality of Canadian lentil exports

BY SEAN PRATT
SASKATOON NEWSROOM

CESME, Turkey — Some international buyers of Canadian lentils are not happy with the quality they're getting.

"As millers, we are very disappointed in the quality the Canadian system allows suppliers to supply as lentils," said Saifuddin Abidali, chair of Mufaddal, an Egyp-

tian pulse crop miller.

"We don't know what we're buying," Abidali told delegates attending the 2016 Global Pulse Convention in Turkey.

"It's a very serious problem, mainly with the bulk shippers."

He said Canada's grading system is designed to camouflage the true quality of lentil shipments.

"They have adjusted the grades to

suit the shippers and not the buyers," Abidali said in an interview following the lentil market outlook presentation.

He believes the specifications for a No. 2 quality lentil are far too broad and need to be tightened because often what he receives is what he considers to be No. 3 quality product.

SEE BUYERS DISAPPOINTED, PAGE 4 »



SEAN PRATT REPORTS
FROM THE GLOBAL PULSE
CONVENTION IN CESME,
TURKEY, ABOUT WHAT IS
DRIVING PULSE MARKETS



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WHAT'S IN THIS ISSUE

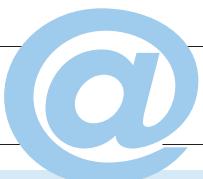


Humane horse lift: The Western College of Veterinary Medicine is helping to create a better horse lift. See page 56. | TENNESSA WILD PHOTO

NEWS

- » **WOLF PROBLEM:** Manitoba cattle producers say wolves are a growing problem, but the province disagrees. **4**
- » **NEW PED CASE:** Another case of the porcine epidemic diarrhea virus has been found in Manitoba. **13**
- » **HARD TO REGISTER:** The approval process for new animal health products is said to be too difficult. **15**
- » **GM ANIMAL STUDY:** The federal ag committee is asked to study GM animals. Some MPs are upset. **23**

WHAT'S HAPPENING



FEATURES



GLOBAL PULSE MEET

WP reporter Sean Pratt travelled to Cesme, Turkey, to report on the 2016 Global Pulse Convention held there recently. Check out his coverage.

WOLF PREY POLL

Statistics don't indicate an increase in wolf predation on livestock in Manitoba. Biologists say elk and deer are more popular prey. What does your experience indicate?

PEA LEAF WEEVIL POLL

Southern Alberta is suffering through the worst pea leaf weevil outbreak in its history. How are your crops doing? Take our online poll and let us know.

PLUS: The number of entries in our #Plant16 photo contest continues to grow. Check out our collection at producer.com/plant16/.

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VIDEOS

HORSE LIFT

A computerized lifting device will make treating horses easier and help their rehab.



MARKETS WRAP

WP Markets editor D'Arce McMillan looks at the week's top developments in crop markets.



THE WESTERN PRODUCER

COLUMNISTS

- » **D'ARCE MCMILLAN:** The current crop price rally could be losing momentum. **9**
- » **KELSEY JOHNSON:** Dairy farmers speak out on diafiltered milk imports. **10**
- » **KEVIN HURSH:** Family run farms have strengths but also weaknesses. **11**
- » **TERRY FRIES:** Our long-time news editor is moving to British Columbia. **11**
- » **CLARE ROWSON:** Gluten-free diets should be avoided if not medically necessary. **17**
- » **SARAH GALVIN:** Rhubarb is a tart and tasty sign that spring has arrived. **17**
- » **LORNA MCILROY:** Habitat protection can help save important pollinators. **19**
- » **JACKLIN ANDREWS:** Making the case against spanking children. **20**
- » **BRUCE DYCK:** In 1966, there was a call for farm prices to match workers' wages.. **21**
- » **CHARLES RENNY:** Getting to the bottom of a truck's wildly different performances. **53**
- » **JOHN CAMPBELL:** Vaccines are crucial for getting calves off to a good start. **58**
- » **COLIN MILLER:** Dividing the land between farming and non-farming children. **61**

REGULAR FEATURES

Ag Stock Prices	60
Classifieds	25
Livestock Report	9
Market Charts	62
Opinion	10
Open Forum	12
On The Farm	18
Weather	63

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PULSE MARKETING

Pulse sector brand created to boost global demand

Sean Pratt attended the 2016 Global Pulse Convention in Turkey and filed this report. More stories are featured on page one and in our Markets section.

CESME, Turkey — Plenty of competition exists in the global pulse industry, but there is one area where countries are co-operating.

"We're ready to start rolling out the marketing of the global brand," said Gord Bacon, chief executive officer of Pulse Canada.

The brand is a joint initiative of the Global Pulse Confederation, the American Pulse Association, the USA Dry Pea and Lentil Council and Pulse Canada.

It can be used for promotional purposes by food manufacturers, retailers, traders, exporters, growers, pulse industry associations, government, non-government organizations and research institutes. The objective is to increase consumer awareness and stimulate global pulse demand.

"What we've lacked until recently in the pulse industry is a common front to work together," Bacon told delegates attending the 2016 Global Pulse Convention in Turkey.

Organizations will pay a US\$50 administrative fee to use the brand on promotional material.

Growers, exporters, processors, food and pet food manufacturers, retailers and foodservice providers can pay a \$1,500 annual fee to use the brand on food labels and advertising.

They can use it on an unlimited number of products as long as they meet the eligibility criteria of pulse ingredients accounting for five percent of the formulation by weight and being one of the top five ingredients by weight.

Daria Lukie, manager of brand development with Pulse Canada, said it is nice to have an image that



DARIA LUKIE
PULSE CANADA

universally represents pulses.

"People don't know what pulses are and they don't have something that they can see and recognize," she said.

Food companies are already starting to use the brand on their packaging, including the Princes Food and Drink Group, a British company that supplies European grocery stores.

"They have the pulse brand coming out right now with 82 million cans," said Lukie.

Major food companies such as General Mills, the Campbell Soup Company and Loblaw's have also expressed interest in using the brand.

The brand is flexible and can be customized for the desired message in different markets, such as adding a health claim.

It was developed in consultation with a brand advisory committee, which had representatives from Africa, India, Canada and the United States.

It will be administered by the Global Pulse Confederation's brand management committee, which includes representatives from Canada, the United States, India, Australia and Turkey.

Bacon said the brand is a way to carry on the momentum built by the 2016 International Year of the Pulse.

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IMAGE BURNED INTO MEMORY



A tractor fire broke out at Webton Dairy Farm near Alma, Ont. The tractor was over a manure pit and nobody was injured and no other damage was reported. The image has been entered in a photo contest run by the International Federal of Agricultural Journalists. To vote, enter your email address and follow the prompts at wshe.es/XYzMkvQ2. | SHARON GROSE PHOTO

MANITOBA GOVERNMENT

KAP welcomes govt action on interprovincial trade

The Progressive Conservatives are moving on the New West Partnership agreement to reduce red tape across provincial borders

BY ED WHITE
WINNIPEG BUREAU

Manitoba's agri-businesses should be thrilled that the new provincial government is aggressively seizing trade opportunities, says the Manitoba Chambers of Commerce.

"We've got a government that is sending all the right messages to business, that they're in favour of looking at all those trade opportunities and working with Manitoba businesses to take full advantage of those when they come into fruition," said MCC president Chuck Davidson.

One of the earliest acts of premier Brian Pallister's new Progressive Conservative government was to begin negotiations to sign the New

West Partnership agreement, which includes Saskatchewan, Alberta and British Columbia.

Canada has many interprovincial trade barriers and complexities, but the New West Partnership is a forum in which the three governments, and probably soon Manitoba, can eliminate, reduce and mitigate regulatory complications that stop businesses operating across provincial lines.

Agriculture and food production are industries particularly affected by cross-border complications with services such as trucking often facing different rules in different provinces. Those rules are evening out to the west of Manitoba, and Davidson said he hopes to see more wrinkles removed once Manitoba is a member.



DAN MAZIER
KEystone Agricultural Producers

Keystone Agricultural Producers president Dan Mazier was also pleased to see Pallister move on the New West Partnership.

"We're so integrated into each other, as the western part of Canada," said Mazier.

"Being isolated in a province that

is landlocked is not a good idea. It puts you in really awkward situations."

Many interprovincial complications lie to the east as well, so Davidson is hoping that Manitoba joining the New West Partnership helps create momentum for further cross-Canada improvements.

"We'd love to see that consistency across Canada, but this is a good start for Manitoba," said Davidson.

The Pallister government also pleased many food processors and producers by quickly stating its strong support for the Trans-Pacific Partnership.

He said the provincial government doesn't have much say over whether the international trade deal is approved, but showing that

it understands the importance of trade and exports sends a good signal.

"They look at these as tremendous opportunities," Davidson said about food processors.

"We're obviously hugely in favour."

KAP is also happy about the support for TPP, but Mazier said it also hopes the provincial government stays attuned to the worries of supply-managed sectors, who are concerned about the TPP.

"I think it's good that they're encouraging (TPP) because 80 percent of our goods we export ... but don't forget we have a very good-running sector of supply management farmers," said Mazier.

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BUYERS DISAPPOINTED

» CONTINUED FROM PAGE 1

There can be a \$100 per tonne difference between what he paid for and what he receives.

"That's a lot of money," he said.

Abidali said he does not have the same issue with product from Australia, which is why he is shifting his business to that exporting region.

"They're more honest about grading," he said.

He insisted that he is not the only buyer who has a problem with Canadian product.

"You ask any miller in this room and they'll have the same problem with Canada."

Other buyers indeed echoed Abidali's concerns.

"I completely agree with you," said Sudhakar Tomar, managing director of Hakan Agro, a company that exports US\$1.5 billion of agricultural commodities annually.

He said the quality needs to match the demand, but that is not the case with Canadian lentils.

Anis Majeed, chair of the Karachi Wholesale Grocers Association, said the quality of Canadian lentil shipments tends to change based on what kind of crop was harvested. For example, the definition of what constitutes a top quality lentil becomes more lenient if growing conditions are poor.

"If the No. 1 crop is not grown, it should be No. 2 or No. 3," he said.

"Sometimes we have to handle a very difficult situation because the quality is not as per the standard which has been sold."

Gord Bacon, chief executive officer of Pulse Canada, said he thinks the issue is that there is a wide divide between the bottom and the top of the No. 2 grade.

However, he said Canada's grading system can also work in favour of buyers. A buyer could pay for No. 2 and receive No. 1 quality lentils in years when weather conditions are favourable for producing good quality lentils.

He encourages buyers to provide detailed language in contracts about their quality specifications and how disputes will be resolved.

Bacon said the Canadian industry pays close attention to customer criticisms. A number of years ago, the industry lowered the moisture content level on lentils based on feedback from buyers.

Pulse Canada will delve deeper into the complaint that surfaced at the convention and take it back for discussion with the board of directors.

Bacon said buyers are happier with Australian lentils because they are harvested during the heat of summer and subsequently have low moisture levels.

"They're going into summer when they harvest and we're headed into winter," he said.

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FOR MORE STORIES FROM TURKEY, SEE PAGE 3, AND OUR MARKETS SECTION, WHICH STARTS ON PAGE 6. »

What's your take? Join us at www.producer.com or follow us on social media.



GOING FULL TILT

It's a busy seeding season in the fields near High River, Alta., May 29. | MIKE STURK PHOTO

PREDATOR CONTROL

Hunting the hunters

Livestock producers say wolf populations are growing and moving into new territories

BY ROBERT ARNASON

BRANDON BUREAU

ROBLIN, Man. — Gary Fletcher looks exactly how a cattleman should look.

With a greying mustache and the eyes of someone who has spent countless hours peering into the distance looking for cattle, Fletcher wore cowboy boots, spurs, chaps, a black hat and a scarf on a stormy afternoon in late May.

Fletcher, manager of a community pasture near Roblin, Man., chooses to dress in the customary cowboy gear, but he also carries a traditional tool for the job: a rifle.

The gun isn't a decoration. He has used it more than 20 times to shoot wolves that attacked cattle in Manitoba's Parkland region.

Fletcher was a pasture manager near Ethelbert, Man., for 17 years before taking a position at the Roblin community pasture this year. Standing by a corral at the pasture, Fletcher said there's been an upsurge in wolf attacks over the last five to 10 years near Manitoba's Duck Mountain Provincial Park.

"There was the odd kill (17 years ago, but) it gradually started increasing.... This past season there were certain areas of the (Ethelbert) pasture where we were having one kill a week," Fletcher said inside a shed next to the corral as hail hammered down on the metal roof.

"That's a 350 to 400 pound calf on a weekly basis until we were

able to target that one (wolf) and go him."

However, the increase in wolf attacks isn't limited to cattle ranches adjacent to Duck Mountain and Riding Mountain National Park. Wolves have also moved well outside their traditional range and now populate southern and western parts of Manitoba, Fletcher said.

"You talk to other (pasture) managers in different areas, like Spy Hill (at the Manitoba-Saskatchewan border) or Gardenton south of Winnipeg, areas where we've never seen wolves before, all of a sudden there are wolves everywhere."

Fletcher estimated that he or employees had to kill about 100 troublesome wolves during his 17 years as pasture manager at Ethelbert.

Len Angus, who raises purebred Limousin cattle north of Roblin, has also witnessed the recent change in wolf behaviour.

Moose and elk have migrated out of Duck Mountain Provincial Park over the last decade, and the wolves followed their natural prey. They begin to target cattle once outside the park, Angus said.

"A wolf takes its lunch wherever it's easiest. They're finding out that cattle are easy," said Angus, whose home is only 1.6 kilometres from the park boundary.

"Not just in Roblin. Anywhere you go in the province, people are having trouble with predators. And they're having trouble with wolves,

not just coyotes.... One guy down there on the edge of the park (Riding Mountain), three years ago, he lost 19 calves to wolves."

Wolves have killed seven calves and attacked one cow on Angus's ranch over the last couple of years.

Mark Angus, Len's son, said the province does compensate ranchers for livestock predation, but it only covers a fraction of the financial loss.

For example, the loss can be substantial if wolves kill two purebred calves.

"(If) those two cows because of the stress (of predators) ... come in void, then we're out two calf crops," Mark said.

"Say a low dollar value, \$4,000 a calf, we're out \$16,000. How many businesses can cover \$16,000 worth of loss?"

Angus said there's an obvious solution to the problem: cull the wolf population outside of the parks.

"If they (the government) would pay a \$400 bounty on wolves, we probably wouldn't need to worry about them," he said.

"It's just an overpopulation of the wolves."

There are other ways to prevent predators from attacking livestock, such as using dogs, donkeys or llamas to protect the herd. Those prevention strategies might work with coyotes but not with wolves, Angus said.

"A coyote and a wolf, they're totally different animals," he said.

"They talk about Great Pyrenees dogs, but (a neighbour) had two Great Pyrenees and the wolves killed them."

Fletcher agreed that guard animals don't always work with wolves.

"Around Valley River, closer to Dauphin, there was a farm that had two donkeys, three horses and a llama," he said. "The wolves came in there and killed the llama and two donkeys."

In 2011, the provincial government introduced an incentive program to reduce the wolf population in the Duck Mountain Provincial Park and other hunting areas in the region. The province offered \$250 per trapped wolf because the moose population in the area was declining.

Angus said the program hasn't been effective.

"It obviously hasn't worked for us because everyone around the park is still having problems (with wolves)."

Angus said cattle producers and government wildlife experts recognize that a wolf cull is necessary, but policy makers are dancing around the obvious solution. Politicians know that placing a bounty on wolves is risky because the wolf is an iconic species.

"These answers you get from (the government), they're all scripted," Angus said.

"As long as man has been here... (we) have had to cull wolves. It's no different today."

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CATTLE FEED ADDITIVE

» CONTINUED FROM PAGE 1

The product was developed by Graham Burton and Janusz Daroszewski, Canadian chemists with the National Research Council. They were studying carotenoids and explored the non-vitamin health properties of certain fruits and vegetables that were not explained by anti-oxidant properties.

Their research led to development of a powder comprising 10 percent fully oxidized beta-carotene that can be added to livestock feed.

"We're able to see protective and growth promotion effects that are equivalent in some cases, superior in others, to what is observed with many of the antibiotic regimens," he said.

Groome said proof of concept work on efficacy has been done on OxC-beta at the University of Alberta and the University of Calgary, and the most advanced commercial applications are likely to be in hogs and poultry.

Multiple trials on those species have been conducted in Asia, where Groome said several countries, including Thailand, Taiwan, South Korea, Philippines, Vietnam and China, have expressed interest in registration and use.

He said a large study in Vietnam found that OxC-beta boosted growth in piglets by more than 20 percent over a control group in the first month after weaning. A standard antibiotic regimen produced a six percent growth boost compared to the control.

"We've got every reason to believe there would be tremendous applications of this in dairy cattle, beef cattle, laying hens and even aquaculture, but we don't yet have commercial protocols that we can really say, 'yes, this is exactly how you should use the product, this is the optimum dose level.'

"But we've really reached that point in swine and broilers now," Groome said.

Product pricing will be competitive with that of antibiotic growth promoters, he added, which is about \$5 per tonne of feed to which OxC-beta is added.

"There are natural analogs to our product and there is an inherent safety to them because they've been a part of the food chain for as long as there have been plants making pigments," he said.

Groome said the product is manufactured in Asia because a lack of Canadian registration means it can't be exported.

"I'd love to be in a position to set up a production facility here in Canada because we'll ultimately need a lot more than we can currently supply, but again, we would need Canadian registration in order to bring that home," he said.

"I wish I could say with certainty that we will be pursuing (registration in) Canada, but there's a number of feed products, novel antibiotic alternatives that people would love to market in Canada and it's not a clearly defined pathway for registration."

"For patriotic reasons, we'll certainly pursue it, but economically, there are a lot of places that are screaming for these products and are welcoming you to pursue registration."

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FOR A RELATED STORY, SEE PAGE 15 »



PREDATOR CONTROL

Wolf control measures are working: biologist

Researchers say wolf populations in Manitoba are stable, thanks to incentive programs

BY ROBERT ARNASON

BRANDON BUREAU

A provincial biologist says the evidence doesn't support the theory that Manitoba's wolf population is growing and that attacks on cattle are more frequent.

For five years, the provincial government has paid trappers \$250 per wolf caught in Duck Mountain Provincial Park and other areas where the moose population is at risk.

Hank Hristienko, a big game biologist with Manitoba Sustainable Development who specializes in bears, moose and wolves, said the incentive program has cut into the wolf population in the Parkland region.

"Wolf numbers have been kept lower, over the last five years, during the term of the program," he said.

"That is one area (of the province) where wolf numbers are down compared to other areas."

Hristienko also said wolf predation claims, which compensate livestock producers for animal losses, are basically unchanged across Manitoba.

"Based on the past five years ... claims have remained about the same."

Some ranchers may assume that a declining moose population means wolves lack prey and are turning their attention to cattle.

Hristienko said there's no link between moose numbers and the likelihood of attacks on cattle because moose are a secondary food source for wolves.



Statistics may not show an increase in wolf attacks, but the province does want to mitigate wolf-livestock "conflicts" in Manitoba and is working on a predation management strategy. | FILE PHOTO

The province and the University of Manitoba conducted a joint study to evaluate a wolf's diet in the Parkland region. They found that wolves prefer to prey on elk and deer.

"The species of choice in the (Duck Mountains) is deer. The species of choice in the Riding Mountain area is elk," Hristienko said.

"Moose, on average, would be in around the 20 percent mark (of

the diet), where deer and elk, depending on the area, would be closer to 50 to 60 percent."

Statistics may not show an increase in wolf attacks, but the province does want to mitigate wolf-livestock "conflicts" in Manitoba. As a result, government experts and Manitoba Beef Producers are collaborating on a predation management strategy.

"We've reviewed the best practices from around the world,"

Hristienko said.

"The next step is to develop a set of strategies best suited to our dynamic (in Manitoba), but the emphasis will be prevention."

The province plans to do an aerial survey next year in the Duck Mountains and other parts of the Parkland to assess the moose population and the effectiveness of the wolf-trapping program.

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LENTIL SUPPLY

Green lentils a hot commodity



SEAN PRATT REPORTS
FROM THE GLOBAL PULSE CONVENTION IN CESME, TURKEY, ABOUT WHAT IS DRIVING PULSE MARKETS

CESME, Turkey — Canada is sold out of green lentils, and the forecast is for another tight year in 2016-17.

"Farm bins are empty. Warehouses and pipelines are empty," said Gerald Donkersgoed, vice-president of Ilta Grain.

"We have cleaned out the crop and I would suggest we didn't grow enough green lentils last year."

Stat Publishing believes Canadian growers planted 1.44 million acres of green lentils this spring, a 37 percent increase over last year.

Donkersgoed said the crop is in fantastic shape, but he worries that it could be a wet summer, which would boost yields but possibly lead to disease and quality problems at harvest.

"The one thing that keeps me awake at night is just how we're going to finish off the rest of this growing season," he said.

Stat is forecasting 655,000 tonnes of large green lentil production in Canada based on the previous five-year average yield of 1,367 pounds per acre, which would result in 88,000 tonnes of carryout.

Donkersgoed believes it will be smaller than that because the average included 2013, which was an outlier year with near perfect yields of 1,692 pounds per acre.

"If you take that (year) out, all of the sudden you drop out 50,000 tonnes of stocks," he said.

"Again, we're going to be tight."

Even with a 37 percent area increase, green lentil stocks should stay tight



GERALD DONKERSGOED
ILTA GRAIN VICE-PRESIDENT

There is tremendous opening demand for new crop green lentils because buyers are clamouring to restock their empty pipelines.

"I've joked with buyers that I've sold the first shipment 42 times already," said Donkersgoed.

"We're going to be coming out of the gate pretty hard."

Farmers in the United States planted an estimated 850,000 acres of lentils, up 72 percent from last year. Three-quarters of those acres are green lentils.

Stat is forecasting 450,200 tonnes of total lentil production in the U.S., but Tim McGreevy, chief executive officer of the USA Dry Pea and Lentil Council, said it would take perfect conditions to achieve that level of production.

He doesn't believe that will be the

case because there are a lot of brand new lentil growers this year.

"There will be some wrecks because lentils are not easy to grow," he said.

McGreevy is forecasting 350,000 to 400,000 tonnes of total lentil production, three-quarters of which will be green lentils.

Iran could once again be a big buyer of Canadian green lentils now that the economic sanctions have been lifted.

Athlete Ansari, director of Emco International, a broker operating in the United Arab Emirates, estimates that Iran imported 150,000 tonnes of green lentils last year, up from about 45,000 tonnes the previous year.

"I think going forward it is going to be a major destination," he said.

McGreevy asked members of the green lentil market outlook panel for their price forecast.

Nico Georgeoglou, managing director of Elamer S.A., one of Greece's largest importers of agricultural products, believes the big North American crop will affect markets.

"I think we'll have a price reduction," he said.

Harsha Kukreja Rai, vice-president of international sales with

LENTIL STOCKS TIGHT

Canada will be almost sold out of lentils by the end of the current crop year.

Lentil stocks as of July 31 (000 tonnes)

2011-12	860	
2012-13	467	
2013-14	786	
2014-15	365	
2015-16	25	

Source: Statistics Canada

Mayur Global Corp., an Indian pulse processing company, said she thinks a good volume of business will take place in the US\$750 to \$800 per tonne range.

Donkersgoed teased her about that lowball estimate.

"You're talking about red lentils right?" he said.

Donkersgoed believes prices will stay firm for the first few months after harvest because of strong opening demand as buyers restock and then there will be a "slow erosion" in prices starting in November or December.

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PEA EXPORTS

Short supply of chickpeas could boost pea exports

A poor chickpea harvest could send prices up

BY SEAN PRATT
SASKATOON NEWSROOM

CESME, Turkey — If desi chickpea production falters in any of the main production regions, there will once again be strong demand for Canadian yellow peas, say analysts.

G. Chandrashekhar, a global agribusiness specialist from India, is forecasting 9.95 million tonnes of global desi chickpea production in 2016-17, up seven percent from the current crop year.

His forecast is predicated on India and Australia receiving timely rains. If that doesn't happen, growers can expect another year of sky-high chickpea prices, which will lead to strong yellow pea demand because the crop is a cheap substitute for desi chickpeas.

All eyes are on India, which accounts for 75 to 80 percent of the world's desi chickpea production.

The Indian government has set a target of 9.5 million tonnes of total chickpea production for 2016-17. Chickpeas are planted in November and harvested in February and March.

"Under the present circumstances I don't see this target being achieved at all," Chandrashekhar told delegates attending the 2016 Global Pulse Convention.

He believes that under ideal conditions there is an "outside chance" of India producing 8.5 million tonnes of chickpeas, including 7.65 million tonnes of desis.

The hope is that a La Niña weather system will develop causing above average monsoon rainfall.

Chandrashekhar has penciled in 900,000 tonnes of Australian production.

Peter Wilson, chief executive officer of AGT Foods Australia, said the next two weeks will tell the tale for the Australian crop.

CONTINUED ON NEXT PAGE »

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RED LENTILS

Indian demand key to red lentil exports

Canadian production could rise 31.5 percent but strong Indian demand should support prices

BY SEAN PRATT
SASKATOON NEWSROOM

CESME, Turkey — Red lentil production will likely be way up this year, but India is expected to consume most of the increase.

Gaetan Bourassa, chief operating officer of AGT Food and Ingredients, said red lentil prices will hinge on how much India buys.

He estimates Indian demand in 2016-17 at 95,000 tonnes per month for a total of 1.14 million tonnes for the new crop year.

There will be another 350,000 tonnes of "surprise demand" as a pigeon pea replacement due to a 1.6 million tonne shortfall in that crop in India.

India is forecast to produce 275,000 tonnes of red lentils, leaving 1.19 million tonnes of demand that will have to be met through imports.

"We think one to 1.2 million metric tonnes in the coming season is a real possibility," Bourassa told delegates attending the 2016 Global Pulse Convention in Turkey.

That country is forecast to import 350,000 tonnes, which is the same amount it will likely buy this crop year.

Bourassa is forecasting a total of 2.45 million tonnes of red lentil exports from Canada and Australia in 2016-17, a 17 percent increase over the current crop year.

That is good because there is a big crop on the way in both countries.

Canadian farmers planted an

estimated four million acres of red lentils.

Bourassa is using an average yield of 23 bushels per acre, which is below the previous five-year average of 25 bushels per acre.

That is because lentils are being grown in many non-traditional areas this year.

"Even in traditional areas, we have farmers who are pushing the rotations a bit too far," he said.

He is forecasting 2.5 million tonnes of Canadian production, up from 1.9 million tonnes last year. There will be two million tonnes of exports and a "reasonable" carryout of 341,862 tonnes.

"If the story does play out and India does import one to 1.2 million metric tonnes you wouldn't have much carryout," said Bourassa.

Sanjay Jain, chief executive officer of Jawaharlal & Sons/Prakash Overseas, an Indian importer and miller of pulse crops, doesn't have a problem with Bourassa's Indian import number.

"Yes, it is possible if the prices are good," he said.

In fact, he said India's demand exceeds 100,000 tonnes per month, which is higher than Bourassa's number.

Jain said India is sitting on a stockpile of 150,000 tonnes of Canadian lentils, which should last until the new crop is harvested in August.

Sanjiv Dubey, director of Grain-Trend Group, an Australian pulse



Canadian farmers planted about four million acres of red lentils this spring. | FILE PHOTO

crop trading firm, took issue with Bourassa's forecast of 300,000 to 400,000 tonnes of Australian red lentil production.

He said Pulse Australia is forecasting 618,000 acres of red lentils and 350,000 tonnes of production.

However, the trade believes it is more like 865,000 acres and 475,000 tonnes of production.

Dubey said 60 to 70 percent of the crop will be small red lentils, which will be shipped to Bangladesh, Pakistan and Egypt.

It is dry in Australia's chickpea growing area, but moisture condi-

tions are "perfectly fine" where the lentils are planted.

Panel members from Pakistan and Sri Lanka said lentil demand should be stronger than usual because chickpea prices are sky high, which is encouraging substitution.

However, a grain miller from Egypt expects slumping demand in that country because of the poor condition of the economy.

Merve Fettahoglu, international trade manager of Goze Agricultural Products and Marketing Inc., a Turkish pulse processing compa-

ny, said growers in that country planted 30 percent more red lentils this year than last year.

The trade is expecting 400,000 to 450,000 tonnes of production, up from 340,000 tonnes last year.

"The weather conditions are so far, so good," she said.

A couple of panelists provided price projections ranging from US\$650 to \$750 per tonne.

They said buyers are scared of the Canadian production estimate of 2.5 million tonnes.

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» CONTINUED FROM PREVIOUS PAGE

He said there is the potential for 1.6 million tonnes of production but that would require significant precipitation.

Considering that half of the crop is planted in ground where subsoil moisture is inadequate he believes 700,000 to 900,000 tonnes is more likely.

If that is the case, desi prices could be "off to the races" because Australia is completely sold out of the crop and needs a crop bigger than 900,000 tonnes.

Wilson noted that today's new crop prices of about US\$830 per

tonne are well above where they were at the same time last year. Old crop prices have rallied to \$1,100 per tonne.

"We can rally just as hard (this year) if we don't get this rain," he said.

Muhammad Ahmed, chief executive officer of AWAM Group of Companies, a leading importer and broker of pulses in Pakistan, took issue with Chandrashekhar's forecast for 600,000 tonnes of desi production in Pakistan.

He said it will be closer to 325,000 tonnes, down from 560,000 tonnes the previous year.

Chandrashekhar said if India gets

the big crop it is hoping for, it will likely import 700,000 tonnes of desi chickpeas in 2016-17, a 30 percent decline from the previous year.

That would take the pressure off of desi chickpea prices in that country.

"My sense is the market should not expect the fancy prices of 2015 to prevail again in the second half of 2016," he said.

However, Chandrashekhar said global desi supplies will still be tight because there will be no carryout of the crop heading into 2016-17 versus 700,000 tonnes a year ago at this time.

And if there is a disappointing

harvest in India or Australia, desi prices could once again be sky high.

"If chickpea prices rise higher there will be more consumption and more demand for yellow peas," he said.

Most of the panelists expect desi chickpea prices to remain firm for the next three to four months and then drop by \$100 to \$150 per tonne when the Australian crop is harvested.

Ahmed is forecasting prices in the range of \$850 to \$950 per tonne over the next three to six months.

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CHICKPEAS ON THE RISE

Global production of desi chickpeas is forecast to increase by 670,000 tonnes next year.

Chickpea production (in 000 tonnes)

	2014-15	2015-16	2016-17
India	6,570	6,730	7,650
Australia	970	1,200	900
Pakistan	550	600	600
Ethiopia	350	450	500
Others	300	300	300
TOTAL	8,740	9,280	9,950

Source: G. Chandrashekhar | WP GRAPHIC

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CANOLA

Canola crush margins reach year's best level

Margins are expected to deteriorate in the coming months as supplies tighten

BY PHIL FRANZ-WARKENTIN
COMMODITY NEWS SERVICE CANADA

WINNIPEG — Canola crush margins have improved considerably over the past few weeks and are now sitting at near the best levels of the year.

Crush margins provide an indication of the profitability of the product values compared to the seed cost when processing canola. Exchange rates are also factored in to the equation.

As of May 27, the Canola Board Crush Margin calculated by ICE Futures Canada was \$107 higher than the nearby July contract, compared to levels closer to \$84 a month earlier and the year-ago level of \$71.

"I don't remember seeing (margins) at this level in some time," said a market watcher.

The end of the crop year is fast approaching and supplies are tightening in Western Canada. As a result, crush margins are likely to deteriorate in the coming months because end users will need to pay up for supplies.

In the meantime, the domestic crush pace continues to run at a record pace.

Following a couple of slow weeks, last week's canola crush was a strong 179,485 tonnes, up 10.4 percent from the previous week, said the Canadian Oilseed Processors Association.

Crush capacity use was almost 87 percent, topping the year average of 81.6 percent.

Canadian canola processors crushed 6.659 million tonnes of canola during the crop year to date, up from 5.908 million at the same point the previous year, according to data from COPA.

I don't remember seeing (margins) at this level in some time.

MARKET OBSERVER



The barometer will give investors, lenders, traders and farmers a broadly representative snapshot of how U.S. producers are feeling. It will be released the first Tuesday of every month. | FILE PHOTO

SURVEYING AGRICULTURE

New index tracks farmers' outlook

The Purdue/CME Group Ag Economy Barometer provides a snapshot of how farmers are feeling

BY ED WHITE
WINNIPEG BUREAU

Every month the world's markets watch for the ISM Manufacturing Index to be released.

Why isn't there a similar gauge for the U.S. farming and agriculture sector?

That's a question Purdue University and the CME Group tackled and, they hope, eliminated with the introduction of the Purdue/CME Group Ag Economy Barometer.

Now investors, lenders, traders and farmers have a broadly representative snapshot of how U.S. farmers are feeling, which will be released on the first Tuesday of every month.

"When we looked at the agricultural economy, we thought there was an information void," said James Mintert, the director of Purdue's Center for Commercial Agriculture.

Sentiment indicators are generally built around surveys sent to a large number of significant members of an industry.

The Institute of Supply Management's ISM Manufacturing Index is based on a survey of over 300 manufacturers. It measures their feelings about the economy, their own businesses, and the possible decisions they might make in coming months.

The Ag Economy Barometer is trying to offer the same sort of portrait of farmer attitudes.

The basic barometer provides a sentiment number off a baseline of 100 from October 2015 to March 2016.

Anything above 100 reveals farmers feeling more optimistic than during that period, and anything below, shows a more pessimistic outlook.

The survey uses 400 producers from across the U.S. involved in different sectors of agricultural pro-

duction, with the largest component being corn and soybean producers, at more than 50 percent of the sample.

Beyond the barometer's sentiment measure, the surveys provide the opportunity to ask additional questions and assess other aspects of farmer outlook.

Mintert said a range of other issues will occasionally be raised as the barometer operates, including farmland and input prices.

The most recent results, released in April, show farmer sentiment fell from October to March, but then rebounded. That reflects the decline then rally in corn futures, showing how fundamentally farmer outlooks are defined by prices.

Four times a year the barometer team will also survey a group of 100 "agriculture and agribusiness thought leaders" and issue more in-depth reports.

Farmers are famous for attempt-

ing to mislead government surveys that look at crop production.

Many believed that underreporting the size or quality of crops helps create bullish news in the marketplace, which will raise prices.

That has led to a fudge factor being included in some reports of agencies like those of the U.S. Department of Agriculture, which adjusts some reported numbers to reflect the underreporting phenomenon.

Mintert said he doubts that will be a factor in the Ag Economy Barometer, because it is not asking for production numbers.

The perspective it provides should give the markets a better sense of how farmers are feeling, regardless of underlying conditions, and that's something that has never been available.

"We didn't see anything like that in the ag sector," said Mintert.

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LIVESTOCK

U.S. reviews high-speed trading's effect on cattle pricing

Cattle futures trade goes under microscope after R-Calf complains about price drop

CHICAGO, Ill. (Reuters) — A U.S. watchdog agency will launch a review of cattle pricing, including the impact of high-frequency trading on futures, after ranchers complained about a sharp price drop last year.

The U.S. Government Accountability Office has accepted a request from the Senate judiciary committee to study the reasons for

the decline, an agency spokesperson said.

The GAO will review "what is known about the extent to which high-frequency trading in cattle futures contracts has contributed to price fluctuations," he said.

It will also assess how changes in cattle trading over the past decade may have affected price swings in

recent years, he added.

The agency has no time frame yet for completing its review, the spokesperson said.

Futures and cash markets for cattle have come under scrutiny over pricing following a setback in the second half of last year from record levels reached in 2014.

In January, R-CALF USA, a meat

producers' group, asked the Senate to investigate the decline and alleged that packers had colluded to manipulate markets. Last month, judiciary committee members requested the GAO review the reasons for the drop instead of taking it up themselves.

The National Cattlemen's Beef Association has attributed price

swings to high-frequency traders.

CME Group Inc., which operates U.S. cattle futures markets, has taken steps to reduce volatility, including cutting trading hours.

It has said high-frequency trading accounts for 10 percent of the volume in CME's cattle markets and 50 percent of its overall average daily volume.

CANFAX REPORT

FED MARKET LOWER

The Canfax fed steer weighted average was \$160.09 per hundredweight, down \$1.76, and heifers were \$159.15, down \$4.88.

Strengthening basis levels encouraged producers to move a portion of their list, even though prices were down for the week.

Railgrade cattle that could be delivered within two weeks saw bids or sales range \$267-\$270 delivered.

Bids for the week of June 13 delivery were \$260-\$264 delivered.

Market-ready supplies are anticipated to increase. Many producers have indicated contract volumes will be larger in June than in May.

More cattle will likely be on the cash market than last year, even with larger contract volumes.

Weekly Canadian fed cattle exports to the U.S. totalled 5,997 head, the fourth smallest volume this year.

The May 20 U.S. cattle on feed report showed larger than expected placements in April and weighed down the Chicago fed cattle market early last week.

However, futures recouped losses because the trade hoped that less expensive beef cuts this year will encourage increased demand over the U.S. Memorial Day weekend.

U.S. cash prices varied widely last week. Mid-week dressed sales were down \$7-\$12 from the previous week, but bids firmed to US\$200-\$202 dressed by the end of the week.

COWS STRONGER

The non-fed market bounced back from the annual lows of the previous week.

D1, D2 cows ranged C\$92-\$108 to average \$100.10, up 50 cents.

D3 cows ranged \$82-\$95 to average \$89.20.

Rail grade cows were \$191-\$196. Bulls were \$127.40, up almost \$2.

Cow auction volumes increased as more calving culls went to town, but recent rain and improving pasture may ease the immediate need to move cows.

Western Canadian cow kills have moderated to near 4,000 head a week as packers focus on the A grade kill.

Non-fed exports are flat this year, ranging from 4,200 to 5,400 head per week since mid-February.

WP LIVESTOCK REPORT

HOGS SLIP

Retailers had covered most of their needs for the U.S. Memorial Day long weekend.

U.S. slaughter has been running below the level implied by the March Hogs and Pigs report, said Ron Plain and Scott Brown of the University of Missouri.

That might imply delayed marketings, which would weigh on summer hog prices.

The U.S. national live price average for barrows and gilts was US\$56.90 per hundredweight May 27, down from \$58.06 May 20. U.S. hogs averaged \$72.20 on a carcass basis May 27, down from \$74.69 May 20. The U.S. pork cutout was \$83.56 per hundredweight May 27, up from \$83.40 May 20.

The estimated U.S. weekly slaughter for the week to May 27 was 2.181 million, down from 2.114 million the previous week.

Slaughter was 1.863 million last year at the same time.

Cow supply and demand remains moderate, but more retailers featuring ground beef would support cow prices into summer.

FEEDER PRICES STABILIZE

Alberta steers rose 50 cents on average and heifers were steady.

Feeders lighter than 600 pounds on average fell on limited supplies and quality.

Grass-type 600-700 lb. feeders rose \$2.50, supported by improved pastures following recent rain.

Feeders 700-800 pounds were mixed with steers surging \$4.25 while heifers fell \$1.75.

Steers heavier than 800 pounds generally weakened.

However, heavy heifers firmed modestly compared to replacement type heifers at market.

Weekly sale volumes of 12,861 head were respectable for the short four day post-Victoria Day week.

Weekly feeder exports to May 14 fell seasonally to 5,745 head.

Supplies will tighten, and most backgrounders have either cut their losses and dumped feeders or now have them on full feed to finish.

The U.S. Department of Agriculture's cattle on feed report showed a significant increase in feeders that will be marketed in the third quarter.

That lowered late summer live cattle futures. Feeders heavier than 800 pounds could see increased price resistance.

BEEF DOWN

U.S. boxed beef prices to May 26 fell with Choice at US\$222.72 per hundredweight, down \$4.44, and Select at \$203.26, down \$7.89.

The Choice-Select spread widened to \$19 per hundredweight, the widest spread since June 10, 2013.

Weekly Canadian cut-out values to May 21 were steady to lower.

AAA was C\$275.77, up \$1.13, while AA was \$262.13, down \$4.65 per hundredweight.

This cattle market information is selected from the weekly report from Canfax, a division of the Canadian Cattlemen's Association. More market information, analysis and statistics are available by becoming a Canfax subscriber by calling 403-275-5110 or at www.canfax.ca.

WPS LIVESTOCK REPORT

HOGS SLIP

In Canada, the Signature Three price for the week ending May 28 was C\$81.06 per hundredweight, or \$178.71 per 100 kilograms, down from \$82.07 and \$180.94 the previous week.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to \$6 per pound hot hanging weight. U.S. buyers are offering US\$4.45 with returns dependent on exchange rates, quality and export costs.

Grade A heifers sold up to C\$5.75. U.S. buyers are offering US\$4.35.

Animals outside the desirable buyer specifications may be discounted.

SHEEP STEADY

Ontario Stockyards Inc. reported that 436 sheep and lambs and 87 goats traded May 24. A light run of sheep, lambs and goats sold steady.



North American weather is generally good for crops now but the test will come in July and August when the big corn and soybean crops set yield. | FILE PHOTO

MARKET FACTORS

Crop price rally could lose strength as weather improves

MARKET WATCH



D'ARCE McMILLAN

I would be surprised if the crop price rally of April and May can continue into June.

Crop prices rallied as the market assessed the damage to soybeans in Argentina from the excessive rain in April and dry weather in Brazil's corn growing region.

Analysts now believe the rain slashed Argentina's soybean crop by four to eight million tonnes.

It appears global livestock feeders who buy a lot of their soy meal from Argentina were caught short. Their scramble to find alternative meal supplies drove up the nearby Chicago soy meal futures contract by more than 50 percent from April 7 to May 30.

That helped drive soybeans 18 percent higher, supported by the U.S. Department of Agriculture's preliminary seeded area estimate, which was lower than expected.

Canola trailed higher, up less than 10 percent, limited by falling soy oil prices as competing palm oil also fell on ideas that production is recovering from El Nino drought more quickly than expected.

The soybean rally, as well as rainy weather in the last week in the Midwest that pushed corn planting beyond the recommended seeding date, should have caused American farmers to switch more acres into soybeans.

There is a possibility that the oilseed rally could run out of steam this week. The big investment funds have moved from a net short position to a net long in soybeans, raising the potential for rounds of selling and profit taking.

We'll soon start to receive private analysts' updates on their assessments of U.S. seeding, which would also weigh on soybeans if there are sizable jumps in soybean area.

We'll get a definitive look at what was seeded when the USDA releases its final acreage survey report June 30.

In canola, the risk premium to account for a dry spring in large parts of the Canadian Prairies is unwinding as moisture improves. The dry area is now mostly limited to Saskatchewan's northern grain belt.

The U.S. dollar could also affect the crop market. Expectations are growing that the Federal Reserve will increase interest rates this summer, perhaps even at its June 14-15 meeting.

Higher interest rates would lift the U.S. dollar, which would weigh down American crop prices and perhaps stall out the crude oil price rally.

Wheat will face pressure as the U.S. winter wheat harvest begins.

The crop is expected to have some of the best yields in years, but rain this week in Texas and Oklahoma could downgrade quality.

There is still risk pricing in the crop markets to account for the rapid switch from El Nino to an expected La Niña and the potential for dry weather in the U.S. Midwest late in the growing season.

However, the weather outlook for June in the Midwest looks like close to normal rain and a bit cool, while the Canadian Prairies could continue warm.

The three-month forecast from the U.S. Weather Service Climate Prediction Center issued May 19 for July through September show the potential for a warmer than normal growing season in the Midwest, but the moisture outlook is average rainfall. The potential for dry weather does not appear until the fall.

I think there is potential for the crop market to start becoming more comfortable and unwind some of the recently.

However, that prediction would change if the news on crop tallies from South America worsens or if there is a rapid transition to hot dry weather in the U.S. Midwest in July.

Follow D'Arce McMillan on Twitter @darcemcmillan. Email darcemcmillan@producer.com

WPEDITORIAL

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OPINION

ALBERTA ANIMAL RESCUE

Livestock rescue requires training, proper equipment

It is a disturbing sight, whether you encounter it on the highway or on the television news.

A livestock trailer is overturned with dead and injured animals. Firefighters, police and other first responders try as best they can to rescue the terrified animal survivors and prevent them from running onto the highway and presenting new traffic dangers.

Almost every food animal will take at least one ride in a truck trailer in its life, and vehicle crashes are unfortunately a reality on our highways.

Livestock transport crash scenes would be less chaotic and safer places if first responders had training in large animal rescue.

So it is great to see that workshops are available from experts in the field.

With its large cattle feeding operations and two big federal beef slaughter plants, it is not surprising that Alberta appears to be most active in the field of training in Western Canada.

To protect livestock and first responders, it would be a good idea if this training and the proper rescue equipment were readily available in every province.

A recent seminar that Technical Large Animal Emergency Rescue Training conducted in Twin Butte, Alta., provided insights and practical information for anyone involved in livestock transport.

Seminar leader Rebecca Gimenez said that when she and her husband started their company in the 1990s, they expected to focus on veterinarians called in to help rescue animals.

However, it quickly became apparent that the first professionals on the scene of accidents are firefighters and police, and they were hungry for information about how to safely handle livestock

involved in road crashes and other dangerous situations.

Animals might also need rescuing when they wander from familiar surroundings and become trapped in mud, fencing wire, holes and even swimming pools.

As well, a more volatile climate appears to be increasing the frequency of floods, fires and tornadoes, where animal rescue is also often needed.

Animals under stress revert to "fight or flight" panic and can be much more dangerous to humans than they are normally.

For safe rescue, an understanding of animal behavior and knowledge of recommended procedure can be of immense help.

Sometimes the best course of action is to simply help the animal extricate itself from dangerous situations by removing obstacles or opening gates.

However, other situations require specialized equipment.

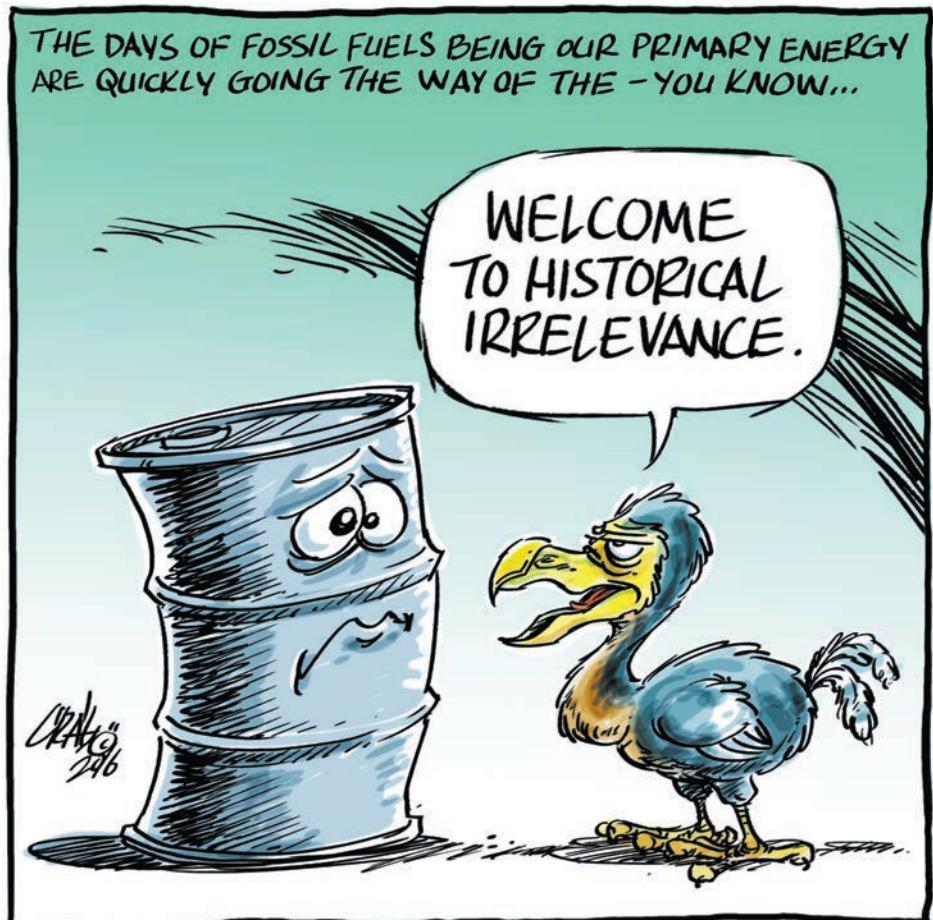
Alberta Farm Animal Care worked with other livestock organizations and used financial assistance from the federal-provincial Growing Forward program to buy a fleet of livestock emergency rescue trailers and station them around the province.

The trailers are loaded with equipment to help free and corral livestock at crash or emergency scenes. They contain corral panels, generators, saws, plywood and snow fencing.

It would be a good idea to have such trailers distributed across Canada, close to key animal transport routes, to make animal rescuers' jobs easier.

Bruce Dyck, Terry Fries, Barb Glen, Brian MacLeod and D'Arce McMillan collaborate in the writing of Western Producer editorials.

CRAIG'S VIEW



INTERPROVINCIAL TRADE



Being isolated in a province that is landlocked is not a good idea. It puts you in really awkward situations.

DAN MAZIER

PRESIDENT OF KEYSTONE AGRICULTURAL PRODUCERS

PAGE 3

DAIRY INDUSTRY PROTESTS

Quebec dairy farmers demand action on diafiltered milk

CAPITAL LETTERS



KELSEY JOHNSON

The farmers are coming to Ottawa.

At the time of writing, a convoy of Quebec dairy farmers is about to start driving their tractors to Ottawa for a June 2 rally on Parliament Hill, where they expect to be joined by Ontario farmers.

The rally comes one month after Agriculture Minister Lawrence MacAulay announced he would meet with Canadian dairy farmers within 30 days to discuss compensation for concessions made under the Canada-European Union trade deal and Canadian imports of diafiltered milk — a U.S. milk protein.

The outcome of that meeting has yet to be made public.

A few cows are expected to make an appearance too, marking the second time in nine months that bovines have strutted their stuff in Ottawa's downtown core. Hundreds of dairy farmers, some leading cows, protested the pending Trans-Pacific Partnership in September.

While concerns about the TPP continue, (a Conservative compensation package remains under Liberal review), the June 2 rally is focused on the diafiltered milk issue.

Canadian dairy farmers say they are losing millions of dollars because Canadian cheese processors are importing milk solids from the United States.

Under Canadian regulations, the Canadian Border Services Agency considers diafiltered milk as a protein, while the Canadian Food Inspection Agency considers it as milk.

The Liberals promised to fix the



Farmers are no strangers to Ottawa as this 2005 rally for more farm aid shows. Dairy farmers plan to protest U.S. imports of milk protein. | FILE PHOTO

issue during the federal election campaign, but it remains unresolved.

The government response to the rally will likely be watched closely, particularly by those in agriculture.

After nearly eight months in office, Canada's agriculture community is still trying to figure out the Liberals' intentions for the file.

The new government, while heavily urban-based, appears interested in hearing from farmers,

say stakeholders.

With patience waning, farmers at June 2 rally expect concrete action on the diafiltered milk file. Many involved say more promises of government consultation will simply not suffice.

The event also provides a chance to remind and educate people about Canada's agriculture industry.

After all, it's not every day cows and tractors are lined up in front of

Parliament Hill.

Coincidentally, the dairy farmers' latest rally falls on another agriculture-centred day in Canada's capital city.

The Mayor's Rural Expo, an annual event put on by Ottawa Mayor Jim Watson, is also being held that day. The festivities are meant to highlight Ottawa's rural residents. Eighty percent of land within the city of Ottawa is considered rural — a statistic sure to stun much of the city's urban population.

Celebrity milking competitions, a pancake breakfast and a barbecue (with funds collected going to the Ottawa Food Bank) are planned.

Farmers will be on hand to showcase what agriculture has to offer, all while trying to bridge the urban/rural divide via public education.

The farmers are coming to Ottawa. Canadians, and their politicians, should take note.

Kelsey Johnson is a reporter with iPolitics, www.ipolitics.ca.

& OPEN FORUM

CROP PROTECTION

Cleavers decision not serving farmers

BY SEAN COOPER

The Canola Council of Canada, with the Western Grain Elevator Association and the Canola Oilseed Processors Association (collectively, the multinationals) have come out against quinclorac and in particular, Clever, (a low-cost solution for cleaver problems), which we feel do not convey the full story about quinclorac.

Let's look at the following statement by CCC president Patti Miller: "China has no maximum residue limit (MRLs) for quinclorac on canola. Being one of the biggest markets for canola, China has no history of accepting imports of canola where quinclorac residues have been detected."

There is also no MRL for the herbicide on canola in the Codex Alimentarius, which is an internationally recognized collection of standards considered by Chinese authorities when accepting imported products."

Yet 23 of the 53 pesticides active registered for canola with established MRLs in Canada could fall into a similar statement. China has no more a documented acceptance of codex than it does for country of origin, making 46 of the 53 actives for canola in Canada unsuitable for China.

It seems that quinclorac is unfairly targeted. Country of origin, much the same as Codex, is also considered by Chinese authorities when accepting imported products.

The multinationals further claim that quinclorac can be found on canola when testing samples that quinclorac was used on. Again, this statement could apply to the



The writer says the Canola Council of Canada works against farmers' interests when it advises not to use Clever on cleavers. | FILE PHOTO

vast majority of the pesticides registered in Canada for use on canola when tested in the manner that quinclorac was detected in samples, and not the internationally standard manner in which China tests.

When tested, the average quinclorac residue is below .02 parts per million (ppm), falling far below the acceptable deemed safe level by Health Canada of 1.5 ppm. Quinclorac's tested levels, when used at the rates Clever has on its label, are below 43 of the 53 pesticides registered MRLs for Canada.

BASF's Chris Vander Kant said: "We make a point of making sure we have the necessary MRLs for all the major export markets."

Yet most of BASF's canola products do not have registered MRLs in China. This includes their form of quinclorac.

Given that China only tests for MRLs they have established, and will defer to Codex and country of origin if requested by the importing company, it is necessary to establish an import tolerance?

Quinclorac has been around for more than 15 years and is known to work on canola and yet is still not added to Codex.

Further, quinclorac has no schedule to be added to Codex, yet BASF's more expensive and new products have been added.

In canola weed problems, cleavers ranks third, it is the fastest spreading weed, and at the top of the list for recent resistance to glyphosate.

The CCC puts out information on how to deal with cleavers. This information uses high-cost solutions like Edge, which has an active ingredient that has no MRL in China.

na or Codex listing.

A recent release from the University of Saskatchewan Department of Soil Sciences says, "The correlation between increasing cleavers populations and canola acres potentially means that current canola herbicide options do not effectively control cleaver populations."

A cleaver infestation of only five percent (a minor infestation) potentially costs growers hundreds of millions of dollars.

Gerry Ritz, former federal agriculture minister and sitting MP, could not be more clear when he stated that this is not an issue to the Chinese.

This is a "made in Canada" problem, as quinclorac poses no more risk than many of the existing pesticides used in Canada.

We feel that quinclorac, brought to market by a low-cost input supplier, is being targeted by the multinationals without just cause or science.

It further appears that the multinationals are waging a war against low-cost alternatives. We feel that the multinationals are limiting options available to growers, through the use of red herrings like MRLs, resulting in growers needing to pay upward of \$50 per acre for pesticides much the way they now do for seed.

We feel that the multinationals have used the CCC, an organization significantly funded by the growers' volunteer check-off dollars, to work against the growers' own best interests.

Sean Cooper, is director of corporate development with Great Northern Growers, which makes Clever herbicide.

FAREWELL

News editor says goodbye to WP readers

EDITORIAL NOTEBOOK



TERRY FRIES
NEWS EDITOR

I feel a pang of sadness as I write this — this will be my last Notebook column.

Actually, after 22 years at *The Western Producer*, it's only my second Notebook column so come to think of it, it's about time they loosened their sleeper hold on it anyway.

Jokes aside, I am moving on to a new career in a new community.

I may not have been a highly visible presence to *Western Producer* readers over the years, but I have been fortunate enough to be part of this mighty struggle — the struggle in which we craft and build the best packages of agricultural stories, photos, graphics and information you're going to get anywhere.

That has always been Job 1 for me, through my years as news editor. It's been top of mind, no matter the task.

And even though I casually refer to it as a "mighty struggle," the operation actually clicks together smoothly, every hour, every day, every week and beyond like a magical jigsaw puzzle because of the people who work here.

The experienced and engaged staff makes my job easier. Some days, I've been able to sit back and watch the various aspects click together seemingly with minimal effort because the staff, my friends, have always shown a dedication to quality.

I owe them all a large thank you. They made me look good, and they made *The Western Producer* look good through the years.

It also leaves me with a great deal of confidence that I leave the WP in good hands. It will do just fine with me.

Readers will continue to receive the highest standards of journalism and information the ag world has to offer, while I explore what's beyond the next hill.

I've decided to take on new challenges in Summerland, B.C. Neither my wife nor I is near retirement age, so this isn't about slowing down. We both hope to keep our fingers in many different pies, including staying active, if even in some small way, in agriculture.

Hmm, there is an ag research station in Summerland, so you may see my byline on a *Western Producer* story before too long. I've never been one to sit still.

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FARM SUCCESSION

Communication key to passing on family farm

HURSH ON AG



KEVIN HURSH

Statistics show that the vast majority of farms are family owned and operated.

Farms are increasingly incorporated entities, but the role of family has remained central. Family businesses have inherent strengths that we like to celebrate, but we should also recognize the problems.

Families don't typically air dirty laundry in public, but if you look around communities, you'll often see instances where siblings or cousins or parents and a child used to farm together but don't anymore. Sometimes the breakup was amicable. In other cases, there was

probably some short-term or long-term acrimony leading up to the decision to run separate operations.

Family farms can become dysfunctional, particularly when more than one family is involved. A young man with a degree in agriculture and a good job told me that he often thought about returning to the family farm, but his father and uncle had long farmed together and the arrangement was a mess.

Not only did the father and uncle not really get along anymore, but the business relationship had become confused over who owned what. Until or unless the mess could be addressed, this young man couldn't see himself being involved.

Succession is a huge issue, and while some farm families develop a clear plan, many do not. Instead, the farm lurches forward based on ad hoc decisions.

The problem often boils down to communication and personalities.

How many families hold succession meetings with all the children, including the non-farming ones? Many don't because they fear conflict. A formal discussion might fuel the animosity that has long been bubbling under the surface.

And sometimes we can't come to grips with our own feelings.

The older generation may have a tough time giving up control. Dad feels that he has built this empire, and while his stated goal might be to pass it along to the next generation, it's hard to step aside from your life's work.

The farm becomes part of your identity. While many people have no trouble imagining other things they'd like to be doing, others can't envision a life without the farm at the centre of their existence. Surrendering control means facing your own mortality.

For their part, the younger generation can be indecisive. They like the farm, but also have other interests. Or maybe they like the farm, but their partner isn't sure. Or

maybe they just aren't cut out to make management decisions.

Farm asset values have increased rapidly, particularly the value of farmland. For many operations, profitability has been strong. Farm succession should be easier than ever.

But how big will the farm need to be to remain viable in the years ahead? How much equity should the retiring generation take with them? How much debt can the incoming generation afford, particularly if they want to continue expanding?

There are other ownership and management models, but families will continue to be the driving force behind most farms for the foreseeable future. Family farms have a resilience and work ethic that's hard to match. The downfall can be communication and long-term planning.

Kevin Hursh is an agricultural journalist, consultant and farmer. He can be reached by e-mail at kevin@hursh.ca.



Did some seeding yesterday with my dad. Round after round. #plant16
#casepower 1175 Morris Seed-rite. Devin says his mom added, "You're never too old or too big to ride in the buddy seat." | PHOTO BY DEVIN LAWRENCE, CLANDONALD, ALBERTA, RECEIVED VIA FACEBOOK

#PLANT 16 |

These photos are among those submitted recently to *The Western Producer's* #Plant16 photo contest. To enter, visit producer.com/plant16. Contest closes June 30.



Stopped for fuel in between thunderstorms southwest of Assiniboia, Sask.
| PHOTO BY MADISON CHUBB, RECEIVED VIA FACEBOOK

Bourgault's annual seeding demo will be taking place

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Bourgault's new 2016 models will be on display.

Agronomy tours at the St. Brieux location.

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Registration with your Bourgault Dealer is required prior to attending the demo (Register before June 28th for the St. Brieux location & before July 13th for the Minot location.)

More information & weather updates at:
www.bourgault.com / News & Events

Come and see what's new at Bourgault at Canada's Farm Progress Show (Arena 4), June 15th-17th in Regina.

Visit www.bourgault.com for further information.

ENVIRONMENT WILL SUFFER

Lake Winnipeg and Manitoba's water sources are certainly not a high priority for our new provincial Conservative government.

Congratulations Manitoba — you've voted for change.

But you forgot to be careful for what you wished for, because now you've got a government of business, by business, for business.

What does sustainable development really mean for that new minister's title?

JOHN FEFCHAK

No conservation and water stewardship minister in this cabinet.

What does sustainable development really mean for that new minister's title?

Brandon University professor Joe Dolecki tells it this way: "Sustainable development means that we can continue, as in the past, to rape, pillage and plunder the environment; we just call it something nice so that we can feel good about what we're doing."

With a loss of former premier Greg Selinger and ministers, you can rest assured the future state of Lake Winnipeg and protection of our Manitoba waters will be condemned to insignificance.

John Fefchak,
Virden, Man.

LETTERS POLICY:

Letters should be less than 300 words. Name, address and phone number must be included for verification purposes and only letters accepted for publication will be confirmed with the author.

Open letters should be avoided; priority will be given to letters written exclusively for *The Western Producer*.

Editors reserve the right to reject or edit any letter for clarity, brevity, legality and good taste.

Publication of a letter does not imply endorsement by *The Producer*.

TRUCK WASH RULES

PED case follows change in biosecurity

BY BARB GLEN
LETHBRIDGE BUREAU

Manitoba's sixth case of porcine epidemic diarrhea virus was confirmed May 26 in a batch farrow sow barn on a farm in the southeast.

It is the first incident in the province since January 2015, and all previously infected barns had since been rid of the virus.

The new case comes weeks after the Canadian Food Inspection Agency cancelled an emergency truck washing protocol that was supported by hog producers across Western Canada.

Manitoba Pork Council chair George Matheson said the owner of the infected barn is co-operating fully with the chief provincial veterinarian, his own veterinarian and the council.

"It's emotionally devastating and it hurts financially, of course, but he's being very co-operative with the province and the Manitoba Pork Council, and that's the best way to be to, number one, keep the virus from spreading, and number two, eradicate it from his farm," said Matheson.

Producers within a five-kilometre radius of the farm have been alerted and are monitoring their herds.

PED virus is highly contagious and is almost always fatal to piglets. It has killed millions of young pigs in the United States, but cases have been limited to six infected premises in Western Canada. Ontario and Quebec have had more than 90 cases, still substantially fewer than the thousands of barns infected in the U.S.

Matheson said the farm owner and veterinarians will develop a plan of attack against the latest case in Manitoba. Infected piglets may be quickly slaughtered, and the virus will then work its way through the sow herd.

Older animals can survive the virus, although production is limited while they are fighting it and developing immunity.

About 70,000 pigs are trucked to the U.S. from Canada every week, potentially putting transport trucks in contact with the PED virus.

The CFIA put an emergency truck wash protocol in place in February 2014, which allowed returning trucks to be sealed at the border and then thoroughly washed and disinfected at specialized Canadian facilities.

The CFIA cancelled that protocol May 2 and required trucks to be washed on the U.S. side, where facilities are said to be less thorough and in some cases use recycled water that may contain the virus.

Hog producer associations protested the change, and Matheson said the timing of this latest PED case is interesting, to say the least.

"It would be very difficult to pinpoint where it came from, but you know, it did happen just after the CFIA ended the truck wash protocol that we had in place, so it could very well have ... come in from the States and have been due to the new truck washing protocol."

ACHIEVEMENT AWARD

Canola breeder receives Sask. Order of Merit

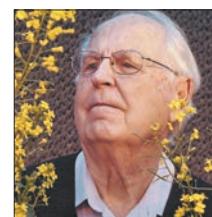
BY WILLIAM DEKAY
SASKATOON NEWSROOM

Keith Downey has received a long list of recognitions and distinguished awards, but he says the Saskatchewan Order of Merit is the one he values most.

"The icing on the cake," said Downy, who has earned a worldwide reputation as one of the fathers of canola for his oilseed breeding program and research for converting rapeseed into canola.

"It's very gratifying and I'm much humbled by it.... It felt very good that the province had recognized the input of my team because you don't do all of this on your own."

Downy is among 10 recipients of the 2016 Saskatchewan Order of Merit, the province's highest order.



KEITH DOWNEY
CANOLA BREEDER

Established in 1985, the award recognizes excellence, achievement and contributions made for the betterment of the province in areas such as the arts, agriculture, business, industry, community leadership, occupations, professions, public service, research and volunteer service.

Downey was born in Saskatoon and earned degrees from the Uni-

versity of Saskatchewan and Cornell University.

He initially worked as an alfalfa breeder at Agriculture Canada's research station in Lethbridge.

He returned to Saskatoon in 1958 to pursue oilseed breeding research at the federal research centre. He is associated with the release of 13 rapeseed-canola varieties and five condiment mustard varieties.

Canola acreages have expanded from a few thousand acres 50 years ago to more than 20 million now, and the crop has become a multi-billion-dollar industry.

Downy said canola also changed the way farmers farm.

"Rotations have changed, and the opportunities have changed with it (canola) coming in."

He said something that is often

overlooked are the number of oil extraction plants that dot the western Canadian landscape, which provide good rural jobs.

"I'm proud that we've been able to make those changes," he said. "You don't start out working on a problem expecting to get a medal or anything like that or recognition."

Downy said his award of merit will stay close at hand for the time being, although he has given many of his major awards to the Western Development Museum to care for.

He is an inductee in the Saskatchewan and the Canadian agricultural halls of fame, an officer of the Order of Canada and a Fellow of the Royal Society of Canada and the Agriculture Institute of Canada.

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CLIMATE CHANGE MITIGATION

Ag sector critical of carbon levy plan

BY BARB GLEN
LETHBRIDGE BUREAU

The carbon tax that is part of Alberta's "climate leadership" plan released May 24 has some agricultural producers concerned about additional costs.

If passed, the new legislation will establish a carbon levy and rebate plan in law, reinvest the revenue into ways that address climate change and establish a new agency designed to develop and deliver energy efficient programs and services in the province.

The NDP government plan includes a \$20 per tonne carbon levy on all fuel that emits greenhouse gases when burned: diesel, gasoline, natural gas and propane.

The levy will rise to \$30 per tonne in 2018 and is expected to generate \$9.6 billion over the next five years.

The levies as of Jan. 1, 2017, will be 5.35 cents per litre on diesel, 4.49 cents per litre on gas, \$1.011 per gigajoule on natural gas and 3.08 cents per litre on propane.

Marked gas and diesel used by farmers in farming operations will be exempt from the levy, but those using natural gas may see their costs rise.

Alberta's greenhouse operators are among those who are heavy users of natural gas.

Albert Cramer, a greenhouse operator from Medicine Hat, Alta., and a member of the Alberta Greenhouse Growers Association, said he is eager to learn details of the rebate program the government proposes for producers in his business and for farmers who use natural gas for grain drying and other production needs.

Cramer said he favours a model similar to that in British Columbia.

"If they are going to put a carbon tax in, then they have to give us greenhouse guys an incentive to make our greenhouses as efficient as we can," said Cramer.

"B.C. does the same thing. B.C. growers get almost 80 percent of it back if they can prove that they're energy efficient."

Cramer said energy efficiency "is

not such a horrible idea. If they need to put a carbon tax on, to make themselves feel good — because that's all it is — then you're just forcing the grower to spend more money. But at least he can spend it (on efficiencies) and save it."

This is the busy season for greenhouse growers, said Cramer, so the association has not yet determined what the carbon tax might mean to its members.

However, the association did ask the government to consider the B.C. model for rebates, even though the greenhouse industry was not specifically consulted.

"We haven't really had a consultation with them. The government is just going ahead with this stuff, not even talking to the people that are affected the most. And that's too bad."

The government's rebate plan indicates a small business corporate income tax rate reduction to two percent from one percent effective in January.

That may offset costs for greenhouse operators, said Cramer.

Alberta families who earn less than \$95,000 annually and individuals who earn less than \$47,500 annually will be eligible for rebates, according to the proposed plan.

The opposition Wildrose Party criticized the carbon tax. Shadow environment minister Todd Loewen said it would mean \$500 or more in direct taxes to Alberta households "with hundreds more in indirect costs as prices rise for all consumer goods." He said farmers would see costs climb for heat, electricity and water.

Alberta Liberal leader David Swann was also critical of the carbon tax and the rebate plan.

"The stated purpose of the carbon tax is to reduce consumption, but 60 percent of Albertan households will receive the full rebate amount," he said in a news release.

"How will this incentivize conservation and what metrics did the government use to determine how much tax is enough to change behaviour?"

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WILD DAY AT THE RODEO



Luke Shields, right, Scout Rich and Ella Fiscal hang onto their pony in the Wild Pony Race at the Little Britches Rodeo in High River, Alta. | MIKE STURK PHOTO

TELECOMMUNICATIONS

Bell Canada promise for improved internet service welcomed by KAP

The takeover of MTS would include better access for rural areas

BY ED WHITE
WINNIPEG BUREAU

Manitoba farmers want better phone and internet access and might be able to get it because of Bell Canada Enterprises' takeover of MTS, says the head of Keystone Agricultural Producers.

However, it will need to push the provincial government to make that a negotiating priority.

"Let Bell and the province move this whole situation forward and really put Manitoba at the forefront of connectivity rather than being behind everybody," Mazier said.

Bell's deal to take over MTS, Manitoba's dominant telecommunications provider, came with a promise that it would spend \$1 billion over five years to improve service in the province.

Poor cellphone, broadband and phone service in Manitoba compared to other provinces, includ-

ing Saskatchewan, has been a frequent complaint at KAP meetings in recent years.

Many farmers say the problem is getting worse because farming systems, business partners and agriculture service companies expect them to be available almost all the time.

However, they feel they are being left out and are falling behind because of shoddy cellphone access and poor levels of broadband availability.

Bell's announcement raised the hopes of many farmers that better telecommunications service might be coming, and Progressive Conservative premier Brian Pallister was part of a May 20 announcement in Morris that wireless broadband access would improve from Winnipeg to the U.S. border along Highway 75.

However, Mazier is hoping for much more than that.

He thinks the Manitoba govern-

ment could pressure Bell and federal regulators to provide broadband access to farmers across Manitoba. MTS owns the land rights to all the landlines, so part of the deal could be forcing Bell to improve internet access so that every farm with a landline has broadband.

"Why couldn't Bell do that?" said Mazier.

The likely objection is that it would cost too much and create higher rates to pay for it.

Mazier said this is a unique opportunity to improve the unequal access that farmers receive, but it won't be as easy to achieve after a deal is approved.

"I think we're at a crossroads," said Mazier.

"What could be the made-in-Manitoba solution? Let's look at it seriously and not just say it'll cost too much money."

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ANIMAL HEALTH

Antibiotic alternative no easy sell to regulators

The Canadian Food Inspection Agency says it is streamlining the process, but it has an obligation to do its due diligence

BY BARB GLEN
LETHBRIDGE BUREAU

An interesting position: that's the place Avivagen president Cameron Groome says he is in with regard to Canadian registration for a new product.

The Ottawa-based company has developed a carotenoid-based feed additive that it says could do the same health protection and growth promotion jobs in livestock that are now done by antibiotics.

However, Canadian registration for the product isn't likely anytime soon, said Groome, so Canadian livestock producers won't have access to a product that several Asian countries are in the process of approving.

"With the new regulations coming in and with no real pathway for registering technical feed additives, it certainly puts our industry in an interesting position, with interesting firmly in quotation marks," said Groome.

Antibiotic use in livestock production is under increasing scrutiny because of its potential role in the evolution of antibiotic resistant bacteria. Proliferation of such bacteria, exacerbated by antibiotic use, has dire implications for human and animal health because common remedies may not work on illnesses and infections.

Those concerns have prompted

several countries to develop new regulations that are generally aimed at reducing antibiotic use in livestock, particularly when used to prevent illness and increase growth rates.

Groome said Avivagen's product, called OxC-beta, could help address the issue.

"We've very much been doing a lot of our business, most of our business development, in Asia, where there's 20 times the volume of feed consumed as anything we do in Canada," he said.

"Every country I visit is planning further restrictions on antibiotic use or outright bans on antibiotic use. That is not going away, so in Canada I think we need to get our act together and recognize that that's already almost become the global export standard, and it's very rapidly becoming the domestic preference, if not requirement. Just hoping it will go away is not a strategy."

Registration for livestock feed additives is managed by the Canadian Food Inspection Agency, which is currently upgrading the registration process.

Sergio Tolusso, a national manager in the animal feed division of the CFIA, said regulatory proposals to modernize the process are expected in 2017.

Though ad hoc changes have been made, the regulations date

back to the 1980s.

Tolusso said changes may bring more flexibility to the livestock feed approval process, in part by considering approvals for the same product in other countries.

"There's some due diligence on our part as the government of Canada to make sure that an ingredient meets the government of Canada requirements," he said.

He said there may be opportunities for Canada to collaborate more with the U.S. so products could come to market at the same time.

Tolusso said amendments to the federal feeds act in 2015 gave the CFIA the right to recognize approvals done by other jurisdictions, which they are also exploring.

Jean Szkotnicki, president of the Canadian Animal Health Institute, said addressing regulatory hurdles for new animal health products has long been a focus for the institute and other organizations.

"One of the challenges has been that when you have a product that has either physiological or functional benefits or health claims, often these products in Canada are considered drugs. Under the drug regulation there are very specific manufacturing practices."

Some of the manufacturing methods for feed additives might not meet the stringent regulations that govern drug manufacturing,

which prevents their registration.

"What we have been trying to do is have these products registered through the feed side of the industry, through CFIA, which can accept the different manufacturing practices, and obviously that takes a lot of cultural change that has to happen within the regulatory agency," she said.

Szkotnicki said she is aware of Avivagen's product and its frustrations with regulations. Part of it likely relates to claims made and data that supports those claims, she added.

"I would like to see a pathway be found for registration of this type of product, recognizing that with the Avivagen discovery work, that was largely taxpayer funding," said Szkotnicki. "It would be nice if we could use our own discovery, so

hopefully we can find that commercialization pathway."

OxC-beta was originally developed by scientists at the National Research Council.

Groome agreed there is some irony in a Canadian-invented product facing difficulty with registration here while being accepted in other countries.

That could put Canadian livestock producers at a disadvantage, whether it is their inability to use OxC-beta or some other product that could help reduce antibiotic use.

"This is not an issue that's going to go away or that producers in Canada are going to be able to lobby their way out of," he said.

"We've got to be in a position to respond."

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FARMLIVING

NO SHORTAGE OF HANDS

A family farm run by the Prybylskis of Willowbrook, Sask., has a ready supply of labour. | **Page 18**



FARM LIVING EDITOR: KAREN MORRISON | Ph: 306-665-3585 F: 306-934-2401 | E-MAIL: KAREN.MORRISON@PRODUCER.COM

ECO-FRIENDLY CELEBRATION

Wedding day passion for beautiful future

Happy couples are finding ways to celebrate while keeping environment in mind

BY MARIA JOHNSON

FREELANCE WRITER

LACOMBE, Alta. — Many couples envision their wedding as beautiful, memorable and unique but some also want their day to be eco-friendly.

Lindsay Coulter, who is dubbed the Queen of Green at the David Suzuki Foundation in Vancouver, provides tips and advice on how to live in a more sustainable and environmentally friendly manner.

Much of her eco-friendly wedding advice comes from her own nuptials a decade ago.

"I was known to my florist and caterer as the girl that was doing that thing," Coulter said.

The practice of wearing your mother's wedding dress has been around for years. It's a sentimental choice if it fits or doesn't require too many alterations.

For a new dress, Coulter recommended considering natural fibres like cotton or silk. She also said that there are online sites dedicated to the reuse of wedding attire and decor.

Other considerations include buying conflict free diamonds, lab created diamonds or rings crafted from materials such as downed trees.

"Some people choose Canadian diamonds or a family heirloom and recycled gold," Coulter said.

Today, most people are comfortable with e-vites, emailed wedding invitations, a practice that saves trees.

"A lot of people are creating their own wedding websites," she said.

It enables the couple to manage who is attending the wedding and informs guests about hotels, registry links, maps, rehearsals and nearby amenities.

The wedding photography can also be shared online.

An outdoor garden in bloom can provide an abundance of wedding flowers without additional cost.

If a bouquet is a must, Coulter advised finding a florist that sources fair trade blooms or organic locally grown flowers.

Friends or relatives might be honoured to supply the flowers from their garden.

For the meal, Coulter said to find a caterer whose menu includes seasonal locally grown food.

"A plated meal is a lot less wasteful than a buffet," she said.

Coulter also encourages supporting local distilleries.

"There's a whole movement towards local breweries. What a great way to showcase what's in your area."

Holding the ceremony and reception at one location minimizes travel.

Guests can counter the detrimental effects of air travel and the burning of jet fuel by purchasing carbon offsets. Numerous online sites provide carbon offset information.

For the honeymoon, air travel is likely, so again consider carbon offsets but also research eco-tourism or international volunteering.

You can create a memorable, meaningful experience with your partner while protecting the environment or helping those in need. Modelling your commitment to bettering the planet on your wedding day can send a tangible message.

"If you set this up as your template it challenges you to question the status quo. It challenges you to think outside the box. But you do end up with a unique wedding," Coulter said.



STOCK PHOTO

Do you have ideas or stories to share from your wedding? Tell us about them on Facebook or at www.producer.com.



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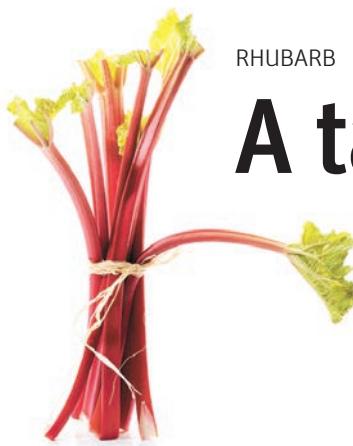
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RHUBARB

A tart and tasty sign of spring



Celebrate spring with rhubarb meringue pie, above, and rhubarb Eton Mess, below. | SARAH GALVIN PHOTOS

Rhubarb is popular in spring-time desserts. It is low in calories and fat and high in fibre. It is rich in vitamin A, potassium and calcium.

The leaves contain oxalic acid and are toxic. It is important to note that if a heavy frost or spell of cold weather comes after the stalks have grown, the oxalic acid may be transferred down the stalk. To be safe, all stalks that were subjected to very cold weather should be cut off and discarded. Subsequent new growth is fine to eat.

RHUBARB CORNBREAD

2 c. rhubarb	500 mL
2 tbsp. sugar	30 mL
1/2 tsp. ground ginger,	2 mL
cinnamon or cardamom	
1 c. corn flour	250 mL
1 tsp. baking powder	5 mL
1/4 tsp. salt	1 mL
1/2 c. sugar	125 mL
1/2 c. unsalted butter, softened	125 mL
2 eggs	
2 tbsp. sour cream	30 mL
1 tsp. vanilla extract	5 mL
1 tbsp. raw sugar	15 mL

Preheat oven to 350 F (180 C). Grease a nine inch (22 cm) round cake pan.

Gently toss rhubarb with two tablespoons (30 mL) of sugar and the spice of your choice. Set aside.

In another bowl, whisk together corn flour, baking powder and salt.

In a separate bowl, beat 1/2 cup (125 mL) sugar with the butter until creamy. Beat in eggs, sour cream and vanilla.

Add corn flour mixture to butter mixture and stir just enough to combine. Pour batter into the cake pan and spread into an even layer.

Arrange rhubarb on top of batter. Bake for 45 minutes or until a toothpick comes out clean.

Allow cake to cool and then sprinkle the raw sugar. Slice and serve with whipped cream or vanilla ice cream. Serves eight.

RHUBARB MERINGUE PIE

Eggs should be at room temperature when making meringue. It usually takes about 30 minutes for eggs from the refrigerator to warm up to room temperature. Older eggs give better volume than fresh eggs.

Be sure the bowl and utensils are fat-free because the tiniest bit of fat will ruin the meringue.

Add the sugar when the egg whites have reached the soft peak stage. The peaks will fall over gen-

tly when they have reached the soft peak stage. Gradually add sugar until stiff peaks are formed.

Put the meringue on a piping hot pie. Cover the top completely and touch the crust all around to prevent it from shrinking. The heat will partially cook the bottom of the meringue and prevent shrinking and weeping. Cut a with a knife dipped in cold water.

1 recipe buttery pastry	
4-5 c. rhubarb, raw	1-1.25 L
1 tsp. orange zest	5 mL
2 eggs, separated	
2/3 c. sugar	150 mL
+ 1/4 c.	60 mL
2 tbsp. all purpose flour	30 mL
2 tbsp. butter, melted	30 mL
1/4 tsp. cream of tartar	1 mL

Roll out pastry and line a deep pie plate. Refrigerate for about 20 minutes.

Preheat oven to 375 F.

Chop the rhubarb into roughly one centimetre slices. Also cut in half lengthways if the stalks are wide and chunky. Scatter on a baking sheet and bake until tender. Remove and drain, reserving the liquid.

Separate eggs, putting the whites aside for the meringue. Beat egg yolks in a medium sized bowl with a fork. Add 2/3 cup sugar, flour and the melted butter. Continue to beat until blended. Then add the eggs and 1/3 cup of the rhubarb liquid to make a smooth and runny paste. Add rhubarb and mix to blend. Pour into pastry shell. Bake until set, about 30 to 40 minutes.

Beat egg whites until they form soft peaks, add cream of tartar, 1/4 cup of remaining sugar and continue to beat until glossy and stiff peaks form.

Spoon over the hot cooked rhubarb pie, making sure it is completely covered and there is no gap where rhubarb can bubble through the meringue. Use the spoon to bring some of the meringue into peaks.

Put back in the oven for about 15 minutes until the peaks are toasted. Cool for 10 minutes and serve.



BUTTERY PASTRY

1 1/2 c. all-purpose flour	310 mL
1/2 tsp. sugar	2 mL
1/4 tsp. kosher salt	1 mL
1/2 c. chilled unsalted, butter, cut into	125 mL
1/2-inch pieces (12 mm)	
1/2 c. ice water	125 mL

Pulse flour, sugar, and salt in a food processor. Add butter. Pulse until the texture of very coarse meal. Add ice water slowly until dough comes together in clumps. Form into a disc and wrap in plastic. Chill until firm, about one hour. Makes one single crust.

RHUBARB ETON MESS

4 c. rhubarb	1 L
2 tsp. maple sugar	10 mL
2 c. whipping cream	500 mL
1 packet individual meringue nests	

Preheat oven to 375 F (190 C). Chop the rhubarb into 1/2 inch (12 mm) pieces. Place on a baking sheet and sprinkle with sugar. Roast until the rhubarb is tender and beginning to caramelized. Remove from oven and set aside to cool.

Whip the cream in a large bowl until thick but still soft. Roughly crumble in four meringue nests.

Take out about half a cupful of the rhubarb and fold the meringue cream and the rest of the fruit mixture together.

Arrange in four dessert bowls and top each with remaining rhubarb. Serve immediately.

RHUBARB ICED TEA

8 c. rhubarb, chopped	2 L
into small pieces	
1 c. sugar	250 mL
1 Earl Grey teabag	

Roast chopped rhubarb in a 350 F (180 C) oven until tender. Remove from oven and cool slightly. Strain the juice from the fruit in a colander. Use the fruit for a pie or crisp.

Boil two cups (500 mL) of rhubarb juice with one cup (250 mL) sugar. Cool.

Put teabag in a pot and add three cups of boiling water. Steep for five to seven minutes or until it is a strong tea. Remove teabag. Chill tea.

Mix tea with an equal amount of rhubarb syrup and pour over a glass full of ice. Serve.

Sarah Galvin is a home economist, teacher and farmers' market vendor at Swift Current, Sask., and a member of Team Resources. She writes a blog at allourfingersinthepie.blogspot.ca. Contact: team@producer.com.

WHEAT HAS BENEFITS

Gluten-free not ideal diet

HEALTH CLINIC



CLARE ROWSON, MD

Q: I have been on a gluten-free diet for fibromyalgia for a year now and I am feeling better.

I feed the whole family — my husband and two children, 5 and 7 — the same diet because it is too complicated to cook different meals for everyone.

Is this OK? I assume it is healthier for everyone to eat gluten free food, even if they do not have an existing health problem.

A: Many food companies and grocery stores have jumped on the gluten free bandwagon because they can charge more for the products. Whole sections of stores are now often devoted to gluten free food. It is also fashionable to try to eat "healthy" food, which may not actually be healthier for all individuals.

The only medical conditions that actually require a gluten free diet are wheat allergies, celiac disease and the associated skin disease, dermatitis herpetiformis. There is also a rare nerve disease called gluten sensitive idiopathic neuropathy. However, the vast majority of gluten free food is bought by people who do not have any of these illnesses.

In a recent article in the *Journal of Pediatrics* called *The Gluten-Free Diet: Recognizing Fact, Fiction, and Fad*, author Dr. Norelle R. Reilly said there is more risk than benefit to a gluten-free diet for people — especially children — who haven't been diagnosed with celiac disease or a wheat allergy.

Reilly, a specialist in pediatric gastroenterology in New York, wrote: "Parents should be counselled as to the possible financial, social and nutritional consequences of unnecessary implementation of a gluten-free diet."

Gluten-free products typically lack the fortification with iron and B vitamins that are added to traditional wheat-based products.

As well, gluten-free baked goods tend to be made with more fat, oil and sugar to make them palatable and prevent dough from crumbling. Gluten is what gives bread and cakes their sponginess and elasticity.

In addition, a large part of gluten-free cooking involves rice and rice flour. Rice contains higher levels of mercury and arsenic than wheat because it naturally extracts these heavy metals from the soil in which it grows.

Fibromyalgia affects up to four percent of the population, and there is still no known cause or recognized treatment. I suggest you check with your doctor regarding the diet, and even if you continue with it yourself, please feed the rest of your family a normal diet, even if it involves extra work.

Clare Rowson is a retired medical doctor in Belleville, Ont. Contact: health@producer.com.

ON THE FARM

Sustainability essential as family farm expands

BY KAREN BRIERE

REGINA BUREAU

WILLOWBROOK, Sask. — Labour is the one thing the Prybylski family doesn't have to worry about on their farm.

When a grain company once offered them a supper in the field, there were 22 people to feed.

That's because each member has a skill to bring to the operation, even if it's for only a short time.

Creekridge Farms Ltd. is an incorporated family farm owned by Bill Prybylski, his brother, Richard, and Richard's sons, Josh and Mark.

However, Bill has four children and Richard has 10.

There are also spouses and grandchildren as well as two full-time employees and spring and fall workers. And there's the New Zealand farmer who comes each fall for a couple of weeks of vacation to help with harvest.

"You never know who's driving a combine," Josh said with a laugh.

Bill is the youngest of seven children and lives in the yard his parents established in 1951. He began farming with his father and bought the operation in 1991 when his parents retired to Yorkton, Sask.

Richard and his family live down the road, where they ran a dairy for a long time.

Josh worked off the farm as a welder until 2007, when the farm was incorporated. Mark bought in later and the corporation is set up



Running Creekridge Farms Ltd. is a family affair. Back row: Brooklynn, Samantha and Kristyn, daughters of Josh and Janelle Prybylski. Front: Bill, Neil, Mark, Josh and Richard Prybylski. | FAMILY PHOTO

to allow others in. Bill's daughter, Amy, home from university where she is studying agricultural business, said she might.

"It's definitely in the plan," she said. "I just don't know when."

Bill said the farm has been steadily expanding since incorporation.

Acreage increased by 50 percent last year, and it may have to grow again.

Bill's son, Neil, a journeyman

welder, is interested in coming back to the farm. His oldest daughter, Mary, is the bookkeeper, and youngest daughter Tracy is off to Olds College on a hockey scholarship in the fall to also study agriculture business.

"We would look at any land that comes up for rent or sale here," said Bill.

The Prybylskis seed 10,000 acres and have a 250-head cow-calf Charolais and Angus based herd. Calves are sold in the fall at Heartland Livestock in Yorkton.

"We stuck to February-March calving so this time of year we can concentrate on getting equipment ready for seeding," Bill said in late April.

They grow canola, wheat, barley, oats, peas and occasionally flax. This year, they will plant 300 acres of soybeans for the first time for both the challenge and rotation.

"Moisture is our biggest limiting factor," said Josh.

In 2001, when much of the province was dry, they had one of their best crops ever.

They were able to seed last year but lost crop to too much rain. It's been so wet the last five years that yields have been average and salt is rising to the soil surface.

The record production year of 2013 was not the best for them.

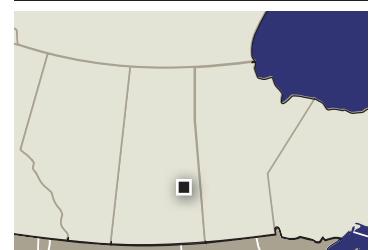
Creekridge gets its name from the three creeks that run through the farm — Cussed, Sorefoot and Willowbrook — which provide natural drainage into the Assiniboine River system.

The creeks also provide enough marginal land to pasture cattle and grow hay. The cows stay out on pasture and graze corn or bale graze through the winter until calving season.

Bill was honoured at Yorkton's Harvest Showdown in 2014 with the Farmer Recognition Award for his contributions to agriculture and the community.

"We've always run demonstration plots, research and field days, corral building and cattle equipment demos," he said.

ON THE FARM



THE PRYBYLSKI FAMILY
Willowbrook, Sask.

"We're always looking for ways to do things better."

For the last 10 years, the family, with the help of neighbours and company donations, has donated the proceeds from one quarter to the Canadian Foodgrains Bank.

Giving back and participating in the community is important to Bill. He has been a rural municipal councillor and still sits on some boards. He is the RM of Garry's representative to the Agricultural Producers Association of Saskatchewan.

From manager of Tracy's AAA Midgetgirls' hockey team in Melville, Sask., to the Willowbrook Veselka Ukrainian dance club to 4-H to the Ukrainian Catholic church, Bill's contributions are many.

These days he says he spends more time in the office than in a tractor, thanks to having so much help.

"I'll probably never leave entirely, but I will have no problem turning it over," he said.

"Succession should be a fairly simple process. We're just hoping to build an entity that we'll be able to pass on, that's sustainable."

Farming is an attractive option for Amy and Josh and the others.

"I think with new technology and development, it's just more appealing," said Amy.

Josh, who with his wife is raising another generation on the farm, said it's a way of life.

"Hopefully it will stay a profitable way of life," he said.

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4-H INVOLVEMENT

4-H combines work and fun for cattle producers

Mom says the club has increased the children's confidence and decision-making skills

BY CHRISTALEE FROESE

FREELANCE WRITER

MONTMARTRE, Sask. — What started as a fun new activity to try has turned into a serious business for the Sebastian family.

The family of five now dedicates nearly every day to selecting, feeding and training their 4-H cattle. And as for the fun, they say that has only increased as they become more involved.

Their trial run in the Fillmore-Francis 4-H Club began in 2008 on a suggestion from farm friends to try it out.

Brian and Sarah Sebastian's oldest son, Evan, was 10 years old at the time and was eager to join his farm buddies on a new adventure.

The mixed farmers had never been involved with 4-H, but they thought they'd try it for a year with five-year-old Emily and three-year-old Delaney in tow.

"That first year, we learned how to finish last in everything, and if there had been a place below last, we would have been in it," Brian joked while explaining that he had never been in 4-H as a kid and had no idea what was involved with showing cattle.

"It was nerve racking to watch your kid go into a ring with a 1,200 pound animal," said Sarah, who grew up on an acreage near Pilot Butte, Sask.



Show cattle take centre stage for the Sebastian family, which includes Sarah, left, Brian, Delaney, Emily and Evan. | CHRISTALEE FROESE PHOTO

The family persevered through their first years in 4-H, thanks to mentorship by experienced club leader Levi Jackson and other 4-H parents. By the time Delaney had turned six, she too was showing cattle, as was Emily.

Being part of 4-H is now a passion for all five family members with 17-year-old Evan being senior showmanship champion at the Brandon fair in 2016, 12-year-old Emily winning the junior showmanship division in Brandon in 2016 and nine-year-old Delaney being reserved junior champion at the same event.

The list of awards for the Sebastian kids is long, but the highlight for all three is working together as a family.

The Sebastian's are serious about weighing their steers and heifers on the first Saturday of every month, even if it falls on a holiday. They are also dedicated to sitting down with their 4-H record books on the first Sunday of every month to record the new data and adjust their upcoming month's feed rations.

"It's like a big family vacation when we go to shows," said Evan.

The family's annual show circuit includes Canadian Western

Agribition in Regina, the Royal Manitoba Winter Fair in Brandon, the Yorkton Exhibition in Yorkton, Sask., the Weyburn Fair in Weyburn, Sask., and their 4-H club's achievement day.

As the Sebastians grew more serious about showing cattle, they realized that their own herd of commercial beef cows could not compete with club calves. So in 2013, Evan bought his first club calf, launching the family into a breeding program that sees the siblings fighting over sire directories.

"For them, getting a new catalogue in the mail is better than the

Christmas Wish Book," said Brian.

The children will sneak the bull profile magazines under their pillows at night and take them to school so that they have first dibs on them, he added.

Sarah said she is thankful they took the step seven years ago to get involved when she looks back now at how far her three children have come in 4-H.

"4-H is something that we can do together as a family to be together with the kids and to see their confidence, decision-making skills and responsibility for their animals grow," said Sarah.

POLLINATOR HABITAT

Provide welcome mat for bees and other plant pollinators

SOWING SEEDS



LORNA MCILROY

out of every three bites we take. Pollination is essential for vegetables such as cucumbers, squash and pumpkins while other fruits and vegetables produce better quality and quantity after pollination.

Without pollination, plants would not produce the seed necessary for their survival.

Our relationship with bees, butterflies and other pollinators must be reciprocal. If they are necessary for our food supply, then we should roll out the welcome mat and provide food, water and shelter.

Rather than cursing the darkness of the decline of pollinators, we can light one small candle by restoring the natural ecosystem on our properties.

Flowers are the main food source. Mimic nature and you will make an impact. Wild flowers can be supplemented with low maintenance choices such as Cosmos, Sweet Williams and Zinnias. It is important that you plan wisely to ensure a continuum of bloom from early spring to late fall.

Monarch butterflies have a preference for milkweed but make sure that your choice is not designated a noxious weed in your province.

Water is a necessity for wildlife and most prairie people enjoy some type of water feature on their property. Unfortunately, a pristine bird bath will not adequately serve bees and insects.

They require rocks or driftwood to perch on and appreciate a little mud with their drink.

Native bees are mostly solitary and do not live in colonies. They nest in the ground, hollow trees or plant stems so a fastidiously neat garden is a poor habitat.

If you have a small property, you can

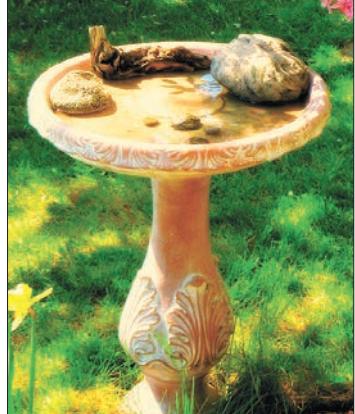
augment your backyard ecosystem with subsidized housing. A simple house that mason bees will appreciate can be made in a bird house style with holes drilled in varying diameters from two to 10 millimetres. The holes must be 12 to 20 centimetres deep and closed at the back.

Bamboo also works well. The bee

house should face south or east for morning sun and be placed one to two metres above the ground. After building your first bee home, you will be ready to build an insect hotel or an entire resort.

Lorna McIlroy is a retired educator and horticulturist in Grande Prairie, Alta. Contact: lmilroy@producer.com

We can thank a pollinator for one



Bees and butterflies need something to perch on while taking a drink. | LORNA MCILROY PHOTO

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PRESERVING TRADITIONS

Stories celebrate Aboriginal culture

The initiative encourages First Nations and Metis people to use the power of the spoken word

BY CHRISTALEE FROESE

FREELANCE WRITER

REGINA — Aboriginal performer Kevin Wesaquate shared his experience recently, taking his Regina audience on a walk down Saskatoon's 20th Street and through his childhood as a "little Indian kid."

"I remember as a kid my nimosom (grandfather in Cree) telling me never to speak aboriginal if I wanted to survive," said Wesaquate, a founder of Saskatoon's Indigenous Poets Society.

"I hope what I do strikes a chord or changes an opinion and, in the end, helps create more awareness and more social justice."

Wesaquate's performance was designed to shine a light on racism and challenges he had experienced as an aboriginal.

Regina poet and Campion College professor Randy Lundy also took to the stage to read from his two poetry books: *Under the Night Sun* and *The Gift of the Hawk*.

Lundy said that without the spoken word, an integral part of being an aboriginal person is missing.

"If we don't get together and shine a light on our stories, it leads down all kinds of dark paths and we forget about why we're here and where we came from," said Lundy.

The Library Services for Saskatchewan First Nations took up the challenge of honouring oral traditions, launching the first Aboriginal Storytelling Project in 2004.

The Minister's Advisory Committee on Library Services for Aboriginal People was established in 2001 to address two areas of



Kevin Wesaquate delivers a spoken-word performance in Regina during Aboriginal Storytelling Month.

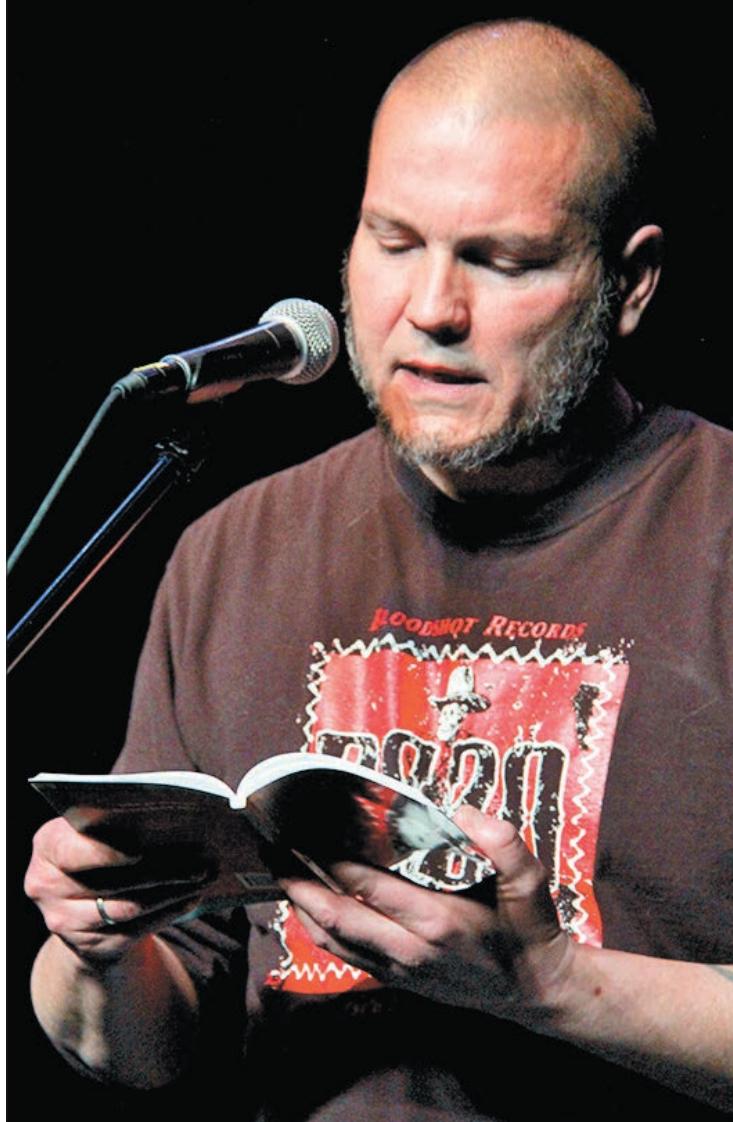
concern regarding public library service.

First, only a small proportion of First Nations' communities in southern Saskatchewan chose to join the public library system, creating barriers to providing library service for residents of non-participating communities.

In addition, public libraries were not attracting off-reserve First Nations and Metis people in numbers reflecting their proportion of the population.

Since 2004, Aboriginal Storytelling Month has been held annually to bring First Nations and Metis people into public libraries.

Wendy Sinclair, one of the founders of the Aboriginal Storytelling Project, said more than 18,000 people participated in 394 aboriginal storytelling sessions.



First Nations poet Randy Lundy reads from one of his books, *Under the Night Sun*. | CHRISTALEE FROESE PHOTOS

"When we bring in a storyteller into a school or library, we're creat-

ing a welcoming environment and bringing in non-library users into a community where they might have felt they may not have belonged before," she said.

Events included puppet shows, performances and storytelling seminars in schools, libraries and communities.

Rae Pelletier, Aboriginal Storytelling co-ordinator, said this year's events were successful because they celebrate the central importance of the spoken word in aboriginal culture.

"It's a traditional way of passing on knowledge that has been followed for centuries," said Pelletier.

The minister's advisory committee included representatives from libraries and First Nations and Metis institutions. It identified ways to promote First Nations and Metis participation and commitment in developing and maintaining library services for First Nations and Metis.

For more information, visit issap.wordpress.com.



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DISCIPLINING CHILDREN

Saying no to spanking

SPEAKING OF LIFE



Q: Both my boyfriend and I were only children.

The result is that now that we are together we have more than made up for it. We have three children

The problem is that because neither my boyfriend nor I grew up with other children we are not sure how to deal with the chaos that often rumbles through our living room. My boyfriend wants to become the sergeant major, putting our house in order by demanding acquiescence and bending over to corporal punishment. I don't think that I can do that. What are some of my other options?

A: The trouble with corporal punishment is that while it can often give short-term results, the long-term consequences are disheartening.

If you deploy corporal punishment, you may get your two older children to sit quietly at the dinner table and eat their spinach.

But in the long term, you are likely to find out that your children would rather not come to the dining table at all.

The option to corporal punishment is guidance.

When you are guiding your children, you are doing more than just yelling at them or spanking them for noncompliance. You are sitting in discussion with them and showing them, rather than telling them, the proper rules of etiquette.

The kids are likely to get impatient with you and may act out a bit, and that of course is not acceptable. However, you don't need to spank them. Just send them to their rooms for brief time outs.

Don't forget the part of the time-out that says you and the child are going to have a little talk afterward to help the him know why he was given a time out in the first place.

There are a number of time-out options, which you can find on the shelves of any bookstore.

What I would like to suggest is that you and your boyfriend spend some time going through the books written about child care with an eye to picking just one option to serve as a guiding light for both of you.

It has to be something with which each of you is comfortable. Just make sure that it is something other than corporal punishment.

Then throw out the other books and commit both of you to the strategies of the book you found acceptable. At least then you can be working together on this thing. And while you are doing that, I hope you remember that your children are still young. Some chaos at their ages is inevitable.

Jacklin Andrews is a family counsellor from Saskatchewan. Contact: jandrews@producer.com.

If we don't get together and shine a light on our stories, it leads down all kinds of dark paths and we forget about why we're here and where we came from.

RANDY LUNDY
POET

25 YEARS AGO

Decentralization of gov't departments fails for Sask. PCs

FROM THE ARCHIVES



BRUCE DYCK, COPY EDITOR

The Western Producer takes a weekly look at some of the stories that made headlines in issues of the paper from 75, 50, 25 and 10 years ago.

75 years ago: June 5, 1941

The federal government introduced the regulations it would use to limit the delivery of wheat in 1941-42 to 230 million bushels. The Canadian Wheat Board would be responsible for ensuring that the goal was met.

American wheat growers agreed in a national referendum to give the U.S. Department of Agriculture authority to control the sale of their crops in 1941. The goal was to keep surplus production of the 1941 bread grain crop off the market until it might be needed.

Cotton and tobacco farmers also agreed.

50 years ago: June 2, 1966

A proposal to increase St. Lawrence Seaway tolls by 10 percent

sparked a fierce backlash from a variety of organizations, including farm groups. The only organizations to support the move were Canadian Pacific Railway, the Railway Association of Canada and the Quebec City Trade and Commerce Bureau.

W.J. Harper, director of research and information with the Farmers' Union of Alberta, said many farmers who are "slowly going broke" could survive and make a reasonable living if the prices for the commodities they produced increased by the same rate as wages paid to other Canadians.

25 years ago: June 6, 1991

Saskatchewan's Progressive Conservative government, which was months away from losing power, announced it would move the agriculture department's headquarters to Humboldt, a town of 5,000. Branch offices would be set up in surrounding communities with the livestock branch in Langan and soils and crops in Watson. It was part of a bigger plan to decentralize government out of Regina. The PCs called it Fair Share Saskatchewan, and it never materialized.

Net farm income fell 28 percent in 1990 to \$3 billion, and more than 56 percent of that came from government programs. The Prairies were hardest hit: net income



Members of the Graysville 4-H Goat Club in Graysville, Man., posed for a photograph in March 1984.

| FILE PHOTO

fell 72 percent to \$227 million in Saskatchewan, 45 percent to \$403 million in Alberta and 53 percent to \$145 million in Manitoba. Farm debt rose to a record \$23.8 billion.

10 years ago: June 1, 2006

A Canadian Wheat Board survey

found that 45 percent of prairie farmers wanted the board to keep its single desk marketing powers, while 54 percent wanted either a dual market or a fully open market. However, 75 percent said they wanted farmers to be able to make the final decision in a vote, which in the end didn't happen.

Farm debt ballooned to \$51 billion in 2005, increasing by \$2.2 billion, or 4.5 percent, from the previous year.

David Rolfe, president of Keystone Agricultural Producers, called it a ticking time bomb.

bruce.dyck@producer.com

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This commitment to growing knowledge is the reason Viterra is once again the presenting sponsor of Canada's Farm Progress Show, taking place June 15-17, 2016, in Regina at Evraz Place. As one of the most important shows of its kind in North America, the event attracts thousands of local and international visitors who are eager to learn about opportunities in Canadian agriculture. Viterra's team will be on hand throughout the event to share the knowledge, expert advice and global market insights that attendees rely on to make informed decisions.

Viterra and Canada's Farm Progress Show are industry leaders with a long and rich history in Regina. Both are dedicated to farmers and look forward to welcoming attendees to the Queen City this June to see the best the agricultural industry has to offer.



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INCOME TAX ACT

Proposal would reduce cost when family buys business

It is better to sell to a stranger under current tax laws

BY KAREN BRIERE

REGINA BUREAU

The Canadian Federation of Agriculture is lauding a federal private member's bill that would make farm transfers within families easier.

Quebec NDP MP Guy Caron introduced Bill C-274 May 19.

It proposes changes to the Income Tax Act that would ease the tax burden on sales of small businesses, family farms and fishing businesses.

"Mr. Speaker, my bill would end a blatantly unfair situation that puts businesspeople, farmers and fishing vessel operators at a disadvantage when they want to pass their business on to a child rather than a stranger," Caron said in the House of Commons.

He said there is a disincentive to sell within families because of the tax implications.

"For a million-dollar business, the difference can be around \$200,000 from a taxation perspective," he said.

"For a \$10 million farm, we are talking \$2.2 million less if the owner sells it to a stranger rather than a family member. We have to do something about this."

Using that example, Caron said an arm's-length purchase allows the seller to use a lifetime capital gains exemption for farms of \$1 million.

"So if you sell it for \$10 million, you only have \$9 million to pay tax on, and for capital gains you're only taxed at 50 percent," he said in an interview.

Depending on the province, that \$4.5 million would be taxed at 35 to 40 percent, he said.

However, the sale is considered a dividend gain if a family member buys the business.

"There is no lifetime exemption of the dividend, and so you're taxed on the full amount, and depending on the province it could be between 25 and 30 percent of the whole amount," he said.

The CFA has identified this issue as a priority.

"Over \$50 billion in farm assets are set to change hands over the next 10 years as farmers age and future plans are made," said president Ron Bonnett.

"We are pleased to see this issue move forward in Parliament and are hopeful it receives the political profile and priority it deserves."

Caron, who said agriculture represents 12 percent of the economy in his riding, said his bill also contains measures to deal with tax avoidance by requiring the new owner to own the farm for at least

five years.

He said the bill should be debated later this fall under the federal process for private member's bills. He has already been speaking to MPs from other parties and said he has had positive reaction from Conservative and Bloc Quebecois members.

The Canadian Federation of Independent Business, Union des Producteurs Agricoles du Quebec and Montreal Chamber of Commerce also support the bill, he said.

karen.briere@producer.com

GENETICALLY MODIFIED FOOD

Ag minister takes heat over GM issue

Lawrence MacAulay seen as interfering with agriculture committee agenda

BY KAREN BRIERE

REGINA BUREAU

tage Salmon for both human and animal consumption.

The salmon, which was developed by an American company, was approved for sale in the United States last fall. It should be in Canadian stores in about a year.

Warkentin said MacAulay received feedback causing him to question the scientific work that resulted in the approval.

"If he is not in support of what this department has done, then the minister should come out and say that," he said. "He has the responsibility to come out to Canadians and explain what he believes is the problem."

However, Warkentin was more troubled by what he saw as interference with an independent committee.

Typically, the committees set their own agendas and operate to complement the work of government. The agriculture committee already has several studies on the go, including bee health and the next agricultural policy framework.

Warkentin said committee members "are able to do math" and assume the Liberal majority membership will control its agenda. The GM study will have to be done.

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Airplanes	0400
Antiques Sales & Auctions	0701 - 0710
Auction Sales	0900
Auto & Transport	1050 - 1705
Business Opportunities	2800
Contracting & Custom Work	3510 - 3560
Construction Equipment	3600
Farm Buildings	4000 - 4005
Farm Machinery	4103 - 4328
Livestock	5000 - 5792
Organic	5943 - 5948
Personal	5950 - 5952
Real Estate Sales	6110 - 6140
Recreational Vehicles	6161 - 6168
Rentals & Accommodations	6210 - 6245
Seed (Pedigreed & Common)	6404 - 6542
Careers	8001 - 8050

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<http://classifieds.producer.com>**AIRPLANES 0400****ANTIQUES****ANTIQUE AUCTIONS 0701**

1974 7GCBC, 150 HP, 1273 TT, 105 since redone eng., 330 since new cam, lifters, pistons, mags, 800 tires, heated hangar, 406 ELT. 204-832-0343, Winnipeg, MB.

1971 CESSNA 172 SKYHAWK II, Ram 160 HP Conversion, Powerflow equipped, Horton Stol Kit, 3170 TTSN, 150 SMOH, always hangered, mint condition. View at: www.skyrauction.ca, June 8th. Call 306-533-3766, Ponterix, SK.CAP 3000E FLOATS, new condition, new bottoms, separated for transport, \$12,500. 204-623-7276, The Pas, MB. or email rjgladstone@yahoo.com1968 PIPER PA 28-180 Cherokee D, 2203 TTAF, 134 SMOH, GNC 250 GPS/COM, GTX27 Xpndr, gap seals, wing tips, July C of A, low time unit, \$56,000. 306-917-7110 Watrous, SK. nranderson@sasktel.net

1959 CESSNA 180B, on 2870 Edo wheels gear, AFTV 5550, 532 TT 0-470, July C of A, new items, performs, \$74,500 OBO. May consider small aircraft in part trade. Call 204-330-1758, Winnipeg, MB.

1962 CESSNA 172B SKYHAWK, TTSN 3910, 1012 SMOH, prop 217, ELT new, Nav Com, C of A May 2015, eng. 300C, 145 HP, access. flight com push to talk headset, reduced to \$31,000. 306-789-6545 leave msg, Regina, SK.

ALARMS/SECURITY SYSTEMS 0500

WIRELESS DRIVEWAY ALARMS, calving barn cameras, backup cameras for RVs, trucks and combines, etc. Home and shop video surveillance. View from any computer or Smart phone. Free shipping. Call 403-616-6610, Calgary, AB.

1964 JD 1010 dsl, restored, S/N RS50059; 1959 JD 430U, restored, S/N #147876; Massey 44 GS, original, S/N #16018, new tires and brakes, runs good; Oliver 77, original with panels, clean, S/N #JA1235. Call 780-667-2220, Sherwood Park, AB.

SUPER 92 MASSEY combine, c/w cab, straight cut header, straw chopper, scalper, always shedded. Call 204-252-2686, Portage la Prairie, MB.

ALLIS CHALMERS HD5 w/bulldozer, 271 dsl. motor, offers: Cockshutt 1250 tractor, w/3 PTH, \$3000. 403-357-7632, Red Deer.

1961 JOHN DEERE 3010 diesel, low profile. No 3-point hitch. Runs good, \$4500 OBO. 403-226-1722, Calgary, AB.

ANTIQUE EQUIPMENT 0703

OLIVER CLETRAC CRAWLER, Model HG42, 1940's, low speed 2nd tranny, shedded, \$6000 OBO. 306-550-4766, Wilcox, SK.

JD A, PTO, hydraulics redone, looks and runs great. JD 3 bottom plow, \$4300. Call Ernie 306-220-2191, Saskatoon, SK.

WANTED: COCKSHUTT TRACTORS, especially 50, 570 Super and 20, running or not, equipment, brochures, manuals and memorabilia. We pick up at your farm. Jim Harkness, RR 4, Harriston, ON., N0G 1Z0, 519-338-3946, fax: 519-338-2756.

ADRIAN'S MAGNETO SERVICE. Guaranteed repairs on mags and igniters. Repairs. Parts. Sales. 204-326-6497. Box 21232, Steinbach, MB. RSG 1S5.

JD 2 CYL. TRACTORS: 630 std.; 530 wide front, 630 all fuel, 820 dsl. All restored, new rubber. 780-850-6120, Ardrossan, AB.

FORD TRACTOR PARTS. Specializing in 8N, 9N, and 2N tractor parts and engine kits. Plus all other Ford models. Manuals. www.diamondfarmtractorparts.com Call 1-800-481-1353.

WANTED: FORD DEARBORN 3 PTH loader; JD 9350 40' hoe drill, factory trans. Offers. 780-674-2440, 780-305-4106 Barrhead AB.

ANTIQUE VEHICLES 0705

1929 FORD MODEL A 4 door sedan, 60,000 mi., mostly orig., shedded, driven parades, \$10,000 OBO. 306-550-4766, Wilcox, SK.

1977 FORD F250 Ranger XLT, crew cab, short box, 400 eng., 4x4, AC, cruise, 5th wheel, good cond., for restoration, \$2000 OBO. Call 204-657-2431, Fork River, MB.

WANTED: VINTAGE STATION Wagon, any make/model, from 1950's, 60's. Must have been shedded, no rust buckets. Cash paid. 403-860-1445. grizzlygas@hotmail.com

40 YEAR GEM! 1976 Mercury Grand Marquis, low miles, 1 owner. Only reasonable offers considered. For more info, call 306-296-4527, 306-293-7777, Frontier, SK

ANTIQUE MISC. 0710

ANTIQUES, ONE PRICE takes all. Monarch cookstove, 3 antique chairs and 2 oil lamps, all in use, \$1000. 780-586-6204.

1916 CASE STEAM ENGINE, 50 HP, fully operational, TSASK inspected and certified, S/N #33605 OBO. Call 306-672-4499, t.bailey@sasktel.net

WANTED: TRACTOR MANUALS, sales brochures, tractor catalogs. 306-373-8012, Saskatoon, SK.

AUCTION SALES 0900FARM EQUIPMENT AUCTION for Frank & Pearl Fahlman, Fillmore, SK, Thursday, June 16, 10:00 AM, 10 miles N of Fillmore or 14 miles S of Montmartre on #606 Grid. 1985 JD 4650; 1963 JD 4020, JD AR, JD H tractors; 1979 Chev C-70 Scottsdale and 1966 Dodge 300 grain trucks; 1992 Ford Ranger reg. cab, 2 WD truck; 1980 Vers. 580 '80 sprayer; 32' White cult. w/Valmar; 1984 JD 6601 combine; 1987 JD 540 25' PTO swather; grain augers; 1975 Degelman R5705 rockpicker; Flexi-Coil 95 and 50' hyd. harrow packer bars; drill fills; 1983 IM 1620 Valmar; swath roller; 1983 Hesston 1091 mower conditioner; 1979 NH 851 round baler; JD 350A side delivery rake; Wilcar bale wagon; MacLeod's wagon; 1970 NH 352 mixmill; cattle squeeze; tipping table; livestock equipment bins (hopper and flat bottom) aeration fans. Consigned: Bob Gaetz: Mid 1990's Flexi-Coil System 65 sprayer, 90', 800 gal. Frank 306-722-3550, www.2sauctioneers.ca PL #333133.FARM EQUIPMENT AUCTION for Frank & Pearl Fahlman, Fillmore, SK, Thursday, June 16, 10:00 AM, 10 miles N of Fillmore or 14 miles S of Montmartre on #606 Grid. 1985 JD 4650; 1963 JD 4020, JD AR, JD H tractors; 1979 Chev C-70 Scottsdale and 1966 Dodge 300 grain trucks; 1992 Ford Ranger reg. cab, 2 WD truck; 1980 Vers. 580 '80 sprayer; 32' White cult. w/Valmar; 1984 JD 6601 combine; 1987 JD 540 25' PTO swather; grain augers; 1975 Degelman R5705 rockpicker; Flexi-Coil 95 and 50' hyd. harrow packer bars; drill fills; 1983 IM 1620 Valmar; swath roller; 1983 Hesston 1091 mower conditioner; 1979 NH 851 round baler; JD 350A side delivery rake; Wilcar bale wagon; MacLeod's wagon; 1970 NH 352 mixmill; cattle squeeze; tipping table; livestock equipment bins (hopper and flat bottom) aeration fans. Consigned: Bob Gaetz: Mid 1990's Flexi-Coil System 65 sprayer, 90', 800 gal. Frank 306-722-3550, www.2sauctioneers.ca PL #333133.**AUCTION SALES 0900**

RETIREMENT AUCTION

FOR MAY MAIER,

Monday,

June 6,

10:00 AM,

Fort Qu'Appelle,

SK,

Kubota MX125X MFWD w/loader, new tires; 1973 Case 1270 tractor; 2006 Dodge Ram 2500 Quas Cab, 4x4, diesel; 2003 Ford F250 Super Duty Crew Cab, 4x4, diesel; 2011 Southland livestock trailer; 2009 Trailtech deck trailer; 2010 18' MacDon mower conditioner; Vermeer 605M round bale w/kicker; Shop tools and equipment; Real Industries cattle squeeze, holding pen, round tub; 2W maternity pens; Corral panels; 2000 Tahoe 5th wheel camper; Mary 306-331-5995; Brad 306-551-9411, www.2sauctioneers.ca PL #333133.

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FARM EQUIPMENT AUCTION FOR RADCLIFFE FARMS, 10:00 AM, Tuesday, June 21, Les and Brian Radcliffe. For more info, call Les at 306-695-8124 or Brian at 306-695-7710. Location: From Indian Head, SK. -1 mile N of Junction #1 and 56 then 8.5 miles E, 2 miles N. From Sintaluta, SK. -3.5 miles N, 1.5 miles W, 3 miles N. GPS: 50.573825, -103.482727; MF 6465 tractor, MFWD w/MF 1080 FEL, joystick control/grapple; Versatile 950 4 WD tractor, Atom Jet hyd. system, 4 hyd.; 1980 Versatile 875 4 WD tractor; JI 3130 tractor, loader/grapple; 2006 Dodge 3500 heavy duty 4x4 1 ton, dually, quad cab, shows 160,000 miles; 2000 Int. Eagle semi, Cat 13 spd; 1979 GMC 7000 grain truck, S/A, 17' steel B&H w/roll tarp; 1988 Ford F700, 466 diesel, auto., S/A, 15' steel B&H, w/roll tarp; 2000 Norbert stock trailer, 8x26', steel floor, 2-10,000 lb axles; 1997 Castleton Industries Ltd., T/A, grain trailer, Fruehauf highboy trailer, T/A, 48'; Morris 39' air drill; Morris Maxin 7240 seed tank, subject to prior sale; JD 1610 35' DT cult. w/DeGelman harrows; 2000 Apache 790 diesel 90' sprayer, 200 HP Cummins, 360 Outback NAV, mapping, AutoSteer; 1997 NH TX66 SP combine; 2002 MF 220XL SP swather, 5000 Series header U11 PU reel, diesel; 1993 MacDon 960 30' Draper header, w/transport; grain augers; 919 Labtronics grain moisture meter; Convairair grain vac Ultima 6; Var. hopper bottom bins; Vermeer Highline 605M round baler, 1000 PTO, netwrap and kicker; NH Hayliner 278 square baler; Model TL5500 automatic Tube-Line; NH 1033 bale wagon; NH 791 manure spreader; various saddles/tack; roping chute and stripping chute; Panels; Shop tools and shop equipment. And many other items. Internet bidding with www.bidspotter.com. Starts at 12 Noon, MST. www.2sauctioneers.ca PL #33133.

BETHUNE CONSIGNMENT Machinery, Vehicles, Tool Sale, June 5, 10:00 AM at Bethune Community Center. Sale conducted by Johnstone Auction Mart. For up to day consignments and pictures view www.johnstoneauction.ca PL #914447.

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FRIDAY, JUNE 3rd 10:00 AM
UNRESERVED FARM AUCTION FOR BRENDA WILSON AND THE ESTATE OF ORVILLE WILSON
at Grandville, MB

SATURDAY, JUNE 11th 10:00 AM
UNRESERVED RETIREMENT FARM AUCTION FOR NORMAN AND LINDA LESCHASIN
at Shoal Lake, MB

WEDNESDAY, JUNE 15th 11:00AM
UNRESERVED FARM AUCTION FOR THE ESTATE OF HARVEY M UKHARSKI
at Neepawa, MB

SATURDAY, JUNE 18th 9:00 AM
ANNUAL PRE HAYING EQUIPMENT AUCTION AT FRASER AUCTION YARD
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UNRESERVED AUCTION Saturday, June 11th, 8:00 AM, Redwater, AB, 35 miles N of Edmonton. Internet bidding on main items. Estate of Stan Misyk, phone Judy, 780-467-9054. 2002 Dodge, diesel, 54,000 orig. kms; 2010 Buick Lucerne, 12,166 kms, Original Case Eagle; 40' windmill; MF 1530 tractor; JD B, D, H, L, M, 40 and 3010; IH Cub Ioboy; Co-op E2; AC B; MH Pony, 22 and 30. Selling for Chedkor, 780-689-7170. Komatsu 270LC trackhoe; Komatsu WA-380 loader c/4 attach; 2009 JD 8720 grader; JD 750C; Other Consignors: 2 new Leon 425 manure spreaders; Great Plains 30' no-till drill; Superior fire truck; JD 4760, FWA; 1932 Dodge car, restored; 1937 Chev car, right hand drive; Dika root rake; tractors; haying equipment; trucks; RV trailers, stationary engines. Huge Sale! View online: www.prodanikauctions.com

MOVING AUCTION FOR Warren and Norma King, Sunday, June 26, 10 AM, 0.5 miles E and 0.5 S of Belle Plaine, SK. 2008 Ford F350 Harley Davidson diesel power stroke, 4x4, fully loaded, leather, sun roof, chip, 5th wheel hitch, pushbar, shows 135,945 kms, prev. reg. in AB; 2016 XLR Toy Hauler 43' RV trailer. (Both truck and trailer sold subject to approval of high bid). 2009 CJay 16' T/A cargo trailer, V-Nose, ramp doors; 2002 Arctic Cat 900cc Mountain Cat 159 track, shows 631 miles; Utility trailer; JD 220 diesel 4 WD tractor, FEL, 3 PTH, ROPS, PTO; JD D (parts); cultivators; lawnmowers; 3 PTH rototiller and finishing mower; Estate sprayer; Var. truck/trailer parts; Shop and hand tools and equipment; Var. antiques and antique furniture; Collectible farm toys; Household and other items. www.2sauctioneers.ca PL #33133.

AUCTIONS

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Bins, Equip. & Vehicles
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Success, Sk. **(306) 773-9132**
MON., JUNE 13 - 11:00 am.



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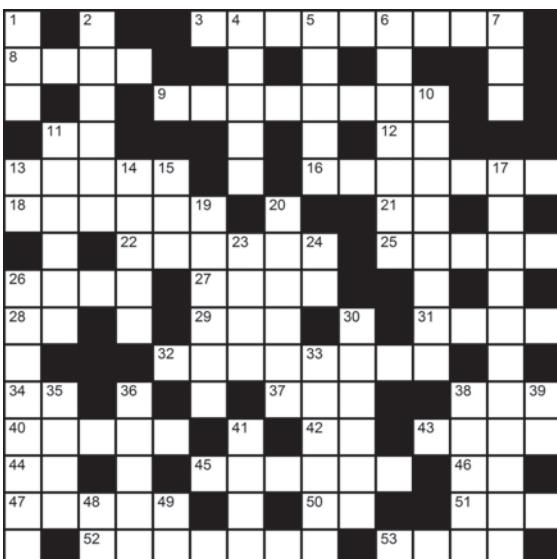
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Entertainment Crossword
by Walter D. Feener



ACROSS

- Washington's co-star in *Mississippi Masala*
- Creator of the DeLorean Time Machine
- Elysium* director
- Mrs. Kettle
- Initials of the actress who played Schwarzenegger's police partner in *Kindergarten Cop*
- IMF technician in *The Mission: Impossible* films
- Irma* (2 words)
- Magical mother-in-law on *Bewitched*
- Initials of the actor who starred in ...And Justice for All
- He played Michael Vaughn on *Alias*
- Actress Sean
- Lily and Carol's mother on *Gossip Girl*
- Ojala who was a quick-draw expert who trained actors in TV westerns
- Initials of the director of *Saveages*
- Mon* (2015 French film)
- Beverly Hills Cop Foley*
- Canadian who co-wrote *District 9* and *Chappie*
- Former HBO-produced prison drama
- London* Fallen
- News network on *Babylon 5*, for short
- Hayworth and Wilson
- Initials of the actress who played Sydney Cooke on *Walker, Texas Ranger*
- Actress Argento
- Initials of the actress who played Lex Murphy on *Jurassic Park*
- Film starring Ben Stiller and Drew Barrymore
- Captain (film starring Michael Jackson)
- Greer who played Reverend Robert Alden on *Little House on the Prairie*
- Initials of an actor who starred in *King of the Gypsies*

PRODUCER CLASSIFIEDS

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Last Weeks Answers

- This Is the _____
- Brand of doll Karen bought for her son's 6th birthday in *Child's Play* (2 words)
- He played Samuel in *Witness*
- 2005 James Franco film (with The)
- Britt of Sweden
- Passenger 57 director
- Family Matters* nerd
- Film starring Mark Duplass and Joshua Leonard
- Again
- Film starring Sandra Bullock and Ryan Reynolds (with The)
- American Beauty director
- How to _____ Single
- She played Mercury, Frost's second lover and second in command in *Blade*
- Filmmaker Sachs
- of a Dangerous Mind
- Film directed by Atom Egoyan
- The Astronaut's Wife director
- Hot to _____
- Escape
- The Man from _____
- Bond girl portrayed by Ursula Andress
- He edited all of Howards' films since *Night Shift*
- Chimpanzee psychologist in *Planet of the Apes*
- Greta from Sweden
- Dark Stranger (3 words)
- Initials of a Canadian actor who starred in *My Bloody Valentine*
- Back to You TV station
- Initials of the actor who played Robert Barone on *Everybody Loves Raymond*
- Undercover

Unreserved Public Retirement Auction

Szepesy Farms Ltd.

Warburg, AB | June 10, 2016 · 10 am



AUCTION LOCATION: From the Warburg corner on Hwy 39, go 4.8 km (3 miles) West to Range Rd 34, then go 1.2 km (0.75 mile) South. Yard on the East side. 4853 Range Rd 34. **GPS:** 53.183500, -114.391297

A PARTIAL EQUIPMENT LIST INCLUDES: Tractors: 1997 Agcostar 8360 4WD · 1988 Versatile 876 4WD · 1980 John Deere 8640 4WD · Hesston 1880 MFWD · (2) Hesston 1580DT MFWD · 1996 John Deere 7400 MFWD · Massey Ferguson 698 MFWD · Combines: 2006 John Deere 9860STS · 2001 John Deere 9650STS · Claas 116CS · 1981 John Deere 7721 P/T · Headers: John Deere 630F 30 Ft Flex · 1991 John Deere 930 30 Ft Rigid · (2) Trailtech Header Transports · Swathers: 2004 Westward 9352I 25 Ft · 1999 Case IH 8860HP 25 Ft · 1997 Prairie Star 4920 20 Ft · PLUS: Trucks · Trailers · Sprayers · Industrial Equipment · Air Drills · Tillage & Breaking Equipment · Balers · Mowing & Haying Equipment · Grain Bins · Grain Handling Equipment · Livestock Equipment · Recreational Vehicles ...AND MUCH MORE!

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LIVE & ONLINE AUCTIONS

Refer to Website for Terms & Conditions

REGINA: 2012 Chevy Silverado; 2009 Dodge Ram Laramie; 2013 Palomino Camper; 2012 Arctic Cat 1000cc Side by Side; 2001 Lifted Dodge 2500 4x4; Unused 3PTH Attachments; Construction Fence; Building Sheet Metal; Flooring Event & More! Plus June 11th Live Auction Near Edgeley, SK; Complete Canola Crushing Plant. Now Accepting Individual Bids and Conditional Offers On Complete Plant Offers Can Be Submitted Online, Or to our Emerald Park Location.

SASKATOON: 2015 Dodge 1500 SLT Truck; 2011 Dutchmen MFG Four Winds Trailer; 2010 Lund SSV 14.5' Boat/40HP Mercury Motor & 2006 EX Loader Trailer; Vehicles, Trucks, Trailers & More!

Real Estate & Upcoming Events: Commercial Building, 103 Burrows Ave W, Melfort; 5 Residential Lots - Aneroid, SK; Fathers' Day Jewellery Sale. **Next Monthly Ag Auction:** June 29 - Contact Ken Purdy to consign (306) 250-0707.

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UNRESERVED RECEIVERSHIP AUCTION

As authorized by BDO Canada Ltd., Receiver to sell the assets and inventory of:

Greenslades
NORTHERN WELDING LTD.

THURSDAY, JUNE 9, 2016 AT 10 A.M. (MDT)

Preview: Wed. June 8 ... 8 am - 5 pm

405 - 3 AVE. E. | HANNA, AB

- MACHINE SHOP EQUIPMENT • ROLLING STOCK
- TRUCKS • STEEL INVENTORY • MISCELLANEOUS
- AGRICULTURAL EQUIPMENT & MUCH MORE!

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SELENSKI EQUIPMENT AUCTION

Ponteix, Sk. (306) 533-3766

WEDNESDAY, JUNE 8 - 10:00 am.

Location: From Ponteix, 10 miles S. on #628 road, 1 mile W, 1/2 mile S.



1997 JD 9200 4WD diesel Tractor *1979 JD 4440 diesel Tractor w/FEL *Outback E-Drive GPS control box *3 Outback Receivers & globes *Hella LED Field Lightbar System *4 Hella Field Lights *2006 International Eagle 9400i Tandem diesel Grain Truck *1972 GMC 5500 3-ton Grain Truck *1971 Cessna 172 Skyhawk II Airplane (Sells subject to the owners acceptance of the highest bid) *2012 JD 4730 SP High Clearance Sprayer, 100' HD Stainless Steel Boom, 7 boom sectional control, gauge wheels, boom height & levelling control, 800 gal. stainless steel tank, chem. handler, 5 body spray nozzles & elec. end nozzles, 420/80R46 tires, fenders, JD 2630 GS3 Star Fire Monitor, auto steer, self levelling air bag suspension, remote spray test nozzle checking syst., lighting pkg., Motorola Radius SM50 2 way radio, 215.6 spray hrs. 657 eng. hrs., 33,512 acres. New Condition *45' Flexicoil 5000 Air Drill *45' Degelman 7645 Landroller *50' Valmar 245 PT Granular Appl. *Rockmaster XL78 Rotary Rockpicker *Degelman RD320 Rock Digger *GRAIN SEEDER *7 Weninger Magnum-F H/B Bins *41 Westelle Rosco F/B Bins *1200 Bu. Butler F/B Bin *BIN MOVER *2010 JD 9770 STS diesel Combine, JD SF1 GPS w/auto steer, terrain tracer, 1079 eng. hrs., 843 thr. hrs. w/JD 914 Pickup Table, 14' 7 Bell pickup w/plastic fingers (Mint Condition) *2013 35' Macdon FD75 Draper Flex Header, pea auger, own transport *Westward 9250 SP diesel Swather w/25' Macdon 972 Draper Header, Macdon pickup reel *Grain Augers *Pea Auger fits 25'-30' Macdon Draper Header *1983 JD 750 MFWD diesel Tractor, 3 pt. ht. *20' Brandt 3 Pt. Ht. Sprayer *2014 JD Z465 Zero Turn Lawn Mower *JD Z520A Ztrax Zero Turn Lawn Mower *Kurt & Kim Gillespie (306) 478-2680 - 16' Frontier Macdon MC1216 Hydroswing Haybine.

Cash or Cheque w/Letter of Guarantee.

Machinery, Vehicles & Airplane Sell at: 2:00 p.m. Selling w/2 Rings

MORE INFO ON FACEBOOK & WEBSITE: www.switzauction.ca**SWITZER AUCTION**Sk. Lic. 914494 Ab. Lic. 313086
Swift Current, Sk.

CHAMPION ASSETS LTD.

UNRESERVED LIVE FARM EQUIPMENT DISPERSALS**SUNDAY JUNE 12TH @ 9AM CST - ENDEAVOUR, SK.**

15 miles North of Preeceville on Hwy 9, then 2 miles East

MARYANN & RICHARD KOPECK OWNERS PH: 306-547-5500
TRACTORS - 08 JD Preiman 6430, FWA W/ FEL - 98 JD 7810, FWD, low hrs - 75 Steiger Bearcat II HAYING EQUIP - 08 JD Moco 946, 13.5' - 07 NH BR 780A round baler - 09 Frontier 14 wheel hay rake - 84 NH 849 round baler - Jiffy 920 Bale shredder - Concept 620 Roller mill SEEDING & TILLAGE - 40' Bourgault air seeder - 28' Bourgault Vibrashank - 19' IHC 55 Deep tiller - 30' JD 9300 Hoe drill TRAILERS - 40' Trueflow drop deck - T/A jeep DOZER - IHC TD9 SWATHER - 18' NH 1090 COMBINE - JD 7721 PTO AUGERS - Westfield 10' x 60' - two 18' x 7' Augers FIELD & CATTLE EQUIP - Schulte stone picker, PTO drive - Shaver post pounder FIREWOOD EQUIP - Log splitter - PTO wood conveyor ATTACHMENTS - 3 pt hitch bale fork - front pallet fork.

MARION & ERNIE WIWCHARUK OWNERS PH: 306-547-2719
TRACTORS - 77 8430 4WD - 83 Case 2590, PS - 67 JD 4020, std shift, c/w JD 158 FEL ANTIQUE TRACTORS - Ford 8N, gas - John Deere D - John Deere A - IHC Model A TRUCKS - 79 Mack R600, 15 spd, wet kit - 89 Dodge ½ ton - 74 Chev C60, T/A gravel truck - 59 Chev 1 ton - 67 Plymouth Fury III, 2 door CONSTRUCTION - 230 Timberjack Skidder w/winch - 48' Highway - Rome plow - lowbed trailer HAYING EQUIP - 95 IHC 8480 round baler - NH 850 round baler - Frigstad T/A bale wagon COMBINE/SWATHER - 750 MF Combine - 5542 White combine - 2, Super 92 combines, two Versatile 103 swathers TILLAGE - 32' JD field cultivator, w/MTH - 30' Case IH 5600 Deep tiller - 42' IHC 7200 Hoe drill - 12' + 18' JD deep tillers MISC EQUIP - 10' Dozer blade - propane tanks - two Fiberglass boats w/60 + 70hp motors - steel saw - 4 whl trailer - 2 whl trailer - Qty of 3, 300 - 500 gal fuel tanks - Asst long guns

LENORD VEWCHAR & OTHER CONSIGNORS LENORD PH: 306-865-7480 TRACTORS - 1370 Case, cab, PS HAYING & CATTLE EQUIP - 18' NH 1090 SP Swather - 605C Vermeer round baler - 16' IHC 620 drills - NH 325 mix mill - Large cattle feeder BINS - Qty of 3, Westland Chief 2000 bushel bins MISC - Approx 18 sheets used roofing tin, 3' x 27' OTHER CONSIGNORS PH: 306-865-7660 TILLAGE & SEEDING - 16' Case RP/Hutchmaster HD off set Tandem Dis-28' IHC 620 Press drills w/grass attachment BINS - Qty of 3, Butler 1650 bushel bins BALER - Case IHC 8480 Soft core round baler COMBINE - 85 CCL 9600 PTO Combine LAWNTRACTOR - 2012 JD Z-235 42" cut, zero turn, PLUS MANY OTHER ITEMS TOO NUMEROUS TO MENTION.

3 TRAILERS OF SMALL ITEMS BEGIN SELLING @ 9AM

LARGE EQUIPMENT BEGINS SELLING @ 12:30PM

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AUCTION SALES 0900**AUCTION SALES** 0900

COMPLETE FARM Auctions
67 SINCE 1949

JUNE 8TH, 2016 • 10:00 AM • LIVE INTERNET BIDDING**RICK & MICHELLE SEDGWICK • STRASBOURG, SK**

Directions: From Strasbourg go 9 km north on hwy # 20 to Duval and 15.5 km east on Duval Road.

Seller Contact: Rick Sedgwick, 306 725-4514

Auction Coordinator: Eric Fazakas, 306-552-6949

1998 Case IH 9390 4wd, 8315 hrs showing; 1979 Ford FW-60 4wd; International 806 2wd w/ Leon 747 FEL, 5771 hrs showing; 1999 Case IH 2388 AFS, 3693 thr / 4854 eng hrs showing; 1993 Case IH 1688, 4144 eng hrs showing; International 1480, 4461 hrs showing; 2004 Case IH 1020 30' flex header; 1988 Case IH 1020 25' flex header; 1996 Case IH 1010 30' rigid header; 2004 New Holland HW 320 25' s/p, 1185 hrs showing; 1988 Case IH 4000 19.5' s/p; 2000 Rogator 1254 4wd 90', approx 2354 hrs showing; 2002 Morris Maxim II 55' air drill w/ Morris 8425 air tank; Ezee On 1600 30' tandem disc; Flexicoil System 92 50' harrow / packer bar; 1999 Flexicoil System 82 60' harrow bar; 1998 Harmon 4480 44' air drill w/ 3100 air tank; 2008 Wheatear SA1071 swing auger; 2013 Westfield TFX 100-41; 2003 Sakundiak HD8-1600 auger, 20 hp Honda; Large selection of hopper bins; 2014 purebred Arabian sorrel stallion; 2009 Hi-Hog livestock squeeze; 2-W 3 section alley; selection of livestock handling equipment; Case Terratrac 1000 crawler; Case Terratrac 800 crawler; 1978 Kenworth highway tractor; 1982 International 1700 grain truck, 51,601 original km showing; 1975 International 500 grain truck, 30,785 original miles showing; 1981 GMC 2500 Custom Deluxe 4wd hyd bale picker; Trailers: 1999 Wilson Commander 41' aluminum grain trailer; 1994 Real Industries 24' gooseneck trailer; 1991 Real Industries 16' stock trailer; SHOP EQUIPMENT

**JUNE 9TH, 2016 • 10:00 AM • LIVE INTERNET BIDDING****RON & LYDIA HARE AND NELSON & CHERYL HARE**

Rosetown, SK

Directions: North of Rosetown to Cleland Dam Road, then 4 miles (6.4km) west & 1 mile (1.6km) north

Seller Contact: Nelson Hare, 306-882-2702

Auction Coordinator: Brendan Kramer, 306-445-5000

1998 New Holland Versatile 9482, 3498 hrs showing; 1985 Case 2294 2wd & Ezee-On 2135 FEL, 8866 hrs showing; 1981 White 2-105 2wd & Leon 707 FEL, 6613 hrs showing; 2002 John Deere 9650 STS, 2492 thr/3401 eng hrs; 2008 John Deere 635F HydraFlex; 2005 Apache AS1000 2wd 90', 1728 hrs showing; Morris Maxim II 39' air drill w/ Morris 7300 tank; numerous hopper bins; Westfield MK100-70 swing auger; Westfield 8" x 60' swing auger; Midwest 252 grain vac; 1998 New Holland 2550 w/ 2300 series 16' haybine header, 1676 hrs showing; 2002 Sterling tandem grain truck, Cummins, Ultracel 20' grain box; 1998 International 9300 Eagle highway tractor; 1986 Ford F250 4wd, 5.9L Ford diesel; 2006 Doepker 36' grain trailer; Other Misc Equip.

**JUNE 10TH, 2016 • 10:00 AM • LIVE INTERNET BIDDING****JNL RANCHES LTD. (JAMES & LORI FORD)**

Chinook, AB

Directions: 4 miles north of Chinook to RR 29-4 then 1/2 mile west & north into yard.

Seller Contact: James Ford, 403-326-2076

Auction Coordinator: Bryan Somerville, 306-463-7835

2001 Case IH MX170 MFWD w/ CIH L755 FEL, 9728 hrs showing; Case IH 8500 45' air drill; Frigstad 59' hd cultivator; Riteway RR800 rock picker, 3 bat reel; 2007 John Deere 568 MegaWide Plus round baler; 2013

AUCTION SALES 0900**LARGE AUCTION**

June 12th (Sunday) @ 10am

South of Brandon, MB.

Treesbank Rd #43N.

Held @ the acreage of

Judy Bind & the late Frank Bind.

Large asst engine repair parts, tools & misc, metal lathe, utility trailers, car hauler, yard trailer, old tractors (John Deere D, Farmall A, W4 McCormick Std, Massey 2200 w/loader), several stationary engines (includes a RR jigger engine).

List & pictures @

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MACK AUCTION CO. presents a very large Equipment-RV-Vehicle Auction on Saturday, June 18, 2016 at the Estevan Motor Speedway Estevan, SK. at 9:00 AM.

Call Today to Consign! 306-634-9512.

2011 Dodge 3500 Longhorn diesel dually with approx. 50,000 kms, 2013 Ford F-150 4WD ext. cab truck w/Leer topper, 2009

Kia Sorento LX 4WD, 1976 Dodge 600 3 ton grain truck w/steel B&H, 2003 GMC

4WD Sierra SLE 2500 Duramax with A/T/C and gooseneck hitch, 1987 converted

school bus for tools, 1998 Ford F150 2WD truck, 2011 DRV Select Suite 36' 5th wheel

camper loaded w/triple slide and gel coat, 2014 Big Tex 16' gooseneck dump trailer,

1981 tandem axle gooseneck flat deck

trailer, 1988 18' Terry Resort travel trailer,

JD 1026 snowblower, JD 117 pressure

washer, 1991 Melroe Spra-Coupe, Quick

Grain Cleaner, 20' Larson open bow fishing

boat; Case 60XT skid steer, C-Jay 14' cargo

trailer, NTM 5" and 6" eavestroughing

machine, Trim Master 10' brake shear,

2008 Jayco Eagle 5th wheel camper with

rear bunks, 2- JLs 33RTS scissor lifts,

2008 Load Max 40' flat deck trailer, 16'

tandem axle dump trailer, 6'x12' cargo ice

fishing shack, Canadian Hauler 8-24 cargo

trailer, 2- Frost Fighter diesel construction

heater, Gibson 5 HP tiller, 2- parade floats

hay wagons, MF 180 2WD diesel tractor

w/3 PTH, Case/IH 5600 DT 37' cultivator,

Elgin Pelican street sweeper with recent

work, 1996 Wildcat snowblower and parts,

2007 3 PTH Maschio sickle mower, 1986

Fox Brady slide-in sand spreader for 3 ton

truck, Dura Patcher hot mix patcher, 1973

Ford F-600 3 ton grain truck, 230 Suzuki

ATV quad, 346 JD square baler, Edco

concrete grinder w/Honda edger, 4' Monarch

pump with 16 HP Kohler engine, complete

hyd. wet kit for truck, Frost Hog ground

thawing device, Farm King 8' finishing

mower, 2007 3 PTH grass seeder, Country

Line 6' finishing mower, 2007 3 PTH grass

seeder, Country Line 6' 3 PTH finishing

mower, Country Line 7' 3 PTH offset disc,

Craftsman 18 HP 46" lawn tractor, Bergen

ATV T/A hunting trailer, FEI tractor forks,

3 PTH cult. disc blade, Melroe skid steer

hyd. post hole auger, Woodchuck wood

chipper bumper pull, Schulte 827 rock-

picker, Carolina 55 ton press, Carolina en-

gine hoist, dual tire removal jack. Plus

much much more coming! Visit

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306-487-7815. PL #311962.

AUCTION SALES 0900

ESTATE AUCTION FOR PAUL LAKEMAN OF VINTAGE TRACTORS, FARM TOYS & EQUIPMENT. Saturday, June 25, 9:30 AM. 2 miles E of White City, SK. on North Service Rd. On Offer: 1917 Advance-Rumley, 30 HP S/N #7689 (sold subject to approval of high bid); MM M, runs; JD model A, NF, runs; 1946 Massey Harris 20, runs; 1948 JD B, WF, runs; 1948 Case S, restored; 1949 JD Styled AR, runs; 1950 Case D, loose & comp.; 1953 Case DC-4, runs; Case 24" threshing machine, on rubber, used in last 2 years; JD R, comp., needs reassembled; JD M, restored; Case 580 backhoe, extend-a-hoe, 2 WD, w/extra bucket; Late 40s Reo 1 ton truck, comp., runs, partial restoration; 2008 Chevy Silverado, crewcab, Z71 truck, w/cap, leather, V8, auto; Various parts cars & trucks; JD STX 38 & JD STX 46 riding lawnmowers; JD Gator CX; Garden tractor, w/cycle mower, plow, disc & real mower; Various farm & vintage equip.; Antiques; Collector farm toys; And many other items!

Internet Bidding with www.bidspotter.com starts at 1 PM local time. For more info

Kevin 306-536-8789, Lyle 306-531-6366,

www.2sauctioneers.ca PL #333133.**AUCTION SALES 0900****LARGE FARM RETIREMENT AUCTION**SAT. JUNE 18th 10AM
Live Internet BIDDINGLocation: 218 Brandt St.
Steinbach, Manitoba

Partial List: *2012 Case IH 700 60ft Flex Hoe Air Drill w/Case 3430 Air Cart (only 8600 acres) *Wishek 842-N 14ft Tandem Disc *2013 JD 940 Mower Conditioner *2012 NH DuraVee 1428 14 Wheel Rake *2013 JD 6190R MFWD, 3 Pth, Cab, Loader, 700hrs, IVT Trans 50km/h *6640 JD 4WD Tractor, dual hydraulics *IHC 4700 Grain Truck w/ 21ft Box *2012 568 JD Round Baler 5X6, Cover Edge Net Wrap.

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WRECKING SEMI-TRUCKS, lots of parts. Call Yellowhead Traders. 306-896-2882, Churchillbridge, SK.

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BUSES 1300

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CARS 1400

2012 FIAT 500 Pop, 27,000 kms, \$9999. 1-800-667-4414, www.thoenos.com Weyburn, SK. DL #90250.

2012 SUBARU LEGACY 2.5i Ltd. AWD, 2.5L H-4 cyl., 61,869 kms, stk# SK-5357A. Call for price! 1-877-373-2662 or www.subaruofsaskatoon.ca DL #914077.
2015 SUBARU WRX, 2.0L H-4 cyl, 30,963 kms, stk# U02102. Call for our best price! Call 1-877-373-2662, DL #914077, or www.subaruofsaskatoon.ca
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2015 BERG'S SUPER B grain trailer, with 24.5 alum. wheels and greasing system, \$74,900. Call Berg's Prep & Paint 204-823-4159, 306-874-8575, Winkler, MB

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2015 WILSON Super B, also tridem 2 hopper; 2 new CASTLETONS: 44' tri-demic; 3 hopper and 2 hopper and 36' tandem; 2014 Wilson Super B; 2005 Lode-King Super B; 2009 aluminum open end Lode-King Super B w/remote chutes; 2004 Doepler tandem; New Michel's hopper augers and chute openers. Ron Brown Imp. 306-493-9393 www.rbisck.ca DL #905231.
NEW 38' TANDEM trailer, side chutes, roll tarp, 72" sides, \$34,000. 306-824-4909, Spiritwood, SK. www.greattrailers.ca
2014 CIRCLE J Lightning 72H BP excellent condition, low miles. Please call for specs, \$12,500. 403-507-9913, Olds, AB. the_rusty_81@hotmail.com
Fifth Wheel - 20ft. - Retail \$16,995
Bumper Hitch - 16ft. - Retail \$14,000
Cash Pull Away Price In Stock Now!!!**GRAIN TRAILERS 1505**

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1996 MIDLAND 24' tandem pup, stiff pole, completely rebuilt, new paint and brakes, like new, \$18,500. Merv 306-276-7518, 306-767-2616, leave message, Arborfield, SK. DL #906768.

2012 CANCADE 45' tridem grain trailer, \$46,000. 1980 Muval equipment trailer, fresh safety, \$28,000. Can-Am Truck Export Ltd, 1-800-938-3323, Delisle, SK.

2015 AHV LODE-KING aluminum Super B hoppers, extra light pkg., round stainless fenders, current safety, excellent 11Rx22.5 tires w/alum. wheels, exc. cond., no air lift or elec. tarps. 2 sets avail., \$10,000 each OBO. 1-866-236-4028, Calgary, AB.

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2007 IH 9400, with Cummins 435 HP 10 spd. AutoShift, 20' box, alum. wheels and tanks, exc. cond., certified, \$67,500; **2006 Peterbilt**, 475 HP Detroit 18 spd., A/T/C, alum. wheels, tanks, chrome bumper, like new tires, new paint, 20' BH&T, exc. shape, show truck, \$69,500; **2007 Mack**, 460 Mack eng., 12 spd. auto. trans., 3-way lockers, alum. wheels, good tires, 20' BH&T, rear controls, pintle plate, \$69,500; **1990 Kenworth T600**, 450 HP Detroit, 10 spd., alum. from wheels, good tires, pulls good w/1996 36' Canecade 2 hopper grain trailer- nice shape, \$35,000. Trades accepted. Call Merv at 306-276-7518, 306-767-2616, Arborfield, SK DL #906768

2007 WESTERN STAR 4900SA Tri-drive, C15 Cat, 550 HP, 18 spd., full lockers, new 24' CIM B&H; **2007 IH 9200, ISX, 475 HP**, 18 spd., new CIM B&H, fresh SK, safeties, both Western trucks. 306-270-6399, Saskatoon, SK. 78truxsales.com DL #316542.

2008 KENWORTH T800 ISX, 485-500 HP Cummins, 18 spd. trans., sunroof, 24.5 tires, alum. wheels, 4-way locks, 14' front axle, 46 reels, 3.91 ratio, new 20' box w/elec. tarp, remote hoist and tailgate, exc. shape, fully dressed, 772,864 kms, \$72,500. Call Merv, Arborfield, SK, 306-767-2616, 306-276-7518 DL #906768

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**SPECIALIZED TRUCKS 1680**

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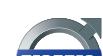
2016 Hino 338 with 24' Tow Deck, 260 H.P., Automatic, Air Ride, 12,000# F/A, 21,000# R/A, Stk#TH21513

2013 Freightliner Cascadia, DD13, 450 HP, 18 spd, Park Smart, EWS Ext. Warranty, 12,000 # F/A, 40,000 # R/A, Engine Warranty, 4 way lockers, 698 Kms Asking \$75,000 STK# TRU215117

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1998 CAT D6R LGP crawler, hyd. straight dozer w/tilt, \$79,500; 1978 Cat D6 LGP crawler, hyd. angle dozer, new UC, rebuilt engine, \$39,500; 1997 JD 544H wheel loader, 2 yd. bucket, pallet forks, angle snowplow, all equipped with hyd. quick change, former Municipal machine, \$54,500; 2006 Komatsu PC270LC8 hyd. excavator, 6000 orig. hrs., trenching and clean-up buckets w/quick change, new UC, hyd. plumb, \$107,000. Please call for more info and pictures. Bob Harris, Robert Harris Equipment Sales, Gimli, MB. 204-642-9959, 204-470-5493. Email: rharris@rharrisequipment@gmail.com

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1984 CAT D7G dozer, c/w 13.5' twin tilt angle blade, HD ripper, bush canopy, enclosed cab with heat, powershift, UC 90% new, XU, excellent working condition, 26" new pads, warranty, \$79,000. Can deliver. 204-743-2324, Cypress River, MB.

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LIFETIME LID OPENERS. We are a stocking dealer for Boundary Trail Lifetime Lid Openers, 18" to 39". Rosler Construction 2000 Inc., 306-933-0033, Saskatoon, SK.

2015 CIM BIN Cranes (Westeel design), 8000 lb. capacity. For factory direct pricing and options call 306-682-2505, Humboldt, SK. or www.cim-ltd.ca

2015 CIM BIN TRANSPORT TRAILER 17,000 lb. cap., 32' bld accommodates up to 21' dia. bin. For factory direct pricing and options call 306-682-2505, Humboldt, SK. or www.cim-ltd.ca

TIM'S CUSTOM BIN MOVING and Hauling Inc. Up to 22' diameter. 204-362-7103 binmove50@gmail.com

GSI TOP DRY bins. Call Wentworth Ag 1-877-655-9996 and ask about our specials or wentworth@grainequipment.com www.grainequipment.com

FOR ALL YOUR grain storage, hopper cone and steel floor requirements contact: Kevin's Custom Ag in Nipawin, SK. Toll free: 1-888-304-2837.

WESTEEL, GOEBEL, grain and fertilizer bins. Grain Bin Direct, 306-373-4919.

BINS 4003

Grain Bin Direct
Factory To Farm Grain Storage
Galvanized • Flat Floor • Hopper Bins
Smooth Walls • Fertilizer • Grain • Feed
Aeration • Rockets • Fans • Heaters
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WESTEEL
Authorized Dealer Saskatoon, SK
Phone: 306-373-4919
grainbindirect.com

JTL CORRUGATED HOPPER bins. Call Wentworth Ag 1-877-655-9996 ask about our specials. www.grainequipment.com Email: wentworth@grainequipment.com

BROCK (BUTLER) GRAIN BIN PARTS and accessories available at Rosler Construction. 306-933-0033, Saskatoon, SK.



POLY GRAIN BINS, 40 to 150 bu. for grain cleaning, feed, fertilizer and left over treated seed. Booth 70728 Farm Progress Show, Regina. Ph. 306-258-4422, Vonda, SK. www.bufervalley.com

HOPPER BOTTOM CONES: We make cones and steel floors for all makes of bins. Call Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK.

Download the free app today. Available on the App Store 

TALBOT HOT BIN SEALING, we seal bins on wood and concrete floors. Serving SK, AB. and MB. 306-631-0203, Moose Jaw, SK. talbotbinsealing@gmail.com

BINS 4003

JTL Industries Ltd. is excited to announce the opening of our sales office in Grande Prairie and would like to welcome **VERNE KLASSEN** to our sales team!



Verne brings with him the morals and ethics we deem necessary in providing the service and attention our customers deserve.

Feel free to stop by our office across from Douglas Lake Equipment and have a coffee with Verne and check out our "Force 360 grain bins" or **Call Verne at 1-639-822-7722**

vklassen@jtlindustries.ca

JTL sales@jtlindustries.ca
INDUSTRIES LTD.
www.jtlindustries.ca
Neilburg, Saskatchewan

Head Office: 1-306-823-4888
Alberta: 1-780-872-4943
Manitoba: 1-204-573-3204
Grande Prairie Office
1-639-822-7722

Visit our website www.jtlindustries.ca

M&K WELDING

14 ft Hopper Cone with skid
Starting at \$2,695.00

19 ft Hopper Cone with skid
Starting at \$4,725.00

New Hopper Bin
18-05 Approx 4920bu
With Skid
Starting at \$10,395.00

Phone for more details!

M&K Welding
Melfort, Sask
1-877-752-3004

Email: sales@mkwelding.ca

www.mkwelding.ca

SUPERIOR BINS: Hopper bottoms from 3300 to 12,000 bu.; 18' 5000 bu. combo at \$11,800. Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK.

SUPERIOR BINS: Large diameter concrete or steel floor mounts. All sizes available. Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK.

CHIEF WESTLAND AND CARADON BIN extensions, sheets, stiffeners, etc. Now available. Call Bill, 780-986-5548, Leduc, AB. www.starlinesales.com

CUSTOM GRAIN BIN MOVING, all types up to 22' diameter. 10% spring discount. Accurate estimates. Sheldon's Hauling, 306-961-9699, Prince Albert, SK.

FOR ALL YOUR 2016 GRAIN & FERTILIZER STORAGE NEEDS CALL:

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steel buildings ltd.
OSLER, SASK.

BINS 4003

Experience the JTL difference! See Us @ Farm Progress Lot E 8208



JTL IS CHANGING THE WAY FARMERS BIN THEIR GRAIN.

Taking concepts from the producer and developing them into engineered designs, JTL is supplying heavy duty bins that are easy on the horizon, impressive in the farmyard and will last a lifetime! All material is sandblasted and coated in a two part polyurethane finish for durability and pride of ownership.

Conditioning grain is key to short or long term storage stability. The Force 360 aeration system provides even airflow that producers can count on, from bottom to top.

JTL believes in its products, so servicing what we sell comes naturally. We know our storage solutions are among the best in the industry and the pride we take in delivering those to the farm results in the best value that a grower will find anywhere.

In Addition To Our Bins...
Replace your old bin floors with our "Legacy Floor."

Increase existing bin capacity by up to 1500 bushels!!

Call for Details

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INDUSTRIES LTD.
www.jtlindustries.ca
Neilburg, Saskatchewan

Head Office: 1-306-823-4888
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Manitoba: 1-204-573-3204
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PRECAST HOPPER BIN PADS

- No concrete cure times
- Engineered to take hopper bins with no skids - hit the feet directly to it
- Available for bins from 14'-27'



AltaMix CONCRETE LTD.
Didsbury, AB
403-415-5502
Altamixconcrete.com

6 WESTEEL 2105 flat bottom bins, 5900 bu. for sale. Call Graham 306-831-7514, 306-935-4523, Morden, SK.

20' AND 40' SHIPPING CONTAINERS, large SK, inventory. Ph. 1-800-843-3984, 306-781-2600.

HORNOI LEASING NEW and used 20' and 40' sea cans for sale or rent. Call 306-757-2828, Regina, SK.

20' AND 40' SHIPPING CONTAINERS, large SK, inventory. Ph. 1-800-843-3984, 306-781-2600.

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NELSON

MOTORS AND EQUIPMENT



**2011
JOHN DEERE
635F**
35' Flex header with
full finger auger. (R)

\$35,200



**2010
JOHN DEERE
640D**
Upper cross auger
and dual zone float.
(E)

\$52,200



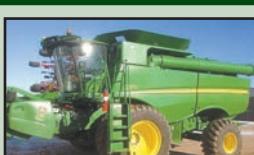
**2011
MACDON
D60-45**
45' Draper Platform.
(E)

\$69,000



**2012
MACDON
FD70-45**
Header mounted. (E)

\$80,400



**2012
JOHN DEERE
S670**
1413 hrs.
Yield monitor. (E)

\$307,900



**2012
JOHN DEERE
D450**
300 hrs. (A)

\$135,000

ATV/GATORS

2013 JD RSX850i Gator, Camo, Trail, 150 hrs.....	\$18,800	(ES)
2013 JD XUV 550 S4, G/Y, 250 hrs.....	\$11,500	(AV)

LAWN & GARDEN EQUIPMENT

Farm King 720 grooming mower.....	\$1,750	(RA)
2008 Frontier 1072 grooming mower, 6Ft.....	\$1,900	(AV)
Frontier GM3072 grooming mower, 6Ft.....	\$2,750	(RE)
Frontier 3 pt disk, 5Ft.....	\$1,500	(RA)
2009 JD Z425 zero turn mower, 48" cut, 250 hrs.....	\$2,600	(RA)
2010 JD Z445 zero turn mower, 54" cut, 528 hrs.....	\$3,700	(RE)
2008 JD Z510A zero turn mower, 48" cut, 358 hrs.....	\$4,350	(RA)
2012 JD Z655 zero turn mower, 54" cut, 383 hrs.....	\$5,800	(ES)
2013 JD X310 Lawn Tractor, 42" cut, 44" S/B.....	\$5,500	(RA)
2011 JD X320 Lawn Tractor, 54" cut, 190 hrs.....	\$3,490	(ES)
1995 Kubota T1460 Lawn Tractor, 40" S/B, 42"cut, weights.....	\$2,500	(AV)

COMPACT UTILITY TRACTORS

2012 Kubota BX2360, mwr, tiller, mfwd, 315 hrs.....	\$13,900	(ES)
---	----------	------

4 WD TRACTORS

2005 JD 9420 quad, duals, 3800 hrs.....	\$175,000	(AV)
2008 JD 9430 triples, powerquad, 2225 hrs.....	\$223,900	(AV)
2012 JD 9560R triples, PTO, 1700 hrs.....	\$384,300	(ES)
2014 JD 9560R duals, 975 hrs.....	\$437,000	(RE)

TRACK TRACTORS

2010 Challenger MT875C, Degelman Blade, 2700 hrs....	\$352,000	(RA)
2014 Case IH 600 Quadtrac, 886 hrs.....	\$472,900	(AV)

2 WD - MFWD TRACTORS

2015 JD 6140M, MFWD, loader, 235 hrs.....	\$172,500	(OX)
2003 JD 7710, loader, 7200 hrs.....	\$85,900	(ES)
1996 JD 7800, MFWD, loader, 3pt, 11845 hrs.....	\$59,500	(ES)
2001 JD 8410, MFWD, duals, 7072 hrs.....	\$112,900	(RA)
2003 CIH MXM130, loader, 7700 hrs.....	\$54,900	(ES)
2010 CIH Magnum 180, loader, 4700 hrs.....	\$141,200	(RE)
1988 JD 2755, loader, 11650 hrs.....	COMING	(AV)

COMBINES

(PLEASE REFER TO OUR WEB SITE FOR MORE DETAILS)		
2012 JD S670, starting at 975 sep hrs.....	5 CHOICES	
2012/2013 JD S680, starting at 550 sep hours	6 CHOICES	
2012-2015 JD S690, 150 hrs to 850 hrs.....	9 CHOICES	
2008-2010 JD 9870STS, starting at 900 sep hours	8 CHOICES	
2008-2010 JD 9770STD, starting at 1050 sep hours	4 CHOICES	
2007 JD 9860STS, duals, 1451 hrs.....	\$167,000	
2005-2007 JD 9760STS, 1610 Sep hrs & up	4 CHOICES	
2004 JD 9660STS, 1400 hrs.....	\$125,900	(OX)
2002 JD 9750STS, 2440 hrs.....	\$99,900	(AV)
2001 JD 9650STS, 1718 hrs.....	\$98,500	(ES)
2001 JD 9650STS, 2595 hrs.....	\$83,000	(OX)
2001 JD 9650W, 3720 hrs.....	\$77,800	(RE)
2002 JD 9650W, 2139 hrs.....	\$98,000	(RA)
1999 JD CT5II, 3293 hrs.....	\$40,000	(AV)
1998 Case 2388, pickup header, 2700 hrs.....	\$58,400	(RE)
2005 Case 2388, pickup header, 2125 hrs	\$115,900	(RA)

COMBINE PLATFORMS

MacDon PW-7 Pickup headers.....	\$19,000-\$26,000	
Precision Pickup headers.....	\$7,500-\$15,000	
2005-2011 JD 635 Flex, good selection, some with air reels.....	\$29,500-\$39,900	(AV)
2012 JD 640FD flex draper	\$83,700	(RA)
2010-2011 JD 640D 40' draper, several to choose from.....	CALL	(AV)(RA)
2009-2011 JD 635D 35' drapers, several to choose from.....	CALL	(AV)(RA)
2002 JD 936D 36' draper	\$22,000	(RA)
1990-1997 JD 930R, 30' rigid,bat & pickup reels available	\$5,000 & up	
2012 MacDon FD75 45' Flex draper	\$80,400	(ES)
2009 MacDon FD70 40' flex draper	\$61,900	(RA)
2009 MacDon FD70 35' flex draper	\$59,900	(ES)
2010 MacDon D60 40'	\$48,900	(RE)
2010-2011 MacDon D60 45', transport	\$58,900-\$69,000	(ES)(RE)
2013 MacDon D65 40', Transport	\$87,800	(OX)
1990 MacDon 960 36', JD adapter	\$3,900	(ES)
1994 MacDon 960 36', bat reel, transport	\$3,900	(ES)
1998 MacDon 960 36', pickup reel.....	\$5,900	(RA)
2004 MacDon 973, 36', JD adapter	\$25,900	(ES)
1998 Shelbourne CX84 30' stripper header	\$22,000	(RA)

GRAIN HANDLING EQUIPMENT

2011 Brandt 13x90HP grain auger.....	\$20,500	(ES)
2013 Brandt 13x40 pto, load out auger, mover, new	\$17,600	(AV)

ATV/GATORS

2004 Brandt 13x70XL grain auger	\$12,900	(ES)
2009 Brandt 13x90XL grain auger	\$16,900	(RA)
2005 Brandt 13x90XL grain auger	\$7,900	(OX)
2009-2010 Brandt 1545LP conveyors	\$17,900-\$19,000	(RA,ES)
2014 Brandt 13100HP grain auger	\$24,300	(OX)
2008 Westfield MKP130-111 grain auger	\$12,700	(OX)
2013 Sakundiak TL10-1000 grain auger, 36 hp Kohler & Mover	\$16,900	(AV)
2009 Sakundiak 10x1200 grain auger	\$13,400	(ES)
2014 Meridian HD10-53 grain auger, 35 hp, mover	\$16,500	(ES)

GRAIN CARTS

2009 Brent 1594.....	\$77,900	(RA)
2013 Brent 2096, tires, full load	\$133,900	(AV)

SPRAYERS

2010 JD 4830, 1482 hrs	\$239,000	(RE)
2010 JD 4830, 1430 hrs	\$242,300	(AV)
(4) 2011 JD 4930, 1800-2000 hrs	\$249	



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**2008
CIH QUAD
TRAC 485**

485 HP, 4229 hrs, powershift, front weights, good overall condition.....

\$159,800



**2013
LEMKEN
RUBIN 4/900**

Like NEW, 13', 3PH, baskets, less than 1000 acres use.....

\$29,800



**2010
IH PH800
W/ 3430**

70' TBH drill, 430 bu, 8 run, dbl shoot, 12" spacing, vari rate, ready to go w/ monitor.....

\$59,800

COMBINES



2003 NH CR970
1158 hrs, duals, MAV chopper, yield & moisture, ready to go, pickups available.....

2004 JD 9760 STS
2062 hrs, GreenStar, auto HHC, reel speed, factory chopper, pickups available, w/ warranty.....



**DUALS, TRIPLES,
BIG SINGLES
FOR ALMOST ANYTHING!**
Air tanks, sprayers, combines, carts, tractors
CUSTOM BUILDS, GREAT PRICES!

SEEDING



2001 FLEXI-COIL 3450
360 bu, 8 run, dbl shoot, tow behind, variable rate, nice shape.....

1998 JD 1820 W/ 1900
45', 350 bu, 10" spacing, 8" auger, blockage monitors, sgl shoot, 3" packers, good condition....



2007 JD 1830 W/ 1910
61' dbl shoot, paired row openers, 10" spacing, 4" steel packers, blockage monitors, very good condition...

PACKER WHEELS
Many sizes available for Bourgault, Seed Hawk, & SeedMaster drills. Like NEW condition!.....

SEEDING



1999 JD 1900
430 bu, tow behind, 8 run, dbl shoot, 8" auger w/ monitor.....

1999 JD 1820
61', 10" spacing, sgl shoot, blockage sensors, good 3" rubber packers, nice cond.



2009 DEGELMAN SM7000
70' heavy harrows, hyd. tine adjust, 5/8" tines, good condition.....

1999 FLEXI-COIL S85
70' heavy harrow, tines 50%, good usable harrow.....

SPRAYERS



2007 SPRAY COUPE 4655
80', 1080 hrs, 400 gal, mechanical drive, auto steer, with JD 1800 monitor

1996 SPRAY COUPE 3630
60', 300 G, 3252 hrs, 5 speed, Raven controller, crop dividers.....



2006 SPRAY AIR 3600
Trident II 100' HC, suspended boom, 1300 G, air assist/stnd spray, chem handler, sec cntrl...

2002 SPRAY AIR 3400
90' PT, 800 G, air assist/ standard spray, auto-boom, good condition, w/ monitor.....

SWATHERS



2003 MF 220XL
1450 hours, 30' 5000 header w/ PUR, cab excellent, good condition

2012 JD D450
Swather w/ 40' 640D hydrafloat, 231 hrs, GS rdy, free form hyd roller, excellent cond



2012 MD FD70
40', flex draper, pea auger, transport, HHC, new knife & guards, w/ warranty

2011 IH 2152
40' rigid, w/ Auto HHC, new knife & guards, very good cond, set for CNH, JD/Lexion available..

TRADES WELCOME FINANCING & LEASING AVAILABLE



**2016 Impreza
Best Small Car**

CONSUMER REPORTS HAS NAMED TWO SUBARUS TOP PICKS FOR 2016



**2016 Forester
Best Small SUV**

A SUBARU HOLDS ITS VALUE BETTER THAN ALL OTHER MAINSTREAM BRANDS IN CANADA

Subaru has once again been named the Top Mainstream Brand in Canada at the prestigious **2016 ALG Residual Value Awards**, the ultimate forecasting benchmark for the future value of vehicles.* And it's just one of Subaru's four ALG Residual Value awards, including a first place win in its category for the Subaru Crosstrek and the 6th consecutive category win for the Subaru Outback. Learn more at Subaru.ca



SUBARU
Top Mainstream Brand In Canada

TOP SAFETY PICK PLUS AWARDS FROM IIHS Subaru Wins 6 Top Safety Pick Plus Awards For The 2016 Model Year



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CROSSTREK**

Subaru makes the
Best Safest
Vehicles



**2016
IMPREZA**

Only
Manufacturer
with 6
Top Safety
Pick Plus
Awards



**2016
WRX**



**2016
LEGACY**



**2016
OUTBACK**



**2016
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We Stock:
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Turbos, Waterpumps,
Oil Pumps, Oil Coolers &
Injectors

CAT, CUMMINS, DETROIT, IHC, HINO

Inframe or Overhaul Kits



CAT, CUMMINS, DETROIT, IHC, HINO
We sell IPD and Interstate McBee

Great Pricing!

Call us with your specific engine needs!

Interstate-McBee
DIESEL ENGINE PARTS



2005 GMC 4500
RJS 175 hp. Diesel Engine, Automatic
Transmission, 255/75R16 Tires at 75%, Cruise,
Tilt, Power Steering, Front Axle Capacity - 2431
kgs. / Rear Axle - 4482 kgs., GVW 6577 kgs or
14,500 lb., c/w 12' Dry Van with Power Tailgate.
Unit has Fresh AB Safety.

Stk # UV1102 \$14,885



2014 Peterbilt 367 Tri Axle
Cab & Chassis

Cummins ISX15.550 hp. 1850 Torque, Total Hours 4437, 215,145 km, Jake
Brake, 18 spd. RTL01891BB Transmission, 20,000 lb. Front Axle w/Dual
Steering Boxes, T69-170 69,000 lb. Tri-Drive w/Full Lockers 3.91 ratio, FW35
Holland 16x16 Wheel 9.25 R16 Slides, Alum Walking Deck w/Slide out chain
racks, Positive Air Shut Down, Webasto Engine heater w/timer, 160 amp
Alternator, High Torque Clutch, SPL 250 HD DriveLine, 10 3/4" Frame 3/8" Thick,
Air Trac Air Ride Susp 385/65R22.5 Front Tires, 11R24.5 Rear Tires - all
on polished Alum Hub Pilot Rims, Air Ride Cab, 72" Ultra Cab Sleeper w/
Fridge, Power Inverter, Platinum Interior, Business Center w/High Roof, Smart
Navigation System, Satellite Radio w/Perm Speaker Package, Ultra Pro Power
Pack, Hard HD Bumper, Unit has been fully reconditioned, serviced and has
Fresh Alberta Safety - Ready to work!

Stk # UV1098 \$148,900



20' Steel
Deck
20' L x 8' W x 42" H
sides, Steel Checker-
plate Floor, 54" x 96"
Headache Rack, 6" Main
Sills, 6" Cross members
12" Spacing
Stk # UV1072

\$2,250

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Rear Ends
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LET US WORK FOR YOU!**

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**C7 Industrial
Cat Engine**
Fits 950 Loader
Factory Rebuilt
Sold with Warranty
\$21,885 Exchange



C12 Cat Engine
MBL – 435 Hp, Rebuilt
Drop In. Sold with
Warranty
\$24,885 Exchange



**SPECIAL
ENGINE PRICING**
w / 2 Year Warranty
Complete Drop In
Units:
7.3 Ford Powerstroke
DT466E – 230 IHC
ISB 5.9 Cummins
3126/C7 Cat
**Call for Pricing
& Details**

450KW Marathon Genset



628 hours since new, S60 Diesel Engine
– inframe, load tested

\$44,500

2005 10'x30' National Wellsite Trailer



Propane Pig, A/C, Bedroom w/Bunk Propane
Pig, A/C, Bathroom w/Shower Stall, Washer
& Dryer, Microwave, Stove, Fridge, Built in
BBQ, Fresh CVI. In Excellent Condition

Stk # UV1027 \$53,385

2002 10'x30' Mountainview Wellsite Trailer



Propane Pig, A/C, Bedroom w/Bunk Beds – Queen Bottom, Microwave,
Stove, Fridge, Fresh CVI. In Great
Condition

Stk # UV1026 \$38,800

Customer Driven, Quality Focused

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CATERPILLAR ADS AMVIC



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Homes by Northplex provides solid modular homes across Western Canada, utilizing our 150,000 square foot climate & quality controlled facility located in Barrhead, Alberta. Western Canada's best kept secret!

All of our modular homes meet or exceed the National Building Code of Canada, the Alberta Provincial Building Code and are certified under CSA standards. Rest assured, you have a quality product from a company that cares about each modular home we build.



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STK# SK-S3144A

3.6L H-6 cyl.,
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59,725 kms

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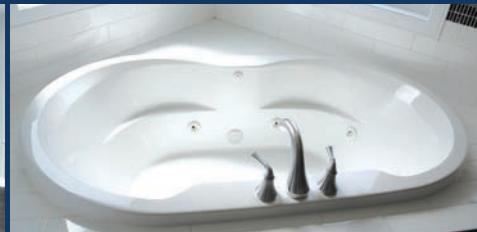
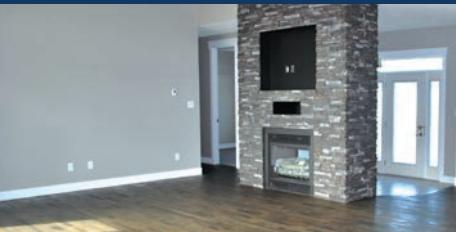
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2015 John Deere R4045 120'

730hrs, AutoTrac, Command-View II Plus Cab, JD section control, JDLink, 380/105R50, boom air purge, flotation 800/55R46R1. St #0006467A (M)

\$533,800



2013 John Deere S690

589 sep hrs, AutoTrac, SF2 activation, JDLink, 2630 GreenStar, Pro drive trans, w/Harvest-Smart, 650/85R38. St #0755391A

\$456,000



2013 John Deere 4940-120'

766 hrs, direct injection, 380/105R50, JDLink, 20"spac, section control, 620/70R46 float tires, Tridekon hyd crop dividers. St #0023722A (W)

\$356,000



2012 John Deere 9510RT

2630 GreenStar, SF1 receiver, JDLink, deluxe Commandview, 36" durabuilt tracks, 18/6 powershift, AJ Hitch. St #0901040A

\$391,900



2010 John Deere 4730-100'

1258 hrs, SF3000, AutoTrac, Swath Control Pro, 320/90R46, float 520/85R38, BoomTrac Pro, 20" nozzle space, HID Lights. St #0008371A

\$245,800



2013 John Deere W150

w/435D - 35' header, 600-65R28, hyd Centerlink, HID aux lighting. St #0390315A (RM)

\$165,600



SPRayers

15 JD R4045, 120', 791 hrs, AutoTrac, JDLink, section ctrl, 800/55R46R1 \$533,800 (R)
12 JD 4940 New Leader Spreader Box, AutoTrac, section ctrl, 620/70R46 \$410,000 (R)
13 JD 4940, 766 hrs, 120', 380/105R50, 20" nozzle, BoomTrac 5 sensor \$356,000 (W)
14 JD 4730, 100', 581 hrs, SF3000, JD Link, 380/90R46, 520/85R38 float \$319,700 (RM)
12 JD 4830, 100', 1143 eng hrs, 20" nozzle, full AMS pkg \$268,300 (R)
(2) 11 JD 4930-120', 1675 eng hrs up, 5 sensor BoomTrac \$251,700 up (M, W)
10 JD 4730, 1258 hrs, SF3000, AutoTrac, 320/90R46, 520/85R38 floats \$245,800 (R)
11 JD 4830, 100', 2275 hrs, swath ctrl, 420/80R46, AutoBoom trac 3 sensor \$218,700 (M)
10 JD 4730, 120', 1987 hrs, Raven boom height ctrl, 520/85R38, traction \$216,400 (R)
95 Willmar 765, 3423 hrs, 80', crop divid, 600 gal tank, triple nozzle bodies \$26,900 (W)
96 Willmar 745, 75', EZ Steer Trimble, foam mark, JD engine \$26,200 (A)

TRACTORS

(2) 13 CIH Steiger 600 Quadtrac, 1850 hrs up, autoguidance, diff lock, 36" tracks \$441,900 up (MM, W)
(2) 14 JD 9510R, 1193 hrs up, 800/70R38, JDLink \$426,300 up (M, M)
13 JD 9560RT, 1659 hrs, deluxe cab, AJ hitch, 36" tracks, JDLink \$443,900 (A)
13 JD 9460R, 364 hrs, JDLink, 710/70R42, 5 high flow hyd sys \$406,700 (R)
14 JD 9560R, 1353 hrs, 800/70R38, JDLink, CommandView Cab \$400,100 (M)
12 JD 9510RT, 1568 hrs, 2630 GreenStar, JDLink, 36" durabilt tracks, AJ hitch \$391,900 (MM)
12 JD 9560R, 2910 hrs, 510/85R46 (4 new rear), hyd flow hyds, premium cab \$383,400 (MM)
06 JD 8530, 3974 hrs, MFWD, 5 hyd outlets, 480/80R50, leather trim \$198,300 (S)
14 JD 6150R, MFWD, 1045 hrs, 520/85R42, w/H360 loader \$182,100 (A)
07 Challenger MT765B Track, 3265 hrs, GPS, 4 scvs, 20" tracks \$172,900 (R)
04 JD 9520T, 4198 hrs, 2600 GreenStar, 36" tracks, deluxe cab \$171,600 (A)
14 JD 6140R, 1157 hrs, MFWD, w/2014 JD H360 FEL, 520/85R38 \$169,700 (R)
08 JD 7330, 1298 hrs, MFWD, 650/65R38, w/741 loader, 3 deluxe E/H scv \$149,400 (R)
14 JD 6125R, 1181 hrs, MFWD, 460/85R38, w/2014 JD H340 loader \$148,400 (A)
04 JD 8420, 4785 hrs, MFWD, 4 hyds, large 1000 pto, 20.8x42 \$138,000 (S)
13 JD 6150M, 3487 hrs, MFWD, 520/85R38, w/H360 loader \$137,300 (M)
10 JD 7330, MFWD, 5854 hrs, 520/85R38, w/741 loader, grapple \$122,400 (M)
(2) 11 JD 7230, MFWD, 3330 hrs up, 480/80R38, w/JD Loader \$113,000 up (MM)
13 JD 6130D, 1300 hrs, w/H310 Loader, MFWD, 18.4X38 \$101,100 (M)

WINDROWERS/ HAYING

14 MacDon M155, w/D65 35' header, 721 hrs, dble knife, w/13' mower cond \$200,600 (W)
12 MacDon M205, w/D50 40' header, 607 hrs, dble knife, fore/aft \$196,700 (RM)
(2) 13 MacDon M155 w/D65 35' header, 798 hrs up, hyd centerlink \$165,600 up (MJ,W)
(4) 13 JD W150, w/435 header, 560 hrs yp, hyd centerlink \$154,900 up (A,M,MJ,RM)
14 JD W150, w/435 header, 483 eng hrs, w/JD 435 35' draper \$162,600 (M)
(2) MacDon M150, w/D60-35' header, 744 hrs up \$121,500 up (MJ,W)
(3) 10 JD A400, w/HoneyBee 36' header, 272 sep hrs up, ATU \$115,600 up (A,R)
10 NH H8040 Wdr, w/New 2013 WS35 header, dble knife \$115,500 (S)
(2) 10 MacDon M150, w/D60 header 35', 814 sep hrs up \$106,900 up (RM,W)
10 JD A400 Wdr, 2474 hrs, w/HoneyBee WS361 swather 36', 1732 hrs \$94,500 (M)
08 JD 4895 Wdr, w/HoneyBee WS36 header, 1032 sep hrs, dble knife, rotoshears \$91,900 (M)
06 MacDon 2940 Wdr, w/963 30' header, 988 hrs, Outback GPS \$73,200 (R)
06 NH HW305 Wdr, w/HoneyBee 30' header, 180 hrs, U11 PU, F/A, 5 batt \$62,500 (R)
02 JD 2940 Wdr, w/972 25' header, 3351 hrs, 10' mech lift, swath roller \$29,700 (S)
04 JD 567, 14,000 bales, 1000 pto, mega tooth, surface wrap \$24,100 (A)
07 CIH, HDX162 16' mower cond, 1000 pto, reverser \$22,200 (M)

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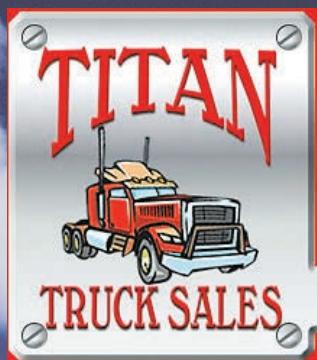
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\$45,000

2011 MACK CXU613



445 HP Mack MP8, 18 sp Mack, 12 front 40 rear, 24.5" alloy wheels, 222" WB, 3:90 gears, 1,091,290 km.

\$39,000

2007 WESTERN STAR 4900SA



500 HP Cat C15, 18 sp, 12 front super 40 rear, 22.5" alloy wheels, 209" WB, 3:90 gears, 4x4 diff. locks, engine warranty till April 2017, 783,757 km

\$45,000

2010 FREIGHTLINER CASCADIA



500 HP Detroit DD15, 18 sp, 12 front super 40 rear, 4x4 diff. lock, 4:10 gears, 220" WB, 986,500 km

\$43,000

2007 FREIGHTLINER SD



515 HP Detroit, 18 sp, 16,000 lb front 46,000 lb rear, 191" WB, 22.5" alloy wheels, 4x4 diff. locks, 4:30 gears, 1,087,686 km

\$29,000

2009 MACK CXU613



485 HP MP8, 13 sp, 24.5" alloy wheels, 12/40, 3:90 gears, 244" WB, 841,773 km

\$30,000

2012 KENWORTH T800



500 HP Cummins ISX, 18 sp, 12 front super 40 rear, 4:10 gears, 22.5" alloy wheels, 194" WB, 4x4 diff. locks, 1,000,027 km

\$49,000

2010 WESTERN STAR 4900FA

2013 KENWORTH T800



515 HP Detroit, 13 sp, 12/40, 22.5" alloy wheels, 244" WB, 373 gears, 3x4 diff. locks, 744,056 km

\$55,000

2007 MACK CL733



530 HP Cummins ISX, 18sp, 20,000 front 69000 rear, 4:56 gears, 6x6 diff. locks, 22.5" alloy wheels, 260" WB, 376,176 km. Hamms TC407,115 BBL, 18,000 litre tank

\$65,000

2010 FREIGHTLINER CASCADIA



505 HP Detroit DD15, 18 sp, 12 front super 40 rear, 4x4 diff. lock, 4:10 gears, 200" WB, 588,528 km

\$43,000

2007 MACK CXU613



460 HP Mack, 13 sp, 24.5" alloy wheels, 12/40, 3:56 gears, 244" WB, 1,044,176 km

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2009 JD 635D 35' draper, transport, pea auger, very nice cond., field ready, \$39,800. Call 1-800-667-4515 or view www.combineworld.com

MACDON 40' FD70, JD adapter, slight damage, asking \$39,900. Can deliver. 204-324-6298, Altona, MB.

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JD 930D with trailer, lots of new parts, always shedded, exc. cond. overall, \$24,000 OBO. 306-640-5959, Scout Lake, SK.

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2011 IH 215Z 40' rigid, w/ Auto HHC, new knife & guards, very good cond, set for CNH/JD/Lexion available...\$54,800

2013 MD FD75-D 45' pea auger, factory transport, DDK, AHHC, header tilt, very good condition...\$69,800

2013 MD D65 40' rigid draper, factory transport, DDK, excellent condition, Adapters available...\$42,800

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32' BOURGAULT 230 multi-purpose cultivator w/harrow, Flexi-Coil 1110 air tank. Retired. 306-944-4325, 306-231-8355, Bruno, SK.

1996 BOURGAULT 8800, 40', 3195 tank, harrows, packers, \$16,000 OBO; 2002 8810 52', \$38,000. 306-563-8482 Rama SK

2012 SEEDMASTER SXG550 70', sectional control, 550 bu., \$247,900. Call Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

FLEXI-COIL 420 40' cultivator; 1610 air tank; 636 Leon loader; 75' Bourgault 4.5' steel packer wheels off 5710; 3 PTH, 7 shank subsoiler; 3 PTH off 300 HP WD. 306-749-2649, Birch Hills, SK.

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JOHN DEERE 4295

2001 JD 8410 MFWD, duals, 7072 hrs, 7/12,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

WRECKING FOR PARTS: 8440 JD, c/w 20.8x34 tires & duals, exc. sheet metal, complete for parts; 3788 IH, vg running eng., 18.4x38 tires. Call 1-877-564-8734, Roblin, MB.

WRECKING FOR PARTS: JD 4450; 4430; 3130, vg running engine, cab, 148 FEL/mounts; Int. 1486, vg running eng., 20.8x38 duals. 1-877-564-8734, Roblin MB

STEVE'S TRACTOR REBUILDING looking for JD tractors to rebuild. Series 20s, 30s, 40s or 50s, or for parts. Will pay top dollar. Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

JD TRACTOR PARTS. Specializing in engine rebuild kits. Thousands of other parts. Service manuals. 42nd year. www.diamondfarmtractorparts.com Call 1-800-481-1353.

2010 CIH 535 QuadTrac, 4200 hrs., JD GreenStar and AutoTrac, HID lights, \$277,300. South Country Equipment, 306-692-2371, Moose Jaw, SK.

1987 JD 4250 w/280 loader, powershift, \$39,000; JD 4430 w/loader, good rubber, \$18,500. 403-308-1238, Taber, AB.

2008 JD 9630T, 4305 hrs., 5 hyds., deluxe comfort package, 36" Durabilt track, \$236,500. South Country Equipment, 306-692-2371, Moose Jaw, SK.

1998 JD 9400, 7000 hrs., new inside rubber, \$85,000. May take cattle or older Cat on partial trade. 306-524-4960 Semans SK

2012 JD 9560R, 1585 hrs., triples, PTO, \$374,000. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

JD 4640, low hours, premium condition, 24.5 x 32 tires, \$33,000 OBO. 403-823-1894, Drumheller, AB.

2004 JD 6715, MFWD, 9660 hours, w/JD 740 loader, 18.4x38, comfort cab, \$51,000. South Country Equipment, 306-442-2212, Montmartre, SK.

2014 JD 6150R, 1045 hrs., deluxe cab with H360 loader, \$180,000. Call South Country Equipment, 306-642-3366, Assiniboia, SK.

JD 7810, quad with 3 PTH, new rubber, \$59,000; JD 7410, new rubber. For info call 780-990-8412, Edmonton, AB.

2015 JD 6150M, MFWD, H360 loader and grapple, 3 PTH, 3 SCVs, 212 hrs., \$170,000 OBO. 780-352-8858, Bitter Lake, AB.

RETIRING: 1980 JD 4640 tractor, recent drop-in 50 Series eng. and trans. service. 306-638-4550, Findlater, SK.

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2 JD 4020 tractors, one standard shift, other with powershift. Call 306-963-7448, Imperial, SK.

2004 JD 7220, 2 WD, 7200 hrs., \$58,900. Call Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

(2) 2014 JD 9510R, 1185 hours up, 800/70R38, JD Link, \$426,300 up. Call South Country Equipment, 306-354-2411, Mossbank, SK.

1997 JD 9200, 24 spd, diff. lock, 4 hyds., 20.8x42 duals, 3355 hrs., one owner, exc. cond., always shedded, June 8th, 306-533-3766, Ponteix switzerauction.ca

1985 JD 4650, 6054 hrs, 3 hyds, 20.8X38, quad trans., \$44,300. South Country Equipment, 306-746-2110, Raymore, SK.

2012 JD 9560R, 2910 hours, 510/85R46 (4 new rear), hyd. flow hyds., premium cab, \$383,400. South Country Equipment, 306-642-3366, Assiniboia, SK.

2004 JD 7520, MFWD, quad shift, 3 PTH, 741 self-leveling loader w/grapple, good tires, 9086 hrs. 306-869-3133, Radville, SK

2005 JD 9620T, 4694 hrs, 36" belts, wide swing drawbar, AutoTrac ready, 4 remotes, 26 front weights, very well maintained! \$99,500 US. www.ms-diversified.com 320-848-2496, 320-894-6560, Fairfax, MN.

2015 JD 6140M MFWD, loader, 235 hrs., \$172,500. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

(2) 2013 JD 6150M, MFWD, 1368 hrs. up, 520/85R38, w/H360 loader, \$137,300 up. South Country Equipment, 306-424-2212, Montmartre, SK.

1997 JD 9400, 4WD, 5800 hrs., 12 spd, 7/10 duals, good rubber, exc. cond., \$82,000. 308-705-6931, Barrhead, AB.

2009 JD 9630, 2054 hours, diff. lock, 800/70R38, deluxe comfort, \$278,000. South Country Equipment, 306-642-3366, Assiniboia, SK.

2007 JD 7520 loader, 9667 hours, \$87,900. Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

2010 JD 9630T, 530 HP, 4341 hrs., 1000 PTO, deluxe comfort, 36" track belt, \$260,000. South Country Equipment, 306-721-5050, Regina, SK.

2014 JD 9510R, 1506 hrs., 18/6 powershift, JDLink, HID lights, 800/70R38 duals, 5 remote cyl, \$426,300. South Country Equipment, 306-692-2371, Moose Jaw, SK.

2013 JD 6150M, 1368 hrs. up, MFWD, 520/85R38, w/H360 loader, \$137,300 up. South Country Equipment, 306-642-3366, Assiniboia, SK.

2009 JD 9630T, 2167 hours, \$287,000. Call Nelson Motors & Equipment, 1-888-508-4406, www.nelsonmotors.com

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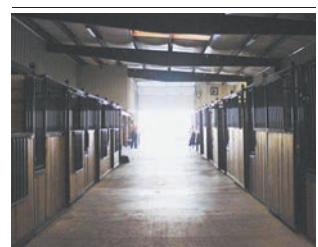
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VANCOUVER ISLAND FARM, Duncan, BC, Farm/Ranch 14.5 acre hay farm with solid 2755 sq. ft., 3 bdrm home, 3 stall barn, implement shed, chicken coop, fenced and cross-fenced, city water, beautiful views, minutes to Cowichan Bay marinas and boat launch, and golf. Price plus GST. MLS #408911. For sale by agent/broker. \$980,000. 250-748-5000, 250-715-6400, Cowichan Bay, BC. mlwlsold@shaw.ca www.marvinwoodsold.com

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PERSONAL 5950**PERSONAL ADS**

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No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

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ALBERTA	6132	SASKATCHEWAN	6133	SASKATCHEWAN	6133	SASKATCHEWAN	6133	SASKATCHEWAN	6133	ALL TERRAIN VEHICLES	6161																			
<p>ATTENTION RANCHERS/ INVESTORS! Rare Opportunity to acquire large parcel of ranch land, 3300 acres (approx.), fully joined, fenced and cross-fenced with excellent highway frontage for easy access. Incredible spring water throughout the land. Livestock handling equipment included for animals as large as bison. 1800 head capacity. This land produces an abundance of high-quality grass. For more info call 780-940-3600, Niton Junction, AB.</p>																														
<p>SASKATCHEWAN 6133</p> <p>15 ACRES w/LARGE character home, plus 2nd home on property within 35 miles of Regina or Weyburn on Hwy. #35; 160 acres w/large home, 3 car heated garage, large shop, horse barn, plenty of water, 20 min. NE of Regina. Beside Regina, SK: 3 acre property/house/greenhouses; Near Pilot Butte, 80 acre development land; 90+ acres, Hwy. #11, 7 miles North of Saskatoon, development; RM Perdue, 2 quarters W. of Saskatoon on Hwy #14; 2 miles East of Balgonie Hwy. #1, 145 acre development land. Brian Tiefenbach 306-536-3269, Colliers Int., Regina, SK. www.collierscanada.com</p>																														
<p>ID#1100503 GRANDE PRAIRIE: Excellent finishing barns with 1 quarter good producing land. Land rented on yearly basis. Buildings incl: 2- barns 90'x200', both wood building with metal clad, capacity totals 4400 head. Surface lease revenue \$4000/yr. Excellent water well, good lagoon. Could combine with ID# 1100378 MLS®. ID#1100479 ARDROSSAN: Unique one of a kind 15000 bird commercial Quail Farm in Alberta. Established well known business, everything done in house. Incl. mobile poultry processing unit providing new market for meat birds. Wholesale buyers are in place and there is a growing demand. Sold as a turnkey operation with all equipment and inventory. Real Estate Centre, 1-866-345-3414. View www.farmlandeast.com for all our listings.</p>																														
<p>ID#1100257 OSLER: Modern Dairy farm with 145 acres. 180 cow free stall barn with state of the art auto identifying double 10 mil parlor and an attached calf-heifer barn. 154.79 kg daily milk quota. 1614 sq. ft. home and a workshop. MLS®. ID#1100500 KIPLING: Ranch for a starter farmer with 1118 acres, 746 acres of native grass, 20 acres alfalfa, some sloughs and small lake. Organic farming possible. Home quarter has 1310 sq. ft. home, steel grain bin, 60' water well and other outbuildings. 2 dugouts (1 on home quarter.) ID#1100502 DINSMORE: Approx. 150 acres of cultivated land (SW of Saskatoon). Land leased out for a 3 year term. 2015 land was seeded to Hard Red Spring Wheat and 2016 land will be seeded to soybean. Call Real Estate Centre, 1-866-345-3414. For all our listings view www.farmlandeast.com</p>																														
<p>FOR RENT: RM OF Cana #214, SE-15-22-04-W2, SW-05-22-04-W2. Can be rented with long or short term contract. Melville, SK. Call 306-231-5611.</p>																														
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<p>FARMLAND WANTED</p> <p>NO FEES NO COMMISSIONS</p> <p>PURCHASING: SINGLE TO LARGE BLOCKS OF LAND. PREMIUM PRICES PAID WITH QUICK PAYMENT.</p> <p>FARM AND PASTURE LAND AVAILABLE TO RENT</p> <p>Many References Available</p> <p>SUMMARY OF SOLD PROPERTIES</p> <table border="1"> <thead> <tr> <th></th> <th>Central.....</th> <th>219 1/4's</th> </tr> </thead> <tbody> <tr> <td>East.....</td> <td>57 1/4's</td> </tr> <tr> <td>West.....</td> <td>49 1/4's</td> </tr> <tr> <td>South.....</td> <td>97 1/4's</td> </tr> <tr> <td>South East.....</td> <td>43 1/4's</td> </tr> <tr> <td>South West.....</td> <td>65 1/4's</td> </tr> <tr> <td>North.....</td> <td>10 1/4's</td> </tr> <tr> <td>North East.....</td> <td>14 1/4's</td> </tr> <tr> <td>North West.....</td> <td>12 1/4's</td> </tr> </tbody> </table> <p>RENT BACK AVAILABLE</p> <p>Call DOUG 306-955-2266 Email: saskfarms@shaw.ca</p> <p>MANITOBA 6134</p> <p>STE. ROSE RANCH, (Ste. Amelie), 14 quarters 2,234.85 of fenced land in one block. 240 of Class 3 land under cultivation. Two miles to paved highway. Call Golden Plains Realty Ltd, 204-745-3677.</p> <p>313 ACRES OF PRIME FARMLAND, just east of Portage la Prairie, MB. Land access Assiniboine River. Gwen 204-338-0351.</p> <p>145 ACRES OF ORGANIC FARMLAND and open concept home with 3296 sq. ft. of living space. Walk-out basement, cathedral ceilings, oak flooring w/ceramic tiles. Home and garage heated by geothermal furnace and floor heating. 204-937-3160. Website: www.boggycreek.ca</p> <p>SAWMILLS 6360</p> <p>SAWMILLS from only \$4397 - Make Money and Save Money with your own bandmill. Cut lumber any dimension. In stock, ready to ship. Free info. and DVD: www.NorwoodSawmills.com/168 or call 1-800-566-6899 ext. 168.</p> <p>WOOD-MIZER PORTABLE SAWMILLS, eight models, options and accessories. 1-877-866-0667. www.woodmizer.ca</p> <p>SCALES 6380</p> <p>ELIAS SCALES MFG., several different ways to weigh bales and livestock: Platform scales for industrial use as well, non-electric, no balances or cables (no weigh like it). Shipping arranged. 306-445-2111, North Battleford, SK. www.eliascales.com</p> <p>PEDIGREE SEED</p> <p>NOTICE TO SEED ADVERTISERS</p> <p>The Seeds Regulations prohibit the advertisement or sale of common seed of the major crop kinds by variety name. A variety name may only be applied to pedigree seed that has been grown, processed, sampled, tested and graded as set out in the Seeds Regulations. Furthermore, seed of unregistered varieties of the crop kinds subject to variety registration may not be sold in Canada even when labelled as common seed.</p> <p>For more information contact the Canadian Food Inspection Agency, Seed Section at: seedsemen@inspection.gc.ca or phone 1-800-442-2342</p> <p>CEREAL SEEDS</p> <p>BARLEY 6404</p> <p>CERT. #1 AAC SYNERGY (2-row malt), premium quality, 99% germ. Call Ardell Seeds, 306-668-4415, Vanscoy, SK.</p> <p>CERT. NEWDALE, AC Metcalfe, Legacy, Van Burch Seeds, Stary City, SK, call 306-863-4377, www.vanburckseeds.ca</p> <p>RECREATIONAL VEHICLES</p> <p>ALL TERRAIN VEHICLES 6161</p> <p>2012 JD 825i XUV Gator G/Y, 582 hrs., \$11,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com</p> <p>WANTED FOR PARTS: 1982 Honda Big Red 200E, three wheeler. Running if possible. 403-318-8135, Delburne, AB.</p> <p>2013 JD RSX850i Gator Camo, Trail, 150 hrs, \$18,800. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com</p> <p>Crohn's and Colitis Canada Crohn et Colite Canada 306-664-4420 www.crohnsandcolitis.ca</p>													Central.....	219 1/4's	East.....	57 1/4's	West.....	49 1/4's	South.....	97 1/4's	South East.....	43 1/4's	South West.....	65 1/4's	North.....	10 1/4's	North East.....	14 1/4's	North West.....	12 1/4's
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BIOTECHNOLOGY

Gene editing poses new dilemma for Europe

The European Union is warned about the dangers of treating the new technology like it does genetic modification

LONDON, U.K. (Reuters) — Heat-tolerant Angus beef cattle designed for the tropics with white coats instead of black or red. A button mushroom that doesn't turn brown. Pigs that don't fall sick.

These are all ideas thrown up by gene editing, a new technology that is taking the biomedical world by storm and promises a revolution down on the farm.

It poses a thorny problem for European policymakers wary of new molecular manipulation in agriculture after a quarter century of conflict over genetically modified food.

In a research lab in Norwich, northeast of London, Wendy Harwood is making exact DNA tweaks in barley plants to produce better-germinating grain with higher yield and quality.

"We've never been able to go in and make such a precise change as we can now with gene editing," said the John Innes Centre scientist.

"This gives you exactly the change you want without anything you don't want."

Further to the south of England in Basingstoke, animal genetics firm Genus has tapped the same CRISPR-Cas9 technique to develop the world's first pigs that are resistant to a devastating and common viral disease.

Agricultural scientists and companies worldwide are joining the gene editing race.

DuPont, which is merging with Dow Chemical, hopes to have CRISPR-edited corn and wheat on the market in five to 10 years.

Bright ideas from others include improved varieties of rice, soybeans and tomatoes, as well as hornless cattle and the heat-tolerant breed of Angus.

Using "molecular scissors" to cut DNA means scientists can edit genomes more precisely and rapidly than ever before, and agricultural products, which don't need the same clinical trials as human drugs, could get to market relatively quickly.

Last month, a non-browning button mushroom became the first CRISPR-edited organism to get a green light from the U.S. government, and several crops developed with two older, less efficient editing tools have already been approved.

However, whether such products will ever arrive on European farms



Changes to gene altering technology pose new questions for regulators. | FILE PHOTO

is another matter because the European Commission has not made a decision on how they will be regulated, leaving the new science in limbo.

The European Union executive had been due to decide by the end of 2015 whether to class gene-edited products as genetically modified organisms, subjecting them to the same stringent restrictions that have curbed GMO use in Europe.

This deadline was missed, as was a second one at the end of March, and there is now no new timeline for a decision.

Both sides in the debate are worried.

Greenpeace wants the EU's GMO law to be fully applied to new breeding techniques such as gene editing because of potential environmental and health impacts, and it fears Brussels is dithering under pressure from Washington.

"We are concerned that we would get products that are risky but could arrive on the market without any risk assessment or labelling or detection methods," said spokesperson Franziska Achterberg.

She believes the EU has delayed regulation to pave the way for a transatlantic trade deal, citing a document in which a U.S. official warned that "different regulatory approaches between governments to NBT (new breeding techniques) classification would lead to potentially significant trade disruptions."

A commission spokesperson denied the delays had anything to do with Transatlantic Trade and Investment Partnership trade pact talks with the United States but could not say when the EU would make a ruling.

Biotechnology companies argue that their gene edited products are non-GMO because they do not

contain foreign DNA from a different species.

"We fundamentally see gene editing as being very distinct from GMO," said Karim Bitar, chief executive officer of Genus.

"It's a very precise cut, and there is no movement of genes from one species to another. That's a major attraction."

The argument is complex.

Unlike traditional GMOs, in which a gene is added from another organism, gene editing works like the find-and-replace function on a word processor. It finds a gene and then makes changes by amending or deleting it.

Proponents argue this makes it similar to conventional selective breeding, which is freely allowed in the EU, because such mutations within the same species can, and do, also occur naturally.

Rene Smulders, a plant breeder at

Wageningen University in the Netherlands, said the current uncertainty is affecting research. His group had a grant application turned down last year because of concerns about the legal situation.

He wants Europe to follow the lead of Canada, which decides on new products based on their traits rather than on how those traits were produced.

"Europe's process-based legislation creates problems and is not suitable for the future," Smulders said.

Collectis CEO Andre Choulika, whose Calyxt unit has used older forms of gene editing to improve potatoes, wheat and soybeans, thinks the odds are 50:50 that gene-editing will end up being classified as GMO in Europe.

"If Europe does that, I think they will probably send themselves into the stone age of agricultural biotechnology," he said.

GENETIC MODIFICATION

Labelling GM salmon would make marketing sense: prof

BY ED WHITE
WINNIPEG BUREAU

Labelling genetically modified salmon might be a way for everybody to make more money from it, says an agricultural economist.

"If you're putting the same salmon in the same (grocery case), you won't be able to increase the equity at retail as much as you can with a label," said Sylvain Charlebois, dean of management and food distribution at Dalhousie University in Halifax.

"It's really a matter of providing consumers with an opportunity to make an educated decision."

Charlebois said many consumers won't care much about whether salmon is GM and will focus on price and quality, like they do today.

Others will want non-GM salmon, and might be willing to pay extra for non-GM or organic salmon.

Without labels, there's no chance to divide the market and charge premiums for certain types of salmon, Charlebois said.

Health Canada and the Canadian Food Inspection Agency have approved grocery store sales of GM salmon, mirroring a similar U.S. move a few months ago.

The new salmon does not need to be labelled as different.

It was created by combining genes from Chinook and Atlantic salmon and including material from a species of eel. The result is a much faster-growing salmon that gets to market in about half the time as regular farm-raised salmon.

Anti-GM activists have

attacked the altered fish and demanded it be labelled as GM. Some grocery chains have said they won't carry it.

Charlebois agreed it should be labelled but not because he thinks there is anything wrong with the meat from GM fish.

He thinks most consumers don't care whether food contains GM elements. Most processed food now does.

However, consumers who value non-GM food might be willing to pay more for non-GM salmon, so why not label GM salmon?

"The more you recognize the heterogeneous nature of markets, the better off you are because you will be able to capitalize on niche markets," said Charlebois.

"In the food business today, that's what you need to do. You can't consider all consumers to be the same. They don't want the same. They want different things."

Charlebois thinks the issue might show the way forward for many food products and for the evolution of GM livestock.

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AERIAL APPLICATORS

Indonesian crop dusters train with Sask. firm

Pilot training has become another revenue stream for prairie aerial applicators as the industry undergoes change

BY WILLIAM DEKAY
SASKATOON NEWSROOM

Four Indonesian pilots have passed the first phase of training in Saskatchewan as they prepare to become licensed aerial applicators.

The young pilots started their training in April with Miccar Aerial of Yorkton, Sask.

Indonesia's PT Elang Nusantara Air chose Miccar to train the pilots for its aerial fertilization program.

All four Indonesians arrived with commercial pilot training and proficiency speaking English.

Instructor Devan Yaholnitsky said Miccar has trained more than 50 pilots since it began operating in 1996, including New Zealand, Spain, Columbia, France, Ivory Coast and Great Britain as well as Canada.

He said agricultural airplanes are basically the same around the world. The two manufacturers are Air Tractor and Thrush.

The students began the 35 hour training process using the small two-seater Bellanca Citabria and then moved to a Piper Pawnee and eventually a Thrush 510P. This turbine-powered aircraft is the same make they will be using in Indonesia.

Yaholnitsky said the turbine significantly reduces the risk of engine failure compared to a piston engine.

"But it's still a possibility, so we talked about it a lot while they've been here and what to do if that happens," he said.

"Even if there's a crop in the field (in Saskatchewan), the outcome is not going to be catastrophic. You can even take a road. We've got a road every mile here."

However, Indonesia is a country with millions of acres of jungle, where the pilots will be spreading fertilizer on palm plantations to help the trees grow. Palm trees are harvested for their fruit and oil, which are used in the cosmetic industry.

"The type of flying that they're doing is similar to what we do here with the exception of they're applying dry fertilizer where typically here in Canada we're spraying liquid pesticides, whether it's to control weeds, bugs or fungus," he said.

Yaholnitsky said the dry fertilizer is applied at 100 to 150 pounds



Indonesian pilots are training to become licensed aerial applicators at Miccar Aerial. Instructors Michael Yaholnitsky, left, and Devan Yaholnitsky, far right, are working with Favian Citra Wijaya, Vaderman Fuso, Firliawan Muhammad Bhantiyo and Mohammad Reza Rachmat.

| FIRLIAWAN MUHAMMAD BHANTIYO PHOTO

per acre. Planes hold 3,500 pounds per load.

Pilot Reza Rachmat said he thought his training went well, but all students found it challenging to adjust from their commercial aircraft to agricultural applicators.

"The toughest thing was as a commercial pilot, we flew with the nose wheel, whereas aerial applicators are a tail wing plane," he said.

"It was very challenging for us to figure out how to take off and land."

Rachmat said the pilots will have about six months more training before qualifying in Indonesia, but in a country that imports most of its pilots, they will be among a handful of homegrown aerial applicators.

Miccar Aerial is one of two com-

panies in Canada that do agricultural pilot training, which is another revenue stream it uses to keep airborne in an evolving industry.

Yaholnitsky said larger farms in Western Canada have started buying their own aircraft.

"We saw that as a change in how the industry used to be where you phoned the operator and they come spray the field. The farms have grown to the size now that farmers can't wait for the aircraft. They need their own and hire a pilot to spray the farm," he said.

"We are seeing that happening and thought, 'how do we stay in the industry and be profitable and give something back to the industry?' That's when we looked at training."

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Flying conditions will be much different in Indonesia than what they are on the Prairies.

| FILE PHOTO

GRAIN HANDLING

Residents try to save Sask. terminal slated for demolition

Cargill plans to tear down the 30-year-old concrete elevator at Raymore, Sask., because it no longer fits into its plans

BY BRIAN CROSS
SASKATOON NEWSROOM

Residents of Raymore, Sask., are fighting a last minute battle to save a concrete elevator from the wrecking ball.

Cargill Canada is planning to demolish the elevator in the community about 100 kilometres north of Regina.

The facility was built in the mid-1980s but it no longer fits into Cargill's plans.

Raymore mayor Malcolm Koncz said the company has expressed its intent to demolish the building, but had not yet applied for a demolition permit as of May 20.

Terry Fazakas, a Raymore resident and business owner, is leading an effort to buy the elevator.

He said demolishing it would hurt the local economy and the community.

He thinks the terminal can be used to create local jobs and develop new business opportunities.

Fazakas has already submitted an offer to buy the terminal and is putting together a business plan at Cargill's request.

He said the elevator could serve a niche market in agriculture, perhaps handling specialty crops that Cargill doesn't deal in.

"We know we'd have to sign a non-compete clause," Fazakas said. "There are lots of potential uses that won't have an impact on what Cargill is doing."

The Raymore terminal was used

to collect canola before it closed in December 2015.

Oilseeds were delivered to the facility, stored and transferred to other Cargill locations, including the company's specialty oil crushing plant in Clavet, Sask.

Cargill spokesperson Connie Tamoto said the company is reviewing all its options, including Fazakas's offer to buy the terminal.

"These types of things take time, and we want to ensure proper due course is followed throughout the

process," Tamoto said in an email.

Koncz said Raymore's town council fully supports Fazakas's efforts to acquire and repurpose the facility.

The loss of any business can have a serious impact on the health of a local community, he said.

Timing will be critical in efforts to save the facility, Fazakas added.

The terminal was initially slated for demolition this summer.

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BEER MAKING

Good time to grow hops as demand, price rise

U.S.'s booming craft beer industry has helped increase demand for the crop, which is crucial for making the brew

BOUGHTON UNDER BLEAN, U.K. (Reuters) — Fans of craft beers could soon face higher bar bills as small, independent brewers face a potentially serious shortage of a vital ingredient: hops.

Last summer's hot and dry weather blighted the European hop harvest and strong demand for increasingly popular craft beers, which use a lot of hops, is putting small brewers' profit margins under pressure and forcing them to raise their prices.

Prices of some hop varieties have risen by up to 50 percent, industry sources say, while industry insiders say others are up to five times more expensive or simply not available.

On his farm in Kent, not far from London, Tony Redsell has been growing hops since 1948 and some of the varieties he cultivates, strung along yarns supported by rows of high poles in traditional fashion, are more than 200 years old.

He sells most of his hops under contract to small brewers in the United States and his prices have risen by 20 percent in the past three years. Last year the German crop was well down and American growers could not make up the difference, suggesting prices will go up again.

"The growth of craft brewing in the United States has boosted demand for English varieties," Redsell told Reuters.

"It's a good time to be hop farmer."

Most brewers have contracts with hop growers that protect them from sudden price surges, but future supply is at risk. The scarcity may also get worse as multinationals such as Anheuser-Busch InBev and SABMiller buy up craft brands and ramp up their production.

"It's tough for brewers, especially brewers that don't have hop contracts or who were a little late to the contracting game," said Bill Manley, small batch product manager at Californian craft pioneer Sierra Nevada.

If you underestimate sales and need more hops, as can happen if a beer suddenly gets popular, he said "you have to go around and knock on doors like a neighbour trying to borrow a cup of sugar."

Along with water, malt and yeast, hops are one of the main ingredients of beer. Germany and the United States are the two dominant hop growers, each accounting for



Farmer assistant Mariusz Strzelecki reaps hops during the early morning hours in Ebrantshausen in southern Germany, in this file photo from 2010. | REUTERS/MICHAELA REHLE PHOTO

one-third of world production.

But Germany's harvest shrank by 27 percent last summer, according to the International Hop Growers' Convention. There were also sharp declines in other European producers such as the Czech Republic and Slovenia.

"There has been a considerable tightening of supplies on the European hop market after the major reduction in the 2015 harvest with a sharp increase in prices," said Stephan Barth of German-based global hop merchant the Barth Haas Group.

"Europe will need at least an average harvest in 2016 otherwise we could see serious supply shortages," he added.

Barth said some hop prices had already shot up by 35 to 50 percent depending on type since last

summer.

Craft beers are produced by small, independent brewers using traditional methods. Popular styles such as India Pale Ale can use six times the volume of hops used in the conventional lagers from which they have taken market share.

Rabobank analysts Ciska van den Berg and Francois Sonneville forecast an increase in global beer consumption of around one percent in 2016 as drinkers continue to trade up to craft beers.

Craft beer accounts for one pint in eight in the United States and is becoming more popular elsewhere, according to Bart Watson, chief economist with the U.S. Brewers Association.

"We're seeing small and independent brewers spring up in a

variety of locations across the globe. Europe, particularly northern Europe, is one area," Watson said.

Rabobank said craft beer had become "a worldwide phenomenon" and would ensure strong demand for hops this year.

The world's big brewers, producers of lagers like Budweiser, Miller Lite, Heineken and Coors, do use hops but in smaller amounts than in craft beers. That may be changing though, as they have been jumping on the craft beer bandwagon by buying small brewers or developing their own craft-like brews.

AB InBev "has a policy of long-term contracts and sufficient physical inventories in place to protect against the current shortage for our brewing operations," a

spokesperson said.

The company, known for Budweiser and Stella Artois, also owns craft beers including Goose Island, Blue Point and Four Peaks in the United States and Camden Town in Britain.

Compared to independent brewers, AB InBev will have much more clout when it comes to buying hops, potentially further reducing supply for small players.

Evin O'Riordain, founder of South London's Kernel Brewery, whose beers include six hop-heavy pale ales, called this "a worry on the horizon" but expressed hope that higher prices would encourage more farmers to grow hops.

"If a hop farmer can get a better living out of growing good quality hops, then I think that's positive," he said.

WEATHER

Cool spring brakes EU wheat growth; outlook still positive

HAMBURG, Germany (Reuters) — The cool, dry start to spring has slowed European Union wheat growth but crops are generally in good shape after little winter frost damage, generating optimism for a decent harvest this summer, experts said last week.

Hopes for an early start to the harvest in the EU's largest wheat producer France have all but gone after the cool spring.

After running far ahead of usual, French wheat development has returned to more normal rates.

Observers expect France's crop to be lower than the record 41 million tonnes last year. But with a rise in sown area and good weather this summer, the harvest could still be large.

French wheat is lush and high, making the crop outlook promising at this stage, said Philippe Gate of French technical institute Arvalis. But Gate stressed strong concern about disease especially yellow-dwarf virus, transmitted by aphids, which survived the warm winter.

Yellow-dwarf can lead to crop

losses but dry and warmer weather in the coming weeks would reduce potential damage, he said.

In the second largest producer Germany, wheat came through very cold weather in past weeks without damage but crop development is now sometimes behind the average, farm cooperatives said.

German farmers planted less wheat and more rapeseed than previously thought, and the 2016 wheat crop will fall 3.7 percent on the year to 25.57 million tonnes,

co-operatives forecast.

But Britain's wheat is in reasonable shape with development around normal and sown area seen little changed from last season.

"Given average conditions from now on, we would expect a similar size crop to last year," said analyst Susan Twining of crop consultants ADAS. Britain had a wheat crop of 16.4 million tonnes last year.

"I think the soil moisture deficits are among the lowest we have had at this time of year which will help keep the crop growing if we go into

a dry spell," she said.

In the fourth largest producer Poland, wheat suffered from recent dryness following early winter damage from deep frosts.

Poland's crop will fall about eight percent from 2015 to around 11 million tonnes, said Wojtek Sabaranski of analysts Sparks Polska.

"The second half of May is forecast to be rainy, so this may bring some relief to the crops, especially in the north," Sabaranski said. "If realized, the crop would still be decent."

HOPS PRODUCTION

Hops producer aims high in B.C.'s interior

The 240 acre operation on First Nations land near Kamloops is expected to be Canada's largest hops farm

BY TOM WALKER
FREELANCE WRITER

KAMLOOPS, B.C. — A dry patch of river bench land on the outskirts of Kamloops is being turned into Canada's largest hop farm.

"This used to be a horse pasture," said Ian Matthews, operations manager for Hops Canada.

The 240 acres of Tk'emlups Indian Band land stretches nearly two kilometres along the North Thompson River.

Matthews has been leading a crew of mostly First Nations workers who have finished installing the last of 7,000 spruce poles to hold up a wire trellis system that will support the rapidly sprouting hop plants. The field looks like a giant pincushion.

"I think there is about two million feet of wire up there," said Matthews.

The crew has also laid 160 kilometres of drip irrigation just under the ground.

"I would expect that this is the largest drip irrigation system in the Okanagan," he said.

Hops Canada founder Joey Bedard said he was looking for a site where he could develop a larger operation that would take advantage of economies of scale.

"Farmers on the Prairies work large areas of land to their advantage," said Bedard.

"But here in B.C., and to a lesser extent in Ontario, farming is often on a smaller scale."

He said it's a problem for hop farmers because capital costs are high for the infrastructure and the picking, processing and packaging equipment.

"I owned Hops Canada, which is a hops brokerage business," said Bedard. "We had about \$1 million in sales buying hops from other growers. I can contract out five years in the hop world. Things were going good."

Bedard said the company also has a 20 acre farm in Ontario.

"It just made sense that the next step was to grow to supplement what we are buying," he said.

"I approached the band to do just a lease, and part of the lease agreement is that they want to see your business plan.... And at that point they wouldn't let me lease. They bought me out, and I formed a partnership with the Kamloops Indian Band. So I own 33 percent of the farm and brokerage, and the band owns 66 percent."

He said the business is being developed to be profitable at \$4.75 a pound.

Regular hops average \$8 to \$10 a pound with premium varieties going for more than \$21.



Operations manager Ian Matthews, left, and Hops Canada founder Joey Bedard visit the 240 acre farm outside of Kamloops on Tk'emlups Indian Band land. | TOM WALKER PHOTO

"But you can't build a business plan on \$20 forever."

Bedard plans to sell more than \$2 million in hops this year, most of which will be imported from the northwestern United States.

"So we have the advantage that when our fields are ready we have the whole distribution set up already."

Hop growers in Washington state have captured much of the large craft beer brewery market in North America, he said.

"You could sell hops all day long in B.C. right now, but they would be smaller guys who are going to open and close," he said.

"We could be driving all around B.C. for the \$20,000 customers. It's hard to base a \$6 million project on that."

Instead, he is setting his sights on the overseas market.

"What we have noticed, and where I have put a lot of my marketing effort into the last couple of years, is that places like India and South Africa are just getting into the craft beer market," he said.

"I think 80 percent of our sales are going to be out of the country and 20 percent domestic."

HOPS PRODUCTION

Hops production migrates from Fraser Valley

BY TOM WALKER
FREELANCE WRITER

KAMLOOPS, B.C. — British Columbia's Fraser Valley was a major hop growing region up until the 1970s.

However, growers left the area around Chilliwack because many of the sites were not suitable, said Ian Matthews, production manager at Hops Canada near Kamloops.

Several Fraser Valley growers moved to the Yakima Valley in Washington state, which is now the largest hop growing region in the United States.

Producers found similar conditions in Kamloops and came north to establish the first hop farm in the area in the 1930s.

Drivers on the Trans-Canada Highway just east of Kamloops will pass an abandoned tin-clad building that was once a large hop processing plant. Molson's grew hops on the sur-

Hops like a lot of water, but they don't like to get their feet wet.

IAN MATTHEWS
HOPS CANADA

rounding land until the 1970s.

"Hops like lots of water, but they don't like to get their feet wet," Matthews said. "The sandy loam soil here is ideal for hops."

Hops Canada planted and harvested 65 acres last year and expanded to 220 acres this spring.

A rhizome starts the perennial plant, which can produce for more than 20 years.

A cord suspended from overhead wires trains the quick sprouting vine to grow up to six metres high.

Harvest starts in August and can

continue until October. The entire plant is cut off at ground level and at the support wire. The cones are stripped and separated from the leaves at a central facility and then kiln dried and packaged in bales to be held in cold storage.

Further processing grinds the hops and forms them into pellets. Brewers add the pelleted hops to beer for flavour, aroma and bitterness.

The United States pulled ahead of Germany last year to lead in world hop production with more than 45,000 acres producing more than 36,000 tonnes, according to the International Hop Growers Convention.

China, the Czech Republic and Poland round out the top 5.

B.C. leads Quebec and Ontario in Canada with some acreage also planted in New Brunswick, Nova Scotia, Prince Edward Island, Manitoba and Alberta.

FLOOD MITIGATION

Flood control reservoir in Alberta continues to irk residents

BY BARBARA DUCKWORTH
CALGARY BUREAU

Twenty families continue to fight an Alberta government plan to build a reservoir on their land to control flooding in Calgary.

The Canadian Environmental Assessment Agency is reviewing

the Springbank off-stream reservoir project, which would be located west of the city. A public comment period is open until May 30.

The project covers 6,000 acres and was first proposed in 2013 after southern Alberta suffered nearly \$6 billion in flood damage because of torrential rain and snow melt that overflowed

the Elbow and Bow rivers.

The environmental review is expected to take at least 12 months, said Manon Plante of the Alberta government.

The project's size and cost concern local residents whose homes may be lost. A local committee comprising five representatives of the affected

families meets weekly to gather information and plot strategy.

"It has been a tough year for the group," said Ryan Robinson of Don't Damn Springbank.

They hoped the NDP government would scrap the project, but instead it said last October that it was the best flood control option. The previ-

ous Conservative government had also approved the project.

Land must be expropriated before construction starts.

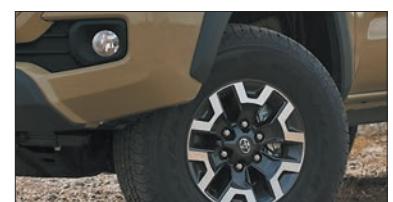
"As of right now, they are forging ahead with this purchase of 6,800 acres of private land," Robinson said.

barbara.duckworth@producer.com

PRODUCTION

TRUCK HANDLING SURPRISE

Automotive journalist Charles Renny found himself less than impressed with a first taste of a newly revamped pickup. Not everything was as it seemed. See what he found out. | [Page 53](#)



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CROP PROTECTION

Pea leaf weevil strikes southern Alta.

A mild winter helped the pest survive the winter, and an early and warm spring gave it an extra boost

BY ROBIN BOOKER
SASKATOON NEWSROOM

Southern Alberta is suffering through the worst pea leaf weevil outbreak in its history.

"It's the number one insect concern for growers of peas and fababeans. This year we seem to have the worst outbreak that I have seen in the last 10 or 15 years, since they have become an issue," said Héctor Cárcamo, an insect pest researcher with Agriculture Canada.

The pest was abundant in southern Alberta fields last fall, and a mild winter led to high overwinter survival rates.

"Last year we had an experiment where we needed to collect weevils by sweeping in alfalfa," Cárcamo said.

"Four of us collected about 10,000 weevils in about an hour or two."

This year's warm and early spring also contributed to the high pest pressure. Adult pea leaf weevils usually overwinter in alfalfa, shelter belts and field margins. The early spring allowed alfalfa to regrow quickly, which provided early food for the pest.

Weevils then migrate into pea or fababean fields and can attack the emerging crops in high numbers.

The larvae, which attack root nodules, usually cause most of the damage to pea and fababean crops, but this year it's the adults that are causing significant damage.

"Because of the high densities of weevils, they are feeding on the plants when they are very small, so they are threatening the establishment of the crop," Cárcamo said.

"We don't know for sure if they will kill the plants and reduce the stand density, which could have a measured effect on yield, but growers are not taking the chance, and they are spraying quite commonly for it."

It's not common for the pea leaf weevil to kill an entire plant and threaten establishment of the stand.

"Plants can typically withstand 50 percent of defoliation," he said.

"Once the plants lose more than 50 percent of the foliage, then they probably will be compromised. If

they only lose 20 percent, that should not be an issue."

Seed treatments are the most effective control for pea leaf weevil, but they kill only 30 percent of the adults. However, Cárcamo said the insecticides also affect egg laying behaviour and the larvae, so the cumulative effects do provide crop protection, especially with high insect density.

However, even seed treated crops have well exceeded the plant damage threshold, and growers in southern Alberta are applying foliar pesticides to control the weevil.

"The threshold is three plants out of 10 showing damage on the clam leaf of

peas, and I think it's common to find more than 90 percent of clams with damage in most fields that were planted, early especially," he said.

"That's what we saw. We have a study with fababeans, which is also a favourite food for this insect, and we have probably 90 percent of the seedlings damaged."

Growers need to closely monitor their pea and fababean crops after they are sprayed because

weevils do not come out of overwintering at the same time and can re-invade crops.

"I also like to remind growers that, when they

spray insecticides, they also remove potentially useful predators and other beneficial insects or arthropods from their fields. Repeated and continued use of insecticides is known to result in resurgence of other pests that were kept in check by those beneficial natural enemies," Cárcamo said.

He said another alternative is to supplement the crop stand with nitrogen during the seedling stage to prevent yield

losses. A nitrogen application can offset the loss of nitrogen-producing nodules in pea and fababean roots, but the economic returns need to be considered, given input prices.

Pea leaf weevils are difficult to find because they play dead and fall on the ground when approached. However, if the person who is scouting stays quiet for a minute, the weevils will again start walking around on the plant and become visible.

Growers should instead look for damage on the leaf when assessing

plant pressure. Look at 10 adjacent seedlings in 10 spots on the field, count what proportion of the seedlings had damage on the clam leaf and then

calculate the average damage for the 10 sites. Select five areas on the edge of the field and five spots at least 30 metres into the field.

"There is a difference in the level of damage along the border and inside," Cárcamo said.

"Sometimes you can get away with just spraying the borders of the field."

Field peas should be monitored from the second to fifth node growth stages. Plants are less vulnerable to both larval damage and defoliation after the sixth node stage.

Scott Hartley, Saskatchewan's pest management specialist, said there have been reports of high levels of pea leaf weevil pressure in southwestern Saskatchewan.

"It's safe to say some areas have had some very high feeding, but we are still getting data on where the highest pressure is," Hartley said.

The trouble zone in Saskatchewan starts midway between Moose Jaw and Swift Current and extends west to the Alberta border and as far north as Kindersley and Outlook.

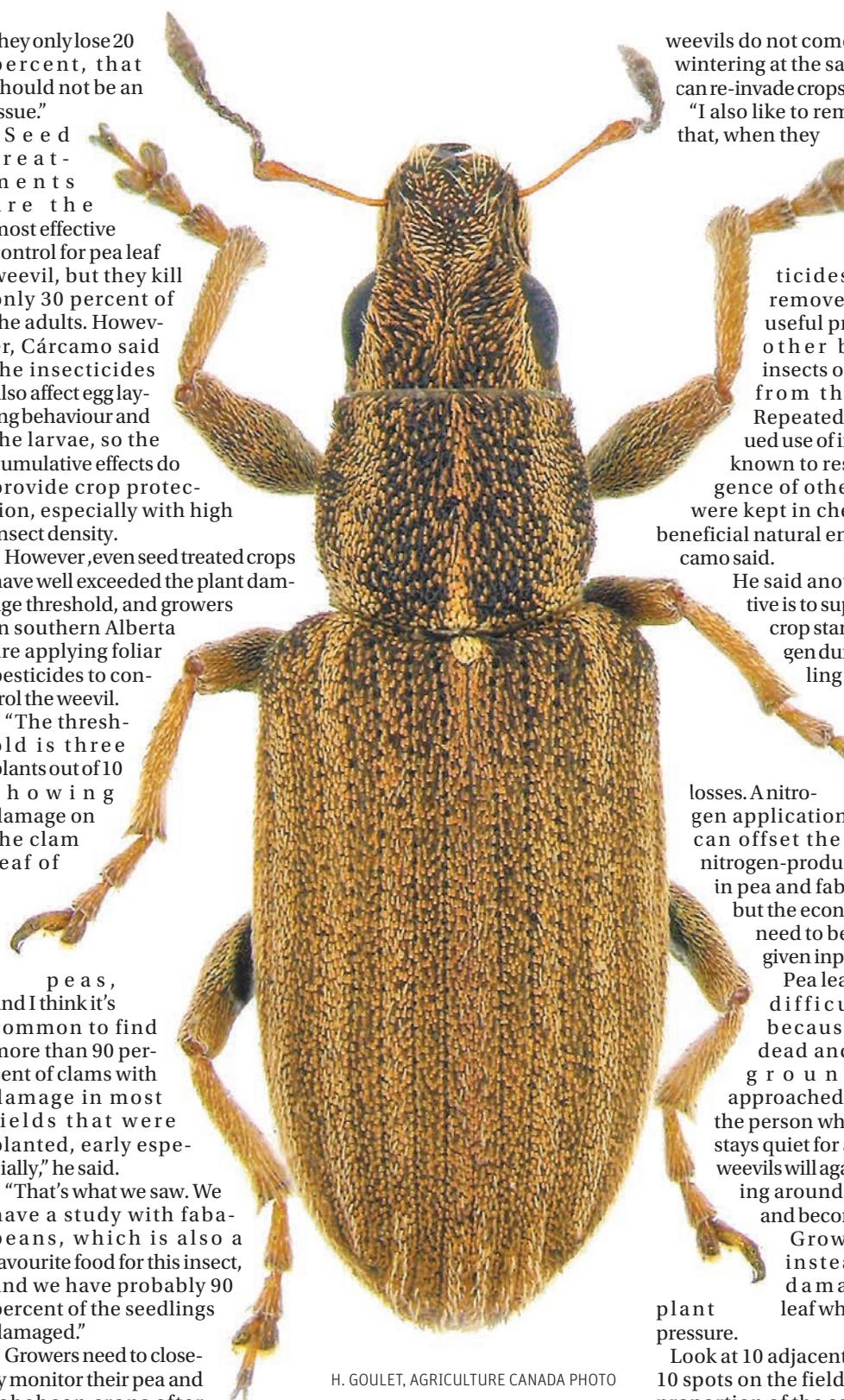
Hartley said growers' level of concern depends on the growth stage of their crop because plants can outgrow damage once they are past the six node stage.

Many pea crops in southwestern Saskatchewan are at or approaching this stage, he added.

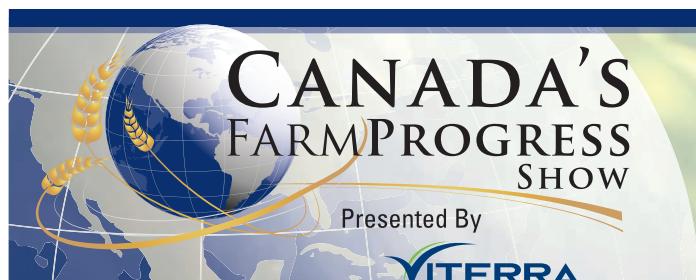
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Larvae of pea leaf weevil on a rhizobium root nodule of field peas. | C. HERLE, AGRICULTURE CANADA PHOTO



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PESTS

Seed treatments good way to fight flea beetles

Producers are urged to watch their canola fields closely but not to be too afraid of some feeding, which is necessary

BY TENNESSA WILD
SASKATOON NEWSROOM

Flea beetles account for more than \$250 million annually in crop damage on the Prairies, despite farmers' best efforts to control them.

And with the mild winter and warm spring, farmers might want to be extra vigilant.

Scott Hartley, Saskatchewan Agriculture entomologist, said he is not surprised to see beetle movement already because last year had high populations.

"They overwinter as adults, so with a good mild spring like what we've had, mild, dry, it would be favourable for them."

Flea beetle adults and larvae feed on canola. Damage is most prevalent during the initial three weeks after emergence. The delicate cotyledons are prime vegetation for the insects.

Once the crop reaches the three to four leaf stage, it can withstand the damage.

"The seed treatments on the majority of the seeds, on all the hybrids, should be a good protection," said Hartley.

Seed treatments provide three to four weeks of protection for canola that appear within a week of seeding.

Since 2001, neonicotinoid insec-



Adult crucifer flea beetles feeding off young spring cotyledon. | FILE PHOTO

ticides have been present in all seed treatments registered for flea beetle control in Canada.

Hartley recommends farmers start scouting their fields early.

"Start watching for feeding because with the neonics, (flea beetles) have to feed on the plant tissue in order to ingest some of the seed treatment and therefore that's what results in the death, but they still have to feed in the first place," he said.

Keith Gabert, an agrology specialist for the Canola Council of Canada, said canola can withstand a lot of insect damage without a significant

yield impact, if it has good growing conditions and adequate soil moisture to bounce back.

"Only when adult populations are extreme, and when dry conditions are hindering the crop from compensating for the damage, is a spray recommended," he said.

He also recommends scouting canola every two days, especially in the first few weeks when the crop is in emergence stages.

"A diligent job of scouting, in numerous places in the field, is required because we see across the Prairies often a lot of edge effect, so the first 10 to 20 steps in the field

may be worse than the rest of the field," said Gabert.

He said some farmers might spray for insurance against flea beetles, but he advises it's not always necessary.

"Preferably, go back in a day or two just before you make that decision that you need to spray and check if you really do need to."

Foliar sprays are pricey so before buying, look for 25 percent defoliation in the field, he said.

He added that farmers will see some damage because beetles have to ingest the treated seed for the insecticide to work.

Farmers should check that damage is at the 25 percent damage threshold.

If the crop is sprayed before damage reaches that threshold, it can increase the risk of flea beetles developing resistance to the insecticide.

With neonicotinoid treatments drawing public attention and added government regulations due to reports these may be harmful to bees, as well as increased public scrutiny of most spray chemicals, Harley recommends farmers use a variety of control measures.

Integrated pest management (IPM) techniques can help cut costs and provide an alternative to pesticides alone.

"IPM is using economic thresholds if you are going to consider using chemical spray, but it's also using non-chemical controls and other strategies," said Hartley.

The best IPM techniques are using biological control agents if possible, diversifying crops, proper rotations, inter-row planting, timing of seeding, using less sensitive crop species in infected areas and using trap crops.

Hartley advises that zero tolerance is not realistic and IPM practices don't always work, but in most situations seed treatment remains a solid management choice.

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AGRONOMY

Program targets field management

The system is being launched in southwestern Ontario this year

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

THAMESVILLE, Ont. — Field crop management is expected to be much easier in southwestern Ontario with the launch of the AGGrower Daily Dashboard program, according to the agronomist leading the project.

It uses an advanced system to collect and analyze weather data so that enrolled farmers can respond quickly and efficiently to what Mother Nature throws their way, said Dale Cowan, senior agronomist with Agris Co-operative, Wanstead Co-operative and Haggerty Creek Ltd.

He said today's agricultural environment means there's usually more than one farm to be managed. In fact, fields are often kilometres apart.

As a result, a farmer can rarely walk out his back door to judge how inputs and operations should be managed.

"Some of the guys have 100 fields spread from Windsor to Sarnia. I'd say most of them have 20 or 25 fields to manage," Cowan said.

The program can be assessed from a smartphone or through a website.

Eighty automated weather stations are being installed in a five-county area this year that will measure temperature, precipitation, wind speed and humidity. As well, weather data will be collected



DALE COWAN
AGRONOMIST

The program's modelling feature also predicts the growth stage of corn, which is important because weeds are controlled at the V-4 or six-leaf stage to maintain yield potential.

As well, models predict when corn is likely to achieve black layer and how quickly moisture levels are likely to fall.

The program also uses unmanned aerial drones with multi-specification and thermal imaging capability to collect crop information.

This allows farmers to determine, through real-time nitrogen tests, how much additional nitrogen is likely to be needed to maximize their yields or if nitrogen is needed at all.

Farmers can sign up fields of corn, soybeans, wheat and processing tomatoes, but additional crops may be added in the future. They need to enter the appropriate data for their fields, starting with the planting date.

The program then delivers the type of information farmers need to make the most of their farming investment, Cowan said.

The AGGrower website is hosted by Ontario-based Weather INnovations, which specializes in weather data and agricultural modeling. It is supported by close to \$600,000 from the federal-provincial Growing Forward II program.

TACOMA TRUCK

A tale of two trucks: performance starts from the ground up

GETTING AROUND



CHARLES RENNY

Never before has it been so important to pay attention to which truck package was tested when you read a review. For example, take the 2016 Toyota Tacoma.

I first drove the Tacoma TRD (Toyota Racing Department) as part of a test of small trucks for the Canadian Truck King Challenge.

The challenge is designed to test new trucks in a work environment, which means working with loads and while towing and looking at how the cabs are laid out for workers and private use.

In this case, the Tacoma was equipped with the TRD package, which is basically a large-tired, sporty truck with lots of bells and whistles.

So far so good, right?

Well, 2016 is the year of major changes for the Tacoma. Not all of the changes to the interior met with my approval, but that was minor to what happened with the rest of the test.

The truck was comfortable, although I found the seat cushion to be a bit short for my legs and too



Tires made all the difference between two test drives of the Toyota Tacoma. | TOYOTA PHOTO

close to the floor for my liking. My legs were stretched out a bit more than I like, and the throttle pedal was at an awkward angle. Others didn't find this to be a problem.

It was a nimble truck when empty, at home on pavement, off pavement and off road. Acceleration, thanks to a 3.5 litre, 278 horsepower V-6 and a six-speed automatic, was impressive.

Of course, the Tacoma also had four-wheel drive to keep off-road sojourns interesting.

However, chinks in the TRD package started to appear when the truck was hooked up to a trailer loaded to 50 percent of rated towing capacity and a tongue weight of 350 pounds. Everything was fine at city speeds, but the Tacoma started to squirm and move about a bit in the lane when the truck moved up to highway speeds on pavement. It

wasn't enough to be dangerous but enough to be noticeable and make me uncomfortable.

Then there was stopping.

Stopping on pavement was attention getting because it amplified the squirm, although everything seemed normal when on gravel because I expected it to move a bit, and it did. Compared to the other trucks in class, this was most unsettling.

Needless to say, the Tacoma didn't do well at this event.

Three weeks later, I was in a different Tacoma at a testing session for the Canadian Automobile Journalist's Association of Canada's Canadian Car and Utility Vehicle of the Year event. This time the Tacoma was a normal tired truck, and there was no loaded testing.

However, there was some serious off-road testing.

I managed to put my foot well into my mouth before the testing began when I told the head engineer of the Tacoma program that the truck was a piece of (you fill in the blanks) and proceeded to tell him how poorly the truck had done at the Truck King Challenge.

He was polite, but the public relations representative who was with him was aghast at my comments. I haven't been invited to a Toyota event since.

I drove a non-TRD equipped normal truck at the vehicle of the year event.

The dash had the same basic shape, but it wasn't as garish. I still didn't like the seating position, but the truck was great on all the roads I tried, including some seriously crappy ones caused by two days of intense rainfall with small rivers flowing down the middle. I did my

session on our medium serious off-road section when the rain quit, and the end result was that the Tacoma won its class.

It took me a couple of months to figure out why the Tacoma did so poorly in one testing program and so well in another.

At first I thought of the methodology: loaded vs. unloaded and power train differences. Then I got to one item in the TRD package that makes a huge difference: the tires.

The TRD package allows for an optional tall off-road type tire that is great for hauling a kayak, cooler and a tent through the trails to secluded camping spots while looking cool.

The Tacoma equipped with regular tires looked boring, but it could do about 80 percent of the off-road stuff, plus it could do 100 percent of the towing stuff and inspire confidence while doing so. That one little tire glitch probably cost Toyota top honours at the Canadian Truck King Challenge.

It would appear that someone at one of the events didn't think to check the option sheet against what the truck was supposed to do. It was an expensive lesson for Toyota, and all I can say is I hope you all learn from it.

Now I have to apologize to an engineer. His truck is pretty darn good.

Charles Renny is an automotive columnist and a member of the Automobile Journalists Association of Canada.



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WEATHER

Cool Ont. spring slows planting

Rain and cold weather have forced some farmers to alter seeding intentions

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

GRAND BEND, Ont. — The second half of May delivered what Ontario farmers had been hoping for: warmer temperatures.

"Many areas of southern Ontario had the coolest April for 20 years," said Geoff Coulson, a meteorologist with Environment Canada.

"May had also been running notably cooler than normal, up to 3 C cooler, which is a significant difference. We have now finally turned the corner on temperature ... and that appears to be locking in."

Pat Green, who owns Market Farm Equipment, which specializes in the design and manufacture of plastic augers, said she's heard from farmers across the province.

She said temperatures have been on the cool side for everyone, but rainfall has varied.

It's been too wet near the family business north of Grand Bend, but Green said she's heard that most farmers a few kilometres north near Goderich and on the other side of the province near Ottawa



have planted their corn and are working on soybeans.

"It's been spotty all over on the rain," she said.

"We just had a gentleman in here yesterday. He said they just had rain in eastern Ontario and they welcomed its arrival."

Green and other members of Ontario's agricultural community spoke May 19, which was a warm, sunny day in the province.

Their mood may have improved from four days earlier, when snow and sleet fell on many areas of the



ABOVE: Tom Genoch sprays a herbicide tank mix on evenly emerged corn near Bayfield, Ont.

LEFT: Paul Bertens, a broiler breeder in the chicken industry near Brucefield, Ont., says the recent spell of dry weather should enable him to finish seeding. | JEFFREY CARTER PHOTOS

province and there was a risk of damaging frost.

A 40-minute drive south outside Forest, Pete and Mary Donkers, retired hog producers, have 250 acres to plant.

They had hoped to get some corn into their fields, which is mostly Brookston clay, but excessive rainfall has forced them to change their plans.

"It sounds like the coming week will be better," Pete Donkers said.

"We're going to change everything to soybeans. We didn't get

any corn in. We had to change that idea."

Soybean prices have improved in recent days, Donkers said, so while corn might be good for the rotation, soybeans could deliver a great return.

Like the Donkers, Pete Bertens said untimely rain has slowed his planting intentions at his farm near Brucefield.

There is far more winter wheat in Ontario this year because farmers took advantage of favourable weather last fall to plant the crop.

Most fields came out of the winter in good shape.

Coulson said Environment Canada had been calling for average spring temperatures, given the mild winter.

Coulson said there are indications that temperatures in Ontario will be around the seasonal average, based on records for the past 30 years. He said the latest El Nino, which is characterized by warm temperatures in the Pacific Ocean off the coast of South America, has weakened from its peak last fall.

PRODUCTION BRIEFS

WEATHER

Strongest El Nino in nearly 20 years

SYDNEY, Australia (Reuters) — The strongest El Nino in nearly 20 years, which damaged crop production in Asia and in the Southern Hemisphere, has ended, the Australian Bureau of Meteorology said.

Climate indicators associated with El Nino, which emerged in 2015, have now returned to neutral levels, the BOM said.

The latest El Nino resulted in sea temperatures rising to the highest levels in 19 years, causing drier than average weather in Asia and Australia, which resulted in a fall in production of wheat, palm oil and rice.

In the Northern Hemisphere, the event failed to live up to expectations and did not deliver enough rainfall to alleviate the crippling drought in California.

On the Canadian Prairies, El Nino brought one of the warmest winters on record.

GENETIC MODIFICATION

China may cultivate pest resistant corn

BEIJING, China (Reuters) — China, the world's second-largest corn consumer, may allow commercial cultivation of pest-resistant genetically modified corn within the next five years, said an agriculture ministry official recently.

"We will push forward the com-

mercial process of new strains of pest-resistant cotton and pest-resistant corn among other key crops," during the 13th Five Year Plan (2016-2020), Liao Xiyuan, a department director with the ministry told a press conference.

For staple grains rice and wheat, the country will focus on research and efforts to be the global leader in GM rice technology rather than commercial growing, said Liao.

Beijing has delayed commercial cultivation of its own GM corn and rice even after it gave safety approval in 2009 due to public concern over the safety of the technology.

SEEDING PLANS

India expected to plant fewer soybeans

MUMBAI, India (Reuters) — Indian farmers are set to seed fewer soybeans in response to falling prices.

Soybean is the main summer-seeded oilseed crop for the world's biggest importer of edible oil, but prices have dropped 10 percent in the past two years, while the prices of pulses such as red gram have nearly tripled over the same period. Estimates say area seeded to soybeans could fall 10 percent as a result.

"In the last two-three years soybeans have given lower returns than competing crops like pulses," said K. N. Rahiman, chief research officer at Ruchi Soya, the country's biggest edible oil refiner.

Farmers planted 28.60 million acres with soybean in 2015-16.

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B.C. LAND CLAIMS

Tenants feel ignored in land settlements

Ranchers with grazing tenures have received conflicting information from First Nations bands

BY BARBARA DUCKWORTH

CALGARY BUREAU

PENTICTON, B.C. — Settling First Nations land claims in British Columbia is rife with controversy and uncertainty, especially for sitting tenants who rely on grazing leases or resource extraction to make a living.

"It is an emotional issue for many of you, and many of you are potentially going to be impacted," said Grant Huffman, chair of the B.C. Cattlemen's Association's aboriginal affairs committee.

"We don't know how that might be.... It is quite easy for those in the west end of Vancouver to be very benevolent and understanding of the issues, but directly they are not affected."

Land settlement negotiations have been underway for years, and some are reaching completion. However, cattle producer and resource groups have not been invited to the discussions.

"We will not be at the table, but we will hopefully be listened to at some level," Huffman told the BCCA's annual meeting held in Penticton May 26-28.

"To date, that has been well carried out. The current government is aware of our displeasure."

Members passed a resolution asking for ranchers and other groups that use the land to be represented during negotiations so that their interests and concerns are heard.

"Our government, our constitution and our senior court has all made it very evident to us, that things are going to happen, whether some of you like it or you don't," Huffman said.

Ranchers need to prepare for change because some could lose provincial grazing tenures on crown owned land. The government has indicated it may provide a third party liaison to work with those who are affected.

Northern Shuswap treaty negotiations could have a significant impact because there are a large number of grazing tenures in the region.

"The northern Shuswap treaty talks are the beginning and could be a model for how this is going to follow along," Huffman said.

Negotiators for Canada, B.C. and the Northern Shuswap First Nations reached an agreement in

principle last year that outlined how a final treaty would look, but no information has been released.

Provincial negotiators are not prepared at this time to discuss mitigation options or compensation. Huffman estimates 57 tenure holders have land in the area and could be affected.

Bev Madley of the Chilcotin Stockmen's Association has had first-hand experience with land claims and is not sure how her ranch might come through this.

Six bands in her area are negotiating settlements.

"All of us who have tenures on crown land should be able to make some comment into these negotiations, but they were held strictly in a confidential environment," she said.

Long-time tenures could be lost or leases may not be extended while the First Nations and government negotiate.

Some bands have said future agreements would continue, while others have said the tenure holders must leave First Nations land.

"The chiefs say one thing but the people they represent say another, so we don't know what the hell is going on," Madley said.

Her family wants to pass the ranch to the next generation, but there is little to transfer if the grazing tenures are lost.

Private land is often attached to the leases to form a larger ranching operation. Leaseholders have been allowed to fence the land and develop water sources, and that investment could be lost.

"Private land is not enough to do what we do now. We need crown land to carry on," she said.

There are 203 bands in B.C., of which 104 are involved at some level in the treaty process. The other 99 bands may never get involved.

However, some accords are more like conciliatory agreements. If these types of agreements succeed, the BCCA hopes they could become a good model for the remaining bands not involved in the treaty process.

Provisions in the Nenqay Deni Accord covering 66,000 sq. kilometres can be seen at www.tsilhqotin.ca/PDFs/Nenqay_Deni_Accord.pdf.

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FOLLOW THE LEADER



Neighbours and fellow ranchers helped brand and vaccinate more than 300 calves during the annual spring branding at the Stone Cup Ranch near Beauvalon, Alta., May 14. | DON WHITING PHOTO

CATTLE SALE

Stellar year for bull prices, sales

BY BARBARA DUCKWORTH

CALGARY BUREAU

Spending big dollars on a bull can be a sound investment, and this spring's bull sale results showed a willingness to pay across all breeds.

Auctioneer and sales manager Chris Poley of T Bar C Cattle Co. markets a half dozen breeds and saw impressive results across the board.

This spring there were more bulls over \$100,000 than I ever heard of in my life.

CHRIS POLEY

T BAR C CATTLE CO.

"This spring there were more bulls over \$100,000 than I ever heard of in my life," he said.

"These kinds of bulls don't come around every year in a program."

No record prices were paid, but sales averages were steady with 2015, another stellar year.

Most of the bulls went to other breeders or genetics companies.

There was also strong commercial interest, and although privately run bull sales led out bulls that fetched five and six figures, there was also a good offering of affordable cattle.

Market cattle prices have waned

from last year's records, but more commercial operators were willing to spend and upgrade their bull batteries this year. Poley said 95 percent of bulls probably go to commercial herds because buying better herd sires improves next year's calf crop.

He sold the high seller at Wheatland Cattle Company's annual bull sale at Bienfait, Sask.

"That is one program that consistently has the high selling sale for Simmentals in Canada," he said.

The sale at the family operation owned by Vernon, Denise, Riley and Cody-Ray Lafrentz offered 30 Simmental bulls that averaged \$19,833.

Kill Switch 598C, a red purebred, could be Canada's top bull price for 2016 at \$210,000.

The bull was bought by Curtis Simmentals of Bethune, Sask., and a semen syndicate was formed to take advantage of its genetic package.

Kill Switch was a home raised bull, and its sire was Wheatland Circuit Breaker. The farm bought the dam from Texas, and this was its first bull calf.

Vernon Lafrentz described Kill Switch as "lots of bull," which was muscular and phenotypically sound with good conformation and testicles.

"He was always a stand-out calf," he said.

They did not keep him in their own herd because they already had

OTHER HIGH SELLERS THIS SEASON INCLUDED:

- Lewis Farms of Spruce Grove, Alta., sold a Simmental bull for \$150,000.
- Westway Farms of Didsbury, Alta., sold a Simmental bull for \$135,000.
- Double Bar D Farms owned by Richard and Ken Dimler of Grenfell, Sask., sold a Simmental bull for \$130,000.
- Sparrow Farms of Vanscoy, Sask., sold a Charolais bull that fetched \$107,000.
- Darren and Joanne Unger, owners of U-2 Ranch at Coaldale, Alta., sold a red Angus bull for \$103,000.

bulls of similar breeding

"A bull of that caliber has to get out," he said.

They have run their own bull sales for more than 10 years. Every spring there are dozens of sales representing all breeds and a variety of genetic programs. Lafrentz believes their bloodlines set them apart.

"Our pedigrees are fairly unique, and it is not everywhere you can buy the pedigrees we have," he said.

They do not offer a female sale in the fall and keep their own replacements in the herd.

"To access the pedigrees, they have to buy the bulls," he said.

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ANIMAL HEALTH

Horse lift focuses on more humane treatment

The computerized system ‘weight compensates’ so that the animal can ‘weigh less’ and be more comfortable

BY TENNESSA WILD
SASKATOON NEWSROOM

Researchers at the University of Saskatchewan veterinary college are hoping to give animal rehabilitation a big lift.

The Western College of Veterinary Medicine (WCVM) and Saskatoon-based RMD Engineering, are creating a more effective and humane lifting device.

It's called the animal rehabilitation management system (ARMS) and it's designed especially for horses.

Julia Montgomery, research supervisor at the large animal clinic at WCVM, said the lift should prove more comfortable for horses.

“What really makes ARMS special is that it's a computerized lifting device, so it doesn't mechanically lift the animal, but it will what we call weight compensate so it will take up a certain amount of the animal's body weight so that the horse can basically weigh less.”

Montgomery, who has a PhD in equine immunology, said when horses have an injured leg, they will often shift weight loads to their healthy legs. This can cause supporting limb laminitis, a disease of the connective tissue around the hoof and coffin bone. When a horse increases its weight to the area, it can restrict blood flow and deplete essential nutrients. That can cause tearing of the support structure and sinking of the pedal bone.

The initial lift system tests included two healthy horses over five days. The horses were suspended in an Anderson Sling designed to lift large animals, while researchers monitored behaviour patterns and pressure sores, and tested for blood flow and muscle enzymes.

They found heart rates were stable and muscle enzymes and blood flow to the foot were not affected.

However, the horses displayed increased respiratory rates and negative emotional associations with the sling as they spent more



Julia Montgomery, research supervisor and assistant professor in large animal clinical sciences at the Western College of Veterinary Medicine, places the test harness on “Earl” to get the right fit. | TENNESSA WILD PHOTOS

time in the harness.

“I am very excited about the progress we have made so far. We have certainly encountered some challenges and the next step is a better harness. We can only use this technology to its full potential if we pair it with a harness that we can do that with,” said Montgomery.

Montgomery and her team are also in the midst of creating a new sling. The new sling looks like a horse blanket and will be one complete piece. It also requires only one researcher to place it on the horse and allows for more mobility.

The Anderson Sling was helpful in the developing stages of the project, but not ideal for the long term, said Montgomery. Its main pickup point is under the abdomen and the new prototype will focus around the limbs.

“Based on our findings we designed the harness in a way that we think would work better. It's really going to be more like a harness than a sling so it will be quite different” Montgomery said.

Jim Boire, president of RMD Engineering, runs research and development for the company.

Together, the team of engineers and veterinary specialists have brought in many other changes to diagnosis, treatment and rehabilitation techniques in animal medicine. They modernized the bovine tilt table at the college and manufactured the large animal positioning system for the Canadian Light Source synchrotron also located at the university.

“When you think that you're building something that eventually would stop horses from having to be put down, you're making a difference,” said Boire.

The WCVM eventually plans to use the new lift on client animals but for now it remains in testing.

“(It) will be used on client owned animals but before we get to that point we want to make sure that it's safe and we're comfortable using it,” said Montgomery.

In addition to her work with the ARMS lift Montgomery is being



Montgomery demonstrates the animal rehabilitation management system.

honoured for her broader work. This year, the YWCA Women of Distinction Awards have recognized her as a leader and contributor in the research and technology category for the Saskatoon area.



Visit us online at www.producer.com to see a video about this story.

tennessa.wild@producer.com

SHEEP

Sheep producers happy with average results at ram sale

BY BARB GLEN
LETHBRIDGE BUREAU

FORT MACLEOD, Alta. — Organizers of the annual Pound Maker ram sale in southern Alberta may have to change the name of the event to the Rain Maker ram sale.

It rains almost every year on the day of the sale, and on May 19, the rain was particularly welcome as the first measurable precipitation in the area this spring.

Six consigners had 109 rams on offer from eight breeds. The overall sale average was \$993 for the 10th annual sale, which was \$13 less than last year's average.

Sale organizer and consigner Warren Moore said ram longevity has become a factor for sales.

“I was talking to the producers later and they said that they would have bought more rams — and this is good and bad for us — but our rams are living too long and they're

able to get an extra year or two out of them,” said Moore.

“They're just lasting longer than most rams, so that's good.”

This year's event broke the record for high-seller at \$3,400 for one ram and \$2,400 for its pen mate.

The previous record was \$1,800.

“Our highs were higher and our lows were lower, but at the end of the day we're right where we have been for the last few years,” said Moore.

The sale was particularly hot for Ile de France rams. The nine on offer averaged \$1,633.

Nine Dorsets averaged \$1,200, and 65 Suffolks averaged \$923. Two Charollais averaged \$900, the 12 Rambouillet averaged \$815, and the three Hampshires averaged \$850. Eight North Country Cheviots averaged \$733, and one coloured sheep sold for \$750.

barb.glen@producer.com



A ringman signals a bid at the 10th annual Pound Maker ram sale held at the Fort Macleod Auction Market May 19. | BARB GLEN PHOTO

EQUINE DISEASE

Horse owner devastated by swamp fever cases

Tests confirmed 10 animals were carriers and had to be euthanized

BY TENNESSA WILD
SASKATOON NEWSROOM

Swamp fever struck hard April 27 near Meadow Lake, Sask., and Tricia Kroeker faced the wrenching task of euthanizing 10 of her horses.

"This year was every horse owner's worst nightmare," said Kroeker.

Her herd underwent Coggins testing after a horse sold from her farm last fall tested positive for equine infectious anemia (EIA), also known as swamp fever.

Kroeker tests frequently, but she didn't anticipate the dire results. There were no signs to suggest any of her horses, let alone so many, were affected.

However, absence of symptoms is common when horses test positive for EIA.

Kroeker is waiting for her remaining horses to return home. They are under precautionary quarantine imposed by Canadian Food Inspection Agency regulations.

The CFIA is responsible for response and recovery of all positive EIA cases and can also investigate, euthanize and provide compensation.

EIA is an incurable viral equine disease, and there is no vaccine to prevent it. It is transmitted through blood, milk and bodily secretions.

Blood sucking insects are the usual method of transmission. A horse fly or deer fly can hold the virus up to four hours and pass it horse to horse.

A horse becomes a carrier for life once it contracts EIA and can put others at risk.

It manifests in three types: acute, subacute and chronic. Most horses remain asymptomatic, but others will suffer from fever, anemia, jaundice and swelling of the underside and legs.

"I want mandatory testing because if we don't screen all the owned horses, we're never going to get it under control," Kroeker said.

The CFIA keeps track of all cases and reports a downward trend in Western Canada since 2011.

Saskatchewan fell from 102 of 179 western Canadian cases in 2011 to 31 of 80 cases in 2015.

The Saskatchewan Horse Federation believes testing is the best way to keep the disease from spreading.

"It will never be eradicated, but it can be brought more under control," said chair Doug Howe.

The federation passed a motion in March to require mandatory EIA testing of all horses that attend SHF-sanctioned events, effective Jan. 1, 2017.

"That's the mandate of our membership, and our job as the board of

directors is to implement it to the best of our ability, and we will be working at that," said Howe.

The SHF also developed education seminars about EIA, and five have been held.

"We are as aggressive as we can be and we'll see if we'll be ongoing, because we need the manpower and finances to do that. It was a big drive to bring it to the forefront," he said.

Howe and Kroeker said they would also like more CFIA involvement. The EIA control program is part voluntary testing by the industry and part veterinarian response through the CFIA.

The first EIA control program began in 1972, and the level of government involvement has varied since then.

Dr. Leroy Coggins developed the first reliable test in the 1970s, which could identify carriers. The Coggins test is still used today and can determine if EIA antibodies are present.

C-ELISA (competitive enzyme-linked immunoabsorbent assay) is a newer test, but it has reported false-positive outcomes. In Canada, a positive c-ELISA result is confirmed using a standard Coggins test.

Owners are issued a negative EIA test certificate once the results are

in and positive tests are reported to CFIA.

"People need to understand that not testing turns your horses into Schrodinger's cat; they are simultaneously alive and dead. People are scared of what they don't understand," said Kroeker.

She attended one of SHF's education seminars and urges horse owners to get more involved. Lack of knowledge has dire consequences.

"It should be an animal welfare thing. It's a basic medical necessity," Kroeker said.

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FOR MORE INFORMATION

- EIA Fact Sheet, Saskatchewan Ministry of Agriculture, agriculture.gov.sk.ca
- EIA Fact Sheet, *EIA Control Program and Premises Infected with EIA*, Canadian Food Inspection Agency, inspection.gc.ca
- EIA: The Only Protection is Prevention, American Association of Equine Practitioners, aaep.org
- Equine infectious anemia threat for horses, Townsend Equine Health Research Fund, ehrf.usask.ca



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Mary Buhr, PAg
Dean, College of Agriculture & Bioresources
University of Saskatchewan
Saskatoon, SK

Mary is in her second five-year term as Dean of the College of AgBio. Through her leadership, the College continues to grow attracting students interested in all aspects of agriculture, food, bioresources, and the environment.

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As an animal scientist, Mary's research investigated sperm physiology and its relationship to fertility and artificial insemination primarily with bulls and boars, but also with elephants, horses and poultry.



Kirsten Theaker, PAg
Crop Production Advisor
Crop Production Services
Eaton, SK

Kirsten advises producers on crop planning and crop protection products. She works on producer scale trials and precision agriculture technologies. Kirsten is dedicated to encouraging producers to diversify, by providing specialty crop advice and crop management services.

"The professional agrologist (PAg) designation assures producers that I am qualified and continually learning up to date information; and assures the public that I am advising producers on the best modern technology that is environmentally sustainable."

Kirsten was raised on a grain farm at Eaton, SK. She received a BSA in agronomy from the University of Saskatchewan. Kirsten joined CPS in 2012.

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CONTENT SOLUTIONS

VACCINE EFFICACY

Vaccinating young calves: what works, what may not

ANIMAL HEALTH



JOHN CAMPBELL, DVM, DVSc

Getting a young beef or dairy calf off to a good start always involves ensuring adequate colostral intake.

The calf has few antibodies in its blood stream at birth, and this first milk contains large quantities of antibodies from the dam. These antibodies are absorbed by the calf and provide important maternal immunity for the first few months of life.

We also try to help that immunity by vaccinating the cow with vaccines against scours. The cow will pass specific antibodies to the calf and make it less likely for it to succumb to diarrhea.

A large volume of research demonstrates that calves with less than adequate colostrum intake are more likely to become sick, die or weigh less at weaning and fail to reach their growth potential.

Vaccinating the calf is another way to provide specific immunity.

There are a lot of unknowns about how newborn or very young calves respond to vaccines, but we do know that the newborn calf has a

functional immune system. It begins to develop in the fetus as early as 40 days into gestation, and by the third trimester it can respond to a variety of infections.

However, most calves are born with no antibodies in their blood stream, and although their immune cells function at a slower rate, the immune system is completely functional.

We also have evidence that nutrition can play a role in immune response.

Calves can have lowered immunity and be more likely to become sick or die if they have severe or chronic deficiencies in a variety of trace minerals and vitamins or if they are fed diets that are deficient in energy or protein.

We think the immune system can recover quickly if the deficiency is corrected early, but more research is needed to explore the interaction between nutrition and immunity.

Vitamin E is a common deficiency in calves in Western Canada, which has been associated with outbreaks of neonatal death in some herds.

We have traditionally assumed that calves would not respond well to vaccinations if they had high levels of maternal antibodies in their system from colostrum. These maternal antibodies were expected to "bind up" the vaccine and prevent the immune system from responding to it.

However, studies have now



Studies show young calves can benefit from vaccines that help prime the immune system. | FILE PHOTO

shown that young calves can respond to vaccination in the face of maternal antibodies.

The vaccines, when given early, can help prime the immune system for a memory response when the maternal antibodies are gone. They can also help prolong anti-

body levels in the calf.

Vaccinating young calves can also influence other aspects of immunity, which are not as obvious as antibody levels and have a positive effect.

Several vaccine companies are now marketing intranasal vaccines for some respiratory viruses. They may be superior to injectable vaccines for young calves with maternal antibodies present, but more research is needed.

Clinical field trials are the best way to answer questions about vaccine efficacy, but they are more likely to be performed in large dairy operations than beef cow-calf herds.

We still have lots of questions about immunity in young calves and how they respond to vaccines, particularly in calves younger than one month. These young calves

may respond better to intranasal vaccination, but we need more information on the factors that limit vaccine efficacy.

However, the immunity from intranasal vaccines may not last as long, and we are fairly certain that calves are more likely than adults to require booster vaccinations. These boosters are usually given two to four weeks after the initial vaccination, but this may not always be practical in some herds.

Most producers are adequately vaccinating young calves for clostridial disease, but respiratory disease is the other major risk. These outbreaks tend to occur at six to eight weeks of age, which means vaccines will have to be administered at least one month before disease occurrence.

This may necessitate vaccinating young calves that have high concentrations of maternal antibodies.

It would probably be ideal in high risk situations to provide at least one booster vaccination after the initial vaccination and before the greatest risk of disease occurrence. In these situations, veterinarians may have to ask producers to use vaccines in calves as young as a few weeks of age.

We know that pre-weaned calves can respond to vaccines as early as the first day of life, but the response is probably better in calves one month old or greater. Calves respond to vaccines in a similar fashion as adult animals once they are five to eight months old.

Intranasal vaccines have shown advantages when vaccinating young calves and should be considered as part of a herd's vaccine protocol.

Vaccine programs should be developed in consultation with a herd veterinarian, who can provide detailed information on the timing of necessary vaccinations.

John Campbell is head of Large Animal Clinical Sciences at the University of Saskatchewan's Western College of Veterinary Medicine.

SHEEP, WOOL RETAILING

New digs for Alta. wool co-op

BY BARB GLEN

LETHBRIDGE BUREAU

The Canadian Co-operative Wool Growers building, built in 1945, doesn't owe much to its tenants.

The wool growers have occupied their current Lethbridge location since 1950, when wool was delivered in one-ton trucks and railcars and left the same way.

The city grew up around the building on First Avenue South, making modern access by semi-trailer difficult, and the rail siding is long gone. Now, the co-op has plans for a new building in the business park south of the city with easy access and more space.

"We're pretty excited about it," branch manager Brian Shaw said about the 14,000 sq. foot building soon to be under construction.

The 1.3 acre site will allow more room for parking, warehouse, retail and office space.

Shaw said he will miss the 10,000 sq. foot building in some ways. It

tended to elicit reminiscences from visitors who now deliver wool to the same place their grandfathers did.

"We're not going to hear those stories," said Shaw.

On the other hand, neither he nor his aging knees will miss the stairs. The new building will be on one level with easier access for customers and more display space for retailers who provide products vital to sheep and wool production.

"People will be able to see stuff better. It's just going to make it safer and a better experience," said Shaw. "We will have considerably more room for our wool and for more bagged feed and some other things."

The current building has been sold and will likely be renovated.

The new building, to be developed by Southwest Design and Construction of Lethbridge, is set to be ready by Christmas.

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DISEASE RESEARCH

Prion proteins continue to baffle researchers

Not knowing how the transmissible disease starts inhibits treatment

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Scientists are continuing to unravel the mystery of fatal prion diseases.

"Prions induce fear, and a lot of the reaction comes from a fear-based response because we know in the case of mad cow disease, that has been transmissible to humans," said Valerie Sim, a neurologist at the University of Alberta's centre for prions and protein folding diseases.

Figuring out what kind of disease can be caused sporadically, genetically or acquired remains the great puzzle for researchers.

They have learned a great deal about misfolded proteins yet continue to struggle with the basics of how transmissible spongiform encephalopathies (TSE) start.

Scrapie was the first prion related disease noted in livestock. It was thought to be a slow virus with no clear immune response. Infected animals suffer from excessive itching and start to lose their wool.

Cases of kuru, another TSE, occurred among some tribes in Papua New Guinea who practiced cannibalism when they ate the brains of dead people as part of a funeral ritual. They no longer do this, but cases continued for years after because the disease has a long incubation period.

Kuru puzzled scientists until a scientist noticed that an infected brain that was part of a travelling exhibit had holes similar to what is seen in sheep with scrapie.

"It was unclear how it was spreading in that community until a comparison was made in the pathology of the brain from these patients," Sim told an infectious disease conference at the U of A.

BSE can occur sporadically, but it was a disaster when it was discovered in Great Britain more than 25 years ago. Two million cattle were infected after eating protein supplements containing ruminant byproducts.

People eating contaminated beef were eventually infected, and 229 worldwide have died of a variant form of Creutzfeld Jacob Disease (CJD).

Chronic wasting disease in deer and elk is appearing with greater frequency in Alberta and Saskatchewan. It seems to be spread into the environment through urine, saliva and feces.

"There is no evidence it causes disease in humans, but time will tell," Sim said. "It takes a significant dose to cross the species barrier."

The average time to death after onset of symptoms is four months in people who develop CJD. The patient experiences balance problems, hallucinations, blindness, progressive dementia and eventually cannot move or speak. It is rare and peaks in the sixth decade of life.

Most cases are sporadic with no clear cause, while 10 percent are genetic and less than one percent is acquired. Researchers have learned that a normal prion protein is expressed throughout the body.

"We don't really know what it does, but it may have some neuroprotection or protection against oxidative stress," Sim said. "It may act like a grand facilitator, helping

other molecules function well."

A prion protein that misfolds converts other naturally occurring prion proteins and eventually spreads to the brain.

"What does it look like? We don't know. It is a difficult protein to study," said Sim.

It appears that a TSE-associated prion has a different conformation, so new therapy approaches are aimed at inhibiting conversion. Each of these conformation changes are complex, and there are different prion strains.

A combination of therapies may be needed, but there is not much time to intervene once it is diag-

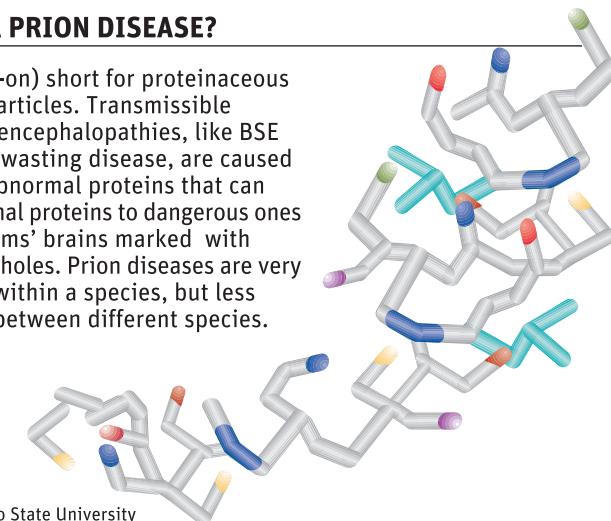
nosed, and treatment may do more harm than good. A promising treatment is finding a way to stop the bad prions from binding to normal ones, said Sabine Gilch of the University of Calgary's faculty of veterinary medicine.

One way is to use peptide aptamers that bind to target molecules, but the experiments are in the early stages, she told the Alberta Innovates conference in Edmonton. Such an approach could be used to treat Alzheimer's disease by stopping the death of brain cells.

"To deliver those substances into the brain is not so easy," she said. barbara.duckworth@producer.com

WHAT IS A PRION DISEASE?

Prion: (pree-on) short for proteinaceous infectious particles. Transmissible spongiform encephalopathies, like BSE and chronic wasting disease, are caused by prions, abnormal proteins that can convert normal proteins to dangerous ones leaving victims' brains marked with microscopic holes. Prion diseases are very contagious within a species, but less contagious between different species.



Source: Colorado State University

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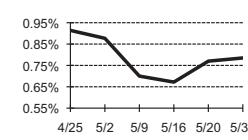
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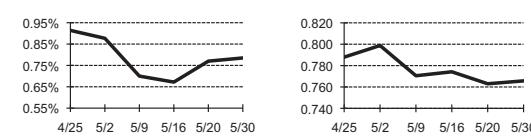
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May 30



The Plains Industrial Hemp Processing plant would process 40,000 bales annually and could employ up to 30 people. | ROBERT ARNASON PHOTO

HEMP PROCESSING

Work continues on hemp plant

Residents in Gilbert Plains, Man., remain dubious that the processing plant will open its doors

BY ROBERT ARNASON

BRANDON BUREAU

GILBERT PLAINS, Man. — It's taken six years and more than \$5 million in taxpayer dollars, but a hemp processing plant in Manitoba's Parkland region may soon open its doors for business.

"I think now it's on the right track," said Blake Price, Reeve for the rural municipality of Gilbert Plains. "They (the owners) would be disappointed if it's not up and going by 2017."

In the spring of 2010 the federal and Manitoba governments announced \$5.3 million in funding for Plains Industrial Hemp Processing, a company with plans to process hemp fibre for textiles, building materials, animal bedding and other products. The bulk of the funding came from the federal government, which contributed \$4.775 million.

Robert Jin, a Chinese businessman with experience in the textile industry and president of Plains Industrial Hemp Processing, predicted in 2010 that the plant would open shortly.

"The financial contribution towards this project will enable my

company to complete the purchase of equipment and construct the processing facility in Gilbert Plains," Jin said.

"This project is important as well so we can export Manitoba hemp fibre around the world. I am very happy about the progress of the project and look forward to the start-up of the facility."

The plant's official opening has been delayed, many times, because of issues with machinery imported from China and failures to satisfy Canadian construction standards.

"There was an electrical issue.... There were some wiring issues that weren't up to code. They had to go back in and re-wire most of the plant at a very high cost," Price said, noting the company decided in December to upgrade the wiring.

"They're well on the way to doing that. This is a guess, but I'd say they're somewhere in that 75 percent completion.... Structurally, there's a few dust and smoke proofing issues that have to be addressed. They are reasonably minor (matters) and they (the owners) are moving forward on those."

In late May three electricians were working at the Plains Industrial Hemp Processing plant. There were machines inside the main building at the site, which also has a storage shed for hemp bales and another structure that may be a maintenance building.

Round hemp bales were stacked by the highway, next to federal and provincial government signs promoting the project. Much older bales were stacked behind the main building and inside the stor-

age shed.

Overall the site was reasonably tidy. There were a few spots where weeds have taken over but it didn't look completely abandoned.

The plant may not be open but the company's website is up and running.

The website says the firm sells a number of products under the Plains Hemp brand, including matting, insulation, BBQ pellets and "technical grade quality hemp fibres and hurd for use in nonwoven applications, biocomposites (and) green building materials."

When operational, the plant will process up to 40,000 hemp bales per year and may eventually employ about 30 people.

Price said residents of Gilbert Plains, a community of about 750 people, have been waiting a long time for the plant to open. Consequently, many have become cynical about its future.

"Frustrating? Probably more disappointing.... It hasn't caused the community a lot of issues other than 'is this actually for real?' Is it every going to happen?"

OTTAWA AND MANITOBA HAVE CONTRIBUTED
MORE THAN
\$5 million
TO PLAINS INDUSTRIAL HEMP PROCESSING

robert.arnason@producer.com

AG STOCKS MAY 23-27

The prospect of higher U.S. interest rates lifted banks. Crude oil approached \$50 a barrel, supporting commodity company shares. For the week, the Toronto Stock Exchange composite rose 1.3 percent, S&P 500 rose 2.3 percent, the Dow climbed 2.1 percent and the Nasdaq jumped 3.4 percent. Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	43.23	39.83
AGT Food	TSX	36.85	36.91
Bunge Ltd.	NY	65.79	62.74
ConAgra Foods	NY	45.29	44.38

PRairie PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	1.25	1.23
Cervus Equip.	TSX	11.17	11.33
Input Capital	TSXV	2.20	2.00
Rocky Mtn D'ship	TSX	7.29	7.05

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
Hormel Foods	NY	34.78	34.86
Maple Leaf	TSX	29.58	29.45
Premium Brands	TSX	53.36	53.97
Tyson Foods	NY	65.07	64.71

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
Ag Growth Int'l	TSX	38.79	38.91
AGCO Corp.	NY	51.32	49.80
Buhler Ind.	TSX	4.90	4.90
Caterpillar Inc.	NY	71.96	69.87
CNH Industrial	NY	7.02	6.67
Deere and Co.	NY	80.50	77.74

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrum	TSX	118.88	115.29
BASF	OTC	77.89	75.45
Bayer Ag	OTC	95.22	100.20
Dow Chemical	NY	52.18	51.36
Dupont	NY	67.17	65.75
BioSyntex Inc.	TSXV	7.17	6.85
Monsanto	NY	109.49	101.52
Mosaic	NY	25.69	25.94
PotashCorp	TSX	21.59	21.68
Syngenta	ADR	79.52	79.84

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	78.22	76.46
CPR	TSX	169.83	169.50

List courtesy of Ian Morrison, financial adviser with the Calgary office of Raymond James Ltd., member of the Canadian Investor Protection Fund. The listed equity prices included were obtained from Thomson Reuters. The data listed in this list has been obtained from sources believed to be reliable, but accuracy cannot be guaranteed. Within the last 12 months, Raymond James Ltd. has undertaken underwriting liability or has provided advice for a fee with respect to the securities of AGT Food. For more information, Morrison can be reached at 403-221-0396 or 1-877-264-0333.

Company plans seeder demo at Ag in Motion

Clean Seed Capital Group has delivered its first two CX-6 Smart Seeder planters to its distribution partner, Rocky Mountain Equipment.

RME will begin an extensive demonstration program of the high tech precision seeders at the Ag In Motion show near Saskatoon July 19-21.

Clean Seed began commercial production of the seeders this year at WS Steel in Steinbach, Man.

AGRI-BUSINESS

Monsanto rejects Bayer's take-over bid

Company says it is still willing to talk, but market analysts question whether Bayer can justify raising its proposed price

(Reuters) — Monsanto Co., the world's largest seed company, has turned down Bayer AG's \$62 billion acquisition bid as "incomplete and financially inadequate" but said it was open to engage further in negotiations.

Monsanto's decision puts pressure on Bayer to decide whether to raise its bid, even as the company faces criticism from some shareholders that its \$122 per share cash offer is already too high.

Monsanto shares initially rose following the official take-over bid announcement May 23 but then drifted lower over the week and were trading at a little less than \$109 late May 27. Monsanto shares were trading at less than \$100 before rumours began in mid-May of Bayer making a bid.

"We believe in the substantial benefits an integrated strategy could provide to growers and broader society, and we have long respected Bayer's business,"

Monsanto chief executive officer Hugh Grant said in a statement.

"However, the current proposal significantly undervalues our company and also does not adequately address or provide reassurance for some of the potential financing and regulatory execution risks related to the acquisition."

Bayer responded that its \$122 per share offer represents "full and certain value" for Monsanto shareholders, but that it looks forward to engaging in constructive discussions with Monsanto.

"We are confident that we can address any potential financing or regulatory matters related to the transaction," Bayer CEO Werner Baumann said in a statement.

"Bayer remains committed to working together to complete this mutually compelling transaction."

It was not clear what price Monsanto would be willing to sell for, but several analysts have sug-

\$122

IS THE SHARE OFFER TOO HIGH OR TOO LOW?

gested Bayer would have to pay much more than the current offer to clinch a deal.

"We believe it is unlikely that the deal gets done at \$122 and still believe \$135 is a more likely price," JPMorgan analysts wrote in a research note.

Manning & Napier Advisors LLC, an investment management firm that is Monsanto's 14th largest shareholder according to Thomson Reuters data, agreed with Monsan-

to's decision to seek a higher offer.

"Monsanto's assessment that the initial offer was inadequate is valid, as we believe it does not appropriately value the company's existing product portfolio," said Michael Knolla, a managing director at Manning & Napier.

Global agrochemical companies are racing to consolidate, partly in response to a drop in commodity prices that has hit farm incomes. Seed and pesticide markets are

also increasingly converging. This has driven Monsanto to consider a tie-up to build strength.

Monsanto approached Bayer in March to express interest in its crop science unit. Among the possibilities discussed were an outright acquisition of the crop science unit and a joint venture or other type of partnership between the two companies.

ChemChina plans to buy Switzerland's Syngenta for \$43 billion, after Syngenta rejected a bid from Monsanto. Dow Chemical Co. and DuPont are forging a \$130 billion business.

With German rival BASF SE having previously considered a venture with Monsanto, Bayer has moved to avoid being left behind.

Bayer's unsolicited bid for Monsanto is the largest all-cash takeover on record.

Bayer said it would finance its cash bid with a combination of debt and equity.

ESTATE PLANNING

Giving farming, non-farming children a piece of the pie

TAKING CARE OF BUSINESS



COLIN MILLER

A key consideration for most parents when planning a farm estate is to be fair to all their children, whether or not they want to be involved in the farm.

Land is usually the most valuable part of the estate, and it can be tricky dividing it up among the children.

However, parents also want to create a plan that provides the children who do want to farm an opportunity to succeed.

Every family is different, and there is not just one solution to meet the family objectives.

A number of things must be considered if the family's philosophy is to separate land ownership from the actual farming operation.

One area to consider is how to protect the farming child who makes a living from the farming operations from decisions that the non-farming child may make with respect to the land they own.

Here are some tools to consider to provide this security.

Right of first refusal

One option is to give the farming child a right of first refusal on the land.

This allows the farming child to match a price offered to any non-farming children for their inherited land.

It is important to remember that a right of first refusal will make it more difficult for children to sell

land because buyers are sometimes less interested in negotiating to buy property if someone else can step in at the end and take the opportunity away from them.

The right of first refusal can be provided to the farming child, non-farming child and the parents.

Option to purchase

Another alternative is to give the farming child the option to buy the non-farming child's inherited land at fair market value or less.

This agreement gives the farming child the right to buy land from the non-farming child for a set period of time. It gives the farming child a little more control because they have the ability to decide when to buy the land.

Long-term lease

This alternative gives the farming child long-term access to the land as well as time to build the financial resources to either buy other land or raise funds to buy the non-farming child's land.

It provides the farming child peace of mind and can also offer "automatic" renewals.

This means the non-farming child has to honor the terms of the existing lease during the parents' lifetime or on their death.

However, all bets are off after the lease and any renewals are over. The non-farming child then would have control to do what they wish with the land.

Other factors to consider:

- the price at which to sell (fair market value versus a discounted value)
- the time frame
- other restrictions on both farming and non-farming children

A combination of the alternatives can be used, depending on the situation.

Lauren Gallimore and Riley Honess contributed to this article.

Colin Miller is a chartered accountant

and partner with KPMG's tax practice in Lethbridge.

Contact: colinmiller@kpmg.ca

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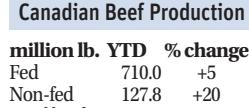
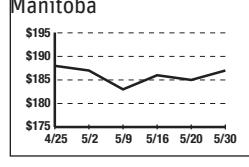
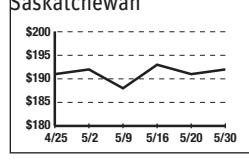
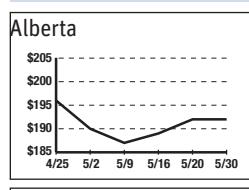
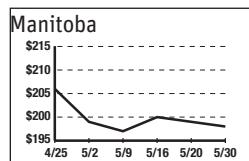
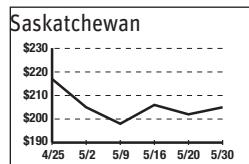
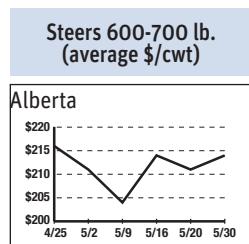
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CATTLE & SHEEP



Slaughter Cattle (\$/cwt)					
Grade A	Live May 20- May 26	Previous May 13- May 19	Year ago	Rail May 20- May 26	Previous May 13- May 19
Steers					
Alta.	n/a	n/a	202.52	262.50-268.50	268.50-272.00
Ont.	150.24-164.06	149.27-163.68	198.93	256.00-263.00	248.00-256.00
Heifers					
Alta.	158.50	165.00	200.95	262.50-268.50	270.50-272.00
Ont.	148.02-164.69	147.16-165.68	195.42	255.00-262.00	247.00-255.00

*Live f.o.b. feedlot, rail f.o.b. plant.

Feeder Cattle (\$/cwt)			
	Sask.	Man.	Alta.
Steers			
900-1000	155-168	140-166	160-169
800-900	167-188	150-190	172-186
700-800	183-207	175-201	190-203
600-700	193-218	185-210	202-220
500-600	207-237	195-224	205-230
400-500	220-243	205-240	208-240
			no sales
Heifers			
800-900	146-170	145-168	158-171
700-800	160-181	152-180	165-181
600-700	171-195	166-190	175-190
500-600	183-205	180-195	185-203
400-500	187-209	182-215	186-210
			no sales

Canfax

Average Carcass Weight			
Canfax	May 21/16	May 22/15	YTD 16
Steers	882	854	930
Heifers	825	804	854
Cows	775	720	782
Bulls	1,002	1,016	1,027

U.S. Cash cattle (\$US/cwt)

Slaughter cattle (35-65% choice)	Steers	Heifers
National	n/a	n/a
Kansas	n/a	n/a
Nebraska	n/a	n/a
Nebraska (dressed)	n/a	n/a
Feeders No. 1 (800-900 lb)	Steers	Trend
South Dakota	-	-
Billings	130.50-138.50	n/a
Dodge City	133.00-137.00	-5/-6
	USDA	

Cattle / Beef Trade

	Exports	% from 2015
Sltr. cattle to U.S. (head)	229,013 (1)	+18.5
Feeder C&C to U.S. (head)	110,503 (1)	-44.8
Total beef to U.S. (tonnes)	61,960 (3)	+7.3
Total beef, all nations (tonnes)	80,470 (3)	+5.0
	Imports	% from 2015
Sltr. cattle from U.S. (head)	n/a (2)	n/a
Feeder C&C from U.S. (head)	6,868 (2)	-5.3
Total beef from U.S. (tonnes)	45,410 (4)	-0.8
Total beef, all nations (tonnes)	78,253 (4)	+0.6

(1) to May 14/16 (2) to Mar 31/16 (3) to Mar 31/16 (4) to May 21/16

Agriculture Canada

*incl. wt. premiums

Hogs / Pork Trade

	Export	% from 2015	Import	% from 2015
Sltr. hogs to/fm U.S. (head)	386,621 (1)	-7.9	n/a	n/a
Total pork to/fm U.S. (tonnes)	109,211 (2)	-0.7	63,596 (3)	-7.9
Total pork, all nations (tonnes)	317,246 (2)	+11.3	72,940 (3)	-3.6

(1) to May 14/16 (2) to Mar 31/16 (3) to May 21/16

Agriculture Canada

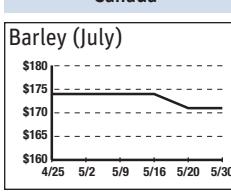
Chicago Hogs Lean (\$US/cwt)

Close	Close	Trend	Year	Close	Close	Trend	Year
June	80.53	79.85	+0.68	83.83	Dec	-0.18	69.23
Jul	81.08	80.25	+0.83	83.45	Feb	-0.20	71.33
Aug	80.73	79.75	+0.98	82.50	Apr	-0.02	73.50
Oct	68.53	68.43	+0.10	72.63	May	+0.35	77.48

MARKETS

GRAINS

ICE Futures Canada



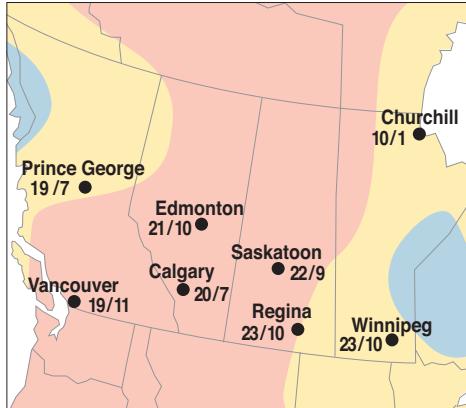
BUZZING BEES

Alberta adopted the wild rose as its official flower in 1930. These honey bees use it to collect pollen from a roadside patch in bloom near Cayley. | MIKE STURK PHOTO

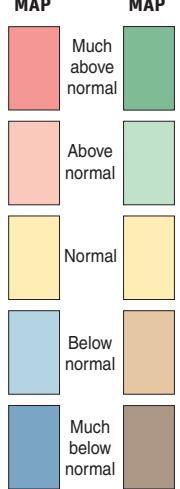


TEMPERATURE FORECAST

June 2 - 8 (in °C)

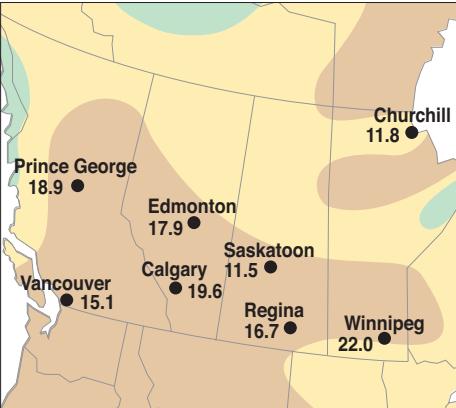


TEMP. MAP



PRECIP. MAP

June 2 - 8 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

PRECIPITATION FORECAST

June 2 - 8 (in mm)

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LAST WEEK'S WEATHER SUMMARY ENDING MAY 29

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	21.9	3.0	16.4	73.5	100
Broadview	21.9	3.4	21.4	65.0	84
Eastend Cypress	20.2	3.0	18.5	101.3	130
Estevan	23.4	4.9	32.4	72.7	96
Kindersley	23.0	3.9	18.5	73.3	126
Maple Creek	22.2	2.1	22.4	129.1	189
Meadow Lake	24.0	0.1	4.9	26.1	41
Melfort	25.3	6.9	0.9	29.7	46
Nipawin	24.2	3.6	20.8	67.5	102
North Battleford	22.6	3.5	34.4	46.1	76
Prince Albert	24.8	4.1	11.9	39.3	58
Regina	22.2	2.1	19.3	62.7	92
Rockglen	20.9	4.4	20.5	123.1	167
Saskatoon	24.0	5.2	17.7	45.1	71
Swift Current	20.8	5.4	30.3	136.0	214
Val Marie	22.7	0.5	19.2	125.4	196
Yorkton	21.6	6.1	15.2	61.5	84
Wynyard	21.7	7.0	2.6	44.7	68

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	22.8	1.3	1.6	84.1	134
Calgary	20.8	1.0	17.0	60.7	76
Cold Lake	22.7	5.6	41.0	90.4	138
Coronation	21.3	3.1	2.4	114.7	200
Edmonton	23.2	4.1	12.3	100.4	135
Grande Prairie	23.2	-1.0	26.7	83.2	140
High Level	24.1	3.0	31.1	57.2	118
Lethbridge	21.0	2.3	3.1	76.8	100
Lloydminster	23.2	3.9	48.1	135.5	206
Medicine Hat	22.2	3.1	44.8	121.0	195
Milk River	21.3	0.6	2.4	123.2	140
Peace River	22.0	1.8	16.8	64.5	111
Pincher Creek	19.5	1.1	16.4	94.1	83
Red Deer	21.2	1.5	14.5	73.1	92
Stavely	18.8	2.0	10.5	96.9	109
Vegreville	22.3	4.7	36.7	100.8	157

All data provided by Agriculture and Agri-Food Canada's National Agroclimate Information Service: www.agr.gc.ca/drought. Data has undergone only preliminary quality checking. Maps provided by WeatherTec Services Inc.: www.weathertec.mb.ca.

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brandon	26.5	5.8	31.3	76.5	95
Dauphin	24.0	7.4	11.1	77.4	96
Gimli	25.4	8.5	40.1	115.6	158
Melita	24.6	6.3	35.7	65.6	85
Morden	26.6	9.9	39.7	106.3	116
Portage La Prairie	26.7	10.3	36.9	90.2	104
Swan River	23.8	3.2	11.3	52.2	67
Winnipeg	26.9	9.1	36.7	107.7	127

BRITISH COLUMBIA

	Temperature last week	
--	-----------------------	--



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