

IN THE U.S. CAPITAL | P3, 14



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DRIVERLESS CARS & PIGS? | PAGE 45 | DUGOUTS AS CARBON SINKS | PAGE 55

Canola demand may soar

One Chinese soybean crushing plant has converted to canola and another is expected to do so by the end of the month, which is expected to increase imports by a million tonnes a year, mainly from Canada. A third plant is contemplating a similar move. | Page 6



Canola caution

Don't fiddle needlessly with stored canola. | Page 52

DOING THE TWIST



Virgil Jacobs brings down a steer in the steer wrestling event at the 25th annual Senior Pro Rodeo April 28-30 in High River, Alta. | MIKE STURK PHOTO

LETHBRIDGE COUNTY

Feedlot head tax ruled legal

It's now possible the tax will spread in Alberta

BY BARB GLEN
LETHBRIDGE BUREAU

A per-animal-unit tax imposed primarily on cattle feedlots by Lethbridge County has been deemed legal in Alberta Court of Queen's Bench and has opened the door to similar tax levies across the province.

It has also raised questions among feedlot owners about the future of their operations and the cattle feeding industry in the county, where about half a million head of cattle are fed annually.

In a ruling issued April 20, Justice R.A. Jerke ruled that the bylaw allowing the county's per animal unit business tax, levied at \$3 per head in 2016, complies with municipal taxation powers.

However, he also ruled that the county's "special tax," which it levied on farmland and grassland in 2016, was not compliant because it failed to be sufficiently specific about designation of the funds collected.

SEE HEAD TAX, PAGE 5 >>

SEEDING

Seeding is late (but don't panic)

Wet soil and harvested crop are the main culprits; getting the crop to maturity could be a struggle

BY SEAN PRATT
SASKATOON NEWSROOM

Seeding is off to a slow start in some areas of the Prairies because of wet and cold weather and unharvested 2016 crop, but it is too early to push the panic button, say industry officials.

Kevin Bender, vice-chair of the Alberta Wheat Commission who

farms near Red Deer, is in uncharted territory with 1,200 acres still waiting to be combined. Seeding usually starts around the beginning of May in his area, and he doesn't think it will be too far off the mark.

"If it wasn't for the crop we still have out from last fall, we're not really out of the ordinary yet," he said.

Bender plans to intermittently seed the 2017 crop and combine what is left over from 2016.

"We may leave some of the combining until late, especially some of the wetter land," he said.

That will change some of his seeding intentions. Land that was earmarked for fababeans and peas will likely be planted to cereals.

Shannon Friesen, acting cropping management specialist with Saskatchewan Agriculture, said the same switch could take place in that province with pulses losing ground to barley and oats in waterlogged areas or where there is unharvested crop from 2016.

SEE SEEDING DELAYED, PAGE 4 >>



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Feel the love: Aggie Days in Lethbridge gives people a chance to meet farm animals. See page 48 for more photos. | BARB GLEN PHOTO

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WHAT'S HAPPENING @ PRODUCER.COM

FEATURES



AGGIE DAYS PHOTOS
Lethbridge hosted Aggie Days April 25-26, drawing large crowds of the young and young-at-heart. WP reporter Barb Glen was there to capture the action.



PIG PRODUCTION POLL
Driverless cars would eliminate accidents, lowering the number of organs available for transplant. Pig production goes up to fill the gap. Make sense?



FREEKEH RECIPES
Move over quinoa — this crunchy super food is making its way to North America. And we've got a number of freekeh recipes for you to try.

VIDEOS

US AG POLICY
Ed White looks at how Congress is trying to make ag policy in the Age of Trump.



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



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FROM THE U.S. CAPITAL

Canada seen as symptom of U.S. dairy crisis

WINNIPEG REPORTER ED WHITE ATTENDED THE NORTH AMERICAN AGRICULTURAL JOURNALISTS MEETING IN WASHINGTON, D.C., LAST WEEK, AND USED HIS TIME THERE TO CHECK ON THE PULSE OF AMERICAN AGRICULTURE. HIS STORIES FROM THAT TRIP CAN BE FOUND ON THIS PAGE AND PAGE 14.



WASHINGTON, D.C. — Canadian farmers might have felt blindsided when U.S. President Donald Trump suddenly accused Canada's dairy farming system of "taking advantage" of U.S. dairy farmers and being a "disgrace."

However, it was just a very public symptom of a U.S. farm sector in crisis and part of nationwide concern about a supply glut that is devastating U.S. dairy farmer incomes.

Fortunately for Canadian dairy farmers and other farmers worried about being nailed by retaliatory U.S. trade action, there is scant sign that American farm groups and farm-connected politicians share Trump's focus on Canada as a cause or solution to the current U.S. dairy crisis.

"We don't have an easy answer or a silver bullet," Trump's White House agriculture adviser, Ray Starling, told North American Agricultural Journalists members April 24 during a meeting in Washington.



RAY STARLING
WHITE HOUSE ADVISER

"We are anxious to sit down and work with the industry."

That sense of no-easy-answer to dairy farmers' woes was shared by the leaders of the House of Repre-

sentatives and Senate agriculture committees, as well as by policy officials of the right-of-centre American Farm Bureau Federation and the left-of-centre National Farmers Union.

"For us, oversupply is the problem," Zach Clark of the NFU told NAAJ. "We see supply as a problem and some sort of restraint of production as a solution."

Clark described the Canadian dairy system's recent reclassification of some industrial milk products as "unfair" and said the NFU wants to see the previous pricing regime reinstated.

However, he noted that his organization doesn't blame Canada for "trying to protect its producers" and would like to see the U.S. create a supply management system, too.

Mary Kay Thatcher of the farm bureau federation said her organization wants to see Canada's dairy pricing move investigated to see if a World Trade Organization complaint could be made, but "we're not sure there's been breach at this point."

Her organization's focus is on seeing whether current U.S. dairy support programs can be tweaked to provide better support, and on getting good programs into the 2018 farm bill. Domestic supply and demand issues are the farm bureau's main concern.

Trump's attack on Canadian dairy pricing came during a trip to Wisconsin April 20, where 75 dairy farmers had recently been told that they were not going to be able to supply a nearby dairy plant because of Canada's changes, which killed the demand for the American product.

Ultrafiltered milk has flowed into Canada without the country's high



A supply glut is devastating incomes for American dairy farms, such as Fair Oaks Farms of Fair Oaks, Indiana, which was photographed in 2013. | REUTERS/JIM YOUNG PHOTO

import tariffs and strict controls because the product did not exist when supply management's exemption from NAFTA was written. Because it was not banned, it could be imported by Canadian processors and used in place of much more expensive Canadian dairy products.

However, some Canadian provincial dairy organizations have begun instituting market prices for industrial dairy products, with Ontario establishing a framework that many others are beginning to emulate. With equally cheap product available within Canada, Canadian processors have largely lost any incentive to import U.S. product, leading to problems like those experienced in Wisconsin.

While Trump's attack on Canadian dairy garnered a lot of headlines and attention in mainstream newspapers and TV news programs on both sides of the border, the Canadian element was scarcely mentioned by American agriculture committee members who met with NAAJ.

Democrat Collin Peterson, minority leader of the House of



ZACH CLARK
NATIONAL FARMERS UNION

Representatives agriculture committee and a strong and consistent critic of Canada's supply management system for decades, did not mention Canada in 20 minutes of comments, many focused on the dairy crisis, only discussing supply management when asked a direct question about it.

His main concern has been finding a way to fix the dairy farmer safety net program and convincing farmers to actually use what they are offered.

The U.S. dairy industry's woes are part of a worldwide glut of dairy products, exacerbated by production growth by large, vertically integrated producers servicing a

stagnant domestic market. Surpluses have been exported to relieve domestic supply pressures, but world prices are low.

The milk products exported to Canada were part of that relief flow, so losing that market increases the U.S. domestic supply pressures.

However, Clark said he thinks the U.S. needs to retreat from a reliance on exports to relieve the pressure because the world market doesn't offer a long-term solution.

Canada's dairy action highlights the oversupply problem, but isn't its cause or solution.

"It sort of brought into contrast the sort of problem dairy producers face in that they are relying completely on international market growth in order to keep prices stable, to keep the farmers intact," said Clark. "We see Canada as part of the problem, (but) we appreciate that Canada is trying to protect its producers and we understand that if there was more of that sentiment here in the U.S. instead of the reliance on trade, (dairy farmers wouldn't be in crisis)."

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FROM THE U.S. CAPITAL

U.S. ag committee official sold on Trump's anti-NAFTA stance

WASHINGTON, D.C. — President Donald Trump's attacks on Canada's dairy system have made some uncomfortable bedfellows and awkward critics inside Congress.

Some left-of-centre politicians find themselves backing Trump's crusade against supply management, while some right-of-centre politicians find themselves publicly disagreeing with their fellow Republican.

"I think Trump is right about this," Democrat Collin Peterson, minority leader of the House of Representatives agriculture committee, told North American Agricultural Journalists members April 25.

"This needs to be taken on, and I support him in that."

But the chair of the Senate agriculture committee, Republican Pat

Roberts, was clearly unhappy with the escalating trade tensions with Canada.

"I try not to think about it," he said, grimacing about the news the previous night that Trump had added softwood lumber to his existing beef with Canadian dairy.

"I think that's asking for trouble as opposed to whatever accomplishment that they may want to accomplish."

Trump's protectionism and "America First" approach flies in the face of decades of Republican pro-trade policies and sentiments but dovetails with some elements on the left and in the Democratic Party.

Former U.S. president Barack Obama's administration was also pro-trade, as was Democratic presidential nominee Hillary Clinton



COLLIN PETERSON
HOUSE OF REPRESENTATIVES AG COMMITTEE

while she was senator and secretary of state, although Clinton began backing away from pro-trade statements during last year's election campaign as hostility to the Trans-Pacific Partnership and the North American Free Trade Agreement became dominant issues.

Most Republicans have not wavered in their support of ex-

panding free trade deals for the United States in general, and those representing farm country have often been most strongly in favour because exports are key to clearing large surpluses of many U.S. agricultural commodities such as corn, soybeans and pork.

Indeed, Trump's April 26 threat to kill NAFTA led to a successful flurry of Republican and farm organization lobbying of the White House to hold back from taking such a step.

Many were thrilled to finally have an agriculture secretary in place, which did not happen until April 24, to lobby for farmer and agriculture interests from inside the administration.

Sonny Perdue was reported to have immediately appealed to Trump to understand the negative impact that eliminating NAFTA

would have for American farmers, even taking a map of affected states to show him.

But some politicians in the Democratic Party have always been skeptical of trade, and that includes Peterson, who is considered a centrist on the political spectrum. His district in Minnesota contains many dairy farmers and he has been a long-time critic of NAFTA, voting against the deal when it was taken to Congress for approval.

"Some people are just waking up to find out what's in NAFTA," said Peterson.

"We allowed the Canadians to keep their supply management system in NAFTA. We let them block all of our exports to them in NAFTA."

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SEEDING DELAYED

» CONTINUED FROM PAGE 1

She estimates that one to 1.3 million acres remains to be harvested in Saskatchewan.

Friesen said farmers are getting into their fields a lot later than the last couple of years, when field work was happening in March and April.

The last two years seeding was five to 10 percent complete by now. This year it is under one percent, but that is closer to normal.

Many farmers in the southern portion of the province who are often seeding by late April can't get into their soggy fields, but it's better than the alternative.

"We've seeded into dust before, so we'll take it," said Friesen.

David Koroscil, manager of claim services with Manitoba Agricultural Services Corp., said most farmers in that province are usually seeding cereals by late April or early May. Crops such as soybeans and beans go in after the May long weekend.

He said there are soggy areas, such as western Manitoba, where seeding will definitely be delayed, but there is nothing alarming about how spring is unfolding in other regions of the province.

"It's early enough that if we get a good week to 10 days of sunny, windy weather here, a lot of crop can go in," said Koroscil.

"With the size of equipment now, you can put a lot of acres in, in a hurry."

The final seeding deadline for cereals is June 20, so there is plenty of time to get the crop in the ground.

Bender believes seeding in Alberta will proceed at a normal pace with the exception of some of the province's waterlogged areas, such as portions of the Peace region and the areas where a lot of the 2016 crop is still in the fields.

"I think for the most part it will be on time unless the weather really turns nasty here for a month," he said.

That doesn't appear to be in the cards, according to David Streit, meteorologist with Commodity Weather Group.

The cool, wet weather pattern of April that has slowed the warming up and drying down of the soil is expected to moderate after the first week of May.

Overall, May is forecast to have near to below normal precipitation. Saskatchewan is expected to be the driest of the three prairie provinces.

Moisture and temperature are both anticipated to be near to below normal for the summer months.

"Getting stuff to maturity is certainly a fear I would have looking at a seasonal outlook like this," said Streit.

"It's going to be a bit of a struggle."

It is super wet in the heart of the American Midwest, where some areas recently received up to 178 millimetres of rain over a seven day period.

"It's a pretty big setback as far as planting activity in the heart of the Midwest," he said.

The summer forecast calls for near to above normal precipitation and slightly below normal temperatures.

Streit was feeling good about winter wheat prospects before the crop was bent over by last weekend's snowstorm. He believes the U.S. spring wheat crop could lose ground to soybeans because it is wet in the Dakotas.

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DOING IT OLD SCHOOL | The chores must go on, even at Aggie Days displays in Lethbridge. Becky De Leeuw finishes milking a Jersey after a demonstration of cow milking for visitors. **SEE MORE PHOTOS FROM THE EVENT ON PAGE 48.** | BARB GLEN PHOTO

SPRING HARVEST

Alta. farmers want fast action

Remaining 2016 crops must be assessed quickly so 2017 seeding can begin, say producers

BY BARB GLEN
LETHBRIDGE BUREAU

Alberta farmers are asking for expedited assessment of their unharvested 2016 crops so they can deal with them and start on 2017 crops when weather permits.

In a conference call April 26, commodity groups under the banner of Team Alberta asked Alberta Agriculture Minister Oneil Carlier and senior officials with Agriculture Financial Services Corp. to consider writing off crops by area rather than insist on field by field assessment.

Under crop insurance rules, no adjuster needs to visit if farmers intend to harvest their 2016 crops for the insured purpose. If they put it to another use, such as livestock feed or simply tilling it under, an inspection is required before triggering insurance payout.

"That's why we all have crop insurance," Alberta Barley chair Jason Lenz said about risk management.

"But it's to the point now where it's not about how much we're going to actually get from crop insurance. It's more about how much we're going to lose in dealing with these unharvested acres and the potential loss of not getting the 2017 crop in the ground. We're more concerned about how much we're going to lose and try to keep that to the very minimum."

Carlier said last week that he has asked AFSC to "streamline inspection procedures to assist insured producers in completing planned harvests. I've also asked that the agency be prepared to move quickly if conditions don't improve."



Attempts at harvesting overwintered crops, including this field photographed southwest of Sylvan Lake, Alta., April 25, left deep ruts that filled with water after a series of snowstorms. | BRENDA KOSSOWAN PHOTO

Team Alberta says AFSC and the government confirmed they've done that so inspectors can make quicker decisions.

Lenz said speed will be required, given that commodity groups were told 130 inspectors may have to examine up to one million acres of 2016 crop either

standing or in swath.

Even in the best-case scenario of hot, drying weather, it would take those inspectors two weeks to do that job, said Lenz, which takes the process into mid-May.

"After those farmers have that assessment, then they still have to get out and deal with that crop

that's out there and prepare the field for this season and then actually plant for this season.

"So we're talking closer to the third week or later in May, and that's getting on the late side to get crops in the ground."

Wildlife and mice have enjoyed the crop buffet all winter, and some farmers are reporting heavy damage. A few who have managed to combine the 2016 crop have threshed large numbers of mice, making the grain even less palatable than it was already.

As well, Lenz said he has heard that some canola crushers will not accept any spring-threshed crop, so farmers are taking it to grain handlers where there are challenges blending it up to a decent level.

"There's all sorts of these difficulties that farmers are running into," he said.

Kevin Bender, vice-chair of the Alberta Wheat Commission who farms at Bentley, said the situation "is becoming a little more urgent all the time. It's not critical right now but it's not far from there."

Added Lenz: "This could very quickly turn into a two-year disaster, a two-year loss for these producers — loss of production and obviously financial loss."

Another conference call with the minister was planned for this week to keep him abreast of the issue.

Team Alberta comprises Alberta Barley, the Alberta Wheat Commission, the Alberta Canola Producers Commission and the Alberta Pulse Growers Commission. Together they represent about 43,000 farmers.

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CARBON TAX

Trudeau talks carbon while touring Saskatchewan farm

Prime minister urges farmers to adapt to climate change

BY KAREN BRIERE
REGINA BUREAU

GRAY, Sask. — Prime Minister Justin Trudeau eagerly climbed into the sprayer and combine and got down to the ground to examine an air drill during his visit to a Saskatchewan grain farm last week.

Rural Saskatchewan didn't wait for him, but those on hand to witness his enthusiasm and many questions about the technology couldn't help but smile. He was like the proverbial kid in a candy store, some remarked.

"I might have to have him back for harvest," laughed Todd Lewis, president of the Agricultural Producers Association of Saskatchewan and one of the hosts.

Lewis, his father, Don, and brother, Rod, were happy to show the prime minister around the farm — Trudeau had specifically asked to see a canola farm after dealing with trade irritants with China last fall — and help him understand modern agriculture.

Federal Agriculture Minister Lawrence MacAulay and Public Safety Minister Ralph Goodale were also there.

"He gets that technology is a pretty big part of modern agriculture, and precision agriculture is the future," Lewis said.

"We're not just out there throwing seeds on the ground by hand anymore. It's big business."

However, what he and more than 100 farmers and local residents who packed the Gray Recreation Centre after the tour hope Trudeau really understands is how much a carbon tax will affect them.

The prime minister defended his decision to impose a \$10 per tonne tax as of next Jan. 1, which will rise to \$50 per tonne by 2022.



Gray, Sask., farmer Rod Lewis explains a combine header to Prime Minister Justin Trudeau during a visit to the Lewis farm April 27. | KAREN BRIERE PHOTO

Trudeau said farmers know how technological improvements over generations have already helped them become more efficient, use

less fuel and reduce emissions.

"How we innovate, how we get more efficient, how we work towards a country and businesses

that are less polluting and more efficient is something that every farmer gets," he told the crowd.

He said the changing climate and

more extreme weather events, including periods of heavy moisture such as that which extended last fall's harvest, are undeniable, and farmers have to adapt.

Everyone has a responsibility to pollute less, and putting a price on carbon encourages that, he said.

"So it's a market-based solution that encourages more of what we want, which is savings and efficiencies, and less of what we don't want, which is pollution," Trudeau said.

"This is something that I know represents a change, represents a bit of a shift, but it's one that I truly believe we need to do."

The prime minister also said that a room full of farmers certainly understands that what's good for the environment can't be separated from what's good for the economy.

However, few farmers agree that a carbon tax will really do what Trudeau believes it will do.

Lewis said it has already proved to be a detriment to some agricultural sectors in other provinces that can't compete with imports from countries that don't have a tax. He said the industry can't be taxed without recognition for what it's already done, such as no-till, and for what hasn't yet been measured, such as the sequestration of carbon in pasture and grasslands.

"Intuitively, farmers recognize (if) you burn fuel, you spend more money," he said.

"For years we've been on the carbon bandwagon just from the practices we do. It wasn't about saving carbon. It was about being efficient and growing better crops, and that's what we've done."

"Low carbon agriculture, it was born in Saskatchewan, we're improving it constantly. We need to get the recognition for that."

Jack Froese, president of the Canadian Canola Growers Association, said the government must find a way to neutralize a carbon tax on producers.

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LIVESTOCK HEAD TAX RULED LEGAL

» CONTINUED FROM PAGE 1

Lethbridge County Reeve Lorne Hickey said the municipality is happy that the head tax survived the legal challenge brought by nine feedlot owners. It was implemented to fund road and bridge improvements.

The business tax, generally referred to as a head tax in county circles, generated \$1.855 million for the county last year, and of that \$1.7 million — 91 percent of the total — was from beef feedlot operations.

The special tax, now ruled non-compliant, generated \$694,286.

Feedlot owners plan to appeal the ruling, said Rick Paskal, president of Van Raay Paskal Farms Ltd. and one of the litigants.

"We don't think that we can afford not to, and the message that is being sent to the industry is, this is not a place where you want to invest money, in this province," said Paskal.

He said county councillors "have a high degree of animosity" toward the cattle feeding industry despite its economic contributions to the

county, province and country and warned that the county tax could force closure of feedlots and possibly one of the two federally inspected packing plants in Alberta.

"It's a sorry, sorry, sorry day for Alberta agriculture, for the cattle industry in Alberta. We'll keep appealing this."

The Alberta Cattle Feeders Association (ACFA) has lobbied the provincial government to address the tax situation in its current review of the Municipal Government Act.

Alberta Beef Producers has also spoken against the head tax in Lethbridge County, suggesting it could hurt the long-term viability of the industry.

The head tax and special tax were imposed to raise money for infrastructure when provincial funding was not available, said Hickey.

The government has now reinstated its Strategic Transportation Infrastructure Program (STIP), which earmarks \$100 million province-wide over the next two years.

"We have applied to STIP for roads and bridges," said Hickey.

"Unfortunately, when you consider the entire province, that's very little dollars to go around, but it's more than what we had before, because for the last three years we've had zero dollars."

Hickey acknowledged that other Alberta municipalities have been monitoring the head tax and its court challenge, potentially with the view of imposing similar taxes.

They are also monitoring the NDP government's review of the Municipal Government Act now underway.

"I think everybody's kind of waiting to see just exactly, in the Municipal Government Act review, what's going to come out. I know there hasn't been anything on agriculture so far, but I think potentially in the fall there may be some movement there, but not in this sitting currently," Hickey said.

"So I think everybody's kind of waiting to see what happens, and being an election year, I don't know whether anyone will throw that into their tax regime or not. I think it depends on your community and how things are operating."

County council recently moved

to reduce the head tax in 2017 to \$2.50 per animal unit, a change from previously stated intentions to increase it to \$4 this year and possibly more in subsequent years.

"There's (municipal) elections this fall," said ACFA chief executive officer Bryan Walton, in response to news of the head tax reduction for 2017.

The ACFA will continue to seek tax changes at the provincial level, he said, seeking taxes that are fair, equitable and transparent.

The association succeeded in reigniting a working group on rural municipal taxation, he added, and commissioned an independent study of the county business tax and its effect on confined feeding operations.

The latter report, still in draft form, brought two things into focus, he said.

"One was that feedlots will close, and the second thing is that we've seen nowhere else in the cattle feeding jurisdiction where this kind of tax is applied."

"So you have to think about the bigger picture. You have to think about competitiveness, and you

can't just assume that these additional costs can just be absorbed in a margin business. And that's the troubling part about this, is that there's the economic engine, you're taxing the economic engine. The preponderance of burden is carried by the cattle feeders."

Paskal agreed the provincial government must alter the MGA to curb municipalities' abilities to impose special levies.

"It will kill our industry," he said.

"It makes me sick right now, the authority, the power that this premier, that that NDP government, what they're doing here. They will totally destroy the value-added sector that we've worked so hard to build up here."

The other litigants in the case involving Lethbridge County, in addition to VRP Farms, are John Schooten and Sons Custom Feedyard Ltd., Grandview Cattle Feeders Ltd., G. Thompson Livestock Co. Inc., 6a Cattle Company Ltd., Adrian Dewilde, K. Wever and Sons Farms, Monarch Feeders Ltd. and 589494 Alberta.

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MARKETS



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Two oilseed crushing plants in China plan to switch to canola, hoping to improve their profitability. | REUTERS PHOTO

CANADIAN EXPORTS

China's canola demand may rise

At least two large oilseed crushing plants in China are expected to switch to canola from soybeans

BY SEAN PRATT
SASKATOON NEWSROOM

Expect an extra one million tonnes of canola demand from China in 2017-18, say two exporters.

Two large soybean crush facilities are being converted into canola processing plants and a third could follow suit.

Late last year, the Chinese government granted approval for a switch plant located along the Yangtze River in Nantong, China, to start processing canola.

Bunge is also on the verge of receiving final permits to switch its soybean plant in southern China to processing canola. The approval is expected by the end of May.

Jarrett Beatty, trading manager with Parrish and Heimbecker, believes the two new plants will boost Chinese demand to five million tonnes in 2017-18 from an estimated four million tonnes this year.

The lion's share of that additional demand will go to Canada.

A third switch plant has put in an application with the Chinese government, but it's uncertain where that sits in the approval process. If approved, it would boost demand even further.

Beatty said the plants would switch back to soybeans if canola proved unprofitable, but it is not a trivial process to flip back and forth, and given that the companies that own the plants made the

RISING IMPORTS

China is expected to need an additional million tonnes of imported seed, most of which would likely come from Canada.

Canada canola exports to China, calendar year. (million tonnes)

2012	3.04
2013	2.97
2014	4.03
2015	3.97
2016	3.62

Source: Statistics Canada

investment to switch to canola processing, he doubts they will go back to soybeans anytime soon.

"Their intent for these plants is to crush canola going forward. It's a good news story, for sure," he said.

"You're really seeing China establish itself as the premier market for Canadian canola seed."

As well, there is potential for more switch plants to start focusing on canola because it has proven more profitable for crushers than soybeans over the long term.

"I don't think it ends here," he said.

Glen Pownall, managing director of Peter Cremer Canada, agrees with the assessment of an additional one million tonnes of annual canola demand from China.

However, the market is quiet at the moment. End users are well covered for old crop through

August, and there hasn't been any new crop interest for months because of poor margins in China's canola crushing sector.

Margins are poor because Canadian supplies of old crop canola are tight, driving up the cost of seed, and because the Chinese government has been auctioning off its substantial reserves of rapeseed oil.

Pownall is forecasting a small export program to China through August because of the rapeseed oil auctions, but he believes demand will pick up once Canada starts harvesting its 2017 crop because the Chinese government has already put a big dent in its reserves.

"They went through a lot. I think the balance of what they have they will hold onto for a while," he said.

Pownall's margin calculations indicate that switch plants are better off crushing soybeans right now.

However, the dynamic will change once the Chinese government stops flooding the market with its stocks of domestic rapeseed oil.

"We are hoping that by the time our harvest comes around those stocks will be more under control and we'll be able to start putting lots of canola into China to serve all of the crush capacity that has been added," he said.

It appears as though the supply will be there to meet the additional demand. Canadian growers told

Statistics Canada they intend to plant a record 22.4 million acres of canola, up 10 percent from last year.

Pownall said the market appears to be well balanced for 2017-18.

There is not going to be a lot of Chinese rapeseed to compete with imported canola from Canada and Australia.

According to a story on china.com, a report published by the derivatives research centre of the Orient Futures calls for Chinese rapeseed production to fall below four million tonnes, down from 4.6 million tonnes last year.

That is much lower than the U.S. Department of Agriculture's 2016-17 China canola estimate of 13.5 million tonnes.

Pownall said the USDA number is out to lunch because it is based on a Chinese government estimate that is laughable.

He believes the 4.6 million tonne estimate and thinks it will remain around that level this year.

"That's what I'm assuming right now until they start getting into the fields and harvesting," said Pownall.

It does not matter what the number is because small processing plants in the country's interior consume most of China's production. Very little makes its way to the port facilities that rely on imported canola.

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WEATHER

U.S. hard red winter wheat battered by snow, rain

Winter canola was also flattened

BY D'ARCE MCMILLAN
SASKATOON NEWSROOM

A major spring blizzard hit the hard red winter wheat region of the United States southern plains on the weekend causing snow and frost damage.

July Kansas hard red winter wheat futures rallied more than 6.5 percent on May 1.

That rally helped push Minneapolis spring wheat July futures up about two percent.

The extent of the damage to the hard red winter wheat crop was hard to initially determine.

The snow, 20 to 36 centimetres according to local radio news reports, covered a large part of the western third of Kansas, western Nebraska and the Oklahoma panhandle.

Farmers on Twitter were showing photos of standing crop flattened by the heavy, wet snow. Lodging and stem breakage are expected to be big problems.

Whether wheat plants will be able to produce new tillers to offset the damage is unknown.

Temperatures also fell below the freezing point for several hours.

Damaged, wet crop could be more susceptible to disease.

Winter canola that was blooming was also flattened by snow.

Kansas is the biggest winter wheat producing state.

The Wheat Quality Council's annual hard red winter wheat tour was set to begin May 2 and it was expected to help clarify the amount of damage from the storm, although frost damage could take a week or more to become evident.

The system also dumped heavy rain on Missouri, Illinois and Indiana causing field flooding. The same area is expected to get another 25 millimetres or more of rain on May 4.

Significant rain also fell in most of the rest of the Midwest and delayed seeding.

Wheat futures are also getting support from concerns about dry weather in Western Europe.

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





High vomitoxin durum is finding a market as the spring harvest provides crop to blend with. | FILE PHOTO

DURUM MARKETING

Spring harvest creates blending opportunity

BY BRIAN CROSS
SASKATOON NEWSROOM

Selling durum with high mycotoxin levels is neither the most pleasurable marketing exercise for Saskatchewan grain growers, nor the most profitable.

However, with spring seeding underway, it's a good feeling nonetheless to get bins cleaned out and to find a home for high-vomitoxin grain that's using up valuable storage space.

Jason Skinner, manager of North West Terminal in Unity, Sask., says there are marketing opportunities for spring harvested cereals and high-vomi grain.

NWT has been taking deliveries of high-vomi durum and blending it with spring harvested cereals.

The blended feed is being sold domestically and to export buyers.

"When it comes to mycotoxin levels, we're reasonably flexible," said Skinner.

"We've got quite a bit of red spring wheat that's being harvested up here (around Unity) this spring and it tends to be quite low in mycotoxins... so there's a bit of an opportunity for us where we can take deliveries of high-mycotoxin durum, blend it with lower-mycotoxin spring wheat and move it into various domestic and export markets for feed."

Growers in the Unity area entered 2017 with a significant number of unharvested acres left over from last year.

Saskatchewan Crop Insurance Corp. recently published a map that estimates the number of unharvested acres in each Saskatchewan township.

One of the heaviest concentrations of unharvested material in Saskatchewan is an area that stretches about from Kindersley and Biggar in the south, through the Kerrobert and Luseland areas and up to Unity in the north.

Skinner said there will be a lot of spring-harvested wheat around Unity this year.

"In our region, generally the vomitoxin has been very low on

that," he said.

"Vomitoxin was not an issue, but anything that's harvested this spring will be feed grade ... so we have a lot of what I'd call good quality feed wheat in this area."

Vomitoxin levels in durum were generally high last year.

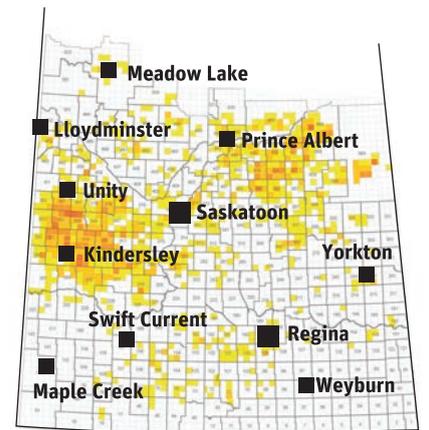
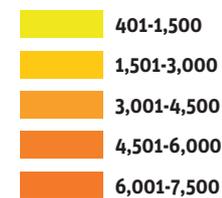
depends largely on the type of livestock being fed.

Hogs are generally the most sensitive to vomitoxin, while beef and slaughter poultry are more tolerant.

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SASKATCHEWAN'S STANDING 2016 CROP

Unharvested acres of 2016 crop, by township



Source: Saskatchewan Crop Insurance Corp. | WP GRAPHIC

EXPORT BUYERS
WILL ACCEPT
VOMITOXIN LEVELS
IN FEEDGRAIN OF

5%

Through blending, spring-harvested wheat that has low mycotoxin readings will provide an outlet for some high-vomi cereals that otherwise might have proven difficult to move.

Skinner said some export buyers will accept up to five percent vomitoxin in feed grain.

The maximum allowable level

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PEA PRODUCTION

Little impact from spike in Black Sea pea output

The 30 percent increase in production over 2016 will be offset by a decline in North American supply, says analyst

BY SEAN PRATT
SASKATOON NEWSROOM

There will likely be a dramatic surge in Black Sea pea production this year, but it should not affect Canadian prices that much, says an analyst.

APK Inform, a Ukrainian agribusiness consulting firm, is forecasting Ukrainian farmers will plant 926,250 acres of peas, a 57 percent increase over 2016.

It is projecting 973,000 tonnes of production, a 30 percent bump over the previous year.

That will mean more exports from a country where shipments already saw a huge increase this crop year.

APK estimates 500,000 tonnes of pea exports in 2016-17, a 114 percent increase over the previous year.

Chuck Penner, analyst with Left-Field Commodity Research, says most of Ukraine's peas find their way to India and other countries in South Asia.

He believes the report of the huge jump in Ukraine's pea acres is quite plausible, given the recent trend in that country.

"They're really focusing more on the export market and exportable crops," said Penner.

He has heard anecdotal reports that acres and production will also be up in Russia. The country har-

vested 2.2 million tonnes of the crop last year, making it the world's second largest producer behind Canada.

However, Penner isn't overly concerned about the growth in Black Sea pea exports in 2017-18 because North America is expected to have a smaller crop.

He is forecasting four million tonnes of Canadian production. That is down from the official estimate of 4.8 million tonnes last year, which Penner believes should actually be five million tonnes.

So that would be a 20 percent decline in Canadian production, mostly green peas.

The U.S. Department of Agriculture is forecasting 1.14 million acres of peas in that country, a 17 percent drop from the previous year.

The decline in North American production will more than offset the increase in Black Sea peas.

"We're going to have a nice, well-supported price assuming average yields," said Penner.

However, there is reason to be

**UKRAINE'S 2017-18
PEA PRODUCTION IS
EXPECTED TO RISE
30 percent**

concerned about the long-term potential for the Black Sea region to increase its share of a market that has been dominated by Canada.

"It's something to keep watching, for sure," he said.

Growers in Ukraine and Russia are responding to attractive pulse prices and are keen to diversify their crop mix. However, they are also expanding their corn and soybean acres.

"Peas will have to compete for acres there," said Penner.

"It won't just grow unhindered."

Another mitigating factor is the continued growth in pulse consumption in India.

"The Indian market is growing all the time. It's still expanding, so there's room for everybody in there," said Penner.

Russia and Ukraine are not big lentil growers, but Kazakhstan is becoming one. The country's first vice-minister of agriculture is forecasting 500,000 acres of lentils this year, which would make Kazakhstan the fifth largest producer and fourth largest exporter of the crop.

In a recent story on the BNews.KZ website, the vice-minister said exporting lentils is profitable and that Kazakhstan has a logistical advantage over Canada in shipping lentils to India and Pakistan.

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The Canadian pea forecast is pegged at 20 percent lower than last year and U.S. estimates are 17 percent lower. | FILE PHOTO

MEAT SECTION DATA

Consumers developing hunger for meat again

MARKET WATCH



D'ARCE McMILLAN

Much is made of the growth of vegetarianism in North America, but domestic meat consumption data indicates that most people in Canada and the United States still have a taste for beef, pork and poultry.

Jim Long of Genesis Genetics, a pig genetics company, often has interesting observations about the pork industry around the world.

In a recent post, he noted that the U.S. Department of Agriculture's red meat and poultry disappearance report projected that domestic meat disappearance would rise to 88.751 billion pounds, up four billion lb. from 2015.

That is great news for anyone who works in the meat and livestock business, including Long.

"Anyone who lives in the fantasy world that vegetarianism is taking



All meat consumption in the U.S. is rising again after a slowdown about 10 years ago. | FILE PHOTO

over needs to give their head a shake. Meat lovers are ever increasing their consumption," Long wrote.

On a per person basis, red meat and poultry disappearance at the retail level is projected to rise to 217.8 lb., up 3.2 lb. from 2016 and up 6.7 from 2015. Disappearance has a specific meaning, but for our purposes it means consumption.

About 10 years ago, total red meat

and poultry consumption in the United States on a per person basis was going through a downturn, but it started rising again in 2014.

In 2017, red meat and poultry are almost tied in what Americans eat.

Of the total in 2017, Americans consumed 57.1 lb. of beef and 50.8 lb. of pork for a red meat total of 107.9.

Total poultry consumption was

107.4 lb.: 90.4 lb. of chicken and 17 lb. of turkey.

And bringing up the rear was lamb and mutton at just one lb. a year.

Beef has lost a lot of ground in consumption over recent decades, but that was picked up by poultry.

In 1990, beef domestic consumption was 67.7 lb., about 10 lb. more than today, and chicken was only

59.5 lb., about 30 lb. less than today.

However, while there has been a shift in the types of meat consumed, the total amount has risen. All red meat and poultry U.S. consumption in 1990 was 199 lb., 19 lb. less than in the current year.

The latest numbers for Canada are for 2015 so it is hard to know if the rebuilding of meat consumption seen in the U.S. is happening here, but the experience on either side of the border is usually similar.

In recent years, the meat industry has been forced to address rising consumer concerns for animal welfare and health.

Also, development of plant-based protein products with taste and texture similar to real meat can't be ignored. Maple Leaf Foods spent \$140 million this year buying Lightlife Foods, a leading maker of plant-based protein foods in the U.S.

Nevertheless, livestock and meat producers have to be cheered by these domestic consumption figures, which show the home audience is still captivated by the unmistakable flavour of real meat.

Follow D'Arce McMillan on Twitter @darcemcmillan or email darce.mcmillan@producer.com.

PRAIRIE PRODUCTION

Organic crops poised to take off, says official

Strong demand from American food manufacturers is fuelling the switch from conventional to organic production

BY SEAN PRATT
SASKATOON NEWSROOM

The Prairie Organic Grain Initiative has released statistics for 2015 and while there was no growth in organic acres that year there will be in the future, says the association.

The 1,342 primary producers in the prairie region seeded 1.41 million acres in 2015, which is about the same amount as the previous year.

In fact, organic acres haven't increased at all since 2009, despite surging demand for organic food.

But that's about to change, said Becky Lipton, program director for POGI.

"Certifying bodies are telling us that they have larger numbers of farmers in transition than they've ever had before," she said.

Land in transition has been on the rise from 2013 to 2016, but due to the three-year transition process it won't show up in statistics until 2016.



BECKY LIPTON
PRAIRIE ORGANIC GRAIN INITIATIVE



Organic growers often experiment with companion cropping, like wheat and flax pictured here. | FILE PHOTO

Lipton said the amount of land devoted to organic production is rising due to strong and consistent demand for organic food out of the United States, as major manufacturers like General Mills offer organic product lines.

"From all of the conversations I've had with American buyers, they expect that to continue to grow," she said.

Which is why it is odd that there was a big drop in the number of processors and handlers operating in the Prairies. The number fell to 160, a 29 percent decline from the previous year and the lowest total

in many years.

"We're actually looking into it," said Lipton.

"It's possible that it is just around reporting and how we collect information from our certifying bodies."

While acres were static in 2015, there were 61 more primary producers added to the mix that year, a five percent increase compared to the previous year.

Lipton said the number of farmers increased but the land base did not because new organic farmers tend to transition only small portions of their land base at first.

"This is because there's a large

learning curve when you start farming organically," she said.

The vast majority of organic operators are crop producers. Prairie acreage is split between field crops and pasture and forage.

Three-quarters of the 662,252 acres of field crops are cereals with 229,375 acres of wheat and 153,444 acres of oats leading the way. Pulse and oilseed acreage is small by comparison.

Lipton said wheat and oats are popular choices because they are competitive crops that do not require a lot of inputs in conventional operations.

The cereals tend to deliver good yields and organic wheat is less susceptible to fusarium than its conventional counterpart. And there is good demand for wheat and oats in organic cereals, cereal bars and bread.

Organic farmers planted twice as many peas than lentils in 2015, while pulse acreage tends to be more evenly split in conventional operations.

That is because most of Alberta's organic farmers are located in the central and northern parts of the province, which is not conducive to lentil production.

In fact, if farmers in transition are taken into account, half of Alberta's organic farmers are located in Mackenzie County in the extreme northwest corner of the province.

Lipton does not know why organic farming is so popular in that one county but she thinks it may have something to do with a culture of sharing, where farmers talk about how much money they are making with organics and how to make the transition.

There is also an abundance of land in that area that has never been farmed and is suitable for organic production.

But in terms of total organic acres, Saskatchewan leads the way, accounting for 63 percent of prairie acres, followed by Alberta with 30 percent and Manitoba with the remainder.

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CANFAX REPORT

FED CATTLE HIGHEST OF YEAR

Tight market-ready cattle and beef supplies pushed cash and Chicago cattle price sharply higher.

Fed steers in Western Canada averaged \$177.42, up \$2.37.

Alberta dressed sales were in the mid to upper \$290s delivered. Buyers said cattle would be lifted in two to three weeks.

Cattle priced for delivery more than 30 days out were \$6-\$8 lower.

U.S. packers were looking for quick delivery cattle, but Canadian cattle were generally too green to be sold south.

Western Canadian steer carcass weights are 83 pounds lighter than last year, and heifers are 19 lb. lighter. That is lowering the amount of beef produced.

Weekly Canadian fed slaughter was up 15 percent, but the amount of beef produced was up only nine percent.

The lighter cattle are leading to an increase in yield grade 1 cattle. Yield grade 1 cattle as a percentage of all yield grades in Western Canada was at 37.5 percent, the highest since the end of July.

Western Canadian heifer slaughter came in just short of 20,000 head, the most since April 2014.

Early May traditionally sees the strongest basis of the year.

The market is seasonally transitioning from yearlings toward calves. With few calves and feeders exported to the United States in the last two quarters, fed supplies in Canada are expected to increase

into the second half of this year.

In 23 of the past 30 years, fed prices have weakened from April to May.

In the U.S., dressed sales in the north were up US\$3-\$7 and in the south the live price was up \$5. Fed prices were the highest since March 2016. Carcasses in the U.S. are 25-30 pounds lower than this time last year.

COWS STRONGER

D1, D2 cows ranged C\$100-\$116 to average \$107.75, up 75 cents. D3 cows ranged \$89-\$105 to average \$96.17.

Rail grade cows ranged \$202-\$208 delivered, up \$1-\$2.

Butcher bulls fell \$2 to average \$123.50. Western Canadian non-fed slaughter to April 22 was running seven percent ahead of last year at 124,795 head.

Exports for the year are down 28 percent at 57,297 head.

Retailers are starting to buy for the grilling season.

Non-fed supplies will seasonally tighten, supporting prices.

FEEDERS STRONGER

Strong fed prices and limit up cattle futures propelled Alberta feeder prices sharply higher.

Stocker calves jumped \$8-\$10, while 500-600 lb. calves rose \$1-\$2.

Feeders 600-800 lb. saw enhanced eastern Canadian and U.S. buying competition, and prices surged \$7-\$7.50. Feeders heavier than 800 lb. rose \$1-\$6.

The weekly auction volume surged to 24,651 head. For the year, it is up 16 percent at 494,864 head.

Favourable pasture conditions are fuelling grass cattle demand in Canada and the U.S.

Aggressive fed cattle marketings have opened up feedlot pen space, and lofty cattle futures could provide feedlot managers with profitable forward pricing opportunities.

U.S. BEEF STRONGER

U.S. Choice cutouts last week rose US\$3.43 to \$219.15 per cwt., and Select climbed \$3.11 to \$206.68.

Prices exceeded year-ago levels by two to three percent. Seasonal demand for grilling items is supporting middle meat prices.

Weekly Canadian boxed beef prices to April 22 fell with AAA down C\$3.38 at \$279.29 and AA down \$2.89 at \$268.21.

The AAA/Choice spread was at -\$11.43 per cwt., weakened from +\$3.98 a week ago and -\$1.38/cwt. last year. The cutouts were one to two percent lower than last year, but that could change because fed cattle prices have exceeded year-ago levels.

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.

WP LIVESTOCK REPORT



HOGS LEVEL OUT

After many weeks of lower prices, U.S. cash hogs bottomed out on hopes that the usual seasonal tightening of supply has begun.

The U.S. national live price average for barrows and gilts was US\$43.25 per cwt. April 28, up from \$42.80 April 21.

U.S. hogs averaged \$56.21 on a carcass basis April 28, up from \$53.41 April 21.

The U.S. pork cutout was \$74.46 per cwt. April 28, down from \$75.47 April 21.

The estimated U.S. weekly slaughter for the week to April 29 was 2.290 million, up from 2.287 million the previous week.

Slaughter was 2.136 million last year at the same time.

In Canada, the April 29 Signature Five price was C\$142.41 per 100 kilograms, down from \$143.36 the previous week.

On a per hundredweight basis, the price was \$64.60, down from \$65.03 the previous week.

BISON STEADY

The Canadian Bison Associa-

tion said Grade A bulls in the desirable weight range sold at prices up to C\$6.30-\$6.50 per pound hot hanging weight.

U.S. buyers are offering US\$4.75 with returns dependent on exchange rates, quality and export costs.

Grade A heifers sold up to C\$6-\$6.30. U.S. buyers are offering US\$4.50.

Animals outside the desirable buyer specifications may be discounted.

POST EASTER PRICES

Beaver Hill Auction in Tofield, Alta., reported that 336 sheep and 59 goats sold April 24.

Wool lambs lighter than 54 lb. were \$215-\$275 per cwt., 55-69 lb. were \$240-\$270, 70-85 lb. were \$231-\$270, 86-105 lb. were \$203-\$230 and 106 lb. and heavier were \$199-\$210.

Wool rams were \$90-\$102 per cwt. Cull ewes were \$90-\$175.

Hair lambs lighter than 54 lb. were \$200-\$269 per cwt., 55-69 lb. were \$230-\$254, 70-85 lb. were \$220-\$245, 86-105 lb. were \$188-\$200 and 106 lb. and heavier were \$187-\$195.

Hair rams were \$85-\$115 per cwt. Cull ewes were \$102-\$127.

Ontario Stockyards Inc. reported that 842 sheep and lambs and 40 goats traded April 24.

All lambs sold at prices back to the pre-Easter trade. Sheep and goats sold steady.

CANADA, U.S. TRADE

Dairy tirade from U.S. won't finish supply management

In a curious way, the brinkmanship practised last week by U.S. President Donald Trump over the North American Free Trade Agreement should pay off for Canada.

When we look at what happened when Trump took control over the softwood lumber file — last week, he enacted an average import duty of 20 percent — steering NAFTA away from his erratic disposition and placing it in the hands of capable negotiators will allow both sides to grasp the nuances and ramifications of any changes. (Does Trump understand that he just made building and renovating houses more expensive for Americans?)

NAFTA has been simmering since Trump took power, with the president threatening throughout his campaign and last week to pull out of the agreement. He apparently backed off from an executive order doing just that after talking to Mexican President Enrique Peña Nieto and Prime Minister Justin Trudeau. By bringing the issue to a boiling point, Trump was forced to make a decision to back off and let the negotiators take over.

That is a good development.

It should also be noted that country-of-original labelling laws in the United States — which the World Trade Organization agreed have cost the Canadian livestock sector \$1 billion annually — is another area of concern. Having won the argument at the WTO, which resulted in COOL being repealed in December 2015, Canada faces another battle with Trump.

A lot of Republicans will never accept pulling out of NAFTA. Trade between the three countries totals \$1.1 trillion annually. Agricultural trade between the U.S. and Canada is \$47 billion.

Agriculture Canada says every \$1 billion the U.S. exports in that sector supports almost 7,600 American jobs and \$1.2 billion in economic activity. U.S. Census Bureau numbers show that Canada is the top export destination for 35 U.S. states.

Agricultural and agri-food trade between

the U.S. and Canada has tripled since NAFTA was enacted in 1994, resulting in specialization and integration of supply chains. U.S. feedlots and meat packers rely on Canadian livestock, and U.S. crushing plants need oilseeds from Canada. American and Canadian companies sell their agricultural machinery across borders.

U.S. negotiators will be aware of all of this, even if the president isn't.

The trade issue has blown up because of an oversupply of milk in the U.S. and a change in Canadian policy affected Wisconsin dairy farmers. Trump reacted as he does, capriciously, without knowing the details — that the U.S. dairy trade surplus with Canada is \$400 million. Now, Canada's supply management regime — which governs dairy, poultry and eggs — is under pressure again.

Canada has shown an inclination to address international concerns over supply management. Under the now defunct Trans-Pacific Partnership, Canada was prepared to allow limited international access to our dairy market (3.25 percent), while compensation of \$4.3 billion was provided to dairy producers. That, in turn, allowed Canada to negotiate more favourable terms in other areas of trade in the TPP.

That may happen again, but supply management will survive these talks. It has always survived trade negotiations; the only difference now is that there is a boisterous voice in the White House.

Trade policy will remain a domestic issue. Given that the leading candidate for the Conservative party leadership, Maxime Bernier, is in favour of ending supply management, and that Trudeau has spoken in favour of retaining it, that debate will take place in Canada. Ultimately, the decision on whether to end supply management, if that ever comes, will be made by Canadians.

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

CRAIG'S VIEW



FARM ECONOMIC OUTLOOK



I think it's more realistic to expect that the next 10 years will not necessarily look exactly like the past 10 years. The past 10 have been influenced by really strong prices.

J.P. GERVAIS,
FARM CREDIT CANADA, PAGE 15

PACKED AGENDA

Clock ticks down on Liberals' chances of passing policies

CAPITAL LETTERS



KELSEY JOHNSON

It's crunch time in Ottawa.

With a maximum of seven weeks left in the official parliamentary calendar, the Liberals still have a long legislative to-do list; one that could easily be complicated by disgruntled senators and opposition MPs.

Technically, the House of Commons could adjourn for summer recess as early as June 9.

However, the parliamentary calendar allows for two extra sitting weeks, with extended hours to

wrap up the spring agenda.

The Senate typically sits until the end of June.

A glance at the Liberal priority list suggests it's unlikely MPs will head home for the summer on June 9.

First on the parliamentary agenda is dealing with the budget, which has barely been debated. The legislation, which must be passed before Parliament adjourns for summer, hasn't yet been referred to committee.

As of press time May 1, MPs were still debating a privilege motion that dates back to an incident on March 22. The House was supposed to start three days of debate on the budget May 1.

In addition to the budget, Canada's ratification of the Comprehensive Economic and Trade Agreement (CETA) with Europe continues to meander through Parliament. The legislation is being scrutinized by the Senate

trade committee.

Ottawa said it hopes that trade deal will be in force by summer, a deadline that depends almost entirely on the Senate, which has adopted an independent streak in recent months.

Trudeau booted Liberal senators from caucus in 2014. Since then, the Senate has stalled several pieces of legislation, which the Liberals have no official way of redressing.

Then there's the missing action on the grain transportation file, which still hasn't made Parliament's official notice paper or been presented to cabinet.

The current legislation expires July 31.

The official line in Ottawa is the new replacement legislation will be presented to the House this spring.

Transport Minister Marc Garneau's office has refused to give a more specific date.

But Garneau has repeatedly said the legislation will be in place by the time the current legislation expires. For his part, Agriculture Minister Lawrence MacAulay has said Ottawa will ensure grain continues to move to port.

How they plan to achieve that remains unclear because the legislation has yet to be cleared by cabinet, sources say, and parliamentary rules stipulate that the House requires several days notice before the bill can be tabled in the House.

Yet so far, grain transportation hasn't even been mentioned when the government outlines its plan for the following week. Even once it's tabled, an ongoing spat between government and the official opposition, which has brought votes at odd hours and lengthy debates on various motions and points of order, has delayed legislative debate.

Garneau's suggested timeline for the end of this parliamentary session would require committees to sit for extended hours — meetings that are almost guaranteed to be disrupted.

Meanwhile, MacAulay has said it's possible that government may extend the current grain transportation legislation for one more year, but he gave no firm commitment.

Canada's agriculture ministers will gather in Ottawa May 10 for their spring meeting where the delay on the grain transport file is expected to be raised.

The last thing prairie agriculture ministers want is a repeat of the \$5 billion grain logistics crisis from three years ago.

The federal government line that "it's coming in spring 2017" likely won't cut it.

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

& OPEN FORUM

GOVERNMENT SUPPORT

Agri-tourism boosts rural communities

BY PAUL PRYCE

Canada is the world's fifth largest exporter of agriculture and agri-food products, with export sales reaching \$51.5 billion in 2014.

Of this, 58.3 percent came from Manitoba, Saskatchewan, Alberta and British Columbia, yet federal and provincial governments have paid little attention to promoting agri-tourism in the region.

Agri-tourism involves a wide range of tourist activities, from farm visits and pick-your-own orchards to petting zoos, farmers' markets and distillery tours. Such activities can provide a valuable revenue stream for farms and rural communities.

In many provinces, Open Farm Days are held to encourage tourists to visit farms and ranches.

But there is little official data on the popularity of agri-tourism among Canadians travelling domestically, and even less is available on international visitors.

Statistics Canada measured only what proportion of the visits Canadians made to other provinces were to non-metropolitan areas. That could be considered one measure of rural tourism, but the agency ceased tracking that number after 2012.

Furthermore, it is difficult to determine from the data whether the visits were, for example, to farms in B.C.'s Kootenay region or to the ski resorts of Kimberley, Fernie, Golden, Invermere and Revelstoke.

Statistics Canada could better



Federal and provincial governments should provide support for agri-tourism ventures that benefit farms and rural communities. | FILE PHOTO

support government and industry in this area by including questions specifically related to agri-tourism in the Travel Survey of Residents of Canada and better managing the data collected annually through the Farm Financial Survey.

Farm festivals are becoming an important means of building local culture and attracting tourism to an area.

Each year, Alberta communities host about 73 of these events, B.C. hosts 59, Manitoba hosts 45, and Saskatchewan hosts 27.

Attendance figures at these events are difficult to ascertain and they represent a range of interests in the agriculture and agri-food industries.

Some, such as the Hills Garlic Festival held in New Denver, B.C., have a narrow focus, namely garlic, and manage to attract more than 6,000 visitors (New Denver is a community of roughly 500 people).

Others, such as the Strathmore Stampede in Strathmore, Alta., incorporate a broader range of

Proportion of domestic travellers visiting non-metropolitan areas

	2012	2002
Alberta	59.0%	54.0%
British Columbia	57.0%	60.4%
Manitoba	67.8%	61.2%
Saskatchewan	61.7%	53.6%

Source: Travel Survey of Residents of Canada data: bit.ly/2pGOpLM

stakeholders and activities, most prominently a rodeo, and also attracts thousands of visitors.

Until legislation was enacted in August 2016, the B.C. Agricultural Land Commission prohibited farms from hosting wedding ceremonies, concerts and other events without special permits. Lifting this restriction should help provide the province's farmers with another source of revenue.

Elsewhere, farmers are embracing a field-to-fork concept in which they combine a farm visit with a culinary experience that educates visitors on the ingredients of the meal.

It has already had considerable success in many areas, including in B.C.'s Lower Mainland.

Agri-tourism has much to offer both visitors and farmers. Further development to help farmers and rural residents capitalize on the ideas requires a clearer picture of the industry's current status, as well as leadership from federal and provincial governments.

Paul Pryce is director of agriculture at the Alberta Council of Technologies and a policy fellow at the Canada West Foundation.

CENSUS INFORMATION

There's no law in averages

EDITORIAL NOTEBOOK



MICHAEL RAINE
MANAGING EDITOR

After a stop and go April seeding window for many producers across the Prairies and northern Great Plains, the season seems to have settled down when it comes to hard frosts and cold soils.

The month opened up with what appeared to be a trend that would put grain farmers in southern regions into their fields weeks ahead of average, provided some drying could take place. It didn't happen. However, there is now a chance to get things rolling for many growers and put them close to average when it comes to seeded acres by mid-May.

If your farm is soggy and there is crop still to harvest to satisfy crop insurance providers, you won't feel like you are part of the average. Averages are made of data. While the data doesn't lie, averages do the closer one gets to them.

On May 10 we will start hearing a lot of averages in Canadian agriculture. You will read plenty about them in *The Western Producer*.

The Canadian Census of Agriculture is coming out. For me it will be ground-truthing of my assumptions and projections about what has changed in Canadian agriculture over the past five years.

Federal and provincial governments will craft agricultural programs around the data. Lenders will use it to make investment-banking decisions. Machinery and farm inputs dealers will use it to help plot their corporate courses. You, as primary producers, will compare where you are on the scale of operations and profitability to farms like yours.

But no two farms are the same. It's sort of like relying on a neighbour's soil test. Despite both growing a good crop of canola last year, everything else that came before was different, so the soils are unique.

My guess — and we can check it in a week — is that farming units will have grown their operational sizes dramatically since the last census in 2011, while individual operators, usually structured as a couple, will too, but not as radically. This will be for the same reasons that the rate of increase in the age of a western grain farmer will have slowed: consolidation into larger family farms, retirements and new entrants. Livestock producers will have gotten older. Profitability will have improved for both.

This census will tell us all many things. But when it comes to your farm, it will be like the view from the highway at 100 km-h because every field has its own history.

michael.raine@producer.com

ECONOMIC VIABILITY

Show me the data to prove a product's benefits

HURSH ON AG



KEVIN HURSH

A progressive farmer tweeted to his followers that he had just applied humic acid with his sprayer. A link to his blog post made humic acid sound like a miracle product.

Probably quoting company literature, the producer said humic acid increases nutrient uptake, drought tolerance and seed germination.

He also wrote that humic acid increases the availability of nutrients in fertilizers and those already existing in the soil.

But wait, there's more. It will help to aerate the soil from the inside. It will also help to lower the pH of the soil to a more neutral level and flush high levels of salts out of the

root zone, all of which will help to promote better plant health and growth.

I replied with a rather insensitive tweet saying that it sounded like snake oil.

In the resulting Twitter conversation, some respondents agreed with me, but many were humic acid believers.

"Two dollars an acre on humates applied with our granular urea has given us a minimum \$20 an acre return over the last five years," claimed one post.

Another said: "We have seen good results applying 10 pounds per acre of humates in our low organic matter soils. It's 100 percent carbon, the building block."

Someone from the scientific community tweeted that little research has been done on humic/fulvic acid application in this region but that the University of Saskatchewan is starting to do some cursory work.

Another tweet asked me: "When was the last time you looked at the literature?"

Truthfully, I've always dismissed

humic acid along with a sizable number of other wondrous soil amendments being marketed by various companies. My view has always been that if it made economic sense, someone would have proven it by now.

But a quick internet search yields a lot of posts about humic acid and its supposed benefits. Even though it's produced by the degradation of organic matter, there are also people who believe in its benefits as a nutritional supplement.

Unfortunately, the composition and consistency varies greatly among the products being marketed.

I'm always wary about any product claiming a multitude of benefits at a very low application rate. As soil scientist Rigas Karamanos says: "In God we trust. Everyone else bring replicated data."

Unfortunately, most producers trying unproven products don't do proper trials to determine economic viability.

Typically, the product will be applied on one field and not another and then the two fields will be

compared at harvest time.

Unless the yield difference is massive, this method of testing doesn't tell you much. One field can yield better than an adjacent field for a host of reasons.

With GPS, it's now fairly easy to use a new product on passes one, three, five and seven and then go back and fill in the other passes without using the product. Run a narrower combine header down the centre of each pass at harvest time and use a weigh wagon to get accurate yield determinations. Take steps to make the comparison as valid as possible.

If results are all over the map between the treated and untreated passes, your coefficient of variation is probably too large to come up with meaningful conclusions.

I'm a skeptic on humic acid and many of the other products that seem too good to be true, but meaningful data is difficult to dismiss.

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

OPEN FORUM

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 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.

SASK. EDUCATION CUTS

To the Editor:

Leadership in our K-12 educational system should start from above, from the locally elected trustees and school division senior administrators.

But often it does not.

With all the cuts to education funding coming from our provincial governments, this certainly promises to be a time when strong leadership in education is needed at the local level.

Many are rightly confident that although times are tough, the quality of education delivered to children in our schools will not be reduced, given the resourcefulness, dedication and professionalism of teachers. The strongest leadership in our K-12 school system has always come from actual

teachers in schools and classrooms. That's why we call them — professionals.

On the other hand, we can only hope that our elected trustees and their \$200,000 plus per year board office administrators will be as dedicated and professional. We can hope that they will have the fundamental ethics and courage to operate at a high level by making sure that any cutbacks will be borne by the economically powerful and politically influential — perhaps even themselves — and not borne by the marginalized and disadvantaged who have a greater stake in getting a good education.

Robert Hall
Saskatoon, Sask.

PROPERTY PROTECTION

To the Editor:

Since the Saskatchewan Association of Rural Municipalities convention in March, a certain resolution has been condemned by a number of directions.

As a rural ratepayer in Saskatchewan for about 50 years now, I still do not always agree with SARM. However, this particular SARM resolution I support 110 percent.

A number of years ago an illegal act was perpetrated on my property. I contacted two companies for price quotes for repairing the incident. Both representatives in-

formed me that what had been done was illegal. One informed me that the action could net the offender(s) up to 10 years in prison. I was asked about informing the police. I did. This was the officer's reply: "We are not interested." This does not stop illegal acts; it promotes more illegal acts.

A second incident was done to my property. I passed up the police and went to a lawyer. It was not difficult to find the offender. The two of us could get no correction or satisfaction. I finally asked the lawyer to sue the offender. This was his reply, "yes we can sue. I have done the paper work for a number of clients and taken that to court. Every-one of them has been thrown out by the judge."

Both incidents are illegal acts but they are not stopped, therefore the article "SARM delegates aim at wrong target" (April 13, WP, by Jan Slomp, National Farmers Union president), about common sense and a reliable justice system usually prevail leaves a lot to be desired. There appears to be very little common sense and illegal acts are not prosecuted.

The police and the courts actions are supposed to curtail illegal acts. Both entitles doing nothing results in promoting increasing illegal acts. Also, we ratepayers have property miles from a police station, not down the street.

Delwyn J.J. Jansen
Humboldt, Sask.

LAND USE

Gravel pit clears hurdle

BY **BRENDA KOSSOWAN**
FREELANCE WRITER

RED DEER, Alta. — Rural neighbours are reeling after losing a major battle in their 25-year war against gravel mining on a 122-acre parcel site in Red Deer County.

"This is going to be the death knell for a small farm," said Dale Christian, debriefing with neighbours on April 25 after council passed a land-use bylaw to allow gravel operations on the site, owned by Howell's Excavating of Innisfail and leased to farmer Terry Little.

The site lies within a river delta formed at the confluence of the Red Deer, Medicine and Little Red Deer Rivers, about 40 kilometres southwest of Red Deer.

With the land now re-zoned for gravel mining, neighbours have lost a key line of appeal to county council and must rely on permitting processes within the municipality and with Alberta Environment.

Reeve Jim Wood said opponents will have no avenue of appeal unless the gravel operator attempts to change any of the conditions specified in the county's standardized set of rules.

Any attempt to change conditions must be approved by the county's municipal planning commission and would still be subject

to Alberta Environment approval, said Wood.

"It isn't done yet. Just because it has been passed by Red Deer County Council does not mean it will have the approval of Alberta Environment."

Christian and others had asked county council to consider the impact of taking good farmland out of production, potential damage to shallow wells and changes in flood patterns along with concerns about dust, noise and loss of property values.

They and their nearest neighbours were especially concerned that they would lose their water wells, dug four to six metres into the alluvial plain.

Jason and Suzanne Telford, who had sought a quiet and private location for their kennel of show dogs, said they will have to move to avoid the noise and dust.

The Telfords and Christians were among a crowd of more than 50 who jammed into council chambers for a chance to speak to the bylaw before a vote was called. While opponents sat grim-faced in the gallery, a group 15 to 20 people that had come to support the proposal cheered each other on during the lengthy public hearing.

Supporters extolled the gravel company's reputation from other sites and addressed the need for good-quality gravel from sites that have good transportation access.

AGRICULTURE FINANCIAL SERVICES CORP

New AFSC board named

BY **BARB GLEN**
LETHBRIDGE BUREAU

Alberta's Agriculture Financial Services Corp., the provincial body that administers crop insurance and disaster assistance funding, has a new board of directors that has already started work.

Alberta Agriculture Minister Oneil Carlier announced the new board April 27.

Jennifer Wood, a professional agrologist and cattle rancher in the Edmonton region, was appointed chair.

Joining her are agri-food industry consultant Jerry Bouma, former Alberta Livestock and Meat Agency chief executive officer Gordon Cove, farmer and agriculture coach Peter Galloway, former deputy agriculture minister Jo-Ann Hall, cattle company president Harvey Hagman, chartered professional accountant Anna Harder and financial executive Kiren Singh.

Among their first duties will be the hiring of a new chief executive officer, Carlier said during a news conference.

Appointment of a new board was made necessary when the previous six-member board was dismissed in June 2016 after an investigation showed AFSC executives violated policies that prohibit acceptance of gifts, double-dipped on expense claims and otherwise contravened the corporation's code of conduct.

Carlier suspended AFSC president Brad Klak, chief operating officer Merle Jacobson and vice-president of product development Wayne McDonald, while the other

members, Dean Gallimore, Patrick Bieleny, Ian Reynolds, George Groeneveld and Harold Schmaltz, were dismissed for having approved the executive's expenses and having lost the confidence of the minister.

Jacobson and McDonald later retired, and Klak's contract was not renewed.

AFSC has since been run by a five-member interim board of government officials with ATB Financial vice-president Ed Knash as interim CEO.

The provincial government then undertook an open recruitment process that required an extension in October to ensure desirable candidates had the opportunity to apply. Carlier said 42 applications were received.

"The successful candidates have a wealth of experience in agriculture, business and board governance that will serve them well as board members."

Carlier said the internal controls on AFSC have been strengthened, the president is no longer also a board member and oversight on international travel for AFSC personnel has been strengthened.

Wood said the transition to the new board from the interim one will take place within the next few weeks, and she aims to ensure AFSC "moves forward in a proper, open and transparent manner."

AFSC has provided more than \$3 billion in loans to producers and rural businesses in the last seven years, and the demand for loans is about \$500 million annually.

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GRAIN TRANSPORTATION

Extended interswitching not well used by shippers: report

BY BRIAN CROSS
SASKATOON NEWSROOM

A new report produced by Canada's Grain Monitoring Program suggests that fewer than 4,800 cars of western Canadian grain — less than one percent of the country's total grain movements — were moved under Ottawa's extended railway interswitching provisions in 2015-16.

The report also suggests that only 13 licensed elevators in Western Canada used the extended interswitching provisions out of the 339 eligible elevators.

Extended interswitching was one of the key provisions contained in the Fair Rail for Grain Farmers Act, which came into effect in 2014.

The act was passed in response to a system-wide bottleneck that choked off country grain deliveries, left prairie elevators plugged and caused widespread congestion in Western Canada's grain export channels.

In early 2014, railway interswitching distances in Manitoba, Saskatchewan and Alberta were extended to 160 from 30 kilometres.

The extension meant that grain shippers — including large elevator companies — could have moved loaded grain cars up to 160 km on one railway and then switched to the lines of another railway carrier for the remainder of the haul.

The provisions were open to all shippers located within 160 km of a recognized railway interswitch location.

The purpose of the provision was to provide grain shippers with improved access to alternative railway services, particularly in light of the system-wide logistical problems that were encountered in 2013-14.

In theory, about 339 of the 370 western elevators that were licensed in 2015-16 (about 90 percent) could have used the provisions.

However, "practical commercial considerations limited the potential application of this reach to about 150 locations," the Grain Monitoring Program report said.

"In the end, only 13 of these facilities would report use of this provision in moving traffic."

Of the roughly 4,800 grain cars that were moved under interswitching, more than 3,600 (76 percent) saw Canadian National Railway or Canadian Pacific Railway move grain cars for the U.S.-based rail carrier Burlington Northern Sante Fe.

In aggregate, shippers that used the extended interswitching saved an estimated \$5.3 million in conventional freight charges, either through more competitive freight rates or shorter transit routes.

Interswitching aside, the Grain Monitoring Program report suggested that Canada's Class 1 railway companies are becoming more efficient at moving western Canadian grain.

However, the efficiency gains realized over the past few years were largely the result of CN and CP moving longer trains from main-line elevator locations and offering freight discounts for large block movements.

For example, nearly 80 percent of the grain that was delivered by

farmers in the 2015-16 crop year moved through 97 elevators.

In the same year, nearly 86 percent of the western grain moved by rail was moved in blocks of 50 cars or more, and nearly 32 million tonnes of grain that was moved by rail qualified for large block freight discounts.

Rationalization of Western Canada's rail and elevator systems has fundamentally altered the way grain is moved in the West.

For example, the number of Class

D facilities — the largest grain handling facilities in Western Canada — had increased to 135 by mid-2016 from 38 in 1999.

Class D facilities have railway sidings or loop tracks that can accommodate 100 or more grain cars.

By comparison, the number of Class A facilities (those that can handle 25 cars or less) fell to 132 from 705 in 1999.

Class B facilities (25 to 49 cars) dropped to 49, down from 180 in 1999, and Class C facilities (50 to 99

cars) dropped to 67 from 81.

The closure of smaller, less efficient elevators means prairie farmers are trucking grain longer distances on municipal and provincial road systems.

It has also allowed railways to improve key railway performance measurements such as loaded transit times and car cycle times.

Average loaded transit times of loaded grain cars reached an all-time low of 4.8 days in 2015-16, and car cycle times dropped to an aver-

age of 13.3 days, the Grain Monitoring Program report said.

Car cycle time is the time required by a rail carrier to delivery a loaded grain car from its point of origin to its destination and then return an empty car back to a prairie delivery point for reloading.

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The purpose of extending rail interswitching was to provide grain shippers with improved access to alternative railway services. But in 2015-16, only 13 grain facilities used the provision to help move traffic.

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FROM THE U.S. CAPITAL

New U.S. ag secretary ready to get to work

Sonny Perdue confirmed as the final appointment to Trump's cabinet and faced with cuts and a pending farm bill

BY ED WHITE
WINNIPEG BUREAU

WASHINGTON, D.C. — Sonny Perdue smiled April 24 as he sat in the Senate gallery with his family watching the vote that finally confirmed him as the new U.S. secretary of agriculture.

The next morning he greeted the staff at U.S. Department of Agriculture headquarters with a warm and rousing introductory speech, showing the folksy and avuncular approach that made him a popular Georgia governor.

"It's about work," he said to USDA staff about their mission for farmers.

"It's about getting stuff done."

But Perdue's optimism and energy will face immediate tests as he works to get his own staff hired, grapple with President Donald Trump's proposed 21 percent USDA budget cut and prepare to help House and Senate agriculture committees come up with the next farm bill.

"It's a long time coming," said Michael Conaway, Republican representative from Texas, talking to members of North American Agricultural Journalists about Perdue's belated confirmation.

Senate agriculture committee Democratic minority leader Debbie Stabenow felt the same.

"There have been unfortunately



Sonny Perdue's nomination was never in doubt, but it was not unanimous. | USDA PHOTO

too many delays in getting the nomination moved forward," she told NAAJ members.

"When you look at the fact that the secretary of agriculture was the very last person to be nominated, even after there had been a secretary of

labour (nomination) twice ... before the president finally felt it was time to have a leader in the USDA."

Perdue was Trump's last cabinet nominee sent forward, a delay that has left the massive department leaderless at top levels, even as the

Trump administration has abandoned the Trans Pacific Partnership, suggested it may abandon the North American Free Trade Agreement and directly attacked Canada's dairy industry, all issues that greatly affect U.S. farmers.

The department is also facing a brutal budget reduction proposed by Trump with Perdue only now able to sit at the cabinet table to offer input from the inside of the administration.

His ability to do that, however, will rely partially on about 200 senior officials that can only now be selected and put forward for confirmation. As a result, he will be short on advisers for weeks.

Those to-be-appointed senior USDA staff will also be immediately required to advise Congress on the 2018 farm bill, the key legislation covering farming and agriculture that will soon go into development.

"That's very important to us as we write a farm bill," Stabenow said about the USDA staff. "We are dependent on the expertise ... that we are asking from the department."

Perdue's confirmation, once it went forward, was never really in doubt. He not only received universal Republican praise, but most Democratic senators also supported him, including some like Stabenow who spoke warmly in his favour.

But it was not unanimous, which is unusual for an agriculture secretary nomination. The last agriculture nominee who received less than 100 percent of the votes cast was Richard Ling in 1986, and he was the first non-unanimous nominee in history.

The 87-11-1 vote was described as "a strong sign of bipartisan support" by Stabenow and "a big vote" by Senate agriculture committee chair Pat Roberts, but the negative votes from Democrats were seen as a signal of displeasure with the Trump administration in general.

While some moderate Democrats such as Stabenow and Minnesota's Al Franken were visibly pleased to vote in favour of Perdue's confirmation, Vermont senator and one-time Democratic presidential contender candidate Bernie Sanders strode forward in the Senate chamber to jab a downward finger to mark his negative vote.

Stabenow told NAAJ that most confirmation votes have split on party lines, so getting 87 votes was a sign of general support, a point also made by Roberts.

"We got over 80 votes. I was hoping that we would get 90, but that didn't happen," said Roberts.

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FROM THE U.S. CAPITAL

U.S. ag committee chair handles many files, even Russian spies

BY ED WHITE
WINNIPEG BUREAU

WASHINGTON, D.C. — It's not often that espionage, international intrigue and suggestions of treason intrude in agriculture policy discussions, but Michael Conaway has one leg in each sphere.

And he says the espionage won't disrupt or delay all-important farmer concerns.

"My new responsibilities with respect to the Russia investigation will not slow us down on the farm bill," Conaway, chair of the House of Representatives agriculture committee, told a North American Agricultural Journalists meeting April 25.

Conaway recently became the head of the House intelligence committee's investigation into possible Russian interference with the 2016 U.S. election and suggestions that some members of President Donald Trump's campaign might have had inappropriate contacts with the Russians.

That provides him with an extremely busy schedule in coming months because the exhausting process of forming the next farm bill will be occurring as his Russian investigation is proceeding.

However, he said good staff and prosecutors on the Russia inquiry will keep that process running well, while he has been knee deep in ag committee work for years. Conaway said he was once on four committees at once, so he knows how to balance.

Legislative efficiency and collegi-



MICHAEL CONAWAY
HOUSE OF REPRESENTATIVES AG COMMITTEE

ality will be required for a new farm bill to be in place by October 2018, when the current bill expires, because it is an enormous piece of legislation controlling hundreds of billions of dollars in spending for both agriculture and food stamps.

Farm bills have been stymied at times by ideological and partisan divisions, but it is also often the home of some of the most successful compromises and cross-party co-operation in the U.S. Congress.

That was a point pushed by both Senate agriculture committee chair Pat Roberts and minority leader Debbie Stabenow in comments to NAAJ.

"We had a strong bipartisan coalition last time, and I expect the same thing," said Stabenow.

"I know that members on both sides of the aisle want to get it done and that we'll be very serious about getting it done."

Roberts said there is much partisan rancour in Congress right now, but agriculture tends to be more collegial.

ed.white@producer.com

THIS CALLS FOR A DRINK



A newborn bison looks for its first drink. Calving time is in full swing for the Spur Ridge Cattle Co. Ltd.'s bison herd near Craik, Sask., April 15. | MICKEY WATKINS PHOTO

ENVIRONMENT

Carbon sequestration has limits

Farmers should be rewarded for efforts to balance carbon and costs should not be too high

BY BARBARA DUCKWORTH

CALGARY BUREAU

Scientists understand the theory of carbon sequestration, but transferring that information to farmers around the world is the bigger challenge.

Pulling carbon out of the atmosphere and putting it into the soil adds fertility and better water holding capacity, but there are limits, scientists said April 24 during an international carbon sequestration webinar.

"There is a limitation when we are looking at carbon sequestration," said soil ecologist Keith Paustian of Colorado State University.

The soil carbon balance tends toward saturation, but the practices should not stop because it can become depleted again. It takes about 30 to 50 years to reach carbon equilibrium.

Putting more carbon back into the land requires management changes such as planting more trees, protecting grasslands, improving water management and practising minimum tillage, but

policy changes are also needed.

Jean-Francois Soussana of the French National Research Institute for Research and Agriculture said farmers need to be rewarded for their efforts, and their management must not be too costly.

Farmers and ranchers need financial incentives to encourage them to try new methods. He said a payment of US\$100 per tonne of carbon sequestered is a good start.

"Farmers who change their practices and systems have some costs, and it is not so simple to readjust a system to sequester carbon in soil," Soussana said.

They also need the capacity and knowledge to make changes and realize that carbon sequestration can renew degraded soils, which will yield more and reduce the threat to world food security.

"Improving the soil and improving the yields comes together," he said.

"When you start with a soil that has been degraded which has lost a lot of organic matter, restoration is extremely effective in improving yields. Having more soil

organic matter means you have better water retention and also you have better water infiltration usually."

Carbon stored in the topsoil of croplands and grasslands could reach a depth of 40 centimetres.

A 1.3 percent annual increase in crop yields can be obtained in Asia, Latin America and Africa if farmers worked to add .4 percent more soil carbon each year.

"Some say increasing this rate of soil carbon by .4 percent per year is too high," he said.

"This rate of carbon sequestration rate in soil, which was measured over many years, was higher than the targets. When you start with soils with low carbon stocks, you usually get higher sequestration rates," he said.

Sequestration rates vary widely between different farming and agro-forestry practices, said Eric Toensmeier, author of the *Carbon Farming Solution* and a lecturer on agri-forestry and perennial crops at Yale University.

"The general idea is we want farmers and ranchers and land

managers to have a tool kit of practices that they can use where possible to get the highest carbon we can," he said.

"What tends to be the trend is that when trees are added, those rates go up. Annual cropping practices tend to be below one tonne per hectare (.4 tonne per acre) per year. By adding trees to those practices, we can sometimes get two or three times more carbon."

Annual cropping and grazing could add 12 to 20 tonnes of carbon per acre, but when trees are added, 60 to 80 tonnes could be sequestered as a maximum potential.

"This does not include carbon in above ground biomass, which can be in some cases very significant in some of these systems," he said.

However, soil organic carbon could be depleted under bad management or less than ideal conditions.

The Food and Agriculture Organization has publications on soil carbon sequestration, which can be seen at bit.ly/1V3L2qU.

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FINANCES

Farmers stay on top of debt

BY KAREN BRIERE

REGINA BUREAU

Farm debt continues to climb, but federal officials say assets are climbing much faster.

Tom Rosser, assistant deputy minister with Agriculture Canada's strategic policy branch, told the House of Commons agriculture committee last month that average debt in 2015 was \$600,000, but average farm assets were \$3.4 million for an average net worth of \$2.8 million.

Even though net income is projected to drop by \$1 billion this year, it will still be the fourth highest year on record, he said.

Combine those factors with low interest rates and farmers are generally financially solid, Rosser said.

"The increasing debt levels that we see in agriculture are indicative of farmers using debt as a tool to increase their competitiveness and to grow," he said.

Farm Credit Canada holds more than a quarter of Canada's total farm debt, chief executive officer Michael Hoffort told the committee.

He said that the continued appreciation of farmland, which is farmers' main asset, has been a key factor in staying on top of debt.

The most recent farmland value report showed an average increase of 7.9 percent as part of a 25-year trend. However, he said the substantial increases are losing steam, considering that this was the third consecutive year of declining growth rates.

"Strong income, increased profitability and low interest rates have pushed up asset values, which in turn drive up demand for credit," Hoffort said.

"As a result, in 2015 we saw an increase in farm debt that for the first time in many years exceeded farm asset appreciation. Yet the ratio of debt to asset values in 2015 remains lower than the 10-year average."

However, he said a low ratio is a secondary measure of debt repayment ability. The primary measure is income.

Although the income outlook is positive, he said farmers should stay on top of risk management.

"We are actively encouraging farmers to identify efficiencies in their operations to counter any potential drop in revenue and ensure the long-term profitability of their operations," Hoffort said.

Rosser said federal-provincial business risk management programs have paid out \$5.6 billion since 2013, even in relatively good times.

J.P. Gervais, FCC's chief economist, said farmers and governments should have realistic expectations about the future.

"I think it's more realistic to expect that the next 10 years will not necessarily look exactly like the past 10 years," he said. "The past 10 have been influenced by really strong prices."

Weaker prices mean growth in cash receipts and income will have to come from productivity.

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KEYSTONE AGRICULTURAL PRODUCERS

Opinions mixed on carbon tax

Man. group says farmers should be exempt from tax to be competitive

BY ROBERT ARNASON
BRANDON BUREAU

After 75 minutes of debate at a Keystone Agricultural Producers meeting last month, it's hard to say where the average Manitoba farmer stands on a carbon tax.

Some want to fight it, others want a provincial referendum, others say farmers should get a refund and some say it's inevitable, so farmers should be negotiating with the province for the best possible deal.

"I don't think we can bypass or oppose this carbon tax. I think it's coming our way whether we want it or not," Les Ferris, who farms near Holland, Man., said during the KAP meeting in Portage la Prairie, Man.

"We're going to have to live with it." KAP members discussed, mostly in calm tones, five separate resolutions regarding a carbon tax.

It was the topic du jour because the provincial government is expected to unveil a "made in Manitoba" solution to climate change, sometime this spring or summer.

The Manitoba government needs to devise a plan before the end of 2017 because Prime Minister Justin Trudeau has promised to impose a base price of \$10 per tonne for carbon on provinces that don't have a carbon reduction scheme, by 2018. The price could rise to \$50 a tonne by 2020.

KAP's official position is that farmers should be exempt from the tax; otherwise it's difficult to compete in a global market with countries that don't tax carbon, such as the United States.

It also says farmers should be credited for practices that remove carbon from the atmosphere.

The policy didn't satisfy a few producers at the Portage meeting.

They said KAP should reject the tax and lobby against it, much like the Agricultural Producers Association of Saskatchewan is doing.

"Most (feel) we don't want it," said Dwight Eisner, who farms near Bowsman, Man.

Similarly, Murray Klassen said KAP should take a definitive position on a carbon tax.

"I don't think anybody here wants to pay the extra tax on fuel that they use in the field," he said.

Others said fighting the tax isn't the answer.

Chuck Fossay, of Starbuck, Man., said farmers must take a position and be at the table with the province to ensure that producer concerns are addressed.

KAP president Dan Mazier agreed. No one is in favour of a tax, he said, but the province is moving forward with a plan to reduce greenhouse gas emissions.

"It's a reality. We've got to have

policy around this so we can go and negotiate (with the government)."

One possibility for Manitoba farmers is a carbon tax exemption, which would be similar to a rebate on the GST.

Ferris said the carbon tax should appear as a separate line on a bill so the amount is transparent.

"We want it totally visible on the invoice and we want it refundable," he said.

"We want this 100 percent exemption on our inputs to grow crops so we can remain competitive."

Several producers supported Ferris' idea, but acknowledged that the province may not support such a plan.

"I don't think we can give them the system that we need," said Don Dewar of Dauphin, Man.

"But we should be open to whatever discussion.... We might be lucky to get what we're asking for."

It could be difficult for the provincial government to exempt farmers because crop and livestock production is a significant component of greenhouse gas emissions in Manitoba.

Mario Tenuta, a University of Manitoba soil scientist, said farming represents about 35 percent of all emissions in the province.

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Justin Jenner, Keystone Agricultural Producers vice-president, moderates a 75 minute debate on carbon tax at an April meeting of KAP in Portage la Prairie, Man. The Manitoba government is expected to unveil its plan to reduce greenhouse gas emissions this year and KAP says farmers should be exempt from a carbon tax. | ROBERT ARNASON PHOTO

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GRAIN TRANSPORTATION

Farmers await Churchill sale, but 2017 season in jeopardy

BY BRIAN CROSS
SASKATOON NEWSROOM

Grain shippers in northeastern Saskatchewan and northwestern Manitoba are still hopeful that some grain will be moved through the Port of Churchill this year.

But time is running short, says the president of the Hudson Bay Route Association.

If a deal to sell the port and the Hudson Bay Railway (HBR) is not reached quickly, another shipping season will be lost.

"What we heard is that OmniTrax (the current owner of the port and HBR) is very, very close to making a deal," said HBRA president Elden Boon. "They were expecting to have a final agreement in place (by now), but there was a little hiccup ... so we'll look forward to hearing something here in the near future."

OmniTrax Canada has been looking for a buyer for the Port of Churchill and the Hudson Bay Railway for almost a year and a half.

It acquired the port and the railway line in 1997 from the federal government and Canadian National Railway.

OmniTrax announced in December 2015 that it had signed a letter of intent to sell the assets to a group of Manitoba First Nations, led by the Mathias Columb Cree Nation.

An agreement has yet to be reached, but Boon said OmniTrax official Merv Tweed told the Hudson Bay Route Association last week at its annual meeting in Swan River, Man., that a deal is imminent.

OmniTrax announced last July that

grain shipments through the Port of Churchill had been suspended.

It also scaled back freight service for other commodities, limiting HBR traffic to one northbound train and one southbound train per week.

For grain shippers, the suspension of the port's 2016 shipping season came as a surprise. Loaded grain cars that were destined for the port were redirected, but nearly 30,000 tonnes of grain that reached Churchill remain in the terminal.

Boon said HBRA members have been hoping for a deal, but he acknowledged that the 2017 shipping season could be a write-off.

"They (OmniTrax) did mention that they would like to get some grain moving through there (in 2017) ... but I think it would be a fairly tall order... because of the time frame," he said. "I would like to see something happen this year, but we'll wait and see. The time frame is not on our side."

Before 2015, the Port of Churchill typically handled around 500,000 tonnes of grain per year. The short shipping season normally begins in late July or early August and ends in late October or early November.

However, in 2015 the port saw total grain handlings of fewer than 190,000 tonnes.

Historically, the port's biggest shipper was the Canadian Wheat Board. Ottawa's decision to end the CWB's marketing monopoly has proven that private-sector grain companies prefer to ship grain through Thunder Bay, Prince Rupert and Vancouver.

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FARMLIVING

UNCOVERING AUCTION TREASURES

Cold weather didn't deter auction goers in Rimbey, Alta., where hordes arrived seeking that special something at a spring consignment sale. | Page 18



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



Freekeh is available whole, cracked or crushed and retains a crunchy texture when cooked. | HABEEB SALLOUM PHOTOS

MIDDLE EAST STAPLE

Freekeh: the ancient, yet forgotten cereal grain

Move over quinoa — this crunchy super food is making its way to North America

BY HABEEB SALLOUM
FREELANCE WRITER

My family of Syrian immigrants brought their love of freekeh with them to their homestead in southern Saskatchewan where it was a staple in the larder.

Every year, just before the wheat crop ripened, my mother would cut some of the wheat when it was turning yellow and the seeds were still soft and green. After being sun-dried, the wheat was set on fire.

The straw burned but not the seeds. The high moisture content remaining in the seeds prevented them from burning.

The roasted wheat was then rubbed by hand to remove any chaff left on the kernels, producing the annual supply of freekeh.

Today, no one has to go through this tiresome method, with machines doing the work of roasting.

It is factory-produced and available in many health food stores, Middle Eastern food outlets and in some of the major supermarkets and from wholesale companies like Cedar Phoenicia in Quebec.

"Our company decided to carry freekeh because of the great interest in North America about the Mediterranean diet and also because of the demand for it by the Arabic-speaking community in Montreal," said Cedar's salesperson Madam Rula.

There is no exact replica of this

ancient health food that dates back to antiquity in Syrian history.

It is sold either in its whole form or cracked or crushed, the latter being the more popular version. Cracked freekeh is more in demand because it takes only 20 minutes to cook, while the whole grain freekeh takes about 50 minutes.

About 2 1/2 cups of water or broth to one cup of freekeh is required for cooking.

It can be used in dishes such as salads, stuffing, soups, stews, stir fries or risotto.

In the Middle East, every country has its favourite freekeh dish. In Syria, it's fareekat lahma (lamb and freekeh) and in Tunisia, Shurbat fareek bil mukh (freekeh and bone marrow soup).

In Egypt, it's hamaam bil-fareek (pigeon stuffed with freekeh) and in Palestine, it's shurba al-fareek (soup with freekeh and chicken).

Many home cooks in Canada prefer it to rice or burghul.

"It's the best staple because of its nutty smoky flavour. The taste sticks with you," said Dr. Amal Asadi, a dentist originally from Jordan.

"Freekeh has a good crunch to it, not like rice and burghul that become very soft after cooking," said Juhayna Younes, a homemaker of Lebanese origin.

"I've never tasted anything like this. I thought that quinoa was the super grain but now I'm moving on to freekeh," said Linda Schwartz, a homemaker and avid gardener,

after sampling a freekeh salad.

Samira Helbaoui, originally from Damascus, Syria, said freekeh is as common on the Damascene table as salt and pepper.

"I don't know why (I like it), other than it's healthy and when you cook it, it gives off a wonderful aroma. You feel that you are about to have a real home-cooked meal," she said.

It was sometime in 2300 BC in ancient Syria that freekeh, often spelled frikeh or farik, came to be.

According to Syrian folklore, one of the villages in the northern part of the country received word of an impending enemy attack.

Knowing that the raid would result in the loss of their wheat crops, green at the time, and ultimate starvation for the people, the villagers picked the early green heads of the wheat and

stored them.

The enemy arrived and devastated the area with fires. To save what they could of their wheat, the villagers rubbed away the burned chaff, and found roasted wheat kernels inside, yet still green in colour, reports author Bonnie Matthews in *The Freekeh Cookbook*.

Some believe this might be the fresh grain that is coarsely ground and roasted on a fire mentioned in Leviticus 2:14. In a 13th century Arabic cookbook from Baghdad, the author provides a recipe for farikeeya made from freekeh, according to *A Baghdad Cookery Book*.

Scientific studies have discovered what the people of the Middle East have long known. Grain, when harvested prior to ripeness, retains more of its proteins, vitamins and minerals.

Freekeh contains iron, selenium, potassium, magnesium, and zinc and is considered a super food. It has a high fibre content and four times as much insoluble fibre as grains such as quinoa and farro. This large amount of fibre improves bowel health and it is so filling that it is credited with helping to control weight.

Freekeh is a largely fat-free cereal food and compares well to other grains sold in health stores, with four grams of fibre and eight percent protein in each quarter cup of the raw product. It also has a low glycemic index, so it can help control diabetes.



Visit www.producer.com for Salloum's original recipes using freekeh.



ON THE FARM

South African farm sees profits

BY CHRIS MCCULLOUGH
FREELANCE WRITER

MAGALIESBURG, South Africa — Experts have credited South Africa with having all the major ingredients to produce food that can feed the rest of the continent and other parts of the world.

Bosparadys Farm is near Magaliesburg and run by the Khourie family, which includes William and his sons, Joe, Anthony and Pieter, who all take charge of various enterprises.

Dairying is the dominant business, accounting for 80 percent of the total farm income, but the Khouries also produce sheep, pigs, hens, goats and game.

They have farmed there for more than 20 years and have built up a profitable business with total farm income of about \$19.3 million.

The family owns 5,000 acres and rents a further 1,200 from a local landowner. Around 1,000 acres of this land are planted in grasses and 2,700 acres are used to produce corn silage averaging 5.6 tonnes per acre.

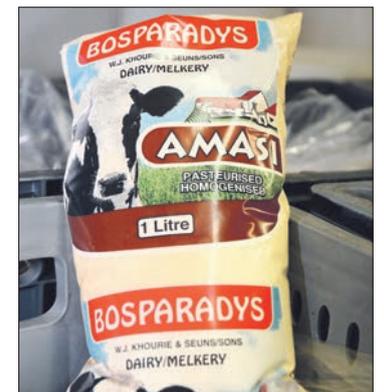
The remainder is natural land used for game farming.

Anthony Khourie is in charge of feed planning and production, and runs a stable feed bank for dairy production. Joe manages the dairy herd and the heifer herd while Pieter is the overall marketing manager for the farm.

Bosparadys Farm milks 800 cows with an average yield of 30 litres per cow per day but it has a high yielding batch of 250 cows producing 40 litres per day.

The high yielders are milked three times per day in the 14/28 herringbone milking parlour while the rest are milked twice per day.

CONTINUED ON NEXT PAGE >>



Pasteurized milk awaits delivery at Bosparadys Farm. | CHRIS MCCULLOUGH PHOTO



Let the bidding begin



The 37th Annual Spring Machinery Consignment Auction was conducted by Allen B. Olson Auction Service April 21 in Rimbey Alta.

| SCOTTY AITKEN
PHOTOS

TOP, CLOCKWISE: Despite a cold wind, a large crowd came to see what was up for grabs.

Wayne Packnoski of Ponoka, Alta., likes to inspect inside and out.

Roy Andresen of Breton, Alta., checks out a 1939 Chev to add to his collection.

Farm machinery was on the auction block as well as the tools to fix it.

» CONTINUED FROM PREVIOUS PAGE

“Our farm currently averages milk quality of 3.3 percent protein and 3.6 percent butterfat that is quite important as we bottle our own milk and produce yogurt, cheese and buttermilk on site as well,” said Anthony.

“In total, the farm’s daily production of 24,000 litres is used in our on-site factory together with an additional 26,000 litres that we buy in each day from a local supply network of 12 other dairy farmers.”

Liquid milk accounts for 85 percent while 12 percent is made into buttermilk and three percent goes into yogurt and cheese.

Other dairy livestock includes 200 dry cows, 150 bred heifers aged up to two years old and 420 young heifers from birth to 15 months old.

Artificial insemination is used on the older cows, using Dutch sires. The younger heifers run with groups of young Holstein bulls.

The business operates its own fleet of delivery trucks that deliver the milk to a network of 200 shops and supermarkets.

Milk is most popular with customers when sold in two litre containers, which sell in the shops for around \$2.41. The farmer receives 96 cents per litre for the milk and his cost of production is 39 cents per litre.

The dairy cows are kept outdoors in corrals and are fed according to yield, with the majority being fed to produce 30 litres per day,

“Cows are fed 38.9 kilograms of a total mixed ration per day using

ON THE FARM



THE KHOURIE FAMILY
Magaliesburg, South Africa

our own feed mixers. The ration contains 2.3 kg grass, 6.7 kg brewers grain, 17.7 kg of maize silage, 6.3 kg of a 28 percent high protein content supplement and 5.9 kg of maize meal,” said Anthony.

“This ration costs 69.34 rand

(\$6.69) per cow per day and equates to a feed cost per litre of 2.72 rand (26 cents),” he said.

The Khourie family employs 250 staff who work in all the sectors on the farm. The dairy factory operates on two shifts almost 24 hours per day, with a more relaxed timetable at the weekend.

The farm also runs 22,000 hens, 100 pigs, 1,000 ewes, 300 goats and a tourist holiday park.

A herd of 1,000 Suffolk ewes produces meat lambs. All the ewes lamb outdoors with a lambing percentage of 150 percent.

Using Suffolk with the traditional black pigment colour in its face means less eye problems.

“Rams run with the sheep outdoors from November to December to allow for lambing in May.

Lambs are reared to 40 kg live-weight and are then sold for meat at around (\$2.89) per kg.

“The sheep graze on rougher pastures and are rotated every three weeks but are allowed to feed in the maize fields once we finish harvesting in April to clean up any surplus silage and maize stocks.

“One of the major threats to the lambs is the jackal, which kills them, but there are some diseases including bluetongue, Rift Valley Fever and pulpy kidney that we vaccinate for.”

Pigs are purchased as weaners weighing 15 kg for \$28.95 each. They are then primarily fattened on the waste dairy produce and are sold at 45 to 50 kg for \$115.79.

There are 20,000 laying hens on the farm, with eggs sold in the same

retail outlets as the dairy products.

Anthony’s wife, Nina, helps to look after this enterprise.

“We use the Hyline Red and White breeds as we receive a higher income from those breeds when they are being sold after their laying term finishes, usually after one year,” she said.

“The birds are purchased in at 20 weeks of age as laying pullets and reach their laying peak at 30 weeks with a 95 per cent laying rate.”

The Khouries have found that the most profitable period to keep the birds within is around a year old, while maintaining an average 85 percent laying rate.

“Eggs are collected twice per day from the cages and are marketed according to their size with the large ones measuring 30 to 40 millimetres commanding an income of 15 rand (\$1.45) for one dozen. The retail outlets will add on its margin and sell the eggs for 24 rand (\$2.32),” said Nina.

“When the hens arrive on the farm they are fed phase one starter feed with 16 percent protein content. Later in phase two they are fed a lower percentage protein feed, which is cheaper to buy.

“All the feed is purchased but if the farm has any surplus maize from the dairy enterprise we mix it with a high protein content supplement and feed to the birds.

“The manure produced by the birds is used to fertilize the grassland pastures with additional assistance from some 28 percent nitrogen bag fertilizer that is bought in,” Nina said.



Anthony Khourie examines the heifers at Bosparadys Farm. | CHRIS MCCULLOUGH PHOTO

ADJUSTING TO INDUSTRIALIZATION

U of S celebrates 100 years of home economics

TEAM RESOURCES



BETTY ANN DEOBALD, BSHEc

Immigration and western expansion in Canada brought pioneer families to isolated farms, many with little or no farming experience. Safe water, food production and preservation were critical issues along with hygiene, sanitation, disease and food availability.

Home economics began in the late 1800s in response to worldwide change and development. The agrarian way of life that had provided food, clothing and shelter to generations shifted to an industrialized society that resulted in large-scale migration to cities and abroad.

Adelaide Hoodless of Canada and Ellen Richards of the United States, who were among the founders of home economics, believed that the emerging sciences of germs, bacteria, sanitation and nutrition needed to be available to women to ensure family health and safety.

Richards also recognized that the family was where nurturing, discipline and values were modelled and taught to children, and that the economy of the home, the management of the financial, material, time and energy resources, affect the stability and comfort of the family and society as a whole.

At the University of Saskatchewan, formal instruction in home economics began in 1916.

"The household science department became a school in 1928, a college in 1942 and in 1952 was renamed the College of Home Economics.

"The college was disestablished in 1990, with the home economics teaching area continuing in the College of Education and the nutrition program in the College of Pharmacy, re-named the College of Pharmacy and Nutrition in 1995," reports the university's website, homeconomics.usask.ca.

Currently the home economic education certificate is only offered in Prince Albert through the Saskatchewan Urban Native Teacher Education Program.

This year, the former College of Home Economics will be part of the university's alumni celebrations May 18-21.

Home economics is a multi faceted profession concerned with all aspects of daily living, including interpersonal relationships, financial management, consumerism, food, nutrition, clothing, textiles, housing and design.

The knowledge from the natural and social sciences are linked with the arts to assist individuals and families enrich their daily lives.

The careers of its graduates illustrate the diversity of the degree and its application and influence through the years.

Betty Ann Deobald is a home economist from Rosetown, Sask., and a member of Team Resources. Contact: team@producer.com.



TOP: Ethel Rutter started teaching degree classes in household science at the University of Saskatchewan in 1917. She described the equipment in the original foods laboratory as being two New Perfection coal oil stoves, one sink, a small ice refrigerator, two large cupboards and Bunsen burners under metal screening for top of the stove cookery. | COLLEGE OF HOME ECONOMIC ARCHIVES PHOTO



LEFT: The U of S's College of Pharmacy and Nutrition opened the research and food lab in March in the Health Sciences Building. "These state-of-the-art laboratories will be used to educate the next generation of dietitians and support nutritional research programs in the college," said Kishor Wasan. | DAVID STOBBE/COLLEGE OF PHARMACY AND NUTRITION PHOTO

Helen Hughes, 1954

Through the Consumer Association of Canada, Helen advocated for better labelling of food products. She helped establish Saskatoon's Big Sister Association and the Crisis Intervention Services.



HELEN HUGHES

As a member of Saskatoon City Council, she organized and chaired the Community Liaison Committee working with Metis, First Nations and non-native people to address the problems of housing, health, recreation, employment, justice, education and cross-cultural understanding in an urban city.

She helped found the Native Survival School, (Oskayak High School), dedicated to providing a safe and stable environment to enable students to experience academic success and personal healing. She served on the Victoria City

Council for 18 years, worked in the Office of the Ombudsman and the B.C. Council of Human Rights.

Ann Colley, 1964

Ann worked with Indigenous women on 44 reserves training local instructors in short courses in home management, nutrition, food preparation, money management, knitting and sewing. These instructors then taught more than 1,700. She also taught consumer education, nutrition, home management, family life education, clothing and textiles and family money management courses for homemakers' and 4-H clubs, women's institutes and agricultural societies.

She initiated and produced the university's first television series on major issues of land use, transportation and energy in 1977. During retirement, she took a two-year assignment in Botswana, to teach native women nutrition, sewing, leadership, home and money management.

Elizabeth Dowdeswell, 1966

She was a home economics teacher in Swift Current, Sask., later working in both the provincial and federal governments. She was assistant deputy minister at Environment Canada with responsibility for the Atmospheric Environment Service



ELIZABETH DOWDESWELL

and negotiated the Framework Convention on Climate Change. She led a public inquiry into Canada's unemployment benefits program and federal water policy.

She led the United Nations Environment Program in Nairobi, Kenya, at the rank of under-secretary-general. She is the founding president and chief executive officer of the Nuclear Waste Management Organization.

She is currently the lieutenant governor of Ontario.

Linda Braun, 1976

Linda has worked in the agri-food industry for almost 40 years promoting many Saskatchewan food products, including pork, pulse crops and flax.

She was instrumental in obtaining Health Canada's approval of a health claim for flaxseed and has done research on the use of flax



LINDA BRAUN

fibre. Linda is a co-founder of the CropSphere Conference.

Barb Cox-Lloyd, 1978

She is the chef executive officer for Habitat for Humanity Saskatoon. She organizes volunteers and community partners to build affordable housing to help break the cycle of poverty.

Dr. Wendy Dahl, 1988

The assistant professor in the Food Science and Human Nutrition Department at the University of Florida has done research on the role of dietary and functional fibre in medical nutrition therapy related to kidney disease, and food and nutrition issues of the frail elderly.

For more information on alumni celebrations, contact: andy.collin@usask.ca.

COUNTRY KITCHEN



DOROTHY LONG

For pastry chef Renee Kohlman, cooking daily fuels her creativity and feeds her passion. It's integral to her well-being and baking is interwoven into the fabric of her life.

In good times, baking heightened her celebrations. In sad times, the kitchen gave her comfort and a place to reflect and think things through.

All of this is captured in her first cookbook, *All the Sweet Things*, full of recipes she has developed and gathered and deeply personal stories of her life as connected to the recipes.

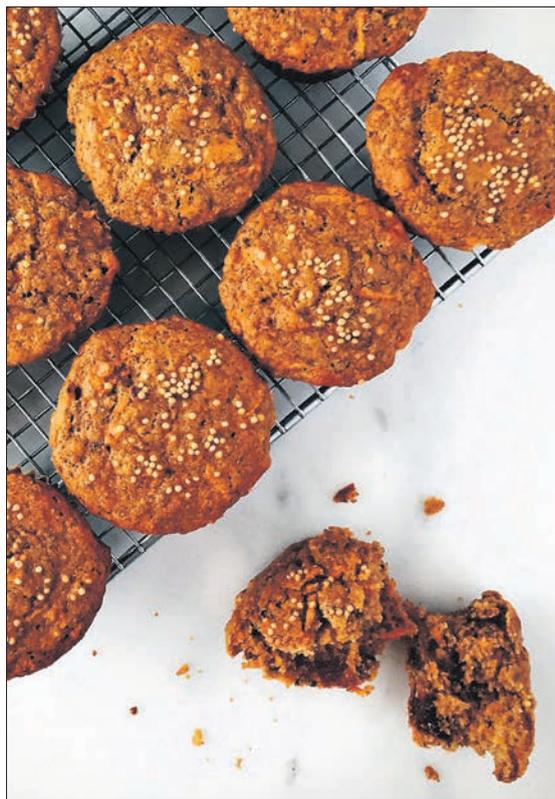
Kohlman has been cooking professionally for more than 20 years and has a food blog, sweetsugarbean.com.

She feels that there is a meditative quality to cooking because it gets you out of your head and engages all your senses. She confesses that some of her best ideas have come to her while washing dishes.

Kohlman's advice for home cooks is simply don't be afraid to bake. If you are confident, that will translate into what you are preparing.

In the end, it is the doing that is important and most likely the results will taste great.

Dorothy Long is a home economist in the agrifood trade and former greenhouse grower from Lloydminster, Sask. She writes a blog at prairiekitchencompanion.blogspot.ca. Contact: food@producer.com.



RENEE KOHLMAN PHOTOS

MULTIGRAIN CARROT, DATE AND MUSTARD MUFFINS

1 c. all-purpose flour	250 mL	1 tsp. baking powder	5 mL
1 c. whole wheat or multigrain flour	250 mL	1 tsp. baking soda	5 mL
1/4 c. ground flaxseed	60 mL	1/2 tsp. salt	2 mL
1/3 c. granulated sugar	75 mL	1 c. chopped pitted dates	250 mL
1/3 c. packed brown sugar	75 mL	1 c. chopped walnuts or pecans	250 mL
2 tsp. ground cinnamon	10 mL	2 large eggs	
2 tsp. yellow mustard seed, plus more for sprinkling	10 mL	1 1/2 c. buttermilk	375 mL
1 tsp. ground ginger	5 mL	1/3 c. canola oil	75 mL
1 tsp. dry mustard powder	5 mL	1 tsp. pure vanilla extract	5 mL
		3 c. grated carrots	750 mL

Line two muffin tins with paper liners, or grease well with butter.

Preheat the oven to 375 F (190 C).

Combine the dry ingredients (all-purpose flour to salt) in a large bowl.

Stir in the nuts and dates. In a medium bowl, whisk the eggs with the buttermilk, oil and vanilla.

Pour over the dry ingredients and stir just to combine. Gently stir in the carrots until well mixed. Scoop into the prepared muffin tins so they are about three-quarters full and sprinkle each

with yellow mustard seed.

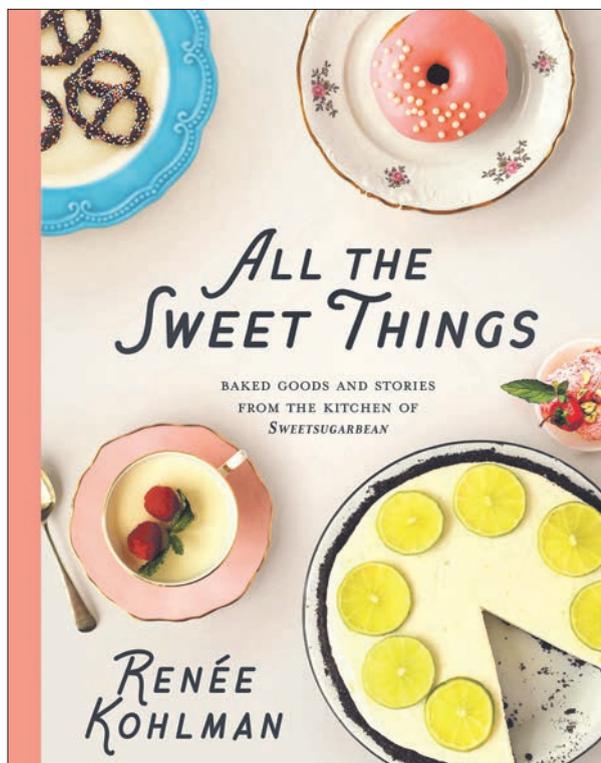
Bake for about 18 to 22 minutes, until a toothpick inserted in the middle comes out clean.

Remove from the oven and let cool on a wire rack for about 10 minutes, then remove the muffins from the tins and let cool completely.

Substitutions: Spelt flour, oat bran or bran can be used instead of the flaxseed.

Source: Developed for SaskMustard by Renee Kohlman.

Time for a treat



RENEE'S FIVE TIPS FOR BETTER BAKING

Measure your flour: The best way to measure flour is to stir the flour and then spoon it to the point of overflowing into the measuring cup. Then use the flat edge of a knife to scrape off the extra flour. This way you will not get too much flour as you would from scooping it from the bag.

Room temperature eggs really do make a difference in baking and when whipping egg whites.

Buttermilk has a specific flavour and texture, so if a recipe calls for buttermilk use it, not just milk soured with vinegar.

Wash up as you go: This advice comes from years of working in small spaces and kitchens. She had to learn how to keep her work space tidy.

Keep instant espresso powder in your pantry. It adds great flavour to baking and is a good backup if you run out of coffee.



LEMON AND CREAM CHEESE MUFFINS

1 1/4 c. all-purpose flour	310 mL	1/3 c. canola or other cooking oil	75 mL
2/3 c. granulated sugar,	150 mL	1/2 c. whole milk	125 mL
2 tbsp. sugar for topping	30 mL	4 tbsp. fresh lemon juice, divided	60 mL
1 1/2 tsp. baking powder	7 mL	1 tbsp. grated lemon zest	15 mL
1/2 tsp. salt	2 mL		
1/2 c. cream cheese, softened	125 mL		
1 large egg, at room temperature			

Preheat the oven to 375 F (190 C). Place the rack in the centre of the oven. Line a muffin pan with 10 papers or grease well with your preferred cooking oil.

Pour some water into the empty muffin cups to stop them from burning.

Combine the flour, 2/3 c. (150 mL) of sugar, the baking powder and salt in a large bowl.

Cut the cream cheese into quarter-inch cubes and work it into the dry ingredients, using a pastry blender or your hands, until small and large chunks of cream cheese remain.

Beat together the egg, oil, milk, two tablespoons (30 mL) of the lemon juice and the lemon zest. Stir this gently into the dry ingredients until just combined.

Scoop the batter into the prepared muffin pan so the cups are about three-quarters full, and bake for 20 to 25 minutes, until the tops are golden and spring back when lightly touched and a toothpick inserted in the centre of a muffin comes out clean.

Stir together the remaining two tablespoons (30 mL) of sugar and remaining two tablespoons (30 mL) of lemon juice in a small bowl. Use a pastry brush to brush this mixture on top of the hot muffins.

Let them cool in the pan on a wire rack for five minutes, then remove them from the pan and let cool completely on the rack.

Store the muffins in an airtight container for one day or freeze for up to one month.

Source: *All The Sweet Things* by Renee Kohlman.

DOUBLE PEANUT BUTTER AND WHITE CHOCOLATE CHUNK COOKIES



- | | | | |
|---|--------|--|--------|
| 1 c. unsalted butter, softened | 250 mL | 2 1/2 c. all-purpose flour | 625 mL |
| 2 c. peanut butter (smooth or crunchy), at room temperature | 500 mL | 1 1/2 tsp. baking soda | 7 mL |
| 1 1/2 c. granulated sugar | 375 mL | 1 tsp. baking powder | 5 mL |
| 1 c. packed brown sugar | 250 mL | 1/2 tsp. salt | 2 mL |
| 2 large eggs, at room temperature | | 3/4 c. white chocolate chips or chocolate chopped into 1/2-inch pieces | 175 mL |
| 2 tbsp. two percent or whole milk | 30 mL | 1/3 c. chopped peanuts | 75 mL |
| 2 tsp. pure vanilla extract | 10 mL | flaky salt, such as Maldon for sprinkling | |

In a stand mixer fitted with a paddle attachment, cream the butter with the peanut butter and both sugars. Beat on high speed for two minutes, scraping down the sides of the bowl once or twice. Add the eggs, milk and vanilla and beat on high for another two minutes, until light and fluffy, scraping the sides and bottom of the bowl once or twice again.

Place the flour, baking soda, baking powder and salt in a medium bowl. Stir well. Add this to the butter mixture and mix on low speed just until combined, scraping the sides and bottom of the bowl. Stir in the white chocolate and peanuts by hand, just until the dough is smooth and incorporated. Cover the bowl with plastic wrap and chill for 30 minutes.

Preheat the oven to 350 F (180 C). Place the rack in the centre of the oven.

Line two baking sheets with parchment paper.

Use an ice cream scoop — mine is about 1/4 cup (60 mL) in volume — to portion out the cookies. Place them about three inches apart on the prepared baking sheets. Flatten the cookies with your hand so they are about half-inch high. Use a fork to lightly make a cross-hatch pattern on top of the cookies. Sprinkle with flaky salt. Bake one baking sheet at a time for eight to 10 minutes, until the middle is set and the edges are lightly browned. Remove the pan from the oven and let the cookies cool completely on the pan on a wire rack.

Keep the cookies in an airtight container on the counter for up to two days or freeze for up to one month.

Source: *All The Sweet Things* by Renee Kohlman.



BROWN BUTTER AND MUSTARD RICE CRISPY TREATS

- | | |
|--------------------------------------|--------|
| 1 tbsp. canola oil | 15 mL |
| 1/2 c. unsalted butter | 125 mL |
| 1 tsp. dry mustard powder | 5 mL |
| 1/2 tsp. salt | 2 mL |
| 22 oz. large jet-puffed marshmallows | 600 g |
| 8 c. puffed rice cereal | 2 L |
| 2 tsp. yellow mustard seed | 10 mL |

Grease a nine x 13-inch (22x33 cm) baking dish with the canola oil and line it with parchment paper so the sides overhang.

In a large pot over medium-low heat, brown the butter. It will get foamy, turn clear and golden then start to brown and smell nutty.

Stir frequently, scraping up brown bits from bottom of pot. Turn heat to low and sprinkle in the dry mustard and sea salt.

Add the marshmallows, stirring constantly until the mixture is smooth and melted.

Remove from the heat and stir in the cereal and yellow mustard seed, stirring until evenly coated. Scrape the mixture into a prepared pan.

Work quickly because the sticky stuff is easier to get out of pot while still hot. Have a bowl of cold water nearby and use wet hands to press the mixture into the pan.

Smooth the top and let it rest for a couple of hours before cutting into squares.

Source: Developed for SaskMustard by Renee Kohlman.

CHEDDAR, CHIVE AND MUSTARD SPELT BISCUITS



- | | | | |
|--|--------|---|--------|
| 1 1/2 c. plus 2 tbsp. (30 mL) all-purpose flour | 375 mL | 1/2 c. unsalted butter, cold, cubed | 125 mL |
| 1 1/2 c. spelt flour | 375 mL | 1 1/2 c. shredded aged cheddar, divided | 375 mL |
| 1 1/2 tsp. baking powder | 20 mL | 1 tbsp. finely chopped chives | 15 mL |
| 1 1/2 tsp. yellow mustard seed, plus more for sprinkling | 7 mL | 1 large egg | |
| 1 1/2 tsp. dry mustard powder | 7 mL | 1 c. buttermilk | 250 mL |
| 1/2 tsp. baking soda | 2 mL | or soured whole milk, soured half and half cream | |
| 1 tsp. salt | 5 mL | 1 large egg, beaten with 1 tbsp. water, for brushing tops | 15 mL |
| 1/4 tsp. pepper | 1 mL | | |

Preheat the oven to 400 F (200 C). Place a rack in the centre of the oven. Line a baking sheet with parchment paper.

Combine the dry ingredients (all-purpose flour to pepper) in a large bowl. Cut in the butter using a pastry blender, or use your fingers, until the mixture resembles coarse meal, but be sure to leave some large pea-sized bits of butter. Stir in one cup (250 mL) of the cheddar and the chives. In a medium bowl, whisk together the egg and soured milk. Pour over the dry ingredients, stirring with a wooden spoon just until a soft dough forms.

Turn the dough out onto a lightly floured surface and pat into a circle about one-inch

(2.5 cm) thick. Cut out 12 biscuits using a 2 1/2-inch (6 cm) cutter, re-rolling the trimmings if necessary.

Arrange the biscuits on the prepared baking sheet. Brush the tops lightly with the egg, sprinkle with remaining cheese and a few mustard seeds. Bake for five minutes, then turn the heat down to 375 F (190 C) and bake another 10 to 12 minutes until the biscuits are golden and the cheese has melted. Let cool on a wire rack.

Substitutions: Use shredded Swiss or Gruyere instead of the cheddar. Use dill instead of chives.

Source: Developed for SaskMustard by Renee Kohlman.

TERIYAKI-GLAZED STEELHEAD TROUT, CUCUMBER, AVOCADO AND MUSTARD RICE BOWLS

- | | |
|---|------------|
| 4 (5 oz.) steelhead trout fillets | 140 g each |
| salt and pepper | |
| 1 tbsp. canola oil | 15 mL |
| 4 c. cooked white or brown rice | 1 L |
| 1/2 English cucumber, diced | |
| 1 carrot, peeled and cut into matchstick pieces | |
| 1 avocado, diced | |
| 6 scallions, thinly sliced | |
| 8 small sheets nori, torn into small pieces | |
| 1/2 c. teriyaki sauce | 125 mL |
| 1 tbsp. yellow mustard seed | 15 mL |
| 1/4 c. mustard sprouts | 60 mL |

Press the trout between paper towels to dry the surfaces thoroughly. Season on all sides with salt and pepper. Heat the oil in a large skillet over medium-high heat until shimmering.

Add the trout fillets, skin side down. Immediately turn the heat down to medium-low and cook, pressing gently on the back of the fillets to ensure good contact between the skin and the skillet, for about six minutes.

If the skin doesn't release easily from the pan, cook a little longer until it lifts easily.

Flip the trout and cook on the other side for about two minutes,

until the fish flakes easily. Transfer to a paper towel-lined plate to drain.

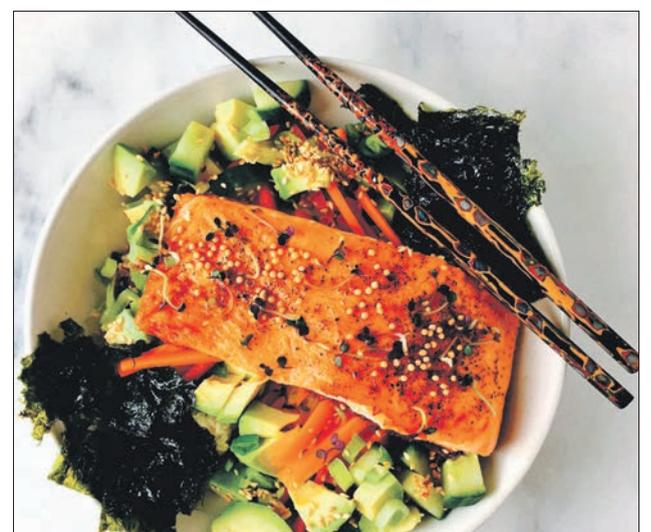
Divide the hot, cooked rice evenly between four bowls. Top with the cucumber, carrot, avocado, scallions and nori.

Place a trout fillet on each bowl, spooning the teriyaki sauce evenly on top. Sprinkle with the mustard seeds and sprouts.

Substitutions: Use wild sockeye salmon instead of the steelhead trout.

Use the snack sized package of nori, found in the natural foods section of most supermarkets.

Source: Developed for SaskMustard by Renee Kohlman.



CLIMATE CHANGE MITIGATION

Environmental ag research programs get federal funding

LETHBRIDGE BUREAU

Twenty new research projects across Canada, involving climate change mitigation, soil and water conservation, will have access to \$27 million over five years from the federal agriculture department.

Agriculture Minister Lawrence MacAulay announced the funds April 21 at the University of Alberta.

The funds are held within the Agricultural Greenhouse Gases Program (AGGP), which aims to create technologies and practices to help the agriculture sector

adjust to climate change.

The U of A itself will receive \$3.7 million for three projects "that will explore the environmental footprint of different cereal crops, cattle grazing systems and shelter belts," said a government news release.

"Canadian farmers are great stewards of the land and the environment," said MacAulay in the news release.

"These new investments are part of the government's commitment to address climate change and ensuring our farming sector are world leaders in the use and devel-

opment of clean and sustainable technology and processes."

The U of A projects include development of a new grazing system for ranchers, investigating the use of perennial cereals and evaluating the environmental impact of shelter belts and hedgerows.

The other 17 projects span the country, from the University of British Columbia's studies on greenhouse gas emissions from blueberry, potato and forage crops to research on willow tree carbon sequestration in New Brunswick and Prince Edward Island.

TRANSPORTATION

CP focuses on better employee relations

Official says labour cuts were necessary but it is time to negotiate long-term agreements with unions

BY BRIAN CROSS

SASKATOON NEWSROOM

The top executive at Canadian Pacific Railway says he is committed to building a stronger relationship with railway employees.

In an April 19 conference call with investors, president Keith Creel acknowledged that relations with the company's unionized workers have suffered over the past few years as the company has taken

steps to lower operating costs and increase efficiencies.

Creel's comments coincided with a new five-year labour agreement that was recently ratified by the United Steelworkers union.

The steel workers agreement covers approximately 600 administrative and intermodal employees in CP's Canadian workforce.

"Over the last four years, we've had some feathers that have been ruffled," Creel said.

"So part of my focus has been to reconnect with our employees and also to reconnect with our labour unions to ensure the things that we maybe didn't get right in the past, we can get right as we move forward."

The five-year agreement with the United Steelworkers Local 1976 includes wage increases of two percent per year.

It also allows for additional wage increases of .5 to one percent per year in the fourth and fifth years of the agreement, contingent on improvements in CP revenues.

The agreement takes effect Jan. 1, 2018, and expires on Dec. 31, 2022.

Creel also acknowledged efforts aimed at improving relations with the Teamsters Canada Rail Conference (TCRC).

However, he defended the company's past decisions related to labour, suggesting that steps needed to be taken to ensure the company's well-being.

"We've driven a tremendous amount of change to restore the health of the company. What we were doing before (in terms of labour costs) was not sustainable," he said.

Creel said he is confident CP will reach an agreement with TCRC members whose contracts are due to expire at the end of the year, including maintenance workers and train running staff.

The railway has now negotiated long-term labour deals with six of its seven Canadian unions.

CP reported first quarter revenues of \$1.6 billion, up one percent from the first quarter of 2016.

Grain volumes were up nine percent compared to the first quarter last year, despite weather-related challenges that affected grain movement.

The company is projecting steady bulk volumes throughout the second quarter, specifically in grain and potash.

brian.cross@producer.com

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- Dan Strilchuk

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AUTO/TRUCK PARTS 1100

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Regina, SK & Brandon, MB

May 25 (Thursday) | June 1 (Thursday)

NEW EVENTS



Volvo G720B – Regina



2012 Hyundai HL780-9 – Brandon



2011 John Deere 160D LC – Regina



2012 John Deere 250G LC – Brandon



John Deere 544J – Regina



2008 John Deere 850J – Brandon



2008 John Deere 310SJ 4x4 – Regina



Boliden-Allis Sandvik H3000 Hydrocone – Brandon



Kenworth T2000 – Regina



Elrus 53 Ft – Brandon



Kenworth T800B w/Westec 3280 Gallon – Regina



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TRAILERS

GRAIN TRAILERS 1505

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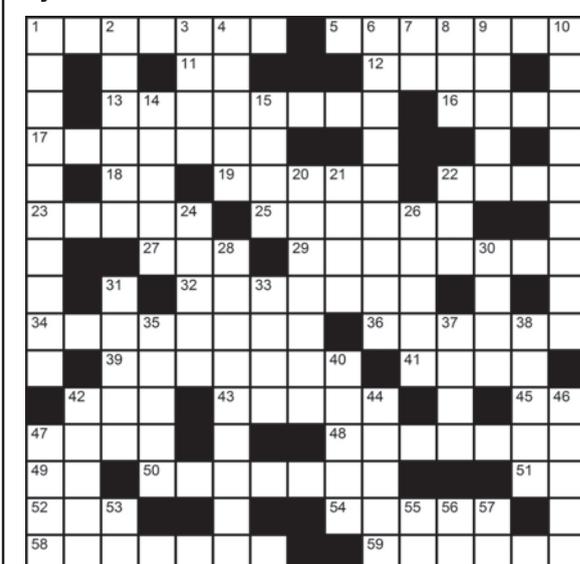
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Entertainment Crossword
by Walter D. Feener



Last Weeks Answers

- ACROSS**
- 1964 heist film
 - Horror film sound effects
 - Initials of the actor who was nominated for the Academy Award for Best Supporting Actor for *Jagged Edge*
 - Suicide Squad* director
 - 1980 television mini-series Lindsay Wagner starred in
 - Character in a 1983 swashbuckling film set in the South Pacific
 - Partners* (1984 TV series) (2 words)
 - Initials of the actor who played Wilbur Post on *Mister Ed*
 - Tobin of *Glee*
 - Campbell who played Julia on *Party of Five*
 - Rosewood's resident "bad boy" on *Pretty Little Liars*
 - Raquel Welch's daughter
 - E. Cathey
 - Film starring Arnold Schwarzenegger and Brigitte Nielsen (2 words)
 - Holy*
 - Free Fire* director
 - She played Wendy in *A Fish Called Wanda*
 - Luke Skywalker's biological mother
 - Gray of *Silver Spoons*
 - Academy Award winning sound editor Asman
 - The Vampire Diaries* heroine
 - Television medical drama series (1994-2009)
 - He plays Kyle, Meachum's personal assistant on *Marvel's Iron Fist*
 - Film starring Cuba Gooding Jr. and Angie Harmon (2 words)
 - This* 40
 - Italian actor Benigni
 - She played Dr. Chi Park on *House*
 - Yilmaz who starred in *Water Diviner*
 - Lindley of *Three's Company*
 - Hahn or Grayson
 - He played Special Agent Daniel Krunitz on *CSI: Cyber*
- DOWN**
- Film starring Donovan Leitch and Joe Pantoliano (3 words)
 - He plays Javier Peña on the Netflix series *Narcos*
 - Global supplier of motion picture film equipment
 - She played Jan Brady on *The Brady Bunch*
 - Adoptive daughter of the Ingalls family on *Little House on the Prairie*
 - Filmmaker _____ Russo-Young
 - Hallow* _____
 - _____ to *Live* (2 words)
 - He had the starring role in *Happy, Texas* (2 words)
 - He starred in *Pretty in Pink*
 - She played Cusack's former wife in 2012
 - He plays Mr. Gold (Rumpelstiltskin on *Once Upon a Time*)
 - The Dark Wind* police officer
 - Keanu's role in *The Matrix*
 - Paradise* co-star Dehl
 - Australian actress Davis
 - 2013 TV series Theo James and Chi McBride starred in (2 words)
 - She had superhuman strength on *Heroes*
 - Wirick and Bridges
 - She starred in *Dreamgirls*
 - Radiologist Dr. Volakis on *House*
 - Joan Crawford's last film
 - 2013 Jake Gyllenhaal film
 - Corsaut of *The Andy Griffith Show*
 - Two if* _____ (2 words)
 - Albert Finney's second wife
 - The French Lieutenant's Woman* director
 - Ex-hitman played by Keanu Reeves
 - Initials of the actor who played an English magistrate in *Braveheart*
 - How* _____ *You Know*
 - Initials of the actor who played Winona Ryder's little brother in *Edward Scissorhands*
 - My Stepmother Is* _____ *Alien*

GRAIN TRAILERS 1505

2001 CANCADE TRI-AXLE, 3 hoppers, good condition, safetied in January, newer tarp, \$25,000. 204-851-0284, Kenton, MB.

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45' USED MICHEL'S ROLL TARP on tube requires minor repairs to centre loop, offers. Gord 306-231-6360, Anaheim, SK.

1998 DOEPKER SUPER B, 30'-32'x72 inches, closed ends, air ride, 11x24 tires - 60%, some rust. 306-593-4419, Rama, SK.

1998 42' WILSON 42' tandem grain trailer, good cond. 403-740-4837, Endiang, AB.

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2008 & 2009 DRAKE grain trailers, 40' tri-axles, 2 hopper, fresh safeties. New tarps, paint, tires, drums, slack adjusters, air bags, shocks, etc. \$36,000/each. Phone Myles 306-745-6140, 306-745-7530 (cell), Esterhazy, SK.

LIVESTOCK TRAILERS 1510



2017 BISON TRAILHAND, 3-horse, 8' LQ #H2006096. Was \$47,900. Now \$42,900. AMVIC Lic. Dir. Call 1-844-488-3142 or shop online 24/7 at: allandale.com

2009 MERRITT HOG trailer, 53', 4 deck, new safety. 403-625-4658, Claresholm, AB



2017 FEATHERLITE 7'x24', #HC143380. Reg: \$35,235, Sale: \$26,500. 3 Compartments. Edmonton/Red Deer, AB. Call 1-866-346-3148 or shop online 24/7 at: allandale.com

1989 TANDEM CATTLEPOT, 48x8.5', good cond., safetied to Oct. 2017, \$17,000 OBO. 204-655-3352, 204-655-3286, Sifton, MB.



NEW WILSON BUMPER PULL MODEL Desert Sales Inc. now stocks the Wilson Ranch Hand bumper pull. With over 15 years of sales and service, we will not be undersold. Bassano, AB., 1-888-641-4508. www.desertsales.ca

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2 WILSON CATTLEPOTS: 53' tri-axle, 1996; 48' tandem, 1999, good cond., w/safety. Fat-trailers. 403-740-4837, Endiang, AB.

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Misc. TRAILERS 1515

24' GOOSENECK 3-8,000 lb. axles, \$7890; Bumper pull tandem lowboys: 18', 16,000 lbs., \$4750; 16', 10,000 lbs., \$3390; 16', 7000 lbs., \$2975, 8000 lb Skidsteer, \$1990 Factory direct. 1-888-792-6283. www.monarchtrailers.com

1995 KALYN TA pintle hitch trailer, \$6700 plus GST. 403-651-8407, High River, AB.



2017 BIG TEX trailer goosenecks: 25', 30' and 33' with mega ramps, 23,900 lbs. GVWR. Start price, \$12,995, incl. free spare. Jason's Agri-Motive, Lafleche, SK., 306-472-3159. www.jasonsagri-motive.ca

COMPONENTS FOR TRAILERS. Shipping daily across the prairies. Free freight. See "The Book 2013" page 195. DL Parts For Trailers, 1-877-529-2239, www.dlparts.ca

2009 BWS EZ-2-LOAD, step deck, 48' with 5' air controlled loading ramp, 9.5' deck width, triple axle, dual wheel, new certification. 780-482-5273, Edmonton, AB., group.6@outlook.com

4 WILSON STEPDECKS 53' all aluminum trailers, front sliders for sale or lease. Phone 306-861-9362, Carlyle, SK.

PRECISION TRAILERS: Gooseneck and bumper hitch. You've seen the rest, now own the best. Hoffart Services, Odessa, SK. 306-957-2033 www.precisiontrailers.ca

2 TRAILMASTER 25,000 litre 4 axle tank trailers. Offers. Phone 306-482-5121, Camduff, SK.

2002 10'x30' WELLSITE trailer, propane pig, A/C, bedroom with bunk beds, Fresh CVIP, \$35,800. Stk #UV1026. On Track Company Inc. 780-672-6868, Camrose, AB

NEW 2017 STEPDECK, 48', TA, beaver-tail, ramps, 11R22.5 rubber, 25,000 lbs. axles, \$29,900. 306-563-8765, Canora, SK



1995 BEDARD 8000 gal. 3 compartment tanker, 3" pump, air ride, new MB safety, \$22,000, can deliver. Call 204-743-2324, Cypress River, MB.

2007 XL triple axle detach. neck lowbed w/rear flip-up axle, new: sandblasted, silts, paint and oak deck, new safety, \$45,000. 204-871-0925, MacGregor, MB.

80 MISC. SEMI TRAILER FLATDECKS/stepdecks, \$2,500 to \$30,000. 10 heavy lowbeds, \$10,000 to \$70,000. Belly and end dumps. 306-222-2413, Saskatoon, SK. www.trailerGuy.ca

ALL ALUMINUM TRAILERS: tridems and Super B Timpte grain trailers. Call Maxim Truck & Trailer, 1-888-986-2946 or see www.Maximinc.Com



NEW 2017 GERMANIC R20-3500 tri-axle end dump, 36'x102", air ride, 11R22.5 tires, alum. outside wheels, manual flip tarp, new MB safety, can deliver, \$56,000. 204-743-2324, Cypress River, MB.

BEHNKE DROP DECK semi style and pintle hitch sprayer trailers. Air ride, tandem and tridems. Contact SK: 306-398-8000; AB: 403-350-0336.

Misc. TRAILERS 1515

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NEW 2017 GERMANIC R20-2800 tandem scissor frame tub style end dump, 28'x102", air ride, hyd. lift gate, 11R22.5 tires, steel wheels, electric tarp, new Manitoba safety, can deliver. \$48,000. 204-743-2324, Cypress River, MB.

3 TRIDEMS, 3 TANDEM stepdecks; Tandem, tridem and Super B highboys; 28' to 53' van trailers. **Tanker:** tandem alum. 8000 gallon; S/A and tandem converters. Ron Brown Imp. 306-493-9393, Delisle, SK. DL #905231. www.rbisk.ca

DOEPKER 32x32' HI-BOY Super B's completely refurbished, over dimensional lights, Beacons, safetied, w/w IH Eagle. Ph Hay Vern 204-729-7297 Brandon, MB.

2005 10'x30' national wellsite trailer, propane pig, A/C, bath w/shower, W&D, microwave, stove, fridge, \$48,575. On Track Company Inc. 780-672-6868, Camrose, AB

TRUCKS

NEWEST TO OLDEST 1595

2005 FORD F150, FX4, 4x4, Supercrew, shortbox 4 dr. 5.4L eng., auto trans, fully loaded, middle console, 260,000 kms, exc., all highway kms, SK registered, \$5600 OBO. 306-238-7969, Goodsoil, SK.

2004 FORD F-350 Super Duty, 1 ton, diesel, standard, long box, 297,000 kms, vg cond, \$6595 OBO. 306-526-3810, Regina, SK.

1997 CHEV 1500, 3 door, 4x4, runs good, some rust, 465,000 kms, asking \$3495 OBO. Gary 306-823-4493, Neilburg, SK.

GRAIN TRUCKS 1675

1975 GMC 6000 3 ton, 350, 31,269 mi., 14' steel B&H, rollup tarp, plumbed for drill fill, \$7000. 306-372-4509, Luseland, SK.

1978 GMC 6500 tandem, 366 gas, 5&8 trans. 18' B&H, roll tarp, with remote hitch and endgate, \$6500 OBO. 403-820-0145, Drumheller, AB.

1979 FORD 9000, tandem, 671 Detroit, c/w 22' steel B&H, \$14,500. 780-679-7795, Camrose, AB.

1984 FORD F600, 14' wood B&H, roll tarp, 52,700 kms, 920 tires, original owner, shedded, \$9800 OBO. 780-361-7947, 780-352-2818, Gwynne, AB.



1998 FREIGHTLINER FL60, 5.9 Cummins, auto, 15' BH&T, 22.5 low profile, 9+17,500 rear, hyd. disc brakes, fresh Sask safety, \$34,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2007 MACK, 10 speed Eaton auto., new 20' CIM B&H, 380,000 kms., fresh Sask. safeties. Call 306-270-6399, Saskatoon, SK. www.78truxsales.com DL #316542.

2008 WESTERN STAR, Eaton AutoShift, new 20' B&H elec. tarp; 2008 IH 7600 tandem, ISX Cummins 10 spd., new 20' BH&T; 2007 Peterbilt 330 S/A, Allison auto., new 15' BH&T; Ron Brown Imp. 306-493-9393, DL #905231 www.rbisk.ca

30+ TANDEMS: Standards & Automatics, \$46,000 and up. Yellowhead Sales, 306-783-2899, Yorkton, SK.

ALLISON AUTOMATIC TRUCKS: Several trucks with auto. trans. available with C&C or grain or gravel box. Starting at \$19,900; 2002 IH 4400 DT466, Allison auto., 20' B&H, \$56,900. Call K&L Equipment, 306-795-7779, Ituna, SK. DL #910885. ladimer@sasktel.net

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GRAIN TRUCKS 1675

2009 MACK CH613, MP8 Mack eng., 430 HP, 10 spd., AutoShift, 463,000 kms, exc. shape, new 20' box, A/T/C, \$73,500; 2009 IH Transtar 8600 w/Cummins eng. 10 spd., AutoShift, new 20' BH&T, 742,000 kms, exc. tires, real good shape, \$69,500; 2007 IH 9200, ISX Cummins, 430 HP, AutoShift, alum. wheels, new 20' BH&R, fully loaded, 1,000,000 kms, real nice, \$67,500; 2009 Mack CH613, 430 HP Mack, 10 spd., AutoShift, new 20' BA&T, alum. wheels, 1.4 million kms, has bearing roll done, nice shape, \$69,500; 2007 Kenworth T600, C13 Cat, 425 HP, 13 spd., AutoShift, new 20' BH&T, alum. wheels, new paint, 1.0 million kms, exc. truck, \$71,500; 1996 Midland 24' tandem pup grain trailer, stiff pole, completely rebuilt, new paint and brakes, exc. shape, \$18,500; 1999 IH 4700 S/A w/17' steel flatdeck, 230,000 kms, IH dsl, 10 spd., good tires, \$19,500; 1998 Freightliner tractor, C60 Detroit, 430 HP, 13 spd., alum. wheels, sleeper, good rubber, \$17,500; 2005 IH 9200 tractor, ISX Cummins, 430 HP, 13 spd., alum wheels, flat-top sleeper, good rubber, \$22,500. All trucks SK safetied. Trades considered. All reasonable offers considered. Arborfield SK. DL 906768. Call Merv 306-276-7518 res., 306-767-2616 cell.

CAB AND CHASSIS: 2010 Chev 3500 1 ton dually, will take 10'-12' deck, 6L gas, 195,000 kms., fresh Sask. safety, \$8900; 2000 Sterling tandem, 435 HP Cat, 10 spd. trans, will take 20' box, extremely low kms, \$19,900. Call K&L Equipment, 306-795-7779, Ituna, SK. DL #910885. ladimer@sasktel.net

TANDEM AXLE GRAIN TRUCKS in inventory. New and used, large inventory across Western Canada at www.Maximinc.Com or call Maxim Truck & Trailer 1-888-986-2946

GRAVEL TRUCKS 1676

2012 IHC TRANSTAR, low pro, Max 300 HP diesel Allison auto. trans., single axle, loaded cab, 13' Armstrong landscape dump, \$39,900; 2006 CHEV 1 TON dump truck w/10' gravel dump, \$14,900. K&L Equipment and Auto. Call Ladimer, 306-795-7779, Ituna SK. DL #910885.

2013 MACK CHU613 Pinnacle, 505C, 18 spd., 14 front/46 rear axles, 15' Renn box, 175,000 kms, equipped for pup, elec. tarp, Webasto heater, alum. rims, \$100,000 OBO. 306-731-7266, Strasbourg, SK.

2013 MACK CHU613 Pinnacle, 505C, 18 spd., 14 front/46 rear axles, 15' Renn box, 175,000 kms, equipped for pup, elec. tarp, Webasto heater, alum. rims, \$100,000 OBO. 306-731-7266, Strasbourg, SK.

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SEMI TRUCKS 1677

1981 IHC F2574 671 13 spd., 240 WB, 20' B&H c/w silage gate, \$22,000. During the day, call 403-932-2131, Cochrane, AB.

1989 IH EAGLE, 425 CAT, 3406 engine, 5th wheel, 24.5 alum. budds, white, \$16,500. 306-960-3000, St. Louis, SK.

1995 WESTERN STAR Conventional w/2007 tri-axle GravHaul endump trailer, \$38,000 plus GST; 1994 Mack CH613 w/1990 Midland TA endump, \$13,000 plus GST. 403-651-8407, High River, AB.

2000 MACK, daycab, 18 spd., 3-way locks, 460 HP eng. brake, fleet vehicle, 1.2M km, \$18,750 OBO; 2006 KW T800, C13 Cat, 13 spd., 430 HP, 1.6M kms, service history fleet vehicle; 2008 Pitts 50T tri-axle drop deck, new wood floor, tires 90%, w/ramps, \$34,500. Ph 306-291-4869, Dundrum, SK.

2003 VOLVO 670, premium truck, ISX-450 Cummins, 10 spd., 12,500 front, 40,000 rears, 24.5 alum. wheels, 4:11 ratio, 944,000 kms. 780-608-5110, Camrose, AB.



2006 FREIGHTLINER COLUMBIA, single axle, 455 HP Detroit 60 series, 10 spd., 470,000 kms., fresh safety, \$25,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK

2006 FREIGHTLINER Columbia, 425 HP Mercedes 10 spd., wet kit, 2-way diff. locks, \$17,500; 1997 Volvo daycab, 375 HP, 13 spd., \$12,500; 1996 KW N14 Cummins, 500 HP, 18 spd., 2-way lockers, \$27,500. 306-596-4231, Regina, SK.

2006 WESTERN STAR, Series 60 Detroit, 18 spd. trans., 46 rears, 450,000 kms, \$7,000 work order, fresh CVIP, \$39,000. 780-983-0936, Clyde, AB.

2016 VOLVO 670 w/warranty; 2014 730, D16 eng., 18 spd.; 2012 Volvo 630, D16 engine deleted. 204-466-2927, Austin MB

SEMI TRUCKS 1677



2010 PETERBILT 367 Daycab, 485 HP Cummins, 18 spd., Super 40's, 365,000 kms., fresh safety, \$62,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.



2011 VOLVO 730, 77" mid-roof, Volvo D16-550 HP 18 spd. trans., Super 40's, as is, \$44,900. 204-761-7797, Brandon, MB.



2012 MACK PINNACLE CXU613, 34" flat-top sleeper, removable roof fairing, Mack MP8, 455 HP, Eaton 13 spd trans, safetied, \$36,900. Norm 204-761-7797 Brandon MB

2013 MACK RAWRIDE, auto. trans., heavy rear end, 505 HP c/w 2015 Etnyre Black Hawk equipment trailer, 10'W, tridem lift axles, alum. wheels, pullouts. Great for Farm Dealership. Sell as unit or separately. Call 780-720-4304, Willingdon, AB.

2015 WESTERN STAR 4900 FX daycab, DD16, 189188, 46,000 Rockwells, 4-way lockers, Airliner suspension, Airway scales, 11x24.5 tires on alum. at 95%. Split fuel tank, 310,000 kms, 5800 hrs., Transferable Virtual Technician, c/w logging headache rack, \$105,000. Available w/2016 Peake tri-axle log trailer, 6-9.6 bunks, quad axle compatible, 12x22.5 tires on alum. at 70%. Used 2 winters \$55,000. Will sell complete unit for \$150,000. Scott 306-747-9322, Tom 780-713-5967, Shellbrook, SK.

3 TANDEM FREIGHTLINERS, 12.7 Detroit, Integral bunks, lockers; 3 line skidders; 3 3yd. wheel loaders. Call/tx 306-469-7969.



AUTOMATIC DAY CAB Heavy Spec, 2009 FTL D15, Eaton 18 spd. AutoShift w/pedal, 12 fronts, 46 hrs, 186' WB, inspected, nice truck, 1,079,820 kms, \$39,900 OBO. Bert 604-819-6477. www.exxel.ca DL #31180.



2009 F550 6.4 dsl, auto., 11' deck, 2 WD, real good truck, only 200,000 kms, \$16,900. Cam-Don Motors, 306-237-4212, Perdue, SK.

WANTED: 17 BALE PICKER DECK for semi truck or trade for 32x32' hay trailers and IH semi truck. Ph/tx Hay Vern 204-727-4683, Brandon, MB.

SPORT UTILITIES 1682

2009 FORD EXPLORER LTD., V8, AWD, loaded, 4 leather buckets, new winter tires, very good condition, 219,000 kms. Photos. 306-843-2934, Wilkie, SK.

2016 SUBARU FORESTER name top pick for 2016. Starting from \$29,360. Great selection to choose from!! 1-877-373-2662, www.subaruofsaskatoon.ca DL #914077.

VARIOUS 1685

2008 IH 7600 tandem 24' van body, power tailgate, 10 spd. ISX; 2007 Freightliner auto. trans., 22' van, reefer power tailgate. Ron Brown Imp. 306-493-9393, Delisle, SK. DL 905231 www.rbisk.ca

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SEMI TRUCKS 1677

VARIOUS 1685

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2017 CHEV & GMC 1/2 TON DOUBLE CAB 5.3L V8, loaded, trailer pkg, heated cloth, 8 in stock. Stock #H1382
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2017 BUICK ENCLAVE LEATHER AWD 3.6L V6, loaded, heated leather, 70 in stock. Stock #H1312
MSRP \$55,545 Starting at \$51,125

MEDIUM DUTY TRUCKS

2008 GMC C7500 REGULAR CAB 8.1L V8 Allison, 2300 Series, 5 spd, Driver Seat w/air Suspension, Air, Cruise, Tilt, Pwr Door Locks, Pwr Mirror, Electric Air Compressor, Dual Fuel Tanks, Traction Control, Dual Note Electric Horn, AM/FM Radio, 8.5x16x55" CIM Box & Hoist, Roll Tarp, White, 32,723Kms
Stk#M7220B \$46,995

2006 WESTERN STAR 6121 TRI AXLE Detroit 6Cyl, 14.0L, 475 H.P. 18 Spd Full CV 60 Series, Loaded, 8 1/2"x24"x65" Ultra 2 CIM Box, K-110 Harsh Hoist, Michells 24' Electric Tarp, Airshift PTO, Remote endgate & Hoist, 11-24-5 Tires, Aluminum Wheels, Led Clearance Light, Grey Box, 632,505Kms, Stock#M7272 \$78,995

2001 INTERNATIONAL 9100 SERIES C-12 CAT 375-450HP 10 SPEED FULLER TRANS Air ride seats, Pwr Passenger Window, Trailer, Castleton 36 Foot, Dual Openers, Side Chutes, Aluminum Grain Trailer, White, 530,000Kms, Stk#G1440A \$65,995

1974 CHEVROLET C-60 15 Ft Box Roll Tarp, Manual Windows And Locks, Grey Vinyl, Green, 52,460Kms
Stock#G1756b \$7,995

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MITE FREE HONEY BEE packages, 1.5 KG package with Queen. Spring delivery. 306-534-2014, 306-740-8026, Spy Hill, SK. moesplace@sasktel.net

STRONG 5 FRAME NUCS, \$225; Also good local queens available starting June 15th, \$30 CDN. Call John 306-221-4569, Saskatoon, SK.

BUILDING/RENOVATIONS

LUMBER 2520

RAILWAY TIES: \$16 each or \$350 for a bundle of 25. Phone 1-800-667-4515. www.combineworld.com

DISCOUNT PLANNED LUMBER/ TRUSSES 2x6x14", \$6 each; 2x6x12", \$5 each. 306-668-0199 leave msg, Martensville, SK.

ROUGH LUMBER: 2x6, 2x8, 2x10, 1" boards, windbreak slabs, 4x4, 6x6, 8x8, all in stock. Custom sizes and log siding on order. Call V&R Sawing 306-232-5488, Rosthern, SK.

ROOFING 2550

WANTED: METAL ROOF PANELS for a Fairford 50' wide quonset. 204-834-3012, Carberry, MB.

TRUSSES: 35' trusses, 6/12, 20 pieces. \$2500 OBO; 20' mono trusses, 4/12, 40 pcs, \$2000 OBO; 22' trusses, 4/12, 16 pcs, \$1500 OBO. 306-668-0199 Martensville SK

CONTINUOUS METAL ROOFING, no exposed screws to leak or metal overlaps. Ideal for lower slope roofs, rinks, churches, pig barns, commercial, arch rib building and residential roofing; also available in Snap Lock. 306-435-8008, Wapella, SK.

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BUILDINGS 2601



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COVER-ALL 40x60' TRUSS arch shelter, dismantled. Offers. Phone 306-563-6022, Canora, SK.

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SAND AND GRAVEL BUSINESS: Close to Regina (on primary), very good pit lease, new cone crusher and 3-deck screener, lots of newer equipment, trucks, genset, inventory. Customer base and over \$1,000,000 gross 2016, \$1,750,000. 306-536-5055, norm@skynorth.com

LARGE BUILDING AND property on Broadway Ave, Yorkton, SK.; Large building in Prince Albert, SK.; 3 lots on South service road, Weyburn, SK.; Tempo/Tire shop #48 Hwy. Windhorst, SK, independent auto repair business for sale in Regina; Hotel and restaurant on Hwy.#48; 160 acres near Regina w/yard and business opportunity; SW SK. restaurant, lounge incl. 15 room motel. Brian Tiefenbach, 306-536-3269, Colliers Int. Regina, SK. www.collierscanada.com

BUSINESS SERVICES

FINANCIAL/LEGAL 2902

FARM/CORPORATE PROJECTS. Call A.L. Management Group for all your borrowing and lease requirements. 306-790-2020, Regina, SK.

DEBTS, BILLS AND charge accounts too high? Need to resolve prior to spring? Call us to develop a professional mediation plan, resolution plan or restructuring plan. Call toll free 1-888-577-2020.

COLLECTIBLES 3200

OLDER COMIC BOOKS wanted by private collector. 403-578-7033, Calgary, AB. william.heidecker@gmail.com

COMIC BOOKS, OLDER than 1980, in great shape! Collector comics; Movie posters; Superhero; War 306-552-9470, Regina, SK.

CONTRACTING

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CUSTOM SEEDING - Full service. Now booking. References available. Call Lynden at 306-255-7777, Colonsay, SK.

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LONG LAKE TRUCKING, two units, custom hay hauling. 306-567-7100, Imperial, SK.

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CUSTOM TRUCKING 3550



EQUIPMENT HAULING. Serving Western Canada and Northwest USA. Call Harvey at 1-877-824-3010 or cell 403-795-1872. Vandenberg Hay Farms Ltd., Nobleford AB. Email: logistics@vandenberg-hay.ca

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WILL DO CUSTOM FENCING new and repair barbwire fences. Lazy J Ranch, Jesse Wagner at 306-662-8557 Fox Valley, SK.

LAND CLEARING. Rock picking and digging, stone piles, brushing, fencing, demolition. 306-291-9658, Vanscoy, SK.

REGULATION DUGOUTS: 120x60x14", \$2000; 160x60x14", \$2950; 180x60x14", \$3450; 200x60x14", \$3950; Larger sizes available. Travel incl. in Sask. Gov't grants available. 306-222-8054, Saskatoon, SK.

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CONSTRUCTION EQUIPMENT 3600



CAT TELEHANDLER Model TH460B, 4 WD, heated cab, cab guard, \$32,000. Clyde, AB., call 780-983-0936.

2011 HITACHI ZX270 LC-3 hyd. thumb excavator, Cat walks, 6950 hrs., 12' 6" stick, c/w QA bucket, exc. cond. \$115,000. 204-325-8019, 204-362-1091, Winkler, MB

2007 JD 200 and **JD 330** trackhoes, \$55,000 ea Call 780-983-0936, Clyde, AB.

SKIDSTEER ATTACHMENTS: Buckets, rock buckets, grapples, weld-on plates, hyd. augers, brush cutters and more large stock. Top quality equipment, quality welding and sales. Call Darcy at 306-731-3009, 306-731-8195, Craven, SK.

NORDBERG GRAVEL CRUSHER conveyor, \$150,000; Ford F700 tow truck, fully equipped, \$22,900. Pro Ag Sales, 306-441-2030, North Battleford, SK.

Neyaskweyak Group of Companies Inc. ("NGCI"), on behalf of the Ermineskin Cree Nation, seeks an experienced partner or group of partners to take over existing farming leases, amalgamate our lands and develop Ermineskin Cree Nation's land to its best and highest use.



Ermineskin Cree Nation (on reserve) lands consists of 16,500 acres of cultivated chernozem (black soil) and 3,500 acres (off reserve) non-cultivated forest and pasture located within the County of Wetaskiwin (the "Lands"). The Lands are valued in excess of \$60 million.

The mandate of NGCI is to achieve self-sufficiency and sustainability through long-term investments and business development. NGCI's mission is to promote and maintain viable and profitable businesses and investments that create employment and enhance human capacity.

Scope of Work
The proposed engagement may include, without limitation, the production of oilseed, grain, forage and pulse crops; grow vegetable and greenhouse crops and establish dairy, beef, hog, poultry, sheep herds or other agricultural products (the "Work"). All other terms relating to the performance of the Work, payment, profit sharing, the amount of the Lands to be cultivated, the exact nature of the Work is to be negotiated.

Responding to the Request for Interest:
Those who have interest in performing the Work should contact NGCI to express interest.

NGCI will provide further information relating to the Lands upon request.
Please address any inquiries in writing to
Mr. Sam Minde, President & CEO of NGCI,
E-mail: sam@ngcinc.ca no later than June 30, 2017.

Please Note: This request for interest is not intended to create contractual relations of any kind and is a request only for interested parties to provide further information and to solicit expressions of interest in performing the Work. NGCI shall not be responsible of any costs or expenses incurred by interest parties in responding to this request for interest.

CONSTRUCTION EQUIPMENT 3600



TEREX 8230 B DOZER, V8 71 T Detroit eng., 385 HP straight tilt blade, 26" pads, UC like new, bush canopy, exc. cond., can deliver, warranty, \$72,000; Terex 8240B crawler dozer, V8 871 Detroit eng., straight tilt dozer, powershift, 26" pads, bush canopy, exc. cond., can deliver, warranty, S/N #56729, 4957 hrs., \$69,000. 204-743-2324, Cypress River, MB.



1981 DRESSER TD 20 E Dozer, Cummins 8.3 eng., new UC 26" pads, rebuilt trans, torque, steering, 14" twin tilt angle blade, bush ready, root rake avail. at extra cost, winch, 60 hr. warranty, S/N #031911, unit weight is 49,000 lbs., can deliver, \$76,000. 204-743-2324, Cypress River, MB.

1980 D8K CRAWLER, dirt tilt blade, bush sumps, good undercarriage, \$38,000. 204-525-4521, Minnotonas, MB. Website: www.waltersequipment.com

EQUIPMENT BLOWOUT! Cat D2-5U w/loader, \$3900; Cat D2-5U w/PTO, \$2900; Cat D2-5U w/Hyster winch, \$2900; Cat D2 J Series w/dozer, \$2900. All four units w/attachments, \$11,900; 3 Cat D4-7U w/dozers, all for \$11,900; IH TD9 92 Series w/loader, \$5900; IH 175-C crawler w/loader, \$6900; A/C HD6 loader w/blade, \$6900; A/C HD6 crawler dozer, \$5900; 2 Cat 955K crawler loaders, \$6900 each; Cat D7-3T hyd. dozer and rake, \$8900; IH TD-15 crawler w/dozer, \$6900; 2 MF crawler loaders, \$7900 for both; Cat D8H hi-Horse, hyd. setup for scraper, \$12,900; 2 Cat 463 cable scrapers, \$21,900 for both 3 Ditch Witch trenchers, \$17,900 for all; Volvo L-320 loader, \$19,900; GD 750 air compressor, \$5900; Vermeer DX711 directional drill, \$5900; IH 574 tractor loader, rear 3PTH blade, \$5700; Work ready graders: JD, Champion, Galion, starting at \$8900; 10 cranes and draglines; 2 JCB and Pettibone telescopic forklifts; 2 Case 1085-C rubber tire excavators, \$12,900; JD 190E excavator, \$19,900; New and used culverts, many types and sizes; Skidsteer QA post pounder, new over \$11,000, our low price \$4900; Hundreds of attachments and useable pieces of equipment not listed. Central Canada's largest wreckers of used construction equip. New and used parts for most models of heavy equip. Cambrian Equipment Sales Ltd. Call 204-667-2867 or fax 204-667-2932, Winnipeg, MB.

2005 LINK-BELT 290 hoe; D7G PS dozer ripper, \$56,500; Smooth drum packer w/Detroit eng. 306-236-8023, Goodsoil SK

2004 CAT D6N dozer with 6-way blade and ripper, \$78,000. Call 204-871-0925, MacGregor, MB.

FOR SALE: Used telehandlers, boom lifts and skid steers. Call 403-396-7078, www.dbequipmentsales.com

ALLIS CHALMERS ROAD grader, 14' mo-board, \$6000. Phone 306-642-8111, Assiniboia, SK.



2013 JCB 550-140 TELEHANDLER, bought new in 2015, 1825 hrs., diesel power, PS trans., 4 WD, 4-way steering, very good tires, 10,000 lb. capacity, 45' reach height, hydraulic outriggers, full cab w/heat and A/C, c/w 1.8 yard bucket and pallet forks. 3 yd. bucket optional, Andrew, AB. Call Bill, 780-365-2020, 780-210-0800.

JOHN DEERE 7728H grader, with snow wing, good running condition. Call 306-238-4411, Goodsoil, SK.



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2010 JD 870 GP grader, 6612 hrs., new transmission 700 hrs. ago, new batteries and windshield, near new front tires, good condition, \$130,000. Call 306-372-4502, 306-372-7336 cell, Luselard, SK.

HYDRAULIC SCRAPERS: LEVER 60, 70, 80, and 435, 4 to 30 yd. available. Rebuilt for years of trouble-free service. Lever Holdings Inc. 306-682-3332 Muenster, SK.

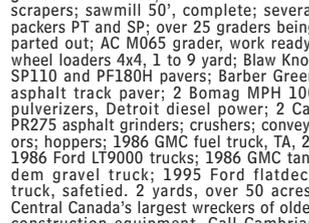
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2004 CAT D7R XR hyd. angle tilt dozer, 3 shank ripper, very good condition. Call 780-983-0936, Clyde, AB.

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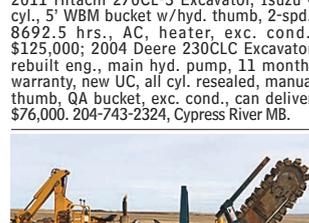
2003 DEERE 544H wheel loader, with Q/A bucket, rebuilt trans, 12,013 hrs. Machine is in vg cond., all around pins are tight! \$65,000. Can deliver. 204-743-2324 any time. Cypress River, MB.



KELLO DISC BLADES and bearings: 22" to 42" notched. Parts: oilbath and greaseable bearings to service all makes of heavy construction discs. Call: 1-888-500-2646, Red Deer, AB. www.kelloughs.com



2008 CASE 210B Excavator, Isuzu 4 cyl., rebuilt hyd. pump w/1 year warranty, new UC, resealed hyd. boom cyl., \$79,000; 2011 Hitachi 270CL-3 Excavator, Isuzu 4 cyl., 5' WBM bucket w/hyd. thumb, 2-sp-d., 8692.5 hrs., AC, heater, exc. cond., \$125,000; 2004 Deere 230CLC Excavator, rebuilt eng., main hyd. pump, 11 months warranty, new UC, all cyl. resealed, manual thumb, QA bucket, exc. cond., can deliver, \$76,000. 204-743-2324, Cypress River MB.



1999 CASE TRENCHER, HD, 1927 hrs., 60 HP diesel, 2 spd. hydro., trans., 4-wheel steering, 6-way blade, D125 backhoe with outriggers, 6' HD chain, exc. cond. \$22,500, 306-648-7172, Gravelbourg, SK.

CAT 435 HYD. Scraper, 12-14 yards, vg cond., \$34,000; Fiat-Allis FL14-B Crawler, vg cond., \$14,000, 204-638-1722, Dauphin

REX PULVI-MIXER ROTOTILLER 8', Detroit diesel, cab, work ready, \$8200. 306-783-8783, Yorkton, SK.



2015 TM320 JCB, 938 hrs., diesel power, PS, 4WD articulating steering, excellent condition, 7500 lb lift, 17' lift, full cab with heat & AC, c/w 3 yard bucket. Warranty Expires Oct 27, 2017. Andrew, AB. Call Bill, 780-365-2020 or 780-210-0800.



KOMATSU D85 P-21 dozer, rebuilt motor, trans., torque, steering, final drives, 85% UC, 36" pads like new, 16' twin tilt angle blade, AC, heat, warranty, \$98,000. Can deliver. 204-743-2324 any time Cypress River, MB.

1974 CAT D7F, 14' angle dozer, 26" pads, 3306 eng., 60% UC, vg cond., \$38,000 OBO. 204-467-2109, Stonewall, MB.

2010 CAT 950H WHEEL Loader, 27,417 hrs., w/Cat quick coupler bucket, 3-3/4 cu. yards, 23.5x25 tires, F.O.B. \$75,000. 204-795-9192, Plum Coulee, MB

JD 844J wheel loader, 14,000 hours, exc. condition. Call 780-983-0936, Clyde, AB.

24"x48" PARKER GRAVEL screener, 48x120' screen deck plus several different screen sizes. Call 306-482-5121, Canduff, SK.

KUBOTA EXCAVATOR KX080-3, 10 ton, 2011, 1800 hrs, CAH, wrist-o-twist bucket, \$58,000. 306-940-6835, Prince Albert, SK.

CONSTRUCTION EQUIPMENT 3600

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CAT 9805C LOG grapple fork, bucket, new tires; Case 2870, Deg. dozer 4x4; 1981 GMC 17' B&H. 306-236-8023, Goodsoil, SK

D8H TRACK w/new 26" Severe Service pads; 1000 gal. steel fuel tank w/stand; Building moving dollies. 3

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3510 WALINGA AGRI vac, small vac, barely used, 30 HP motor suitable for terminal use, excellent cond., \$12,000 OBO. Email: pat.gibney@hawksgro.com or call 306-690-3118, Moose Jaw, SK.

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BRANDT 1545 BELT CONVEYOR, exc. shape, no fertilizer use, hyd. wheel mover kit, new hyd pump in 2016, elec. clutch, Kohler 29 HP EFI engine in 2014, \$13,500. 306-563-6244, Canora, SK.

FERTILIZER EQUIPMENT 4112

FERTILIZER SPREADERS, 4-8 ton, 10 ton Willmar Tender. Phone 204-857-8403, Portage La Prairie, MB.

FERTILIZER STORAGE TANKS, 11,000 US gal., \$6500 pick up at factory or \$7000 free freight to farm. 1-800-383-2228 www.hold-onindustries.com 306-253-4343

2003 VALLEY PACKING SYSTEM 2000 liquid cart c/w autorate, 1 season on rebuilt John Blue pump, Honda 2" fill pump, good cond. \$15,000 OBO. 306-675-4566, 306-795-7382, Leross, SK.



2010 TERRAGATOR 8204 w/AirMax Precision 2 1000 bed, 4400 hrs., \$93,500 USD; 2008 Ag-Chem 8244 4 WD, airflow bed, 70' booms, \$69,500 USD; 2006 8204 twin bin, 5600 hrs., \$59,000 USD. Choteau, MT phone 406-576-3402 or 406-466-5356, www.fertilizerequipment.net

FLOATERS: 2 - 2014 New Leader L4000's, 14', w/spin spreaders, on IHC Navistar truck chassis, only 39,850 kms, 295 cu. ft. box with tarp, AutoSteer, exc. condition, choice, \$219,000. Agriterra Equipment, High River, AB. 403-652-2414.



2005 PETERBILT STAHLY, Cummins, Allison auto, New Leader L3020 G4, monitor, New Leader controller, Starlink GPS 4145 hrs., \$78,000; **2004 Peterbilt**, Cummins, Allison auto, 1800 gal stainless, 80' boom, Raven controller, Raven AutoSteer, Raven section shutoff, 4270 hrs., \$65,000. USD prices. 406-576-3402, 406-466-5356, Choteau, MT. www.fertilizerequipment.net

IHC 6400 54" chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

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CB 2150 GAL. Pattison liquid cart, John Blue twin piston pump, 2" Honda pump, \$17,000; PLS 4200 gal. Pattison liquid cart, hydraulic pump, 3" Honda pump, used 2 seasons, \$46,000. 306-885-4545, 306-537-2563, Sedley, SK.

GRAIN AUGERS 4115

AUGERS: NEW and USED: Wheatheart, Westfield, Westeel augers; Auger SP kits; Batco conveyors; Wheatheart post pounders. Good prices, leasing available. Call 1-866-746-2666.

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WANTED: 10"x 60"-70" swing auger, complete with reverser. Call 780-405-8089, Tofield, AB.

2 (2006) MICHEL'S grain fill augers for hopper trailer, Installation, instructions and operators manual available on Michel website. Units are painted with tough (Gator boxliner) paint and ready to install and use, very good condition, \$3000 OBO. 204-750-2624, Sperling, MB.



2011 BUHLER FARM KING 16-104 Auger, hyd. swing out, low hrs., exc. cond., can deliver, one owner - selling due to buying new equip., \$29,000. Call 204-743-2324, Cypress River, MB.

NEW MERIDIAN RM45, \$34,000; Used 2012 BRANDT 1545 conveyor, exc. cond., \$19,000. 306-648-3622, Gravelbourg, SK.

2009 FARM KING 1385, hyd. swing mechanical drive, \$12,000. Call Ron 306-648-5394, Ferland, SK.

MERIDIAN AUGERS IN STOCK: swings, truck loading, Meridian SP movers. Call Hoffart Services Inc., Odessa, SK., 306-957-2033.

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2007 BRENT MODEL 620 grain cart, PTO or hydraulic drive, new condition, \$21,000. Call 306-577-8771, Carlyle, SK.

GRAVITY WAGONS: New 400 bu, \$7,400; 600 bu., \$12,500; 750 bu., \$18,250. Large selection of used gravity wagons, 250-750 bu. Used grain carts, 450 to 1110 bushel. View at: www.zettlerfarmequipment.com 1-866-938-8537, Portage la Prairie, MB.



2016 MANDAKO 1200 bu. grain cart, steering axle, hyd. susp., \$74,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

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DUAL STAGE ROTARY SCREENERS and Kwik Kleen 5-7 tube. Call 204-857-8403, Portage la Prairie, MB. or visit online: www.zettlerfarmequipment.com

FOREVER 54 DUSTLESS screen cleaner, complete working order, includes machine, stands, screens, 15' bucket elevator, 58 screens in total for cleaning wheat, barley, oats, flax, canary grass, peas. Come see it in action. 306-563-6244, Canora, SK.

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BALE SPEARS, high quality imported from Italy, 27" and 49", free shipping, excellent pricing. Call now toll free 1-866-443-7444, Stonewall, MB.

NH 1033 STACKLINER bale wagon, in working cond., \$3000. Can deliver. Rose-town, SK. 306-831-9979 or 306-882-3141.

2007 NH BR780A, 1 owner, wide PU, 20,000 bales, like new. Lloydminster, SK. 306-825-2440, call 780-872-6461.

2005 JD 567 baler, MegaWide twine and netwrap, 18,000 bales, vg condition, \$19,500 OBO. 204-886-3407, Teulon, MB.

MOWER CONDITIONERS 4142

NEW HOLLAND 1441 hydro-swing discbine, 15'8" wide, new drive belts, exc. cond., used this season, \$22,000. Call 306-238-7969, Goodsoil, SK.

2005 MACDON, 14' 912 auger header, w/722 conditioner, purchased new, Dec. 2007, single knife drive, good condition, \$27,000 OBO. 204-836-2116, St. Alphonse, MB. g.delicthe@gmail.com

SWATHERS 4145

2013 JD W150, c/w 35' header, double knife, double reel, 650/500 hrs., exc., \$135,000. 780-679-7795, Camrose, AB.

MASSEY 30' QUICKFOLD PT w/brand new canvasses, \$1000 OBO. 306-460-9027, 306-463-3480, Flaxcombe, SK.

2015 JD W150 435D, PU reel, fore/aft, double knife drive, hydraulic tilt, free form roller, integrated GPS, 147 engine hrs. Call 306-537-9636, Riceton, SK.

JD 2360, 21' wide, DSA, CAHR, HoneyBee knife, big tires, recent eng. rebuild, runs exc., \$9500. 306-238-7969, Goodsoil, SK.

2008 NH H8040 SP Windrower, 36', PU reel, fore/aft., Roto-Shears, rear axle suspension, 920 hrs. pea auger, \$67,500. Can be seen at Shoal Lake Farm Equipment, Shoal lake, MB. Call Ron at 204-895-1064.

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JD 300 16' hay header, fits 23, 2420, 3830, \$3000; Ford Major dsl. w/loader and blade \$5500. Call 306-236-8023, Goodsoil, SK.

COMBINES

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2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2007 Case/IH 7010, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

JOHN DEERE 4178

2009 JD 9770 w/615 PU, 722 sep. hrs., 955 eng. hrs., 900/60R32 tires, rear tires 600/65R38, always shedded, exc. cond., 25% down and balance due August 1. \$215,000, 204-825-2782, Mariapolis, MB.

2014 JD S680 PRWD combine, 582 hrs., 650/85R38's w/duals, Pro-Drives, chopper w/PowerCast tailboard, JD bin extension. PowerGard Warranty til March 2019, \$252,500 USD. www.ms-diversified Call 320-848-2496 or 320-894-6560.

2006 9660 WTS, 914 PU, duals, 2300/1550 hrs., \$132,500. A.E. Chicoine Farm Equipment 306-449-2255, Storthoaks, SK.

JOHN DEERE 4178

1990 JD 9500, 4100 eng. hrs., 912 PU header, many new parts, harvest ready, \$22,000 OBO; JD 930 rigid header w/hyd. adjustable reel, good cond., \$4000 OBO. 306-946-7928, Watrous, SK.

4 JD COMBINES: 2010 T670, 966 sep. hrs., PU header, GPS; 2009 T670, 1178 sep. hrs., GPS; 2004 9760 STS, 2186 sep. hrs.; 2001 9650 STS, 2314 hrs. All owned 4+ yrs., yearly maintenance records. Also selling 4 JD 630F headers. Call for price. 780-934-6384, Fort Saskatchewan, AB.

2008 JD 9870 STS, Greenlighted from 2012-2016, no peas, always shedded, \$65,000+ work orders in last 5 years. Serviced at Agland, Lloydminster. GreenStar ready, 1838 eng./1227 sep. hrs., \$205,000 OBO. Call 780-205-4423, Lashburn, SK.

2009 JD 9770 with 615 header, Auto HHC, grain tank extensions, 2600 GreenStar display monitor and StarFire receiver incl., less than 100 hrs. since Greenlight, 1523 sep hrs., duals, excellent condition, always shedded, \$188,000 OBO. Call 780-877-2518, Ferintosh, AB.

MASSEY FERGUSON 4181

1997 MF 8780, PU, only 1868 sep. hrs., stored inside, exc. cond., \$45,000; MF 9030 25' auger header c/w lifters, PU reel and carrier, like new, \$8500; MF 885 25' swather, 1468 hrs., PU reel, exc., \$12,500. 306-441-1259, North Battleford, SK.

COMBINE ACCESSORIES

COMBINE HEADERS 4199



2012 CASE DRAPER, 35', slow spd. transport, Case or NH adapter, exc. cond., can deliver, \$55,000; 2013 MacDon FD75, Case or NH adapter, S/N #231673, FlexDraper, 35', can install new transport kit for \$8500, good cond., can deliver, w/slow spd. transport \$67,000, w/slow spd. transport \$75,000; 2012 MacDon D60-S Draper, 35', CIH and NH adapter, exc. cond., can deliver, S/N #227499, \$55,000. All headers are shaded, selling due to buying JD combines. 204-743-2324, Cypress River, MB.

MACDON 960 36', PU reel, Case 2388 adapter, good shape; Case 1020 flex, 25'. Call 403-485-3535, Vulcan, AB.

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2010 FD70 36' MacDon flex draper, transport, hyd. tilt, pea auger, JD adapter, field ready, \$53,000; 2006 974 36' MacDon flex draper, transport, JD adapter, field ready, \$33,000. Gerald or Glenn Walkeden, 306-861-6849, 306-861-7782, Tribune, SK

GLEANER 500 30', not reconitioned, \$12,900; GL 800 25' recon., \$19,900; GL 8000 30' recon., \$21,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

2008 NEW HOLLAND 88C, 42' flex draper, reconitioned. This head is field ready! Delivery included at \$23,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

NH 73C 25' flex, reconitioned, \$18,900; NH 74C, 30' recon., \$19,900; NH 74C 35', recon., \$24,900 w/air reel, \$29,900. Call Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

JD 930 DRAPER header, c/w PU reel, new pea auger, built-in transport, prem. cond., limited use. 403-823-1894, Drumheller, AB

2012 CIH 3020 HEADER, 35' PU reel, hyd. fore/aft, double knife drive, AHH, hyd. float, \$23,900. 306-654-7657, Prudhomme, SK. dsopotyk@baudoux.ca

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2 ROW POTATO planter, ground drive, hopper chain/opener in exc. cond., \$3500; Portable potato conveyor/sorter, motor driven, \$1800. 306-238-4590, Goodsoil SK

CASE/IH 800 CYCLO-AIR corn and bean planter, 24', 8 row, good shape, w/manual \$7500. 306-424-7761, Montmartre, SK.

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MODEL 57 #0H7 PTO drive, 7' bucket, high lift, clutches upgraded, asking \$5000 OBO. 306-921-7688, Saskatoon, SK.

WANTED: DEGELMEN 570S rockpicker in good cond. 306-526-8882, 306-488-2109, Dilke, SK. jonmitch@westnet.com.au

LEON HYDRAULIC DRIVE rockpicker, in good shape, \$3000. 306-961-9312, Prince Albert, SK.

SCHULTE GIANT 2500 rockpicker, exc. condition. 306-592-4449, 306-592-2029, Buchanan, SK.

ROCK-O-MATIC 57, PTO, 7' bucket, high lift, \$4900. 306-233-7889, Cudworth, SK.

SPECIAL EQUIPMENT 4232

2016 WOLVERINE ROTARY DITCHER, used for 1 season, in good shape, \$53,000. Call 306-921-4473, Ridgedale, SK.

SPRAYING EQUIPMENT

PT SPRAYERS 4238

FLEXI-COIL 65-80' boom, hyd. pump (2 yrs.), 800 gal. tank, mix tank, foam marker, w/extra hyd. pump, \$3200. Call 306-748-2847, 306-730-6323, Neudorf SK.

1997 BRANDT QF1000 100', 800 gal. poly tank, \$3000. 306-567-8614, Davidson, SK.

FLEXI-COIL 67, 100', 1000 gal. poly tank, wind screens, disc markers, autorate controller, chem handler, fence row nozzle, 16.5L - 16.1, \$8500. Call 306-654-7657, Prudhomme, SK. dsopotyk@baudoux.ca

2002 FLEXI-COIL 67, suspended boom, 80' 800 gal., Raven AutoBoom height control, autorate, \$21,000 OBO. 403-820-0145, Drumheller, AB.

FLEXI-COIL 67XLT 114', twin tanks, hyd. pumps, booms, windscreen, end nozzles, autorate controller, excellent condition. Call 306-893-7068, Paynton, SK.

BRANDT QF 1000, 80' hydraulic driven PT sprayer, 800 gal. tank, field ready, \$3500 OBO. 306-946-7928, Watrous, SK

BOURGAULT 540 ELIMINATOR, 70', 500 gallon, 1000 PTO, autofold, disc markers, monitors, \$2000. 204-525-4521, Minnotas MB. www.waltersequipment.com

2006 BRANDT SB4000 90' sprayer, Autorate control, exc. cond, always shedded, \$23,000 OBO. 204-223-6193, Lorette, MB.

BRANDT 1000 QF, 800 gal. tank, 100' booms, brand new tires on tank, new boom nozzles, good shape. Best offer. 306-243-4810, 306-860-7477, Outlook, SK

NEW HOLLAND SF115, 1200 gal., 90' susp. boom, windcreens, 2 nozzle bodies, chem. mix tank, rinse tank, always shedded, \$19,500. 780-618-7990, Peace River.

FLEXI-COIL 65, 100' boom, hyd. pump, 800 gallon tank, autorate control, mix tank, very good shape, \$4000 OBO. 306-533-2114 after 5 PM, Pangman, SK.

PT SPRAYERS 4238

FLEXI-COIL SYSTEM 62, 70', 800 gal. tank, dual nozzles, \$2400. Phone 403-820-8028, Morrin, AB.

SP SPRAYERS 4241

2008 JOHN DEERE 4730, SS tank, loaded, 2 sets tires, field ready, exc. cond, 2800 hrs., \$145,000. 306-577-8771, Carlyle, SK.

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1999 ROGATOR 854 high clearance, 90', w/factory AutoSteer, 2700 hrs, 2 sets tires, \$79,000. 306-648-5394, Ferland, SK.

2002 JD 4710, 4300 hrs., 800 gal. tank, 90' booms, chem. inductor, 2600 display w/Swath control and AutoTrack, 2 sets tires, \$95,000. 306-861-7981, Oungre, SK.

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2013 APACHE 1020, 470 hrs., duals, 100', 1000 gal. tank, AutoSteer, AutoBoom, Auto Section. Meticulous one owner unit, \$220,000 OBO. 306-591-1133, Pense, SK.

2009 MILLAR CONDOR 40, 100' boom, 1000 gal. tank, 100 gal. rinse tank, AutoBoom, AutoSteer, AutoHeight, 2 sets rear tires, crop dividers, 1600 hrs., new diff. and planetary, good cond. 306-769-8887, 306-276-7788, Arborfield, SK.

1995 SPRA-COUCPE 3630, 80', 400 gal. tank, Outback GPS AutoSteer, E-Kay crop dividers all 4 wheels, flood lights, tow hitch, 2430 hrs., \$28,500. 204-734-3512 204-734-8920, Swan River, MB.

2003 JOHN DEERE 4710, 90', 800 gal. SS tank, 2600 display w/swath control and Norac AutoBoom height, 20.8 tires and skinnys, triple nozzle bodies with tips, 3700 hrs, \$95,000. 306-861-7620, Weyburn, SK. kingpin1959@outlook.com

1998 PATRIOT WT, fully loaded, field ready. Call 306-592-4449, 306-592-2029, Buchanan, SK.

JD 4930, 1000 gal. stainless tank, 120' boom, skinnies, approx. 3400 hrs., all options, \$139,000. 306-948-7223, Biggar, SK

WILLMAR 765 SE, 90' boom, GPS, mapping and AutoSteer, 6500 hrs., 18.4x38 radials and 12.4x42 tires, 4 Tridekon crop dividers, 600 gallon tank, \$25,000. 204-825-7166, Clearwater, MB.

SP SPRAYERS 4241

1999 CIH 4260, 90' sprayer, 1000 gallon SS tank, AutoBoom, AccuBoom, Raven AutoSteer, Envisio Pro monitor, 2 sets of tires, 5 sets of nozzles, fenders, 3867 hrs., 400 hrs. on new engine, Redlighted yearly, shedded, \$75,000. 306-885-4545, 306-537-2563, Sedley, SK.

2009 SPRA-COUCPE 4660, 80', OutBack steering, crop dividers, duals, 630 hrs., \$85,000. 306-947-4603, 306-947-7550, Heppburn, SK.

1996 SPRA-COUCPE 3630 70' high clearance, 300 gal., triple nozzle bodies, timing belt changed last fall, 2313 hrs., tow hitch incl., excellent condition, \$25,000 with Cultiva ATC Guidance, or \$22,000 w/o. 306-231-6763, Lake Lenore, SK.

1999 CASE 4260, 3180 hrs., 97' booms, 2 sets tires, 1200 gal. SS tank, Outback GPS and Raven monitor, asking \$95,000 OBO. Call 306-552-4905, Eyebrow, SK.

2010 JOHN DEERE 4730, Ready to work! 100' 800 gal poly tank, Starfire receiver, 2600 display, swath control, 5-way nozzles, 5 sets of tips, 2 sets of tires (320s & 650s), rear camera, \$147,500 OBO. 204-746-6717, Morris, MB. cmuller@daleair.ca

1998 TYLER PATRIOT 150, 750 gal. tank, 90' boom, new Raven autorate and shutoff, Outback AutoSteer, 4 crop dividers, LED lighting, injectors done, inspection done by Prairie Mechanics Corp., field ready, 306-867-7719, 306-867-8456, Glenside SK

2011 JOHN DEERE 4630, 1000 eng. hrs, 500 spray hrs, 2630 screen, AutoTrac, Auto-Boom, SF-1 activation, Starfire receiver, 3 sets tips, on-board compressor, exc cond, shedded, meticulous w/all service records, 1 owner, \$165,000 firm. 780-385-5704, Viking, AB. rmattinson@mcsnet.ca

1998 JOHN DEERE 4700, 4500 hrs., \$32,000 Greenlight, \$69,000 firm; Also, 2001 JD 4710, all options, approx. 3100 hrs., \$99,000. 306-948-7223, Biggar, SK.

2013 NH GUARDIAN SP240F XR 100' boom, 1200 litre SS tank, IntelliView IV monitor, luxury cab, 6.7L Cummins, 275 HP, only 420 hours, asking \$330,000. 306-524-2109, Semans, SK.

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GREAT PLAINS AD1334 air drill, 34' with 7" spacing, 2 tanks, good condition, \$14,000 OBO. Call 780-405-8089, Tofield, AB.

2013 SEEDHAWK 5010 w/1910 JD cart, 430 bu., dbl. shoot, var. rate, \$130,000 OBO. Call 306-647-2760, Jedburgh, SK.

2010 BOURGAULT 3310 and 6350 tank, 65' liquid, single shoot, \$145,000, Young, SK. 306-917-7980.

2008 59' BOURGAULT 5710, 12.6" new Dutch Precision 5" w/NH3, 5.5" pneu, Raven NH3, MRB 25, full blockage, 6450 TBH, 591, shedded, nice rebuilt unit, \$149,000. 780-662-2614, Tofield, AB.



2004 JD 1910 430 bu, 8 run, dbl shoot, tow behind, 12" conveyor, vari-rate, with JD brown box...\$19,800
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2000 MORRIS MAXIM II 50' air drill, 7300 VRT air cart w/elec. over hyd. in cab controls, 3rd tank, 10" spacing, 3.5" steel packers, Agron primary blockage, DS, can switch to SS, Atom Jet side band openers, scrapers, opt. 3 camera CabCam system, \$30,000. 306-377-2002, Herschel, SK.

2005 57 FLEXI-COIL 5000 HD, 12" spacing, w/3850 mechanical cart, dual shoot, \$39,000 OBO. 306-423-5444, Domremy, SK.

1993 MORRIS 39' air drill, 7180 TBH tank, new hoses, DS, 12" space, carbide Gumbo boots. 3-1/2" steel packers, field ready, \$20,500 OBO. Retired. Call 306-252-2810, 306-567-7281, Kenaston, SK.

1997 FLEXI-COIL 5000, 39' with 2320 TBH tank, 6 run single shoot with stealth tires, rubber packers and hydraulic markers, \$25,000 OBO. 306-430-1317, Eatonia, SK.

MORRIS MAXIM 30' double shoot, 10" spacing, Atom Jet side band openers, 3.5" packers, w/7180 TBH Morris tank, \$30,000. 306-237-7571 eves, Perdue, SK.

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

2006 JD 1820, 61', 10" spacing, SS, steel packers, new hoses, all dual wheels, exc. cond, \$16,500. 306-861-4592, Fillmore, SK

2013 SEEDMASTER, 70' slim fold, with granular applicator, all HD caster w/oversized tires, 28LR26 rears c/w 2012 Bourgault 6550 tank w/duals, \$259,000. Ron 306-648-5394, Ferland, SK.

1997 CONCORD 4812, DS dry w/NH3, Dutch openers, 2000 JD 1900 cart, 270 bu, \$25,000 OBO. 306-452-3233, Antler, SK.

2007 JD 1830 50', single shoot, 10" space, c/w 5" rubber packers, \$59,000; JD 1910 270 bu. TBH cart, single shoot, exc., \$24,000. 780-679-7795, Camrose, AB.

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2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, DS, rear hitch, tandem axles, low acres, \$140,000. 2002 49' Morris Maxim air drill, 12" space, w/7240 Morris grain cart, \$45,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

JD 737 40' Air Drill w/787 tank; Bourgault 9200 42' NH3 applicator. Both field ready, for more info 306-594-7459, Norquay, SK.

2011 SEED HAWK 50', 12" sp., tool bar with 600 cart dual wheels auger and bag lift, \$229,000; 1997 39' Morris Magnum air drill, 10" spacing, Atom openers w/Morris 180 cart, \$23,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2011 JD 1870, 56', blockage, w/1910 TBH air cart, 430 bu., 520/85R42 duals, conveyor, excellent condition, asking \$195,000. 306-260-8969, Turtleford, SK.

2005 BOURGAULT 5710, 40', 10" sp, DS, blockage monitors, NH3 equipped, field ready. 2006 Bourgault 6350, air tank c/w hitch, \$60,000; Avail. twin NH3 cart, 5 yr certification. Dave 403-556-3992, Olds, AB.

2002 FLEXI-COIL 2340, TBH, var. rate, 4 rollers, SS, dual fans, exc. cond., \$15,000, 403-882-3349, 403-741-5716, Castor, AB.

BOURGAULT 5710, 54', 3225 air cart, single shoot, 3" steel packers, Knock-on liquid boots, liquid kit, loading auger, rear hitch, \$30,000. 306-742-4429, Langenburg, SK.

2008 SEEDMASTER SXL 2100 50', 12", 300 bu. seed, 2100 gallon fert. all on-board. Smart Hitch, 4 cameras, 1 owner \$100,000 Must sell. Call 306-591-1133, Pense, SK.

39' FLEXI-COIL 5000 drill, 9" spacing, w/Flexi-Coil 4350 mechanical air cart, \$80,000. 403-391-3669, Lacombe, AB.

54' BOURGAULT 5710, w/5350 air tank, DS w/dutch openers, steel or rubber packers, shedded, \$55,000. 306-876-4517 Goodeve

2007 SEED HAWK 44', 12" sp., 267 tank, NH3 kit, autorate, Agron block monitors, winch, \$95,000. 306-923-2231 Torquay SK

BOURGAULT OPENERS for Paralink drill, single shoot w/liquid Nitrogen and liquid Phosphate. 306-463-7527, Kindersley, SK.

2009 50' SEEDMASTER, 10", 5-plex, narrow transport, DS, seed brakes, Devloo scrapers, new fert. knives and primary hoses, \$75,000. 306-628-8181, Sceptre, SK.

2005 FLEXI-COIL 4350 TBH AIR CART, DS, 16-run, variable rate, good shape, \$38,000 OBO. 780-385-4252, Killam, AB.

41' BOURGAULT 5710, 3/4 MRB's, packers and chemical spreader, double shoot, 9.8" spacing, \$6000 OBO. 306-842-4808

JD 1830, 61', 10" spacing, 4" pneumatic packers, Atom Jet 3-1/2" paired row openers w/NH3, Raven controller, section control, c/w 1910 430 cart with conveyor, cameras in tanks, very nice, \$79,000 OBO. 306-743-7622, Langenburg, SK.

2003 BOURGAULT 5710 29' air drill, DS, Stealth paired row openers, 9.8" spacing, 4300 tank, \$55,000 OBO. 780-771-2155, 780-404-1212, Wandering River, AB.



2003 40' MORRIS Max II, 7180 tank, SS, NH3, MRB's, 10" spacing, A1 cond., 12,000 acres, 1 pass machine, trades welcome, \$46,900. 306-862-7524 or 306-862-7761, Nipawin, SK. www.agriquip.ca

JOHN DEERE 1890 disc drill, 43', 10" spacing. Phone 306-842-6246, Griffin, SK.



2010 MORRIS 8370, 3 tank, variable rate, TBH, 440 bu., \$69,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

1998 BOURGAULT 5710 34', DS, MRB's, 9.8" spacing, 3" rubber packers, 4300 air tank, one owner, shedded, \$49,000.

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\$29,900 Stock #1311-07A
2007 International 9400i 6x4
 Tandem Axle Sleeper Tractor, Cat C13 engine (430/430) HP, Eaton Fuller transmission (13 speed), 1600000km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, Diff Lock rear lockup, A/C, 72" Hi-Rise sleeper, clean high miled sleeper. Winnipeg, MB



\$29,500 Stock #4031-04A
2004 Volvo VE D12
 Tandem Axle Sleeper Tractor, Cummins ISX engine (475/550) HP, Eaton Fuller O/D transmission (13 speed), Air brakes, 996505km, 12350 lbs front axle capacity, 40000 lbs rear axle capacity, Diff Lock rear lockup, A/C, 56" Mid-Rise sleeper, clean tractor good for a farm application. Brandon, MB



\$35,900 Stock #433156
2017 International 4400 6x4
 Tandem Axle Sleeper Tractor, MaxxFORCE 13 engine (450) HP, Eaton Fuller D/O transmission (18 speed), Air brakes, 596639.0km, 12350 lbs front axle capacity, 46000 lbs rear axle capacity, 4-Way rear lockup, A/C, 73" Hi-Rise sleeper, FOB SK current safety applies. Saskatoon, SK



\$15,500 Stock #9447-04A
2004 Volvo VE D12
 Tandem Axle Day Cab Tractor, Volvo 12.1L engine (465) HP, Meritor ZF transmission (12 speed), Air brakes, 1002224km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, Diff Lock rear lockup, as is where is. Brandon, MB



\$37,500 Stock #9775-03A
2003 Peterbilt 379
 Tandem Axle Sleeper Tractor, Cat C15 engine (410/550) HP, Eaton Fuller O/D transmission (18 speed), Air brakes, 1151000km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 2-Way rear lockup, A/C, 50" Flat-Top sleeper, Needs some engine work as is pricing. Prince Albert, SK



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 Grain, 3 hopper, Air suspension, Tridem axle, Aluminum (polished out) rims, 20 king pin, Tarp: Rollover Black, Hoppers: Ag Hopper w/3rd Hopper Black w/Interior Access steps, Width: 102in, Length: 45ft, PRICE GOOD FOR A LIMITED TIME ONLY. Calgary, AB



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 Deck, Low Bed, Air suspension, Tandem axle, Steel rims, Wood floor, 16 king pin, Width: 102in, Length: 44ft. Brandon, MB

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2013 Peterbilt 367 PICKER TRUCK



208,822 kms, 5277 Hrs
ISX 15 Cummins 485HP CPL 3491, 18 Speed Trans, 20K Front, 46K Rear, Full Lockers 4:10 RATIO, HD Drive Line, 445/65/22.5 Fronts, 11R24.5 Rears -New, 18 TON ELLIOT 1881 TM Picker 81" reach. Sold with Safety Certification, Full Service.

Stk # **\$123,985**
UV1107

2006 Nissan Titan



5.6 SE Crew cab, 4x4, V8, automatic transmission, AM/FM/CD/DVD, cruise control, power windows, power locks, power mirrors, power drivers seat, gray cloth interior, soft cover, tube style running boards, tow package, new Goodyear Wrangler tires, mechanical fitness inspection complete & all repairs done.

Stk # **\$12,985**
UV1124

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 # **\$38,800**
UV1026



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C7 Industrial Cat Engine
Fits 950 Loader
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C15 Industrial -D8T Application Engine
ESN: TXL03831 ARR: 4172605 Engine has very low hours + has been inframe.
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ISX871 Cummins Engine
CPL 2733 485 HP. Qualified Good Running Take Out., Sold with 90 Day Major Castings Warranty
\$15,985 Exchange

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7.3 Ford Powerstroke DT466E - 230 IHC
ISB 5.9 Cummins 3126/C7 Cat

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450KW Marathon Genset



628 hours since new, S60 diesel engine - inframe, load tested. Ready to work! Sold with warranty.

\$44,500

2000 HINO FF3020



6 Cylinder Hino Engine, 200 hp. 6 spd., 30,000 lb. GVW, 11R22.5 Tires, 361,858 km, c/w 24' Dry Van, Roll-up Back Door, Hardwood Flooring, Translucent Roof. Unit has Fresh Alberta Safety Certification and Fresh Service. Ready to go to Work!

Stk # **\$15,885**
UV1123

21' 676 Wireline Van



Aluminum Floors and Walls, Ceiling Finished Board, Rear Door - 34" x 72", Side Door - 26" x 72", O.D. 21" x 100" x 102", Step Rear Bumper c/w Reefer, Heater, Generator, PTO and Hydraulic Tank.

Stk # **\$4,995**
UV1099A

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2004 JD 9620T

500 HP, 36" tracks in 75% condition, 4 hyds, 3PH, 9798 hours, clean & well maintained **\$109,800**



2012 MD F070

35', flex draper, hyd header tilt, AHHC, pea auger, transport, new fingers, knife & guards, excellent condition..... **\$67,800**



TRACTORS



2008 CIH MAGNUM 275 MFWD
275 HP, 3182 hours, PTO, LH rev, powershift, weights, rear duals, overall nice tractor..... **\$112,800**

1998 NH TV140 BI-DI
140 HP, FEL w/ grapple, 6153 hours, 5 hyds, 3PH, 540/1000 PTO..... **\$47,800**



1998 NH TV140 BI-DI
140 HP, FEL w/grapple, PTO, 3PH, 8627 hours, wheel weights..... **\$29,800**

LEON 2530 BLADE
12', 6 way hydraulic blade. Very little use. Off Farmall 140A, can be made to fit other tractors..... **\$8,980**

SEEDING



1998 JD 1900
350 bu, 6 run, dbl shoot, tow behind, 8" auger, clean unit..... **\$17,900**

2011 WISHEK 842N
14' disc, hyd level & depth control, 28-29" discs, excellent condition..... **\$33,800**



2007 BOURGAULT 5725 SERIES II
47", coulter drill, 9.8" spacing, sgl shoot, MRB, NH3..... **\$29,800**

2013 SUMMERS 2510DT
18' tandem diamond disc, 23" notched discs, very good condition..... **\$22,800**

COMBINES



2010 JD 9870 STS
1715 hours, Contour Master, bullet rotor, nice condition, pickups available..... **\$148,800**

2000 CAT LEXION 465
2542 hours, tracks 75%, RWA, Cebis, AHHC, 2 spd cyl, pickups available..... **\$64,800**



2009 NH CX8080
1556 hours, AHHC, lat tilt, Intelliview 3, long auger, very good cond, pickups available..... **\$147,800**

2005 JD 9760STS
2340 hours, Greenstar, reel spd, Auto HHC, chopper, pickups available..... **\$79,900**

HEADERS



2014 NH 840 CD
40', rigid draper, AHHC, transport, hyd F/A, for CR/CX/AFX..... **\$48,800**

2011 MD D60-D
40' rigid draper, DKD, transport, new knife & guards, nice header, JD, CNH, Lexion, AGCO kits available. **\$46,800**



2014 MD PW7
MD/JD PW7 16', hyd. windguard, like new..... **\$22,900**

2011 JD 615P
16', header and pickup, nice belts, auger & floor 80%, overall very good condition..... **\$19,800**

MISCELLANEOUS



2001 INGERSOLL-RAND SD70F
Vibratory padfoot packer, 2902 hours, 3.9L Cummins, 66" drum, fresh service..... **\$32,800**

2005 NH LV80 SKIP LOADER
1477 hours, 75 HP, 2WD, FEL, 3PH, 7' box scraper w/scarifier, canopy..... **\$19,800**



2004 VOLVO G780B
16' moldboard, snow wing, 11,216 hours, good tires..... **\$64,800**

1994 LIFT KING
6000 lb RT forklift model 6M22, 20' lift, cab, side shift, 2WD, runs well..... **\$11,800**

TRADES WELCOME FINANCING & LEASING AVAILABLE

AS FEATURED ON **AGDealer.com**

2014 NAVISTAR 7500

764398



\$219,000

Floater Truck w/New Leader L4000g4 Spreader Box, 2115 Hrs, GPS, elec role tarp, Ag Leader Mapping / Application software, Very nice shape.



**HIGH RIVER, AB
403-652-2414**

2008 SEEDMASTER 5010

818822



\$72,000

50', 10" Spacing, Stk # T1506A



**PARADISE HILL, SK
306-344-4448**

2014 JOHN DEERE 9510R

828658



\$374,900

Stk: 81148, 2400 Hrs, 510 HP, PowerShift, Hi-Flow Hydraulics, 5 SCV, PTO, 800/46's Goodyear, Full AutoSteer



**ROSTHERN, SK
306-232-4852**

2013 HAYBUSTER H1130

824777



\$65,000



Tub Grinder: New hammers, rods, screens, mill bearing, conveyor belt, and much more. Unit is in great shape and ready to work.

**RED DEER, AB
403-340-1000**

2011 JOHN DEERE 1870

828369



\$178,700

56', 12" Sp., Double Shoot, c/w 1910 Tank, VR, Duals, 430 Bu. TBH, Hyd. Assist Conveyor.



**DEWBERRY, AB
1-888-440-3974**

2015 GIANT V452T HD

801295



\$65,000

40 Hrs, 45 HP, Hydr QA, Wide Tractor Tires, High Flow + 2 DA



**TABER, AB
403-223-1550**

2014 CASE IH STEIGER 540

822605



CASH PRICE \$459,000

36" Tracks, 2 Pumps, PTO, Luxury Cab, Leather Seats, Factory Auto Guidance, 6 Remotes, Cab Lights, 1931 Hrs, Stk: 024129



**SASKATOON, SK
888-905-7010**

2014 JOHN DEERE 1790

828661



\$199,000

Stk: 6150, 1350 Acres, Width: 40', 30" Spacing, Split Row 32R 15" or 16R 30", 225 Gal Liquid Fertilizer Tank



**BROOKS, AB
403-362-3486**

2012 VERSATILE 450

798209



\$279,000

1220 Hrs, 450 HP, 800 Duals, P.S., 6 Elec Rems, Deluxe Cab, Raven GPS, Frt & Rear Weight Pkg.



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 Only 10,000 km.
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 Save thousands!
\$99,980



Used Class A 2014 Thor ACE 29.2
 Under 3000 miles.
 What a bargain!
\$94,980



Used Class C 2014 Sunseeker 2650CDWS
 Dual pane windows, generator, walk around bed
 Lots of storage! 2 in stock
\$64,980



Used Class B 1995 Ford Falcon
 Low kms!
 Generator, full load.
 Trade in-Trade up!
\$29,980



Used Class C 2014 Itasca Spirit 25B
 34,000 miles, generator, power awning, rear bed.
 Like new condition!
\$59,980



New Class C 2017 Thor Compass 23TB
 Powerstroke diesel loaded with tons of options. Includes generator, 3TVs.
 MSRP \$140,000. Last one on the lot!
\$99,980



New Class C 2017 Quantum GR22
 Wow! A 22' with walk around bed!
 Top of the line finishes at rock bottom pricing!
\$97,980



New Class A 2017 Thor ACE 30.4
 MSRP over \$160,000
 Save at Sunridge!
\$129,980



Used Class C 2016 Siesta Mercedes 24ST
 Diesel with only 3000 miles.
 Save thousands and thousands!
\$109,980



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 Only 10,000 KM.
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40x56'	\$25,750 ⁰⁰
48x80'	\$41,500 ⁰⁰
48x120'	\$58,650 ⁰⁰
60x120'	\$73,600 ⁰⁰

*Includes materials & labour

- Packages include:
- 29 Gauge #1 Colored Metal Walls & Galvalume Roof
 - 1 Large Sliding Door
 - 1 Three-Foot Walk-in Door
 - Gable End Vents
 - 16' Wall Height

Other sizes and wall heights available. Options to add windows, Diamond bi-fold door and overhead door available.

CATTLE SHELTERS

30x36'	\$8,295 ⁰⁰
30x60'	\$12,795 ⁰⁰
30x72'	\$14,995 ⁰⁰
30x96'	\$19,395 ⁰⁰

*Includes materials & labour

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1x6" - 8' Rough Spruce	\$2 ³⁹
3.25"x6' Rd Treated Post	\$4 ⁸⁹
3.25"x7' Rd Treated Post	\$5 ⁹⁹
4.25"x6' Rd Treated Post	\$6 ⁹⁹
4.25"x7' Rd Treated Post	\$8 ⁶⁹
4.25"x8' Rd Treated Post	\$9 ⁴⁹
5.25"x7' Rd Treated Post	\$10 ⁹⁹
5.25"x8' Rd Treated Post	\$13 ⁴⁹



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MOTORS AND EQUIPMENT



JOHN DEERE



2013 JOHN DEERE 4730
1047 hrs, 100' boom, 2 sets of tires, sec control. (RE)

\$275,900



2010 BOURGAULT 3310 AIR DRILL
MRBs, 6550 cart.

\$265,000



2010 JOHN DEERE 4830 SPRAYER
1487 hrs, 100' boom, deluxe cab. (OX)

\$198,000



2009 NEW HOLLAND T9050
3983 hrs, PPS, duals, 4 SCV. (AV)

\$172,900



2015 JOHN DEERE 9620R
669 hrs, PTO, dual. (ES)

\$550,000



2013 CASE IH QUADTRAC 550
2900 hrs, 36" track, hi-flow hyd. (RE)

\$369,000

4 WD TRACTORS

1990 JD 8560, duals, 7600 hrs	\$38,400	(RE)
2011 JD 9530, duals, 1900 hrs	\$252,000	(OX)
2007 JD 9620, triples, 5094 hrs	\$192,200	(OX)
2009 JD 9630, triples, 3950 hrs	\$240,000	(OX)
2012 JD 9410R, duals, 1528 hrs	\$269,000	(RE)
2012 JD 9560R, duals, 1903 hrs	\$356,000	(ES)
2012 JD 9560R, duals, 2032 hrs	\$346,000	(ES)
2012 JD 9560R, duals, PTO, 3007 hrs	\$349,900	(OX)
2012 JD 9560R, duals, PTO, 2539 hrs	\$360,000	(ES)
2015 JD 9620R, duals, PTO, 669 hrs	\$540,000	(ES)
2009 New Holland T9050, duals, 3940 hrs	\$172,900	(AV)

TRACK TRACTORS

2009 JD 9630T, 3060 hrs	\$261,000	(AV)
2010 Case IH 535 Quadtrac, pto, 6979 hrs	\$219,000	(RA)
2013 Case IH 550 Quadtrac, 2900 hrs	\$369,000	(RA)

2 WD - MFWD TRACTORS

2005 JD 7320, MFWD, cab, loader, 4250 hrs	\$77,900	(OX)
1996 JD 7800, MFWD, loader, 11,845 hrs	\$59,500	(OX)
2000 JD 7810, MFWD, P/S, loader, 8995 hrs	\$67,900	(RA)
2004 JD 7520, MFWD, P/S, 10,400 hrs	\$65,800	(AV)
2005 JD 7720, MFWD, PQ, 6959 hrs	\$97,500	(RE)
2014 New Holland T6.175, MFWD, PPS, loader, 740 hrs	\$119,000	(RA)
2014 CIH Puma 150, MFWD, PPS, loader, 1032 hrs	\$149,900	(RA)
2010 CIH Magnum, 180 loader, MFWD, 4665 hrs	\$134,000	(RE)
2010 JD 5045D 2WD, loader, syncro, 415 hrs	\$22,900	(ES)
2013 JD 5115ML, o/s, MFWD, loader, 600 hrs	\$63,500	(AV)
1993 JD 6200, MFWD, loader, 3000 hrs	\$29,900	(OX)

SEEDING EQUIPMENT

61' JD 1820/1900, 340 bus cart, double shoot, 2002	\$73,000	(RA)
61' JD 1820/1900, 10" spg, double shoot, steel packers, 340 bus tank 2005	\$45,000	(ES)
50' JD 1830, 10 spg, single shoot, 2008	\$49,900	(RA)
61' JD 1830/1910, 10" spg, D/S, 550, 2015	\$279,000	(AV)
56' JD 1870/1910, 12" spg, D/S, 1910 430 bu TBT, 2010	\$185,000	(AV)
40' Flexi-Coil 5000, 2320 tank, 1994	\$20,000	(ES)
57' Flexi-Coil 5000, 3450 tank, 1997	\$20,000	(RE)
65' Bourgault 3310/6550ST, 10", double shoot, 2010	\$265,000	(RA)
66' Bourgault 3310/6550ST, sgl shoot, 12" spg, 2010	\$162,900	(AV)
60' Bourgault 3710/7700, disc drill, 2014	\$418,000	(RA)
40' Seed Hawk 40-12, 12", D/S, 360 bus tank, 1999	\$49,000	(RE)
90' SeedMaster TX8-M90, 12" spacing, front and rear, 550 bus, JD 1910 air tanks, sectional control, ARM 2013	\$215,900	(ES)
80' SeedMaster/JD TBX8012/1910, 12" spg, double shoot, 2008	\$143,900	(OX)
John Deere 1910, 250 bus TBT, D/S, 3 tank, 2003	\$28,700	(RA)
John Deere 1910, 430 bus d/s TBT tank, 2012	\$82,500	(RA)
John Deere 1910, 430 bus d/s TBH cart, 2010	\$57,000	(AV)

COMBINES

(Please refer to our web site for more details)

2012 JD S670, 1004 sep hrs	\$289,000	(OX)
2014 JD S670, 435 sep hrs	\$400,000	(RA)
2014 JD S670, duals 459, sep hrs	\$399,000	(RA)
(4) - 2015 JD S670	SEE WEBSITE	
(4) - 2014 JD S680	SEE WEBSITE	
2015 JD S680, duals, 729 sep hrs	\$464,000	(ES)
2015 JD S680, duals, 775 sep hrs	\$458,400	(ES)
(5) - 2012 JD S690	SEE WEBSITE	
2013 JD S690, duals, 850 sep hrs	\$400,000	(ES)
(5) - 2014 JD S690, duals	SEE WEBSITE	
2010 JD T670, singles, 1131 sep hrs	\$214,900	(RE)
2010 JD T670, singles, 493 sep hrs	\$277,900	(RE)
2008 JD 9770, duals, 1933 sep hrs	\$157,100	(AV)
2008 JD 9770, duals, 1708 sep hrs	\$152,600	(RE)
2010 JD 9770, duals, 1532 sep hrs	\$203,000	(AV)
(5) - 2011 JD 9770	SEE WEBSITE	
2005 JD 9760STS, singles, 2149 sep hrs	\$118,500	(AV)
2006 JD 9760STS, duals, 1771 sep hrs	\$130,900	(AV)
2009 JD 9870, duals, 1469 sep hrs	\$199,700	(AV)
2009 JD 9870, singles, 1458 hrs	\$197,900	(AV)
2009 JD 9870, 1800 hrs	\$191,400	(AV)
2010 JD 9870, duals, 1520 hrs	\$205,900	(ES)
2006 JD 9860 singles, 2402 hrs	\$128,700	(AV)
2001 JD 9650W, 3720 hrs	\$66,000	(RE)
1996 JD 9600, singles, 2725 sep hrs	\$43,900	(RE)
2012 New Holland CR8090, duals, 788 sep hrs	\$328,800	(RE)

COMBINE PLATFORMS

JD 914 Pickup Headers, several	CHECK WEBSITE	
JD 615P Pickup Headers, several to choose from	CHECK WEBSITE	
2008 MacDon PW-7	\$17,600	(AV)
Precision Pickup Headers	\$7,500-\$15,000	
2010-2014 JD 640D, 40' draper, several	CHECK WEBSITE	
2012-2014 JD 640FD, 40' flex drapers, several to choose from	CHECK WEBSITE	

2014 JD 635FD, 35' flex draper	\$78,200	(RA)
2014 JD 635FD, 35' flex draper	\$82,500	(RA)
3 - 2011 JD 635F, 35' flex, 3 units	\$32,900-\$35,600	(RA)
2009-2012 JD 635D, 35' draper, several to choose from	CHECK WEBSITE	(ES)
2008 JD 630F, 30' Flex	\$23,000	(RA)
2003 JD 936D, 36' draper	\$25,500	(RE)
2007 JD 936D, 36' draper	\$37,100	(RE)
2009 MacDon D60, 40' rigid	\$35,000	(AV)
2013 MacDon D65, 40', transport	\$72,900	(OX)
2012 MacDon FD70, 40' flex draper	\$64,900	(RA)
MacDon FD70, 45' flex draper, 5 units	CHECK WEBSITE	
2014-2016 MacDon FD75, 40' flex draper, 3 units	CHECK WEBSITE	
2004 MacDon 973, 36', JD adapter	\$25,900	(ES)
2003 MacDon 972, 36' JD adapter	\$24,900	(RE)

CORN HEADERS

2002 JD 1290 12 row, 20" spacing	\$31,000	(AV)
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SP WINDROWERS

2013 JD W150, 40', head, 155 hrs	\$137,600	(ES)
2011 JD A400, 36', header swath roller, 593 hrs	\$94,400	(AV)
2011 JD A400, 36', HB head 895 hrs	\$91,900	(RE)
2008 JD 4895, 36', head 1002 hrs	\$76,000	(RE)
2008 JD 4895, 30', 1050 hrs	\$82,000	(ES)
2008 JD 4895, 36', 1114 hrs	\$82,600	(RE)
2001 MacDon 2952, 30', 2792 hrs	\$49,700	(RE)
2002 MacDon 2952, 30', 3500 hrs	\$45,500	(RE)
2006 Case WDX1202, 30', 2400 hrs	\$45,800	(RE)

GRAIN HANDLING EQUIPMENT

2010 Brandt 13x110HP Grain Auger	\$19,900	(AV)
2014 Brandt 13x110HP Grain Auger	\$24,300	(OX)
2011 Brandt 13x90HP Grain Auger	\$19,200	(ES)
2015 Brandt 2045LP Conveyor	\$35,000	(RE)

GRAIN CARTS

2011 Brent 1394, tarp, scales, walk duals	\$87,900	(ES)
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DISKS

2008 JD 637 45', 9" spacing	\$66,000	(ES)
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SPRAYERS

2015 JD R4045, 1200 hrs	\$449,000	(ES)
1999 JD 4700, 3100 hrs	\$97,000	(RA)
2007 JD 4720, 3522 hrs	\$138,900	(RA)
2011 JD 4730, 3449 hrs	\$206,400	(RE)
2012 JD 4730, 1180 hrs	\$242,000	(RA)
2013 JD 4730, 975 hrs	\$274,800	(AV)
2013 JD 4730, 1050 hrs	\$275,900	(RE)
2005 JD 4920, 3500 hrs	\$126,500	(ES)
2008 JD 4930, 2650 hrs	\$181,500	(RA)
2010 JD 4930, 1490 hrs	\$237,900	(RA)
2012 JD 4940, 1600 hrs	\$273,000	(RA)
2013 JD 4940, 1200 hrs	\$309,000	(ES)
2012 Apache AS1020, 100', 632 hrs	\$193,000	(RA)

HAYING EQUIPMENT

2000 JD 1600A Mower Conditioner	\$10,900	(ES)
2012 New Holland H1750 Mower Conditioner	\$37,200	(AV)
1995 MacDon 5000 Mower Conditioner	\$6,900	(OX)
1998 JD 566 Round Baler	\$9,700	(ES)
2003 JD 567 Round Baler	\$14,900	(OX)
2013 JD 559 Round Baler, surface wrap	\$30,000	(AV)
2010 JD 568 Round Baler, surface wrap, 12,000 bales	\$38,000	(AV)
2010 JD 568 Round Baler, surface wrap, 12,750 Bales	\$35,200	(RE)
2010 JD 568 Round Baler, surface wrap	\$35,200	(RA)
2011 JD 568 Round Baler, surface wrap, 17,700 bales	\$35,400	(RE)
2011 JD 568 Round Baler, surface wrap	\$34,600	(RA)
2014 JD 569 Round Baler, surface wrap, 6974 bc	\$54,000	(RE)
2015 JD 569 Round Baler, surface wrap, 5600 bales	\$54,500	(AV)

MISCELLANEOUS EQUIPMENT

Brandt 7000, 70'	\$19,900	(RE)
2008 Brandt VSF-X Bale Processor	\$7,900	(RA)
2007 Bale King 3010 Bale Processor	\$11,000	(RE)
2014 Vanguard, 35 hp engine	\$3,500	(RA)

LAWN & GARDEN EQUIPMENT

2009 JD Z860A Zero Turn Mower, 60" MOD, 3-bag MCS, 406 hrs	\$9,500	(OX)
2016 Woods FZ28K Zero Turn Mower, 60", MCS, front blade	\$19,900	(RA)
2010 JD Z445 Zero Turn Mower, 54" cut, 528 hrs	\$3,700	(RE)
2012 JD Z465 Zero Turn Mower, 62" cut, 462 hrs	\$4,100	(ES)
2012 JD Z655 Zero Turn Mower, 54" cut, 383 hrs	\$5,800	(ES)
2013 Toro SS5060 Zero Turn Mower, 50" cut, 171 hrs	\$2,800	(RA)
2010 JD X320 Lawn Tractor, 48" cut, 140 hrs	\$3,300	(AV)



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2014 JD 640D WAS \$71,400
Came off JD S680, single point hookup, hyd fore/aft, split PU reel, slow speed trans (M)

NOW \$52,600



2013 JD 640D WAS \$65,600
Came off JD S680, gauge whl trans kit, hyd fore/aft, Split PU reel, slow spd trans (MJ)

NOW \$41,000



2011 JD 640D WAS \$56,800
Cutterbarfull width skid shoes, dual zone float, 10" center tube, road trans w/light(R)

NOW \$35,900



2010 JD 640D WAS \$49,700
Poly tine pickup reel, cutterbar full width skid shoes, top crop convey auger (MM)

NOW \$40,000



2012 JD 635D WAS \$62,400
Slow speed transport system, flip over reel kit, dual zone float, came off a JD S Series. (MM)

NOW \$36,850



2011 JD 635D WAS \$53,500
60/70 Series hookup, 10" center tube, road transport w/ lights, dual zone float, cutterbar full width skid shoes (MM)

NOW \$36,850



2010 JD 635D WAS \$52,800
Came off JD S690, cross auger, flip over kit, dual zone float, next to new knife sections (R)

NOW \$34,750



2010 JD 635D WAS \$49,200
Poly tine pickup reel, road transport w/lights, cutterbar full width skid shoes, top crop conveying auger (MJ)

NOW \$31,580



2009 MacDon D60 WAS \$60,600
40', double knife w/poly C-bar, slow speed transport, came off JD S690, adapter (W)

NOW \$31,580



2010 MacDon D60 WAS \$53,900
40', double knife w/ poly C-bar, slow speed transport, upper cross auger (MM)

NOW \$27,370



2008 MacDon D60 WAS \$57,200
40', double knife w/ poly C-bar, slow speed transport, adapter, came off JD S690 (W)

NOW \$31,580



2009 MacDon D60 WAS \$43,100
35', single knife, hyd fore/aft, slow speed transport, JD adapter came off JD 50 Series (W)

NOW \$31,580



2009 JD 635D WAS \$45,900
35' draper, slow speed transport system (MM)

NOW \$29,500



2008 JD 936D WAS \$34,000
Multi-connection point hookup, cross auger, slow speed transport (MM)

NOW \$26,300



2009 NH 94C WAS \$37,800
36', double knife drive, fore/Aft hyd tilt, feed assist cross auger, U2 pickup reel (MM)

NOW \$23,200



2007 Honey Bee SP36 WAS \$30,600
35', single knife, hyd fore/aft, slow speed transport, JD adapter came off JD 50 Series (M)

HEADERS

13 JD 640D, dual zone float, cutterbar poly skis shoes	Was \$65,800	NOW \$52,650 (W)
13 MacDon D65-45', upper cross auger, came off JD S690	Was \$63,700	NOW \$47,370 (R)
13 JD 635D draper, off JD S70, poly tine pickup reel	Was \$58,140	NOW \$44,200 (SY)
(3) 11 JD 640Draper, dual zone float, full width skid shoes	Was \$53,600	NOW \$41,000 (MJ,RM)
(3) 10 JD 640D., full width skid shoes	Was \$50,800 up	NOW \$35,780 (A,R,RM)
(6) 10 JD 635D, poly tine PU reel, full width skid shoes	Was \$46,700 up	NOW \$33,685 up (MJ,RM,WY)
10 MacDon D60- 40', CA20 adapter, poly skid shoes	Was \$51,200	NOW \$31,580 (SY)
09 MacDon D60, 35', single knife, upper cross auger.	Was \$48,200	NOW \$31,580 (SY)
(2) 09 JD 635D, hyd fore/aft, PU reel, slow spd trans	Was \$45,800 up	NOW \$31,580 (R,RM)
07 Honey Bee SP36	Was \$30,600	NOW \$23,160 (MB)

See southcountry.ca when searching for Pre-Owned Equipment that's field ready!



LOCATIONS

Assiniboia, SK (A) | 306-642-3366
Emerald Park/Regina, SK (R) | 306-721-5050

Montmartre, SK (MM) | 306-424-2212
Moose Jaw, SK (MJ) | 306-692-2371
Mossbank, SK (M) | 306-354-2411

Raymore, SK (RM) | 306-746-2110
Southey, SK (S) | 306-726-2155
Weyburn, SK (W) | 306-842-4686



JOHN DEERE

VISIT SOUTH COUNTRY.CA

AIR DRILLS 4250

1999 FLEXI-COIL 5000 27" and 1330 TBT tank, 9" spacing, 2" spread tips, 3.5" steel packers, \$10,500. 306-372-7604, Luselander.

45" FLEXI-COIL 5000 air drill, 7.2" spacing, with 3" steel packers. Call Junop Brothers, 306-493-7605, Delisle, SK.

FLEXI-COIL 5000, 33", 12" spacing, all re-capped steel packers, new front tires on drill, 3" Stealth openers, c/w Flexi-Coil 1720 TBH tank, new front tires on cart, cameras in tank, metering area good, \$27,000 OBO. 306-726-7516, Earl Grey, SK

2008 60" SEEDMASTER, 12" spacing DS, low acres, very nice tips, new manifold, new hoses, excellent condition, \$75,000. 306-861-4592, 306-722-3228, Fillmore, SK

2008 BOURGAULT 5710, 54", 9.8" spacing, new MRB's, carbide tips, 3.5" packers, new NH3 w/2004 5350 air tank, cab rate adj., 3 tanks, 1 fan, \$41,000. Call 306-862-7138 or 306-862-5993, Nipawin, SK.

1998 JD 1900, 350 bu., 6 run, DS, tow behind, 8" auger, clean unit, \$17,900. 1-800-667-4515, www.combineworld.com

2000 BOURGAULT 5710, Haukaas markers. Nearly new MRB's, carbide tips and scrapers. Dickey John NH3 kit w/1250 gal. NH3 tank (tank needs painting). \$35,000. 306-873-5382, Tisdale, SK.

2003 SEED HAWK 48", 357 onboard tank, new seed knives, c/w new fert. knives, 12" space, w/Alpine tank. Paul 306-538-4666; Don 306-538-4528, Langbank, SK.

JD 35" AIR SEEDER, 12" spacing, on 1610 tool with floating hitch and Morris gang packers, 2.5" Eagle beak openers w/777 JD 160 bu. tank, w/cab cam, field ready, \$7500. 306-331-8388, Fort Q'Appelle, SK.

2003 FLEXI-COIL 3450 air tank, TBH, 10" auger, good cond. \$22,500 OBO. 306-861-4592, 306-722- Fillmore, SK.

2009 BOURGAULT 3310 PHD 75", 10", single shoot, MRB, 4.5" pneumatic packers, block sensor, exc. cond., \$110,000 OBO. 306-861-4592, 306-722-3228, Fillmore, SK

2009 BOURGAULT 3310 PHD 75", 10", single shoot, MRB, 4.5" pneumatic packers, block sensor, exc. cond., \$110,000 OBO. 306-861-4592, 306-722-3228, Fillmore, SK

2006 EZE-ON 7550 40', 10" spacing, single shoot, 5" rubber capped packers, 4" carbide tip openers with 3115 tank (2005), \$35,000 OBO. 306-452-7004, Parkman, SK

2008 JD 1890 36" air drill, w/1910 cart, DS tank, var. rate, all-run blockage, 7.5" spacing, 340 bu., done 9800 acres, shedded, vg condition. Ph. 204-745-7445, Carman, MB.

2000 FLEXI-COIL 6000 air disc drill w/Flexi-Coil 2320 tank, 40", 10" spacing, Barton II openers, new tires on main frame, \$32,000. 306-279-4325, Wakaw SK

CONSERVA PAK 35', 12" spacing, DS, plus liquid, knock-on carbides, c/w 1996 Concord 2300 TBH, hydraulic or diesel fan, \$14,000. Call 306-221-0712, Osler, SK.

2003 BOURGAULT 5710 Series 11, tank always shredded, 1 season on new 3/4" tips, double shoot, rubber packers, dual fan, adjustable flow rate, in cab monitor. \$63,000 OBO. 306-753-7575, Cactus Lake, SK. tjerkar@live.com

AIR SEEDERS 4253

2010 CIH 400, 51', 10" space, w/2010 CIH 3430 cart, Pattison liquid kit, \$87,300. South Country Equipment, 306-642-3366, Assiniboia, SK.

28" BOURGAULT MULTI-PURPOSE 210 series FH428-32 cultivator, 2155 tank (shedded), Kohler motor, pull behind harrows, extra shovels and knives, \$15,000 OBO. 306-921-7688, Saskatoon, SK.

AIR SEEDERS 4253

2010 JD 1830, 57', 10" spacing, w/JD 1910 340 bu. cart, double shoot, \$112,000. South Country Equipment, 306-721-5050, Regina, SK.

CONCORD 2000 grain cart, hyd fan, always shedded, one owner, vg 23.1-26 Firestone tires, \$5500. 204-736-4204, La Salle, MB.

2009 BOURGAULT 3310, 65' w/6550 cart, 10" spacing, MRB's, X20 monitor, \$160,000. 701-570-2390, Ray, ND. Knox@nccray.net

1994 FLEXI-COIL 5000 57' 12" space, w/2320 TBH cart, \$31,100. South Country Equipment, 306-642-3366, Assiniboia, SK.

1998 MORRIS CONCEPT 2000, 43', 10" sp, new Bourgault narrow point openers, 7240 TBH, \$24,000. 306-463-8416, Eston, SK.

2004 JD 1820 53', 10" sp., double shoot, Atom Jet boots, \$25,900. South Country Equipment, 306-726-2155, Southey, SK.

1993 BOURGAULT 8800 air seeder, 36', 3195 tank, Valmar spreader, packers, \$10,000 OBO. 306-946-7928, Watrous, SK

FLEXI-COIL 3450 TBT air seeder tank, var. rate, special 4 tank model holds 400 bu. Junop Brothers 306-493-7605, Delisle, SK.

2007 BOURGAULT 6350 air seeder tank, low acres, augers- exc., all updates, Green-lighted, TBH hitch, field ready, \$39,500 OBO. Call 204-773-2338, Angusville, MB.

BOURGAULT 40' FH36-42, 8" space, QA on-row packers, QA 40' harrows, Bourgault 3225 tank, excellent condition, \$17,000. Call 306-567-8614, Davidson, SK.

2008 BOURGAULT 6550ST air cart, 4-tank meter, dual fans, CRA, bag lift, deluxe auger, duals, shedded, \$68,000. Call 204-734-8562, Swan River, MB.

JD 1850 42', 10" spacing, high flotation's, all dual wheels, w/JD 787 air tank, exc cond, \$28,000. 306-861-4592, Fillmore, SK

FLEXI-COIL 820 seeding tool with 2320 air cart, 46' 5-plex, 550 lb trip w/sweeps and harrows, low acres, \$30,000 OBO. Phone 306-463-3257, Kindersley, SK.

2014 JD 1870, 56', 12" spacing w/JD 1910 430 bu., DS, \$267,500. South Country Equipment, 306-721-5050, Regina, SK.

DOES YOUR TRACTOR need more oil to keep up to seeder technology? 9170, 9270, 9380, etc. most older Versatiles and many others including 4000 Massey series. Ph us w/your needs. Hydratec Hydraulics, 306-721-2630, 1-800-667-7712 Regina SK

2014 JD 1870, 56', 12" spacing w/JD 1910 430 bu., DS, \$267,500. South Country Equipment, 306-721-5050, Regina, SK.

56" WILL CAR harrows, hydraulic, recent new tires, \$1600. Phone 306-567-8614, Davidson, SK.



SPRING DISCOUNTS on new and used rollers, all sizes. Leasing and delivery available. 403-580-6889, Bow Island, AB.

70" FLEXI-COIL System 82 harrow, grey 5-bar spring tooth, \$5500. 306-960-3000, St. Louis, SK.

2005 BOURGAULT 6000 mid harrows, 70', low acres, excellent condition, \$22,000 OBO. 306-745-8880, Langenburg, SK.

46" FLEXI-COIL 75 packer bar, P20 packers. Call Junop Brothers, 306-493-7605, Delisle, SK.

HARROWS/PACKERS 4256

FLEXI-COIL SYSTEM 95 harrow packer bar, 60", P22 packers, \$5500. Middle Lake, SK. 306-367-2043, leave message.

1991 RITE-WAY HARROW packer, 58", P30 packers, good shape, \$3000. 306-961-2621, Prince Albert, SK.

2011 RITE-WAY 7150 heavy harrows 50', with 2255 Valmar applicator, \$34,500. 306-554-2511, Wynyard, SK.

70" SYSTEM 82 FLEXI-COIL harrows, good teeth, spring pressure type, \$2800. Call 306-577-8771, Carlyle, SK.

60" HARROW PACKER w/P30 packers, in good condition. Taking offers. Phone 306-287-3563, Watson, SK.

NEW 2017 70" DEGELMAN Strawmaster w/Endura tips, hydraulic tine adjustment Odessa Rockpicker Sales, 306-957-4403, Odessa, SK.

2013 RITE-WAY HEAVY HARROW, 90", approx. 20" harrows, adjustable pressure and angle, \$35,900. 306-948-7223, Biggar, SK.

FLEXI-COIL 60" GREEN 5 bar harrows, \$1200. Call 403-820-8028, Morrin, AB.

RITE-WAY HARROW PACKER 50", P20 packers, good shape, \$2500. 306-344-4568, St. Walburg, SK.

37" ASSIZ ROLLER, 42" wing up, \$20,000. During the day, please call 403-932-2131, Cochrane, AB.

50" FLEXI-COIL HARROW packers w/P30 packers, \$3800; 36" Wilrich vibrashank cult w/harrows, \$1300. 306-210-8186, Reward

SEEDING VARIOUS 4259

CASE/IH 800 CYCLO-AIR corn and bean planter, 24', 8 row, good shape, w/manual \$7500. 306-424-7761, Montmartre, SK.

36" MELROE 204 press drill, w/factory mower, markers, fertilizer and grass attachment. 306-428-2405, Choceland, SK.

1999 BOURGAULT 5300, 3TM, hyd. cal., 491 monitor, DS, hopper ext., Trelleborg tires, \$26,900 OBO. 204-746-0275, Domain, MB.

JD 9350 HOE DRILLS, 30', mover, transport and marker, good shape, seed 6" or 12", \$1800. Call 306-625-7939, Kincaid, SK.

SEED-RITE: 2-8018, 1-8014 w/packers, 1 M11-33 factory packers. 306-842-5036, 306-861-6466, Weyburn, SK.

WANTED: IHC GRASS SEEDER for IHC 6200 disc drill, 6" row spacing, 12' length. No rust or junk please. 403-492-7411, Milk River, AB. Email: wrayswanson@live.com

JD 7200 PLANTERS IN STOCK, 8 to 16 row, any planter makes available. Call Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

WHITE 6122 VACUUM planter, 8 row - 30", hyd. markers, vertical fold, monitor, reconditioned, \$17,900. Gary Reimer, Reimer Farm Equipment, 204-326-7000, Hwy. #12, Steinbach, MB.

1987 CIH 7200 28" hoe drills, factory hyd. mover, always shedded, not used since 2002, low acres, field ready, \$5900 OBO. 306-475-2677, Kayville, SK.



2001 CASE FLOATER: FLX4300 w/Flex-Air 810 box, 4461 hrs, 69,818 kms, foam markers. Cleaned, calibrated & serviced, ready to go! AM/FM & AC, \$55,000. Mallaig, AB, 780-635-3966. TopGroAgro@gmail.com

JD 7300 VACUUM PLANTER, 12 row 30", 250 monitor, lift assists, shedded, \$14,750. 204-373-2339, 204-324-7410, Ridgeville, MB.

DEGELMAN 65" LANDROLLER, \$34,900; Flexi-Coil 4000 30" disc drill, \$16,900 and 5000 57", \$17,900; Rite-Way 60" harrow packer, \$4900. Pro Ag Sales, 306-441-2030, North Battleford, SK.

JD 7200 VACUUM planters in stock for immediate delivery! Folding bar, hyd. markers, monitors, reconditioned, field ready. 8 row 30", \$17,900; 12 row 30", \$19,900. Call Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

SELL IT FAST Classifieds 1-800-667-7770

3-12' JD DISCERS (36'), fair condition, not used for 10 years. Offers. 306-463-4866, 306-463-8800, Kindersley, SK.

BREAKING DISCS: KEWANEE, 14' and 12'; Rome 16' and 9'; Wishek 14' and 30'. 2-DMI 7 shank rippers. 1-866-938-8537.

NEW 1/4 INCH 8", 9", 12" cult. shovels, \$3-3.50 each; Melroe plowshares, \$15; Melroe plow moldboards, \$30. Call Lawrence at 204-836-2686, St. Alphonse, MB.

35" MORRIS MAGNUM II cultivator with Haukaas molehill shovels, \$4500. Call 306-528-7712, Nokomis, SK.

2008 KELLO-BILT 225TSW discer, 24', field ready, 1 owner, \$43,500. Call 306-542-7674, Kamsack, SK.

IHC 6400 54' chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

2010 SALFORD 41" Vertical Disc, very low acres, exc. cond, one owner. \$59,000. 204-228-3420, vern@johnsonagro.com Dugald, MB.

TRACTORS

ALLIS/DEUTZ 4277

WANTED: 4W305; 4W220; 220 and D21. 8070, 8050 or 8030 MFWD. 701-240-5737, Minot, ND.

1984 AC 606G, FWA, bucket and bale spike, 9756 hrs., new engine at 4500 hrs., original owner, shedded, \$16,000 OBO. 780-361-7947, 780-352-2818, Wynne, AB

SEEDING VARIOUS 4259

USED SEEDING COMBINE WORLD IS NOW PARTING SEEDING EQUIPMENT!



• JD 1910 • Bourgault 5350 • Bourgault 2155 • Flexi-coil 3450



• JD 1820 • Bourgault 5710

Call us for more info
1-800-667-4515
www.combineworld.com

TILLAGE EQUIPMENT 4262

2012 SUMO SUBSOILER, 9 leg. Improve yields, fix ruts and hardpan issues. Steel roller. 204-851-0451, Virden, MB.

COMPACTED SUBSOIL ISSUES? Avoid "band-aid" solutions. Since 1984. Call Rick 403-350-6088, anytime.

KELLO-BILT 8' to 20' offset discs w/24" to 36" notched blades; Kello-Bilt 24' to 38' tandem wing discs w/26" and 28" notched blades and oilbath bearings. Red Deer, AB. www.kelloughs.com Call: 1-888-500-2646.

GAUGE WHEEL & GAUGE WHEEL KIT

3" & 4" OPTIONS

Ridgeland MANUFACTURING

www.ridgelandmanufacturing.ca
204-866-3558
ridgeland@hotmail.com

BOURGAULT 8800 CULT, 52', 8" spacing, heavy trips, knock-on sweeps, 4 row harrows, w/interchange packers, air kit for 6 tube delivery, ready to go, reasonably priced. 306-995-2180, Pelly, SK.

1992 37" CASE/IH 5600 HD cultivator, with Degelman mounted 4-row harrows, \$25,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

MORRIS 743 CHISEL PLOW, 12" spacing, good 16" sweeps, w/Degelman hyd. driven row, \$10,000. 306-463-8416, Eston, SK.

14' TOWNER HEAVY breaking disc, good condition, field ready. 306-782-6907, 306-641-7983, Jedburgh, SK.

MORRIS 45" MAGNUM 7 series cult., c/w Honeybee deadrod, \$3000. 306-460-9027, 306-463-3480, Flaxcombe, SK.

2013 JOHN DEERE 2623 vertical tillage unit, 40', excellent shape, \$75,000. 780-679-7795, Camrose, AB.

BOURGAULT 6000 med harrows 90", \$25,000; Flexi-Coil 340 32" chisel plow c/w 4 bar harrows, anhydrous kit, \$16,000; Flexi-Coil 340 40" chisel plow, with 4 bar harrows, \$25,000. Dave 403-556-3992, Olds, AB.

3-12' JD DISCERS (36'), fair condition, not used for 10 years. Offers. 306-463-4866, 306-463-8800, Kindersley, SK.

BREAKING DISCS: KEWANEE, 14' and 12'; Rome 16' and 9'; Wishek 14' and 30'. 2-DMI 7 shank rippers. 1-866-938-8537.

NEW 1/4 INCH 8", 9", 12" cult. shovels, \$3-3.50 each; Melroe plowshares, \$15; Melroe plow moldboards, \$30. Call Lawrence at 204-836-2686, St. Alphonse, MB.

35" MORRIS MAGNUM II cultivator with Haukaas molehill shovels, \$4500. Call 306-528-7712, Nokomis, SK.

2008 KELLO-BILT 225TSW discer, 24', field ready, 1 owner, \$43,500. Call 306-542-7674, Kamsack, SK.

IHC 6400 54' chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

2010 SALFORD 41" Vertical Disc, very low acres, exc. cond, one owner. \$59,000. 204-228-3420, vern@johnsonagro.com Dugald, MB.

TRACTORS

ALLIS/DEUTZ 4277

WANTED: 4W305; 4W220; 220 and D21. 8070, 8050 or 8030 MFWD. 701-240-5737, Minot, ND.

1984 AC 606G, FWA, bucket and bale spike, 9756 hrs., new engine at 4500 hrs., original owner, shedded, \$16,000 OBO. 780-361-7947, 780-352-2818, Wynne, AB

CASE/IH 4286

1984 2094, 1000 hrs. since major motor, rad and torque convert OH, \$16,000 OBO. 306-221-8461 or 306-544-2707, Hanley

CASE/IH 450 HD, 3PTH, 2012, 1820 hrs., PS, 800 Firestone's, loaded, no PTO, 35 month - 1500 hr. extended PowerTrain warranty, Pro 700/372 AutoSteer, \$278,000 OBO. Call 306-960-3230 or 306-981-3281, Prince Albert, SK.

1982 CASE 2390, PTO, powershift, good tires, very good condition, \$14,500. Call 306-561-7780, Davidson, SK.

2016 CASE MAXIM 145, 150 HP FWA, loader, grapple, like new, \$178,000 OBO. 780-352-8858, Bittern Lake, AB.

1983 CASE 2290 w/Leon 707 FEL, 4700 hrs., rebuilt PS and diff., 4 remotes, dual PTO, good tires, duals, \$18,500. Prince Albert, SK. 306-922-8155, 306-960-3230.

1984 IH 5088, 130 HP 8920 hours, triple hydraulics, dual PTO, 20.8x38 radials, \$17,500. 204-525-4521, Minitonas, MB. www.waltersequipment.com

CIH 1486, 8100 hrs., \$10,000 work order last fall, vg cond., \$18,000. 780-819-7193, Redwater, AB. danespride@aol.com

1998 STEIGER 9370, 3695 hrs., standard 12 spd., 360 HP always shedded, \$90,000. Call 780-943-2039, Heinsburg, AB.

2009 CASE/IH MX435, Outback guidance, 170/70 tires, rear weights, std. trans., 4 hyd., 3100 hrs., shedded, \$183,000. Nipawin, SK. 306-862-7138 or 306-862-5993

WANTED: 4786 IHC, 1980 and newer in good condition. Call 780-635-2527, St. Vincent, AB.

LIZARD CREEK REPAIR and Tractor. We buy 90 and 94 Series Case, 2 WD, FWA tractors for parts and rebuilding. Also have rebuilt tractors and parts for sale. 306-784-7841, Herbert, SK.

2011 CASE/IH STEIGER 535, 2970 hrs., 800/70R38 duals, AFS AccuGuide, \$268,400. South Country Equipment, 306-726-2155, Southey, SK.

2012 CIH 500, QuadTrac, PTO, 1570 hrs, \$369,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2006 CIH STX375, powershift, PTO, 1917 hrs; 2009 STX335, c/w 6-way Degelman blade/guard, 1281 hrs; Two 2013 Magnum 260, FWA, deluxe cab, leather, 320 hrs; 2015 Magnum 280, FWA, CVT, deluxe cab, leather, 608 hrs; 2014 Versatile 250, FWA, GPS, etc. Ph Dave 403-556-3992, Olds, AB.

NEW UNDERCARRIAGE REPLACEMENT parts for CIH Quadtracs, JD 9000T, Challenger MT. Bogeys \$798 and sell \$189. More shipments arriving. 1-800-667-4515. www.combineworld.com

JOHN DEERE 4295

2004 JD 7520, MFWD, IVT, loader, 5400 hrs, \$94,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 1816 hrs., \$356,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

JD 4630, 8 spd. powershift, new paint, 20.8x38 duals-70%, small shaft PTO, Pioneer couplers, 5512 hrs., LED lights, \$25,000. 306-424-7761, Montmartre, SK.

1991 JD 8560, 4 WD, 6000 hrs., nice shape, 12 spd., 3 hyds., \$42,000. 780-814-2241, Grande Prairie, AB.

1998 JD 8100, 5358 hrs., newer 18.4x42 duals, 16.9x28 fronts, 16 spd. powershift, 1000 PTO, cast weights, no 3 PTH, exc., \$72,000. 204-739-3089, Oak Point, MB.

2013 JOHN DEERE 6150R, MFWD, IVT, loader, 1890 hrs, \$169,000. Nelson Motors & Equipment, 1-888-508-4406. Visit: www.nelsonmotors.com

JOHN DEERE 4430 w/JD 148 loader, QuadShift, 18.4x38 singles, 2 hyds, exc. cond. 306-283-4747, Langham, SK.

1991 JD 4755, 20.8x42 Firestone radial tires, 15 spd. powershift, tripe hydraulics, approx. 5600 hrs., \$46,500. 306-367-2043 leave message, Middle Lake, SK.

WANTED: JD 8650 or 86 Series Tractor. With or without blade. Can need repairs. 306-238-4590, Goodsoil, SK.

1998 JD 9100, above average cond., 6067 hrs., brand new engine at 3400 hrs., \$64,000. Call 306-577-8771, Carlyle, SK.

1977 JD 1830, 145 FEL, CAHR, 3 PTH, low hrs., 540 PTO, good rubber, \$14,800 OBO. Call 306-357-2136, Wiseton, SK.

2014 JOHN DEERE 6150M, parked indoors, 940 hrs., 650/65R38 rear, 540/65R28 front, farmer owned/operated, bucket/forks, exc. cond., \$149,000 OBO., Mundare, AB., 780-603-7972, jkkowal@telus.net

2003 JD 7810, 4500 hrs., never winter used, never had loader, loaded, 20 spd. quad, 3PTH. 780-990-8412, Edmonton, AB

2011 JD 7430 Premium, MFWD, 4778 hrs, w/741 loader, \$132,200. South Country Equipment, 306-726-2155, Southey, SK.

1978 JD 3130, 3 PTH, vg cond, 5000 orig. hrs. \$11,500 OBO. 204-886-3407, Teulon, MB.

2014 JD 9560RT, 1031 hrs., JD Link, GreenStar, deluxe cab, \$453,600. Call South Country Equipment, 306-721-5050, Regina, SK.

2013 JD 9560R, duals, 1943 hrs., \$373,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

JOHN DEERE 4650 w/powershift, approx 8000 hrs., 20.8x38 duals, 1000 PTO, \$30,000. 306-948-7223, Biggar, SK.

2007 JD 9620, triples, 5094 hrs., \$192,200. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com



2004 JD 9620T 500 HP, 36" tracks in 70% cond, 4 hyds, 3PH, front weights, undercarriage 70%, 9798 hrs. \$109,800 1-800-667-4515. www.combineworld.com

KUBOTA 4298

2016 KUBOTA M5-111, 105 HP c/w FEL, FWA, shuttle shift, 22 hrs, 6 year warranty, \$70,500. Call 306-554-2901, Wynyard, SK.

MASSEY FERGUSON 4301

2012 MASSEY 6490, 2200 hrs., MFWD, Call 204-522-6333, Melita, MB.

1968 MASSEY 85, shedded, 3 PTH very good acreage tractor, \$3500. Located near Saskatoon, SK. Call 306-373-0350.

2015 GC1705, 22.5 HP 4 WD, loader, 60" mid mower, 500 hrs., like new cond., \$14,500 OBO. 306-232-5488, Rosthern, SK

NEW HOLLAND 4304

1998 TV140 BI-DI, loader and grapple, 3 pedals, 3PTH, 3800 hrs., rear weight package, \$60,000; FORD TW30, 2wd, 3 remotes, \$11,000. 306-948-7377, Biggar, SK.

VERSATILE 4310

VERSATILE 450 used; 450, 500, 550 and 550DT new. Call KMK Sales Ltd. 306-682-0738, Humboldt, SK.

TWO 1979 VERS. 855 4WD, 1 with Atom Jet hyd. kit. For details 306-483-8257, Oxbow, SK. coldridge@sasktel.net

1993 VERSATILE 876, 4 WD, 12x4 std. trans., 20.8x38 tires, 7080 hrs, very well maintained; 2001 Harmon 97' sprayer, auto-fold, wind screens, hydraulic pump. 306-253-4454, Aberdeen, SK.

2006 VERSATILE 210 HP, FWA, w/duals and Alo front end loader and grapple, \$94,000. 306-728-9033, Melville, SK.

VERSATILE 836, POWERSHIFT, PTO, 4 new tires, very clean unit. Call 403-823-1894, Drumheller, AB.

1978 VERSATILE 835, 10,000 hrs., \$15,000; Tor-Master super harrow, 56', \$8500. 204-325-3496, Winkler, MB.

946 FORD/VERS., 1992, 20.8x42 duals, 6020 hrs, always shedded, just serviced, exc. cond., \$52,500 OBO. 306-634-7416, Estevan, SK.

1992 FORD/VERSATILE 946, 20.8x42 duals, AutoSteer JD Globe and monitor, very nice, \$52,500 Cdn. OBO. Delivery available. Call 218-779-1710, Minnesota

1988 VERS. 846, 18.4x38 tires- 50%, 7400 hrs., good working cond. Asking \$28,500. Call Tom 306-747-3292, Shellbrook, SK.

VERSATILE 4310

1978 835, 8470 hrs., big 1000 PTO, 4 hyds., 4 new 18.4x38 rears in 2016, 3 front tires- 70%, 1 - 50%, new batteries and alt., \$25,000 OBO. 306-452-7533 Storthoaks SK

VARIOUS TRACTORS 4319

GRATTON COULEE AGRICULTURAL PARTS LTD. Your #1 place to purchase late model combine and tractor parts. Used, new and rebuilt. www.gcparts.com Toll free 888-327-6767.

2008 MCCORMICK MTX150, 2300 hrs.; 2006 McCormick MTX150, 3200 hrs. Phone 204-522-6333, Melita, MB.



2014 CASE 370CVT, 220 hrs., 50k, front hitch, 900/R42, \$225,500; 2011 Fendt 939, 1100 hrs., 65 kms/hr, \$235,000; 2016 Fendt 936, 500 hrs., call for price; 2015 Fendt 939, 1850 hrs., Variogrip, \$249,000; 2014 Fendt 936, 3700 hrs., 65 kms/hr, front PTO, \$180,000; 2010 Claas Xerion, 2040 hrs., CVT50K, 3 PTH, 800R38, \$187,000; 2012 MF 8670, 500 hrs., CVT50K, front PTO, \$188,000; 2016 MF 8737, 400 hrs., front PTO, loaded, call for price; 2014 Deere 8345R, 2700 hrs., IVT50K, 3 PTH, \$198,000; 2013 Deere 7230R, 3000 hrs., IVT50K, new Q88 loader, call for price; 2013 Deere 6170R, 1750 hrs., IVT50K, new Q76 loader, call for price; many more in stock! Please call 519-955-1331, www.rozendaalclinton.com

2014 CASE 370CVT, 220 hrs., 50k, front hitch, 900/R42, \$225,500; 2011 Fendt 939, 1100 hrs., 65 kms/hr, \$235,000; 2016 Fendt 936, 500 hrs., call for price; 2015 Fendt 939, 1850 hrs., Variogrip, \$249,000; 2014 Fendt 936, 3700 hrs., 65 kms/hr, front PTO, \$180,000; 2010 Claas Xerion, 2040 hrs., CVT50K, 3 PTH, 800R38, \$187,000; 2012 MF 8670, 500 hrs., CVT50K, front PTO, \$188,000; 2016 MF 8737, 400 hrs., front PTO, loaded, call for price; 2014 Deere 8345R, 2700 hrs., IVT50K, 3 PTH, \$198,000; 2013 Deere 7230R, 3000 hrs., IVT50K, new Q88 loader, call for price; 2013 Deere 6170R, 1750 hrs., IVT50K, new Q76 loader, call for price; many more in stock! Please call 519-955-1331, www.rozendaalclinton.com

WANTED: JD 8650 or 86 Series Tractor. With or without blade. Can need repairs. 306-238-4590, Goodsoil, SK.

1998 JD 9100, above average cond., 6067 hrs., brand new engine at 3400 hrs., \$64,000. Call 306-577-8771, Carlyle, SK.

1977 JD 1830, 145 FEL, CAHR, 3 PTH, low hrs., 540 PTO, good rubber, \$14,800 OBO. Call 306-357-2136, Wiseton, SK.

2014 JOHN DEERE 6150M, parked indoors, 940 hrs., 650/65R38 rear, 540/65R28 front, farmer owned/operated, bucket/forks, exc. cond., \$149,000 OBO., Mundare, AB., 780-603-7972, jkkowal@telus.net

2003 JD 7810, 4500 hrs., never winter used, never had loader, loaded, 20 spd. quad, 3PTH. 780-990-8412, Edmonton, AB

2011 JD 7430 Premium, MFWD, 4778 hrs, w/741 loader, \$132,200. South Country Equipment, 306-726-2155, Southey, SK.

1978 JD 3130, 3 PTH, vg cond, 5000 orig. hrs. \$11,500 OBO. 204-886-3407, Teulon, MB.

2014 JD 9560RT, 1031 hrs., JD Link, GreenStar, deluxe cab, \$453,600. Call South Country Equipment, 306-721-5050, Regina, SK.

2013 JD 9560R, duals, 1943 hrs., \$373,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

JOHN DEERE 4650 w/powershift, approx 8000 hrs., 20.8x38 duals, 1000 PTO, \$30,000. 306-948-7223, Biggar, SK.

2007 JD 9620, triples, 5094 hrs., \$192,200. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com



2013 LS P7040C, MFWD, 97 HP, 525 hrs., w/L 7101 FEL, 40 gear shuttle shift trans., PTO, 78" 3 PTH, QA bucket, like new cond., \$54,000 OBO. 780-482-5273, Edmonton, AB. group.6@outlook.com

LOADERS/DOZERS 4322

JD 158 FEL with mounts, straight bucket, nice condition, \$5250. Call 204-746-2016 Morris, MB.

MISCELLANEOUS 4325

1989 JD 2755 tractor, 75 HP; 1998 JD 556 round baler; 2003 NH 1475 haybine, 18'; 2004 Brandt bale processor. All in vg cond. Would make an excellent starter package. Call Rick 306-221-7595, Perdue, SK.

2004 FLEXI-COIL SF110 sprayer, c/w 90' boom, windscreen, var. rates, like new, \$25,000; B-480 grain cleaner c/w motor, \$4000; 2005 Ezee-On 7550 33' air drill, c/w DS tank, single shoot drill, like new, \$30,000. 306-441-1259, North Battleford.

2010 CNH 7120 combine, 830 hrs.; 2011 CNH 2142 header, 2500 ac.; 2010 CNH WD1203, 30', 350 hrs.; 1996 Tyler Patriot sprayer, 90', 2920 hrs.; 2004 Freightliner Columbia, 20' box, new rubber; 1996 Freightliner tandem, 20' box; Westfield 10"; 60' PTO swing auger. Call Fred at 204-773-6703, Birtle, MB.

SAKUNDIK AUGER 7x1400 new 23 HP w/mover; 50' System 95 Flexi-Coil harrow packer bar P30 packers, tine harrows. 306-788-4819, 306-630-5451, Marquis, SK

8640 JOHN DEERE tractor and 2000 Series Bourgault air seeder Model 2155 w/Valmar. Call 306-868-4615, Truax, SK.

TIRES TIRES TIRES! Radial, Bias, New, Used. 20.8x42, 18.4x42, 20.8x38, 18.4x38, 20.8R34, 18.4x34, 900/60R32, 800/65R32, 24.5x32, 18.4x30, 23.1x30, 16.9x28, 28Lx26, 18.4x26, 19.5Lx24. Semis, skid steers. Best price and value guaranteed! www.combineworld.com 1-800-667-4515

TBH GRADER, 14' blade, rubber tires, \$1600 firm; Hydraulic end maker, runs on air, offers. Phone 306-460-9027, 306-463-3480, Flaxcombe, SK.

RETIRED: 30' BOURGAULT 2630VM cult. and harrows; Flexi-Coil System 92 harrow packer, 50'; Flexi-Coil System 62 hyd. harrows, 60'; Bourgault 540 PT sprayer, 80'; 5 yd. Ashland scraper; 1977 Ford F600 grain tractor, steel B&H; 1979 F600, steel B&H. 306-944-4325, 306-231-8355, Bruno, SK.

THREE 6' NOBLE BLADES with carrier; Four 5' coil packers. Phone 306-773-6944, Swift Current, SK.

WANTED: SLIDE-IN TRUCK SPRAYER. 306-640-8034 cel, 306-266-2016 res, Wood Mountain, SK. gm93@sasktel.net

NH CHAIN BALER, \$2500; Neuero grain vac, \$3000; 34' factory drill mover, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. 306-238-4411 Goodsoil, SK

WANTED: SLIDE-IN TRUCK SPRAYER. 306-640-8034 cel, 306-266-2016 res, Wood Mountain, SK. gm93@sasktel.net

NH CHAIN BALER, \$2500; Neuero grain vac, \$3000; 34' factory drill mover, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. 306-238-4411 Goodsoil, SK

MISCELLANEOUS 4325

BOBCAT 943 SKIDSTEER, \$14,900; NH LX865 skidsteer, \$12,900; Gehl 500 cu. ft., 4 auger feed cart, \$10,000; Ashland 4.5, 6, and 8 yd. scrapers, Phoenix rotary harrow 35', 42', and 53'; Knight 3 auger feed cart, \$5,000; 8RN JD 7000 planter, \$6000. 1-866-938-8537.

JD DT 1600 39' NH3; BG 52' 8800, harrows, packers; MF 220 swather 30'; Sprayers: BG 1460, 100', curtains, vg; Compu Spray; Deg. PTO rockpickers; Swather carriers: 30', 36'. 306-548-4315, Sturgis, SK.

CASE 2094, 6500 hrs., exc. cond, \$11,500; Westel bins, various sizes, 30c/bu.; 33' Ezee-On cult., side slide markers, w/Chinook air tank, \$7500; 1974 Dodge 600 truck w/tag lift, 18' box w/head lift hoist, as is, \$3500. 204-738-4766, Petersfield.

SUNFLOWER HARVEST SYSTEMS. Call for literature. 1-800-735-5848. Lucke Mfg., www.luckemanufacturing.com

CASE/IH 2870 4 WD, Degelman blade, \$17,000; 1999 NH LS170 Bobcat, \$13,000; Vac tank, 1800 gal. and pump \$8000; IHC Model 252 forklift, gas, \$5000. 306-238-4411, Goodsoil, SK.

ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Strawmaster, rockpickers, protill, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

IH 100 PRESS DRILL 16' c/w grass seed box and stone guards, \$1000; Degelman 3-batt ground drive rock picker; good 4 cyl. GM motor; IH 4-furrow hyd. plow. 204-248-2040 evenings, Notre Dame, MB.

WANTED 4328

WANTED: ARMS FOR 3 PTH for Ford 5000 tractor. 306-276-5770, White Fox, SK.

WANTED: USED, BURNT, old or ugly tractors. Newer models too! Smith's Tractor Wrecking, 1-888-676-4847.

WANTED MF 36 & 360 Discers
All sizes, any condition, also parts discers, Premium Price paid for 12Ft with 19" blades.
SK Farm Boys - Honest Prompt Service:
Call Anytime
306.946.9669 or 306.946.7923

WANTED: LOAD AUGER for 6130 Morris air seeder, c/w all brackets. 306-735-7093, Wapella, SK.

LOOKING FOR 30' Morris hoe drill, must be in good condition. Call 780-928-4731 or 780-841-8337, leave message if no ans.

FENCING 4400

SOLIDLOCK AND TREE ISLAND game wire and all accessories for installation. Heights from 26" to 120". Ideal for elk, deer, bison, sheep, swine, cattle, etc. Tom Jensen ph/fax: 306-426-2305, Smeaton, SK.

FENCE REMOVAL. Wire rolled, posts piled. Call 306-783-5639, 306-641-4255, Ebenezer, SK.

POST POUNDER, RENN trailer type, PTO drive, \$3000. 204-526-2424, 204-526-0757 cel., Bruxelles, MB.



16' PEELED RAILS. SPECIAL 2-3" \$3 ea., 125/bundle; 3-4" \$9.25 ea, 100/bundle. Vermette Wood Preservers, Spruce Home, SK, 1-800-667-0094. info@vwpltd.com

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

ONE TIME FENCING, sucker rod fence posts (solid steel), steel corners for sale. www.onetimefencing.ca 1-877-542-4979.

GUARANTEED PRESSURE TREATED fence posts, lumber slabs and rails. Call Lehner Wood Preservers Ltd., ask for Ron 306-763-4232, Prince Albert, SK.

CUSTOM FENCING AND corral building, no job too big or too small. Call 306-699-7450, Qu'Appelle, SK.

FIREWOOD 4475



BLOCKED AND SEASONED FIREWOOD: \$180 per 160 ft.± cord; bags \$80 (incl. refundable deposit for bag). Bundles of 4'-5' or 6'-5' also avail. Vermette Wood Preservers 1-800-667-0094, Spruce Home, SK.

BLOCKED SEASONED JACK Pine firewood and wood chips for sale. Lehner Wood Preservers Ltd., 306-763-4232, Prince Albert, SK. Will deliver. Self-unloading trailer.

FISH/FISH FARMING 4500

KEET'S FISH FARM: Rainbow Trout fingerlings for spring stocking. Collin Wood 206-260-0288, Rachel 306-270-4639, Saskatoon, SK. www.keetsfishfarm.com

CLEAR SPRINGS TROUT FARM Rainbow Trout, 4", 6" and 8" for spring stocking. 204-937-4403, 204-937-8087, Roblin, MB.

FISH/FISH FARMING 4500

NOW Available
BEV'S FISH & SEAFOOD LTD., buy direct, fresh fish: Pickerel, Northern Pike, Whitefish and Lake Trout. Seafood also available. Phone toll free 1-877-434-7477, 306-763-8277, Prince Albert, SK.

FORK LIFTS/ PALLET TRUCKS 4600

1994 LIFT KING Forklift, 6000 lb. RT model 6M22, 20' lift, cab, side shift, 2WD, runs well, \$11,800. 1-800-667-4515, www.combineworld.com

GENERATORS 4725

NEW AND USED GENERATORS: 500KW Caterpillar, Perkins, Cummins, Magnum - In stock. Call 250-554-6661, Kamloops, BC. Email: denis@bcdieselgenerators.com www.bcdieselgenerators.com

FOUR 10 KW to 43 KW generators for sale. 306-398-2559 leave msg., Cut Knife, SK.

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NEW AND USED GENERATORS, all sizes from 5 kw to 3000 kw, gas, LPG or diesel. Phone for availability and prices. Many used in stock. 204-643-5441, Fraserwood, MB.

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LIVESTOCK 5001

BISON

BLACK ANGUS 5010



JOHNSTON/ FERTILE VALLEY Private Treaty Bull Sale. All JFV bulls will be sold off the yard this year. Over 125 thick, easy fleshing good haired yearling and 2 year old bulls selected from 600 low maintenance, high production cows. They are sired by the leading A.I. bulls in the industry including Regard, Resource, Renown, International, Ten Speed, Glanworth 57U, Special Focus and Brilliance. Many of these bulls are suitable for heifers. All bulls are semen tested with complete performance info. available. Deferred payment program with 60% down and 40% interest free due Dec. 1, 2017. Come and see one of the most respected cowherds in Canada. Select the bull or group of bulls that you really want at your leisure without the pressure of a sale. David and Dennis Johnston 306-856-4726, Conquest, SK. View the cowherd online at website: www.johnstonfertilevalley.com

BLACK ANGUS YEARLING bulls. Semen tested, full EPD's available. Cow and heifer bulls available, \$4000 OBO. Please call 306-771-2305 or 306-533-3324, Balgonie, SK. valleylodge@sasktel.net

2 YR OLD BLACK ANGUS BULLS: Ranch raised, semen tested and ready to work, BW range from 75 lb. to 88 lb. Good temperament and feet. Can deliver, \$4500. Call 403-325-1245, sharpleyranch@gmail.com Rockyford, AB.

PUREBRED BLACK ANGUS long yearling bulls, replacement heifers, AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

PERFORMANCE AND SEMEN tested Black Angus yearling bulls. Bred for performance and calving ease. HBH Farms, Ray or Barb Airey 204-566-2134, Rivers, MB.



WAVENY ANGUS FARM. Two year old and yearling bulls available. Semen tested, ready to go. Correct and growthy. Call Mike Chase 780-853-3384 or 780-853-2275, Vermilion, AB.

BLACK ANGUS 2 year old bulls, semen tested and guaranteed. Call Andy 306-697-7897, Grenfell, SK.

REG. BLACK ANGUS yearling bulls. Semen tested, ready to go. Delivery avail. Brookside Angus 204-841-5466, Brookdale, MB.

BLACK MEADOW'S ANGUS offers for sale: High quality Black Angus bulls, bunk fed alfalfa based ration, fertility tested, full vaccination program. Free delivery. Complete CAA info available. Contact Bill 204-567-3782, Miniota, MB.

GOOD QUALITY PB Black Angus 2 yr. old bulls, semen tested and guaranteed breeders. Phone David or Pat 306-963-2639 or 306-963-7739, Imperial, SK.

30 BLACK ANGUS 2 year old bulls. Calving ease and performance lines. Board and delivery available. Rob Garner 306-946-7946, Simpson, SK.

REGISTERED YEARLING and 2 year old Angus bulls, some from AI sires, EPD's available. Semen tested. Hightree Cattle, Wilkie, SK., call 306-843-7354 or 306-843-2054.

SENIOR ANGUS HERDSIRE 5 years old, docile, excellent breeder, light BW first calves. Sold cows. Also 2 yr. old and yearling Angus bulls. 306-345-2046, Pense, SK.

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

RED ANGUS 5015

90- TWO YR OLD and yearling Red Angus bulls. Guaranteed, semen tested and delivered in the spring. Bob Jensen, 306-967-2770, Leader, SK.

2 YEAR OLD Red Angus bulls, some sired AI breeding. Semen tested, guaranteed to breed. Delivery available. 204-427-3234, Woodmore, MB.

RED ANGUS and SIMM./Angus cross yearling and 2 year old bulls. Call LVV Ranch, 780-582-2254, Forestburg, AB.

QUIET TOP QUALITY 2 yr. old and yearling Purebred Red Angus bulls. Contact Spruce Acres, 306-272-3997, Foam Lake, SK.



REGISTERED, LOW BIRTH weight heifer, yearling bulls. Big strong cow bulls. Calving ease, maternal bloodlines. Vet inspected, semen tested, guaranteed breeders, delivered. For pictures, information and prices go to our website: www.belleredangus.com 306-845-2557, 306-845-7601, Turtleford, SK. E-mail: evandglen@littleloon.ca

2 YEAR OLD and yearling purebred Red Angus bulls for sale. High Caliber Angus, 306-745-3786, Esterhazy, SK

RED ANGUS BULLS with excellent hair and exceptional feet. Rugged cow bulls and beefy heifer bulls. EKW Red Angus, Elmer Wiebe, 306-381-3691, Hague, SK.

RED ANGUS 5015

REGISTERED RED ANGUS 2 year old and yearling bulls, some from AI sires, quiet, semen tested, IBR shots, ready to go. Hightree Cattle, Wilkie, SK., 306-843-7354 or 306-843-2054.

YEARLING RED and **BLACK** Angus bulls, easy calving, light to moderate BW. Semen tested and guaranteed, \$2500. Davidson Angus and Bellshill Red Angus, Sedgewick, AB., call 780-384-2354 or 780-888-7585.

COW/CALF PAIRS. Purebred Angus. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

RED ANGUS YEARLING bull, AI sired by LSF Conqueror, 67 lbs. birthweight, sure calving ease. Blue Gentian Angus, Norman Bednar 204-380-2551, Vita, MB.

REG. RED ANGUS bulls born Feb./Mar. 2016, calving ease, good growth. Coming 3 year old Red Angus herd sire, used on purebred herd. Little de Ranch, 306-845-2406, Turtleford, SK.

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

MCTAVISH RED ANGUS yearling bulls. Semen tested and quiet. Delivered. Call/text Jared at 306-435-9842, Moosomin, SK.

RED ANGUS YEARLING and 2 year old bulls on moderate growing ration, performance info. available. Adrian or Brian and Elaine Edwards, Valleyhills Angus, Glaslyn, SK. Call 306-441-0946 or 306-342-4407. www.valleyhillsangus.com

QUALITY TWO YEAR old bulls. Select group of yearlings also available. Excellent semen tests. Decorah Red Angus, call Murray 306-867-7206. Dinsmore, SK.

2 YEAR OLD & yearling bulls, semen tested & delivered. Call Guy Sampson, Davidson, SK., 306-567-4207 or 306-561-7665.

ANDERSON CATTLE CO. 2 yr. old and yearling Red and Black Angus bulls. Semen tested, delivery available. Swan River, MB., 204-734-2073, videos at andersoncattle.ca

SOUTH VIEW RANCH has **Red and Black Angus** 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

VIDEOS: WWW.DKFANGUS.CA Select now. Get later. Great selection. Superior quality. **DKF Red And Black Angus** bulls at DKF Ranch, anytime. Gladmar, SK. Scott Fettes 306-815-7023 or Dwayne 306-969-4506.

20 RED ANGUS 2 yr old bulls. Calving ease and maternal lines. Board and delivery avail. Rob Garner 306-946-7946, Simpson

BLONDE D'AQUITAINE 5035

POLLED YEARLING BLONDE BULLS for sale, Estevan, SK. area. Phone 306-634-2174 or cell 306-421-6987.

CHAROLAIS 5055

REGISTERED CHAROLAIS BULLS, 2 year olds and yearlings. Polled, horned, some red. Quiet hand fed, hairy bulls. 40+ head available. Will at Cougar Hill Ranch 306-728-2800, 306-730-8722, Melville, SK

YEARLING & 2 YEAR old Charolais bulls, Creedence Charolais Ranch, Ervin Zayak, 780-741-3868, 780-853-0708, Derwent, AB

2 YR OLD and yearling bulls, polled, semen tested, guaranteed, delivered. Prairie Gold Charolais, 306-882-4081, Rosetown, SK.

MCTAVISH CHAROLAIS YEARLING bulls. Calving ease, performance, semen tested. Delivered. Call/text Jared 306-435-9842, Moosomin, SK.

YEARLING CHAROLAIS BULLS: We have a good selection of Yearling bulls at the farm. Good genetics and structure. Ready to go to work for you! Walking Plow Charolais, Woodmore, MB. Call 204-427-2589 or 204-427-3906, Email: rcgraydon@yahoo.ca

REGISTERED PB CHAROLAIS yearling and 2 yr. old bulls by private treaty. Semen tested and guaranteed. Call Brad 204-537-2367, 204-523-0062, Belmont, MB. www.clinecattlecompany.ca

CHAROLAIS BULLS, YEARLING and 2 year olds. Contact LVV Ranch, 780-582-2254, Forestburg, AB.

CREEK'S EDGE PUREBRED Charolais yearling bulls for sale, off the farm. We welcome you to our bull pen anytime. Call Stephen 306-279-2033 or 306-279-7709, Yellow Creek, SK. View all our bulls online: www.crekesedgecharolais.ca

YEARLING AND 2 YEAR old bulls, sired by Silver Bullet and Roundup, semen tested, Martens Charolais & Seed. Phone 204-534-8370. Boissevain, MB.

COMING 2 YR. old polled PB Charolais bulls, come red factor. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

2 YEAR OLD polled Charolais bulls. Also Charolais yearling bulls polled and horned, semen tested and delivered. Call Layne and Paula Evans at 306-252-2246 or 306-561-7147, Kenaston, SK.

RED WHITE TAN Charolais bulls, yearling and two year olds, Canyon Timeout, and Landmark bloodlines, semen tested and delivered. Wheatheart Charolais, Rose-town, SK., 306-882-6444 or 306-831-9369

GOOD QUALITY YEARLING and 2 year old Charolais bulls. Mostly AI sired. Semen tested. Some Red Factors. Will feed until breeding time. Contact Bar H Charolais, Grenfell, SK. Kevin Haylock, 306-697-2901 or 306-697-2988.

REG. CHAROLAIS YEARLING and 2 yr. old bulls, reds, whites. Yearling heifer calves. Richard Smith 780-846-2643, Kitscoty, AB.

MACMILLAN CHAROLAIS Purebred reg. yearling bulls available. Bred for growth, easy keeping and market demand. Thick bulls with good feet, lots of hair and very quiet. Bulls are semen tested and ready to go! Contact Lorna 306-227-2774 or 306-931-2893, Saskatoon, SK.

REGISTERED POLLED YEARLING Charolais bulls for sale. Call Larry 306-883-2169 evenings, Spiritwood, SK.

2 YEAR OLD registered purebred Charolais bulls, polled, white, good feet, lots of hair, easy keeping, very quiet. Semen tested and delivered. Call Qualman Charolais, 306-492-4634, Dundurn, SK.

CHAROLAIS 5055



PB CHAROLAIS BULLS, yearlings and 2 yr. olds, whites and tans. Call 306-429-2711 or 306-529-6268, Glenavon, SK.

DEXTER 5065

OLDER DEXTER COWS, bred Speckle Park, due April; Polled Red Dexter 2 yr. old bull; Speckle Park/Dexter cross 2 year old bull. 403-845-5763, Rocky Mountain House, AB.

GELBVIEW 5075

POLLED YEARLING and 2 year old bulls, quiet, good haired. Call Selin's Gelvieh 306-793-4568, Stockholm, SK.

GELBVIEW BULLS Reg. 2 yr. old and yearling polled bulls from our 38 year breeding program. Reds and blacks. 780-672-9950, Camrose, AB. Email: gwinder@syban.net

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HEREFORD 5090

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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, Ont.

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CRESTON: 19 acres. 1500 sq. ft. house, 3 bdrms, 1-1/2 baths. Nice yard w/garden, fruit and berry trees. 850 sq. ft. trailer, w/garden area is presently rented. Also includes barn, tool and chicken houses. Property is on Lister water. 3 acres seeded to grass, remaining 15 acres being grain farmed. 250-402-8178 or 250-402-8142.

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ALBERTA 6132

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DYSART 159 acres - owned by Carol & Brian Hubschmid
CHURCHBRIDGE 20 acres - owned by Adeline Adams
MELVILLE 152 acres - owned by Stilborn Agra-Services Ltd.
LUCKY LAKE 160 acres - owned by Laurie Boon, Garry Boon & James Boon
SALTCOATS 308 acres - owned by Priscilla & Timothy Weinmaster
LUCKY LAKE 311 acres - owned by Laurie Boon, Garry Boon & James Boon
SPIRITWOOD 315 acres - owned by Helen & Ray Conacher
KAYVILLE 318 acres - owned by State Agriculture Development Inc.
MACRORIE 482 acres - owned by Mavis Tweedie
WISETON 793 acres - owned by Shirley Horne, Donald Wendt & Craig Wendt
KIPLING 1110 acres - owned by Christina & George Foord
RABBIT LAKE 1191 acres - owned by Marlene Hildebrand

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CATTLE, HORSE AND GUEST RANCH, MLS® ID#1100413, CRAIK: 6 deeded and 4 leased quarters, (1600 acres). Approx. 430 acres cultivated, 350 acres seeded to Canola this year. Plus 80 acres hay. The rest is native grass/pasture able to graze 200-250 head of cattle. Guest Ranch has lots of accommodation and facilities; **11 QUARTERS OF LAND, MLS® ID#1100539, SENLAC:** 1322 acres of pasture/improved pasture. Includes a creek that flows through the property. 4 spring fed dugouts with excellent water throughout the entire property. 2 gas wells on property with CNRL. Fencing is good and a set of steel corrals are also included. Real Estate Centre, 1-866-345-3414. For all of our listings view: www.farmrealestate.com

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MANITOBA 6134

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COUNTRY HOME ON an acreage: 49.04 acres, 2976 sq. ft. bi-level 5 bdrm, 2 bath, energy efficient home, dbl att. garage, 2 sheds (12'x18' and 6'x8'), 2 large organic veggie gardens. Completely renovated lower level, \$349,000 OBO. 204-886-2500, RM of Rockwood, MB. hcbond@mts.net

LAND FOR SALE: Two quarters West of Plumias, MB. 319 acres (224 cultivated). NE 1/4 14-16-13 and NW 1/4 14-16-13. Contact Tom 204-803-7128.

CATTLE FARM - 11 quarters and 2 Crown quarters in a block. Near Roblin, MB. along the Duck Mtn. Prov. Park. Approx. 1100 workable acres, majority is hay. Fenced. Dugouts. May consider selling parcels. Scenic area. Yardsite has a 30'x66' pole shed/work shop. 2 cattle shelters. Corral. MLS #1627477. Karen Goraluk, Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

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COUNTRY PROPERTY, Rosa MB: Cattle, sheep or horse farm: 3 bdrm, 2 car garage, 72 acres, \$230,000. Call 204-434-9397.

FARMLAND FOR SALE: RM Shellmouth, Inglis, MB area. SE of 7-24-27. 149 total acres, 100 cult. acres; SE of 8-24-27, 159 total acres, 130 cult. acres. Info. phone 204-564-2270. allansavchuk1@gmail.com

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NICE LOCATION: 73 ac. & home \$149,000; 84 acres land \$40,000. 204-569-4927, Cowan, MB, countrypoppies@gmail.com

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CPR and child care experience required. Wages/salary negotiable. Accommodations negotiable.

Email your resume and references to: nseitranrn@live.com

FARM/RANCH 8016

SENIOR LEVEL FT EMPLOYEE required for specialized grain farm in scenic western AB. Possible accommodation. Must have experience with grain production, machinery operation, maintenance and service. Mechanically inclined a must. Duties include all aspects of field work, loading and weighing trucks, cleaning bins, keeping records, and general farm maintenance. Salary will depend on experience and performance. Partnership or shares possible. Flexible hours and days in non peak times. Phone/tx 403-994-2609. Email resume to: info@mastinseeds.com

HELP WANTED for cattle and grain operation. Monthly or hourly wage. Seeking self-motivated person, potential for year round work. 306-795-2710, Goodeve, SK.

SEASONAL EXPERIENCED HELP wanted on farm near Rouleau, SK. Must have 1A license. Separate housing provided. Phone 306-776-2390, armstrong.ent@sasktel.net

LARGE SE SASK grain farm hiring experienced equipment operators. Class 1A an asset. Competitive wages. Housing available. Phétext 306-421-1110. Email: duaneforrester@sasktel.net

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FARM LABOURER REQUIRED for livestock operation. Duties include: operating, maintaining seeding & harvesting equip. Smoke free enviro., \$17/hr. Housing avail. Lyle Lumax, 204-525-2263, Swan River, MB.

COMBINE OPERATORS AND Truck Drivers wanted: Come and be part of our 2017 Harvest Crew! Prior experience is an asset. Truck Drivers - Must have Class 1 license, be able to provide drivers abstract and pass drug test. All applicants must have a valid passport and be allowed entry into USA. Start May, 2017 in Texas work in Oklahoma, Kansas, Montana, Alberta and finish in Colorado in November. Accommodations and food provided. Call 303-345-5028.

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FARM/RANCH 8016

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FULL-TIME FARM HANDS required for large family farming operation. Previous experience with latest JD equipment and grain farming an asset. Must be reliable, self-motivated and have a valid drivers license. Wages negotiable. Call 306-648-8024, Shamrock, SK. Fax resume to: Hawkins Bros., 306-648-2689 or email hawkinsbros@sasktel.net

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FULL TIME POSITION available on a larger grain farm, duties to include planting, spraying, harvesting, and hauling grain. Must have Class 1, and previous farm exp. Housing with utilities available. Dwayne & Kim Farms, 204-748-8156, Elkhorn, MB.

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FARM /RANCH HELP in Central, AB. Large Cattle/Grain Operation is accepting resume's for herdsman/equipment operator. Must have ag background. Good wages for experienced person. Housing available on site. Available immediately. Submit resume with farm related work references by (fax) to: 780-376-0000 or (email) to: marie@rawesranches.com 780-376-2241, www.rawesranches.com

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FARM/RANCH 8016

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2 SEASONAL FARM MACHINERY operators required. Must be able to operate grain cart, tandem grain truck, FWA tractor w/rockpicker, 4 WD tractor for harrowing. Also manual labour for upkeep of leafcutter bees and general servicing of equipment. May 1 to October 31. \$15-\$18/hr. 101008187 SK Ltd., 303 Frontier Trail, Box 372, Wadena, SK., S0A 4J0. Fax: 306-338-3733, phone: 306-338-7561 or email: cfehr9860@hotmail.com

FULL-TIME FARM LABOURER HELP. Applicants should have previous farm experience and mechanical ability. Duties include operation of machinery, including tractors and other farm equip., as well as general farm laborer duties. \$25/hour depending on experience. Must be able to cross US border. Location: Pierson, MB/Gainsborough, SK. Feland Bros. Farms, Greg Feland and Wade Feland, Box 284, Pierson, MB. ROM 1S0. 701-756-6954.

EXPERIENCED FULL-TIME HELP for mixed farm, Class 1 an asset. Competitive wages. Call 306-537-6435, Odessa, SK.

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- Proven leadership abilities
- Team player
- A degree in Agriculture or relevant business discipline is an asset



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ANIMAL HEALTH

Ontario pork producer invests in technology

Unique ventilation system healthier, energy efficient

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

KEYSER, Ont. — A pork producer from Middlesex County in Ontario figures the extra money he spent on his new nursery barn will save him dollars in the long run.

Paul Willemse said the ventilation system he's using is unique to North American nursery barns. He also incorporated technology from a Dutch firm to help maintain the high-health status of his animals and optimize production.

"The air quality is crazy good," Willemse said.

"This is the first nursery ever, in North America, with this system."

Willemse and Paul de Rond of MS Schippers conducted a tour of the nursery on April 21.

There are two key benefits to the ventilation system. Fresh air entering the barn is pushed through a heat-exchange system, taking advantage of air warmed by the body heat of animals as it exits the facility. That saves energy when it's cold outside.

It also provides a healthier environment for both pigs and people.

Stale pit air is kept separate from the fresh incoming air. Fresh air is drawn into the barn from above and is drawn to the pigs' breathing space at the same time that dust, bacteria, gases and viruses are pulled into the pit area.

Scott Lawrence with Wiltshire Hamroc in Indiana said the Air-Works ventilation system was developed in the 1980s and has gained popularity over the past three to five years.

"You can use 75 percent less propane compared to a tunnel-ventilated barn of the same size," Lawrence said.

"In addition, the death loss is less, you use less antibiotics and you can sell more pounds of pork."

While the nursery barn system is unique, Lawrence and the system's inventor, Charlie Lemon, said the technology been installed in sev-



ABOVE: Paul de Rond, left, checks out the ventilation system equipment used in pig producer Paul Willemse's nursery in Keyser, Ont. It is designed to provide quality air for animals and workers.

BELOW: De Rond of MS Schippers supplies the epoxy-coating for nursery hallways, making them easy to clean. | JEFFREY CARTER PHOTOS

The goal is to raise the pigs without antibiotics, but if they're needed, they can be used on a room-by-room basis.

PAUL DE ROND
MS SCHIPPERS

eral Canadian weaner-to-finish barns. In Ontario, the ventilation systems are sold through Dortman Bros. Barn Equipment Inc., Lemon said.

Willemse has also invested in technology intended to maintain the high health status of his animals. The walls of the barn are built with rigid polymer forms and panels from Nuform Building Technologies Inc., another Ontario-based company.

For the exterior, load-bearing

walls, the forms are slid into place and concrete is poured into them. Moving from the outside in, there's a thin layer of plastic, two inches of insulation and then six inches of concrete contained in the plastic forms.

The polymer forms and interior wall panels provide surfaces that can be easily cleaned and disinfected. The same is true for the hallway floors in the barn, which have been coated with an epoxy paint supplied by MS Schippers and its Hy-Care system to create a pore-free environment.

In barns with concrete walls and floors, it's impossible to scrub away all the harmful bacteria, no matter how thoroughly areas are cleaned and disinfected, he said.

Appropriate sanitizing, using Topfoam, is the second element of the Hy-Care system. It involves the application of an alkaline cleaner that breaks down biofilm on the

walls and floors followed with a disinfectant.

"Because you've removed that film your disinfectant becomes more effective," de Rond said.

The third element of the system relates to water, a crucial consideration with any livestock facility.

Using a multiple-line system, Schippers' Total Water Care enables Willemse to clean lines with its Di-O-Clean product, lower the pH of the water to help maintain gut health in the animals and deliver up to two medications.

"The goal is to raise the pigs without antibiotics, but if they're needed, they can be used on a room-by-room basis," de Rond said.

The Schippers system also supplies products to control rodents and a biological product for the control of flies.

Willemse and his wife, Linda, and their employees operate a 500-sow, farrow-to-finish operation.



ONTARIO BUDGET

Ontario budget's ag spending plans fail to impress farmers

BY MARY BAXTER
FREELANCE WRITER

Ontario's agriculture industry is the province's top driver of the economy, so farm leaders were puzzled and disappointed when they saw little for their industry in the province's budget released in April.

But Jeff Leal, the province's minister of agriculture, said the province's support for the sector remains firm.

One issue concerned numbers that on paper appeared to show total funding for the Ontario ministry of agriculture, which includes the base budget and one-time-only spending and infrastructure investments, dropping by 4.4 percent to \$1.027 billion for 2017-18 from

\$1.074 billion spent in 2016-17.

"That's going to hurt the agricultural field for sure," said Clarence Nywening, president of the Christian Farmers Federation of Ontario, one of three main general farm groups in the province.

Nywening said farm expenses are growing and provincial decisions, such as banning certain chemicals from use in fields, makes it harder for Ontario farmers to compete with farmers in other jurisdictions.

In an interview, Leal said that the province's base budget for 2017-18, when one-time-only spending is excluded, will actually increase 3.5 percent to \$948 million.

The previous year's base budget had initially been set at \$916 million, but Leal said spending edged up to cover emergency aid for

drought relief, a \$3 million initiative for the Ontario Corn Fed Beef marketing program and \$19 million was added to help the greenhouse sector invest in new technology.

Nevertheless, Nywening said the only positive elements he saw for agriculture in the budget was that it was balanced and affirmed a plan to reduce household electricity costs by 25 percent.

Over the past several months, rural Ontario communities have protested escalating hydro rates.

Keith Currie, president of the Ontario Federation of Agriculture, said he was pleased to see reference to the hydro cost reduction, as well as a re-announcement of a \$100 million program to extend natural gas infrastructure into rural areas.

Overall, he said, the Liberal party plan on how it will spend money in the months ahead was disappointing.

The hydro cost reduction is a stopgap and the natural gas program will only have a limited impact, he said.

The Ontario National Farmers Union said the budget lacked initiatives that support agriculture

Emery Huszka, National Farmers Union, Ontario president, said he would have liked to see more initiatives that reflected the government's stated respect for the province's number one economic driver and employer. As well, he criticized the province's carbon

cap and trade program.

"Carbon taxing has a major impact on the agricultural community," he said, and farmers can't pass along additional carbon costs.

He said the NFU's biggest concern about Ontario's caps and trade system, which took effect in January, was its vulnerability to abuse by "polluting companies," where the credits would become "just a cost of doing business to pay for the pollution."

Under cap and trade, the province caps carbon emissions but then auctions off carbon credits that can be applied against the caps.

While announcing budget details, Finance Minister Charles Sousa emphasized that it was the first balanced budget in Ontario in four years.

POLLINATOR RESEARCH

Legal protection urged for wild pollinators

Expert urges farmers and ranchers to establish pollinator habitat and use environmentally friendly pest management

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

PORT STANLEY, Ont. — The contribution wild pollinators make to food production is widely recognized but there's a lack of knowledge concerning their habitat and habits here in Canada.

Pollinator expert Nigel Raine hopes to begin to change that. He plans to monitor pollinator activity at 50 different Ontario locations, including farm locations.

The University of Guelph researcher supports the creation and protection of naturalized areas in and around farmland to support populations of bees and other insect pollinators, along with the legislation to encourage it.

His views are detailed in the 240-page paper he co-authored, a document that was used in the development of Ontario's Pollinator Health Action Plan. *Status and Trends of Pollinator Health in Ontario* was released to the public in March.

"Pollinators are essential for agriculture as 76 percent of the leading global food crops, including many fruit, vegetable and seed crops, are pollinated by animals," the paper states.

"An emerging theme from this global evidence is that major crop types in proximity of natural or semi-natural habitat to agricultural lands is frequently linked to increased yields in a range of crops."

Raine hopes to determine whether efforts to improve habitat have been successful.

He said many people associate the environmental services of pollinators with honeybees, but they are just a small part of the global picture and cannot replace the services wild pollinators provide.

Raine said there are more than 20,000 bee species globally, includ-



This pollinator, feeding upon bergamot, is among the more than 850 Canadian bee species.

JEFFREY CARTER PHOTO

ing more than 850 in Canada, of which 90 percent are solitary and the majority are ground dwellers. Other species, including wasps, flies, butterflies, beetles and hummingbirds, also make an important contribution.

There's little published research concerning the benefits of wild pollinators in Ontario or Canada, Raine said.

What is known is that there's an ongoing, worldwide pollinator decline. Raine pointed to habitat

loss, the lethal and sub-lethal impact of agricultural pesticides, agricultural intensification, invasive species and climate change as contributors.

Raine's paper offers several ways farmers and ranchers can support



NIGEL RAINE
POLLINATOR EXPERT

pollinators and other beneficial insects:

- Establish pollinator habitat, including wildflower plantings and nesting locations, around farm fields.
- Plant and maintain wildflowers within farm fields, a practice that benefits pollinators and may help deal with insect pests and improve crop yield.
- Move toward a system of smaller fields, which, according to research, promotes high levels of insect biodiversity.
- Use integrated pest management, a wider crop rotation and alternative crops, techniques that have been shown to reduce the need for pesticides.
- Participate in programs that encourage farmers to manage their land in a more environmentally sustainable manner.

Raines was among several speakers at a meeting organized by ALUS (Alternative Land Use Services) Elgin.

Since ALUS Canada was founded in 2006 in Manitoba, more than 18,000 acres, including 1,800 in Ontario, have been committed to the program, which pays farmers to convert and maintain sections of their farms as naturalized areas.

ALUS Canada was relaunched as an independent, nationally registered, not-for-profit corporation last year.

LOOKING AHEAD

Self-driving cars could affect pig production: futurist

A drop in deaths from car accidents could mean a shortage of organs for transplant, and pig organs could be used for gene-editing

BY MARY BAXTER
FREELANCE WRITER

With the growth in vegetarianism and the rise of laboratory-engineered meat substitutes, the future of hog production may lie as much in medical research as it does on the dinner plate, says a Canadian futurist.

Self-driving cars may become the catalyst for using pigs to create human organs, Nikolas Badminton told a packed house at Ontario's London Swine Conference earlier this year.

Ninety people in the United States die each day in car accidents, and those deaths produce a significant number of the organs used in transplants.

Badminton said self-driving cars will eliminate this statistic and create a shortage of organs available for transplants.

To respond, researchers could turn to gene-editing technology already used by researchers at the University of Edinburgh, Scotland, to create pigs resistant to PRRS (porcine reproductive and respiratory syndrome) to alter pigs so they can grow human organs.



NIKOLAS BADMINTON
FUTURIST

Controversy over the ethics could become a problem, but Badminton said that an organ availability crisis

combined with acceptance of other technological advances, such as cloning, could change attitudes.

He also said livestock meat production faces pressure from world growth in veganism.

"In the U.K., veganism has exploded by 360 percent. Vegan food sales are up 1,500 percent."

Some unusual alternatives already serve this growing market, such as lab-cultured meat and meat look-alikes derived from vegetables.

Insects are another source of protein and have long been consumed in other countries. They're making inroads in North America too, he said. Among other things, Badminton also said artificially intelligent help may start to be offered for farms in three to five years, and he advised farmers to keep a watch on the renewable energy industry.

A study undertaken in the United

States showed that no crop could earn a farmer more than what the same acreage of solar power could generate.

"So there's people in North Carolina, utility companies going to farmers and saying, 'we'll pay between \$300 and \$700 an acre to have solar on your land.'"

Too much technology?

Badminton also pointed to how advances in data management might improve performance, but those advances come with drawbacks, a major one being security.

"As we get online and get access to this data, we're potentially leaving backdoors open for people to walk in," Badminton said. "There'd be nothing worse than having a technologically savvy operation on a farm and then a hacker holding it hostage."

Badminton also described a growing interest in water conservation inspiring greater adoption of aquaponics, a system in which fish waste is used to fertilize plants and the plant waste in turn is used to feed fish, and hydroponics, as well as the trend of locating food production closer or even within city limits.

He used examples such as fish farms at Singapore's airport and the AeroFarms hydroponic vertical farm in New Jersey that grows greens in a former steel mill.

He also mentioned a Dutch grocer that grows herbs right on its store shelves and buyers clip what they want.

It's an innovative farmer's world, he said, where technological change will result in more efficient and sustainable practices that will "benefit you and the rest of humanity as well."



Nick Connors, current chair of the board of directors of the Long Clawson Dairy, is among the co-operative's members who take advantage of England's lengthy pasture season. Others operate high-production confinement systems. | SUPPLIED PHOTOS

CETA AGREEMENT

Cheese makers anxious over import quotas

Canadian cheese sellers want a share of the import quota to offset higher priced domestic product

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

DRESDEN, Ont. — Small and mid-sized Canadian cheese makers may be able to cash in on the expected increase in European Union cheese imports.

The group was unhappy with the Comprehensive Economic and Trade Agreement between Canada and the EU, which opened the door to about 17 million kilograms of additional, tariff-free cheese from Europe, to be phased in over six years.

Now they want a share in the tariff rate quotas (TRQs), which would give them the right to import cheese, as a means to adjust to the new business environment and build alliances with European cheese makers.

"The question is, who will have quota when all this cheese comes in?" said James Oliver, general manager of the Empire Cheese Co-op in Eastern Ontario.

"Everyone is after it, the TRQs. If Loblaws or Sobeys get it, it will hurt us quite a bit."

Denis Brassard of the Canadian Alliance of Cheesemakers said the organization expected that the TRQs will primarily be filled by fine EU cheeses that compete directly with the types of cheese produced by the 37 companies that are part of his organization.

Most alliance members are located in Quebec and Ontario. There are also members in Nova Scotia, New Brunswick, Manitoba, Alberta and British Columbia.

"The government has understood that this is very important to us. We are the specialists in this

market and we've been growing each year," Brassard said.

Brassard said the alliance feels they could lose 50 percent of their current revenue under the present CETA deal.

Having TRQs would provide small and medium cheese makers with a new source of revenue that would support the continued production of fine Canadian cheeses at a lower cost to consumers, Brassard said. It could also help alliance members to grow despite the limits imposed by milk supply rules.

Forging relationships

As importers of cheese, alliance members might even build business relationships with European cheese makers.

This could involve access to advanced technologies and licensing arrangements allowing Canadian companies to produce European-style cheese here in Canada.

Oliver said there's strong support among Canadian dairy farmers for Canada's supply-management system but it does put cheese makers at a disadvantage. Canada has some of the highest milk prices in the world, he added.

In United Kingdom, the export manager with Long Clawson Dairy, Martin Harris, said it's been challenging to export the company's Blue Stilton and other specialty cheese to Canada.

"The problem with Canada is you have these draconian import restrictions," he said.

"We can and do sell to Canada but it's a finite amount."



While just 43 farming operations deliver milk to Long Clawson Dairy, the company employs upward of 300 workers.

UK cheese makers, are unlikely to be able to capitalize on Canadian TRQs, given the United Kingdom's plans to leave the European Union. However, companies like Long Clawson, a co-operative owned by 43 family farms, is experienced with the export trade.

The majority of the co-operative's exports are to the United States and Harris said the company, while small, has been successful.

"We focus on quality and you have to be efficient and your farmers have to be efficient."

A Canadian cheese importer, Pat Pelliccione with Jan K. Overweel Limited, said that while Long Clawson is small, they're also the largest maker of Blue Stilton in the world, one of just six English dairies operating under the British Protected Designation of Origin status.

According to Paul Eggleston, who sits on the Clawson co-operative's board of directors, the U.K. had its own quota system but it wasn't effective because U.K. farmers were not producing enough milk to meet the domestic demand.

"I don't see the merit to supply management. I believe in a free economy," he said.

Co-operatives are a popular business structure for farmers in the U.K., and Europe, Eggleston said. Depending on the price of milk, farmers can be profitable through milk sales, through the co-operative they have ownership in or both.

Eggleston, whose family helped found Long Clawson Dairy in 1911, moved from a high-production, confinement system to a seasonal, pastured-based production in 2004. He said his cows with their British Friesen genetics are not high producers but are cost-effective.

Eggleston and his family have 500 acres that support 450 head. Another 60 heifers are kept on a neighbouring farm.

Last fall, federal Agriculture Minister Lawrence MacAulay announced two programs worth \$360 million for Canada's dairy industry. Of that amount, \$250 million is designed to help farmers update their farms to boost productivity.

The rest is to help dairy processors modernize their operations.

CETA AGREEMENT

Cheese importer weighs in on quotas

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

DRESDEN, Ont. — As a long-time cheese importer, Pat Pelliccione hopes to have a share of the increase in tariff-free cheese coming from the European Union.

More than 17 million kilograms will be allowed under the Comprehensive Economic and Trade Agreement between Canada and the EU, to be phased in over six years.

Pelliccione said he thinks a decision as to who will receive the necessary TRQs (tariff rate quotas) is likely to be announced by June 1 or July 1, after hearings of the Canadian Senate are complete.

"I don't know if we will get a kilo. I just hope government will give us something," Pelliccione said.

"All signs are pointing to sooner rather than later for a decision."

Others are looking for additional TRQs, he said, including processors, retailers and traditional importers like his own company. While it isn't known who'll receive them, 30 percent are to be distributed among new entrants to the trade.

The changes do not bode well for supply management and dairy farmers, Pelliccione said. However, CETA does open opportunities for Canadian beef and pork to head to Europe, he said.

Overweel handles Canadian cheeses, but only for distribution within Canada. Pelliccione said his company has given up trying to export Canadian cheese, as have most others.

While supply management does deliver benefits to farmers, it doesn't lend itself to exports, he said. It's a transparent system, susceptible to intervention by competing trading nations looking to block Canadian exports.

Part of the trade-off of having supply management and high TRQs on imported milk products was that Canadian dairy producers would supply milk only for domestic use.

However, that means Canadian cheese makers pay some of the highest prices for milk compared to world markets.

Pelliccione understands the need to support the Canadian dairy sector. He said most other countries do the same but are more subtle.

Pelliccione is president of Jan K. Overweel, a family-run business that's been importing food products from Europe since 1947. He's also the chair of the International Cheese Council of Canada.

THE CETA DEAL WILL ALLOW

17 million

KILOGRAMS OF EU CHEESE IMPORTS

25 YEARS AGO

Drought threatens as Alberta sees dry winter and spring

FROM THE ARCHIVES



BRUCE DYCK

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: APRIL 30, 1942

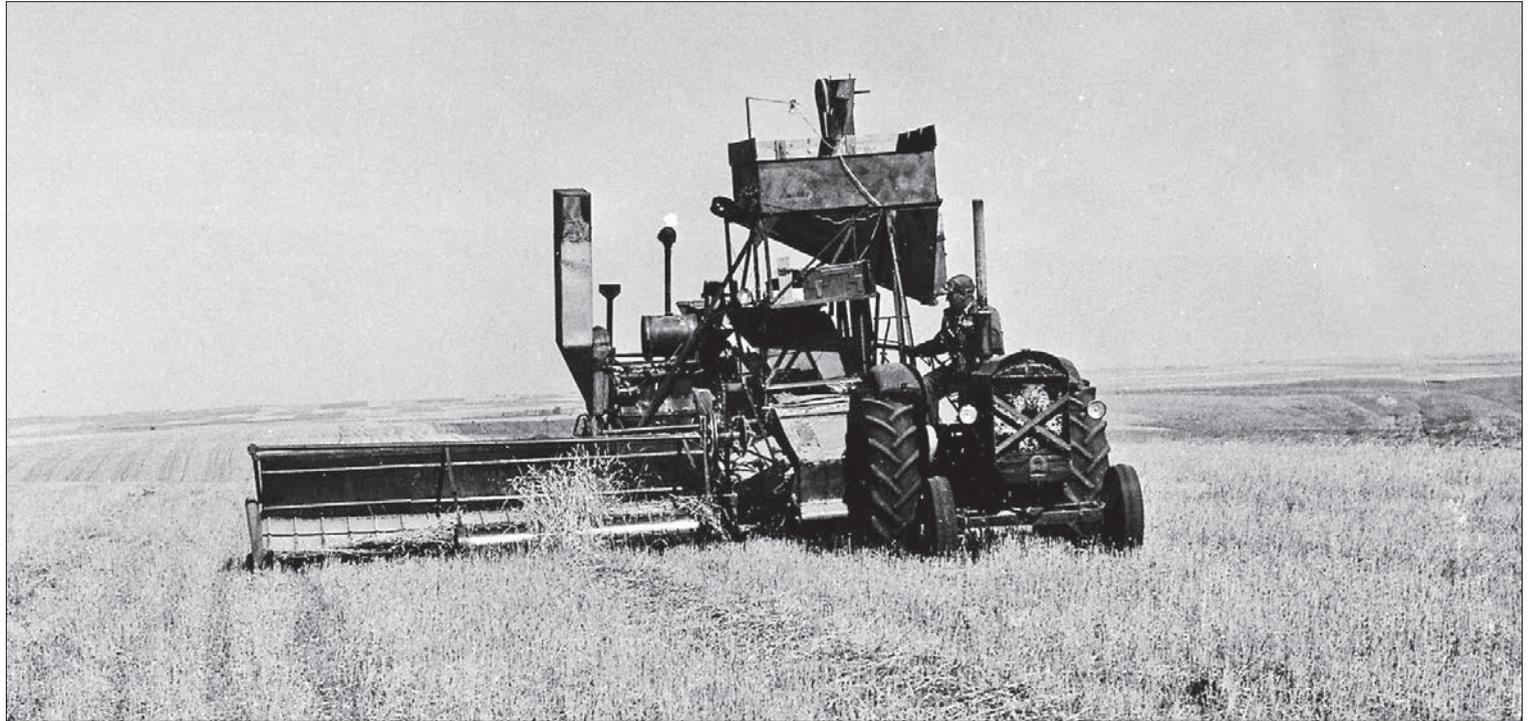
The Saskatchewan government said it would not use a blanket farm debt moratorium to stop repossession of farmland. Instead, it would use orders-in-council on an individual basis. This move was intended to overcome the problems created by Saskatchewan courts disregarding the province's debt adjustment legislation.

Defence Minister James Ralston said the government was unable to grant wholesale leaves to soldiers for seeding and other farming operations. Doing so would disrupt their training, he added.

50 YEARS AGO: MAY 4, 1967

Two weeks after a judge ruled against Manitoba's vegetable marketing commission, the provincial government dropped a bombshell on the industry by announcing it was eliminating the commission.

It had been compulsory for vegetable growers to market their pro-



Ron Halliday harvested his crop near McGee, Sask., in 1956. | FILE PHOTO

duce through the commission since it was established in 1964, but a judge ruled in mid-April that it was beyond the province's powers following a challenge by an onion grower.

Most Saskatchewan soil was "abnormally deficient" in phosphorus.

Gary Rice of Saskatchewan Wheat Pool's farm service department said analysis of soil samples taken the previous fall found that 81.3 percent of summerfallow fields and 81.4 percent of stubble fields were low or very low in available phosphorus content.

25 YEARS AGO: APRIL 30, 1992

Alberta farms were gasping for water as the province moved into one of its driest springs ever.

Peter Dzkowski, an agricultural weather specialist from Edmonton, said a dry winter wasn't unusual for Alberta, but the length of the drought was. Some areas had received only a third of their normal rain and snow during the previous five months.

The Gross Revenue Insurance Plan was being blamed for a stampede into lentil production in Manitoba that was resulting in a 30 percent drop in prices and in some

cases a halt to the signing of price contracts.

Companies that bought special crops said the culprits were changes implemented by the Manitoba Crop Insurance Corp. and high support prices.

It was estimated that lentils could be grown on 400,000 acres in the province in 1992, way up from the 135,000 acres the previous year and Statistics Canada's March estimate of 165,000 acres.

10 YEARS AGO: MAY 3, 2007

Chemical manufacturers and

distributors were warning growers to expect to pay more for glyphosate in the fall, if they were able to find any at all.

"There is no doubt about the fact that supply is tight," said Monsanto Canada spokesperson Trish Jordan.

Prairie summerfallow was expected to drop to its lowest level since 1920. A Statistics Canada survey in March found that growers planned to leave eight million acres idle, which was 25 percent less than the previous year.

bruce.dyck@producer.com

AG NOTES

EXPORTS TO AUSTRALIA ENCOURAGED

Eight Alberta companies recently participated in video conference export cafés with the Trade Commissioner Service at the Canadian High Commission in Australia.

Held in Calgary and Edmonton, the initiative allowed companies to obtain direct consultation and feedback from experts in the Australian market to better prepare them for export development plans to the region.

Advancing the province's presence and profile within Australia through future market development initiatives looks promising based on export café participant feedback.

Canada's agri-food exports to Australia were valued at \$221 million in 2015, while Alberta's agri-food exports were valued at \$26 million during the same period.

For more information, visit albert.eringfeld@gov.ab.ca.

ALBERTA LOOKS FOR FARM PROGRAM INPUT

Alberta Agriculture is asking for input into the next agricultural policy framework through an online survey that is open until May 8.

Key priorities include:

- markets and trade

- science research and innovation
- risk management
- environmental sustainability and climate change
- value-added agriculture and agri-food processing
- public trust

EXCELLENCE AWARD DEADLINE LOOMS

The deadline for the 2016-17 Excellence Award for agricultural students is May 5.

The competition is designed to encourage students to improve critical thinking, communication and leadership skills.

It will award scholarships to three students furthering their agricultural education. First place stands to win \$1,500.

Applicants are required to submit a multimedia presentation, a video, a Twitter chat, a blog or a Wiki, responding to the following question:

Certain segments of the general public question the way food is produced, and have misgivings about the use of new technology. What concrete steps would you, as a future member of the agricultural industry, propose to bridge the information and awareness gap?

To take part go to www.fmc-gac.com. More information is available at Mathieu@fmc-gac.com.

Farm Management Canada and the Canadian Association of Diploma in Agriculture Programs organized the competition.

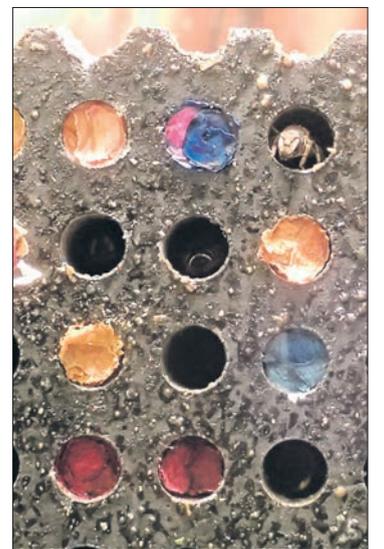
Loveland Products Canada would like to acknowledge the insert (CPS - Take Control of Plant Performance) made reference to an in-furrow application of RADIATE® which currently is not on the label.

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PRODUCTS

Snapshots from Aggie Days

Family farm show | Lethbridge hosted Aggie Days April 25-26, drawing large crowds of the young and young-at-heart. It was a good opportunity to showcase animal care and give visitors a hands-on opportunity to experience farming.
| **BARB GLEN PHOTOS**



TOP ROW, FROM LEFT: Herman Houweling of Picture Butte, Alta., was teaching visitors how to rope cattle. Finley Johnson was an enthusiastic pupil.

Melodi MacKinnon of Thorhild, Alta., brought her goats to Aggie Days. She calls these cross-bred goats her miracle babies because they had a rough start in life.

Brown chickens lay brown eggs. That was one fact imparted to visitors to the Egg Farmers of Canada display.

You can actually see the butts of some leafcutter bees as they pack bits of flower petals into cells. The alfalfa seed growers had them on display at the show.

MIDDLE ROW, FROM LEFT: A sow and her piglet take a snooze.

Calvin Goetz made a hat from the results of a rope-making demonstration.

There's nothing sweeter than a girl and a goat. Jordynn Moradel, 4, gave this kid a hug in the petting zoo.

BOTTOM ROW: Princess made no secret of her favorite things.

BRITISH COLUMBIA ELECTION

NDP campaign focuses on 'Grow B.C., Feed B.C., buy B.C.'

BY TERRY FRIES
FREELANCE WRITER

SUMMERLAND, B.C. — Success in agriculture for the British Columbia NDP hinges largely on convincing the province's residents to buy local.

"We need to help people understand that choosing fruits and vegetables that are grown at home keep our farmers on the land," said Colleen Ross, NDP candidate for the May 9 provincial election in the Boundary Similkameen riding in south-central B.C.

Ross, who operates a small farm in Grand Forks, said that's why the party emphasizes its plan to develop what it calls an enhanced Buy BC program. In addition to encouraging local consumers to buy B.C. food products, it would also market B.C. food products through the rest of Canada and abroad, she said.

Buy B.C. is just one leg of an initiative the party calls Grow B.C., Feed B.C., Buy B.C.

There are few details on the process or the funding needed to operate the initiatives, but the party's agricultural platform contains other aspects in addition to promoting B.C. products.

Those include revitalizing the Agriculture Land Reserve, improving young farmers' access to land, ensuring healthy bee populations and supporting fruit and nut growers and processors.

As well, the platform touches on a plan to help hospitals and care facilities increase their use of B.C. grown and processed food and said the party would work to increase the use of B.C. food products in all government facilities.

Ross acknowledged that international trade deals such as the Comprehensive and Economic Trade Agreement with the European Union can make government-imposed preferential buying policies controversial.

"By moving into these trade agreements, it actually makes it very difficult for institutions to preferentially purchase from local producers or hire local companies, and we need to do something about it. We need to push back on those trade agreements."

Ross said other policies related to start-up and development grants for new businesses would also be available to farmers.

"It's a highly technical, professional career being a farmer. They are not barred to access for the start-up grants."

Development of a B.C. food innovation centre is another key part of the NDP's agricultural plan.

The party said it plans to iron out details after conversations with growers, processors, colleges and universities with the idea that the centre would "link food producers with new technology and expand their access for world markets."

Despite statements from B.C. Liberal Agriculture Minister Norm Letnick that the provincial agricultural economy is thriving with \$13 billion in agri-food receipts in 2015 and record profits of \$440 million, Ross sees a less rosy picture.

She said a lot of small- to medium-sized farmers are struggling.

"These numbers do not reflect farm income. That money is not going back into the pocket of farm-

ers. That goes back into big corporations."

The NDP wants to offer incentives to help farmers be more creative in growing, marketing and processing. She said many young farmers understand the need to brand themselves and their farms and serve particular niches to gain price premiums, such as certified organic or pesticide free.

Ross also rued the loss of on-farm processing and said incentives could help restore some of that.

For example, her area around Grand Forks once had a jam factory that no longer exists.

"Now the valley just has houses and we're grazing deer. People aren't really making much in agriculture in Grand Forks any more



COLLEEN ROSS
NDP CANDIDATE

and it's one of the largest, sunniest valleys in the province."

The NDP has also promised to increase the minimum wage to \$15 per hour, which has some farmers and orchardists worried. Orchard operators in particular might feel the effects because they routinely

hire large numbers of unskilled fruit pickers and some fear they couldn't afford to pay that wage.

Ross said the plan is to phase in the minimum wage increase to make the transition easier.

The NDP plan for climate change would also shield farmers by offering rebates to people with low incomes, she said.

The provincial carbon tax is \$30 per tonne, but farmers are currently exempt and greenhouse operators are 80 percent exempt after complaints from farmers that the tax put them at a competitive disadvantage to farmers in other provinces and internationally.

The NDP plans to increase the carbon tax in line with the federal carbon pricing mandate. It plans to

use revenue from the tax for rebates to low income residents and invest in ways to lower the province's carbon footprint.

Ross said the party would also stop the controversial Site C hydro dam construction in the Peace River region, which is removing fertile land out of productive use.

"Flooding agriculture land for the dam is not respectful of food production," she said. "For the Liberals to say that they respect farmers and food production and then they push farmers who are resistant to moving out of the Peace River to flood their land, it just doesn't make sense to us."

Terry Fries is a freelance writer based in Summerland, B.C.

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PRODUCTION

POLISH CANOLA

Farmers facing a late spring may want to look at Polish varieties. They have their problems, but their early maturity might be just what some producers need this year. | **Page 52**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM



The Harrington Seed Destructor has spent its first year in Canada. Researchers have some initial thoughts about the technology. | AAFC PHOTO

EQUIPMENT REVIEW

Harrington gets research report card

Ag Canada scientists weigh the cost and benefit of the machine designed to pulverize weed seeds during harvest

BY ROBIN BOOKER
SASKATOON NEWSROOM

LACOMBE, Alta. — Agriculture Canada began working with the Harrington Seed Destructor last fall to see how it handles weed seeds in western Canadian fields.

The machine was built in Australia to help control weed seeds during harvest.

“Harvest weed seed control attempts to stop viable weed seeds from going back into your seed bank,” said Breanne Tidemann, a research scientist with the federal department.

“Chaff goes into the seed destructor and into a cage mill and basically gets pulverized and it kills the seeds so that they’re not going to grow the next year.”

Agriculture Canada received the seed destructor too late to perform field trials last fall, but stationary testing work was performed at a PAMI research facility in Humboldt, Sask.

“One of the common questions is what about weed seed size? Will it actually control some of our small seeded weeds? We didn’t know,” Tidemann said during Murray Hartman’s Science-O-Rama in Lacombe.

“In Australia, they have been primarily focused on larger seeded weeds, so no one had really looked at that.”

Different weed species were used, including kochia, green foxtail, false cleavers, volunteer canola and wild oats.

Various sizes of canola seed were also tested.

“The reason we wanted to do that was that by using the same species, you have the same seed shape, the same type of seed coat, the same seed structure. The only difference was seed size,” Tidemann said.

The researchers also evaluated weed seed volume, chaff volume and chaff type.



BREANNE TIDEMANN
AGRICULTURE CANADA

“We also looked at weed seed number, between 10 canola seeds in a five-gallon pail of chaff up to a million canola seeds in a five-gallon pail of chaff,” Tidemann said.

“Chaff volume, so running seeds through with no chaff to up to eight five-gallon pails of chaff with 10,000 canola seeds dispersed throughout. As well, as chaff type,

so does it matter what kind of crop is going through in terms of controlling? Barley, canola, pea chaff were used.”

The seeds and chaff were taken to Agriculture Canada’s research centre in Lacombe for evaluation after they were run through the seed destructor. Technicians hand picked through the samples, looking for viable seeds, and then tried to germinate them.

Seed destruction improved slightly to 99 percent from 98.4 percent as the seed size increased in the canola seed size evaluation.

“Does anyone in the field care about a one percent or half percent difference? Probably not,” Tidemann said.

“Yeah, there is an impact of seed size, but in the field they are going to get really good control not matter what the seed size is.”

The weed seeds tested differently on a number of measures beyond size, but there was 97 to 98 percent control of every weed seed tested.

The impact of seed volume was affected by sample size because any seed that survived dropped the control by 10 percent when there were only 10 seeds in a five-gallon pail of chaff.

The control was 84 percent when only 10 seeds were tested, but the control was up in the 97 to 98 percent range once 100 seeds or more were tested. The control increased

In summary, if you can get the seeds into the destructor, pretty much 98 percent of them are going to die.

BREANNE TIDEMANN
AGRICULTURE CANADA

when a small amount of chaff volume was added.

“What might be happening in there, we don’t really know, but there is enough material in there that the seeds are getting bounced around in there more times and you end up with less seeds being viable, that’s the hypothesis,” Tidemann said.

The control also began to drop off when a high volume of chaff was run through the seed destructor, showing that there might be a point where the chaff begins to protect some of the seeds.

“Regardless, we went from just over 98 percent control to just over 99 percent control,” Tidemann said. “Probably not going to make a big difference when we get it into the field.”

There was a slight control difference between the different chaff types with canola’s chaff having the lowest control, which Tidemann said could have been caused by

volunteer canola in the chaff. However, the control ranged from 98 to 98.6 percent, which is high regardless of chaff type, she added.

“In summary, if you can get the seeds into the destructor, pretty much 98 percent of them are going to die,” Tidemann said.

Agriculture Canada tested a Harrington Seed Destructor that tows behind a combine, which has its own 200 horsepower power plant.

The Integrated Harrington Seed Destructor was launched in March 2016, which installs the seed smashing technology into the back of a combine as a retrofit.

However, Tidemann said it will be a challenge getting it into Canadian combines.

The Integrated Harrington Seed Destructor costs approximately \$160,000, and 15 working units operated in Australia last year.

Tidemann said tests found that operators of the original machine were able to run their combines at capacity, but operators of the new version may have to slow down because it draws 60 h.p. from the combine.

“In Australia, they talk about Class 8 and Class 7 combines, and they basically say run a Class 8 combine at a Class 7 capacity once you integrate the seed destructor into it.”

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IRRIGATION

Land shortage hinders irrigation research

Demand for trial research on variable rate applications, rotations and variety research is growing but the land available is not

BY MICHAEL RAINE
SASKATOON NEWSROOM

OUTLOOK, Sask. — There is nothing like success to create problems.

Irrigation agriculture research in Saskatchewan is alive and well, so much so that a shortage of a critical element has caused its primary research group to turn down opportunities, along with the associated funding.

The Canada-Saskatchewan Irrigation Diversification Centre in Outlook, Sask., couldn't take on any more projects this year due to a shortage of the one thing they don't make more of—land.

The research station appears sizable from the outside looking over the fence with 266 acres of owned land and another 15 on a new lease from the town for this season. But looks can be deceiving.

"There is only about 98 acres we can use for research," said Garry Hnatowich, research director for the Irrigation Crop Diversification Corporation, which manages the centre.

A combination of transitional soil, wind blown sand and odd shapes that preclude locating pivots cut into the prospects for research at the site.

"And the more (research) we deliver, it seems, the greater the demand," he said.

New research, such as variable rate application through irrigation, requires pivots rather than linear systems to be relevant.

All members of the research initiative — Agriculture Canada, Saskatchewan Agriculture, the University of Saskatchewan, the Irrigation Projects Association and the ICDC — have their priorities for the site and eat up 35 to 40 acres each. With a four-year crop rotation to maintain sustainability and data



The Canada-Saskatchewan Irrigation Diversification Centre in Outlook, Sask., is bursting its banks as it runs out of land for research.

FILE PHOTO



GARRY HNATOWICH
RESEARCHER

quality at the site, this more than takes up the available land.

"We need about 160 acres to keep up with what we are doing now," Hnatowich said.

"We literally are stepping on one

another around the plots."

The system is now using one-in-three year rotations and has to cope with filler years on some plots, which are stretching what can be accomplished at Outlook.

New opportunities for the centre include last year's doubling of irrigated lentil acres, the demand for research on soybeans as a recent crop of interest for the Prairies and a provincial push to see expansion of Saskatchewan's irrigation production.

"You hate to turn down research dollars and requests, but reality has set in," Hnatowich said.

Sixty-six research and demonstration trials were run at the centre

last year, resulting in more than 5,000 plots.

"There was something like 130 or so cereal varieties, 100 oilseeds, 100 pulse crops, 36 creamer potatoes, forages and then the specialty field crops like quinoa and borage. There is a lot going on," he said.

"If you want to do more in lentils, you can't because there is too much root disease pressure if we can't run a proper rotation."

The centre's management committee is looking at the short-term fix of leasing more land. However, the long-term repair will require a purchase. Funding that in an area where producers are also looking to expand acreage and in a community where pockets run deep will be challenging.

"This is one of those situations in agriculture where we have to take the long view, and that has always been challenging," said Hnatowich.

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THE CENTRE
CONDUCTED
66
RESEARCH TRIALS
LAST YEAR

AWARDS

U of S ag grads present lifetime achievement awards

BY MICHAEL RAINE
SASKATOON NEWSROOM

Recognizing those who have come before in any field is a practice that reminds an industry how it got where it is today.

The number of agricultural graduates is growing. As the field's demands rise and the current crop of practitioners ages, the opportunities expand.

Every year the University of Saskatchewan's ag grads recognize some of their own for contributions to the industry.

This year, Jim Bessel and Barb Stefanyshyn-Cote were awarded life memberships in the organization.

Stefanyshyn-Cote is a Nuffield scholar and farmer from Leask, Sask.

After many years of farming, livestock nutrition consulting and operating a farm inputs business, she and husband John sold their farm at Leask and moved to the Saskatoon area.



Barb Stefanyshyn-Cote was recognized for her contributions to agriculture. She and her husband, Jim, operate an agritourism and liquor distillery near Saskatoon. | SUPPLIED PHOTO

A well-known public speaker and former Outstanding Young Farmer award winner, she lectures at the U of S and operates an agri-tourism

and liquor distillery near Saskatoon.

Bessel has spent more than 40 years in agriculture, beginning in

dairy farming and field crops and later as a full-time agrologist. For many years he was the go-to agrologist for many producers when it came to canola in the province, serving as a research and extension agrologist with the Canola Council of Canada. He has received the Queen Elizabeth Medal Diamond Jubilee Medal for his service to the industry

Bessel serves on the provincial council of the Saskatchewan Institute of Agrologists and continues to consult as an agrologist.

In addition to these U of S ag grads, a Waterloo graduate was also given the honour.

Mary Buhr, dean of the agriculture college and a researcher and professor of reproductive biology, is well known for her support of the industry and academia at home and around the world. A strong supporter of 4-H, she is known for her local perspectives on a global industry.

"We take the opportunity to recognize those who have made a sig-



MARY BUHR
AGRICULTURE COLLEGE DEAN

nificant contribution to our agriculture. It is very few, so it really is an honour for those who have it," said Irene Ahner, an ag grad and producer from Shaunavon, Sask.

Added Ewald Lammerding, a grad from Saskatoon: "The number of (U of S) grads is really large. The college has had such a positive influence on the industry, especially in Canada's largest agricultural province, that the recognition with the award carries a lot meaning."

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BIN MANAGEMENT

Temperature key to maintaining canola condition

All or nothing: don't run the fans or partially turn the inventory if it's already cool and dry

BY ROBIN BOOKER
SASKATOON NEWSROOM

As the spring turns to summer and the canola stored in the bin yard begins to warm up, there's always a danger that condensation will cause spoilage when the cold oilseed is exposed to warmer temperatures.

"That was the whole point of the study," said Joy Agnew of PAMI, a research organization that tests farm equipment.

"We thought turning it or blowing air through it would help alleviate that, but that natural convection did not result in any instability or condensation in the bin that we monitored."

Instead, running the fans caused more problems than just leaving the canola alone.

"We hypothesized that running the fans to slowly increase the temperature of the grain as the spring and summer progressed would be beneficial, but as soon as you put warm air into cold grain, you're going to have that temperature differential right away in the grain," she said.

"That also resulted in unstable

You never really know what could cause spoilage, which is why we try to keep it as cool and as dry for as long as possible to minimize that risk.

JOY AGNEW
PAMI

conditions for a short period of time, after aeration."

There is a potential for condensation any time cold material is located right next to warmer material.

This is why it's actually better to leave the canola alone in the bin as temperatures increase — don't aerate it or turn it as long as the canola is cool, dry and uniform.

"Canola is always that finicky grain," Agnew said. "You never really know what could cause spoilage, which is why we try to keep it as cool and as dry for as long as possible to minimize that risk."

The main problem observed in the two years of PAMI's summer storage project occurred when the



As spring temperatures rise, so may the temperature in grain bins, leading to spoilage. Growers are advised to monitor bins to minimize the risk. | FILE PHOTO

warm grain at the top of the bin funnelled down into the centre of the bin when a load was taken out.

"If you're only turning a portion of the grain, like pulling, say, a third of it out and putting it back on top, it's mixing up the grain, but you run the risk of having warm grain directly adjacent to cold grain," she said. "Even in early spring, the grain at the very top is going to be a fair bit warmer than the grain at the centre of the bin."

If logistically possible, it's more effective to completely empty a bin if grower chooses to turn it.

"If you are needing to turn it to

help even out the temperature or moisture profile — and actually, turning when you are drying in (the) bin with supplementary heating systems is absolutely essential — if possible, pull all of it out and put it in another bin," Agnew said.

However, pulling out a portion of the bin and putting it back on top is better than just leaving it unmixed when there is variability in temperature and moisture.

"That's still acceptable, but it's not going to be as effective as pulling all of it out and putting it into another bin," Agnew said.

"The main problem with partial

turning when you are trying to mix it is you're not going to get uniform mixing."

She said it is important to keep a temperature cable in the bin to monitor any temperature increases, even if the canola was cool and dry going into the spring and it's going to be left alone.

"I've heard stories that even in perfect conditions with perfect grain, there was still spoilage," she said. "You can minimize the risk but you can never eliminate all risk, so just keep an eye on it."

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CHOOSING VARIETIES

Polish canola may be an option if seeding runs late this spring

BY ROBIN BOOKER
SASKATOON NEWSROOM

The late spring has growers thumbing through the seed guide looking for shorter season varieties and calling seed growers to see if there is still seed available for early maturing crops.

For growers looking for a short season canola, Bob Mastin of Mastin Seeds near Sundre, Alta., said Polish canola might be a good option.

Mastin sells two of the latest Polish canola synthetic hybrids that reach maturity in 85 to 90 days, on average.



BOB MASTIN
MASTIN SEEDS

"My five-year average through crop insurance, which is the gold standard and no b.s., is about 35 bushels per acre. So, I've had over 40, then on some problem years I've had in the 20s," Maston said.

"Thirty-five compared to 55 or 60 of Argentine isn't really that attractive, but if Argentine is a zero option and it's a choice between zero and 35, 35 beats the hell out of zero."

Angela Brackenreed, an agronomist specialist at the Canola Council of Canada, said improvements have been made in the Polish canola breeding program, and the crop could be used as an insurance policy on some acres, although maybe not across the entire farm.

"With that Polish canola, the yield potential certainly is not at the point of our brassica napus ... Argentine canola, and some of the disease packages are lacking as well," Brackenreed said.

"You want to know that you have no major diseases issues, like major blackleg issues, and that you have no major weed control issues that will hinder the progress of a Polish variety."

She said a major hurdle when growing Polish canola is that it doesn't have herbicide tolerance, and growers are confined to pre-seeding and Group 2 chemistries.

"If you have kochia, cleavers or thistle issues, then weed control could be a major hurdle with these varieties," Brackenreed said.

She said there are also short season napus varieties that have similar days to maturity as Polish



If you have kochia, cleavers or thistle issues, then weed control could be a major hurdle with these varieties.

ANGELA BRACKENREED
CANOLA COUNCIL OF CANADA

canola, and the napus varieties have better disease packages, yield potential and herbicide options.

Ashton Trawin of Trawin Seeds in Melfort, Sask., grows and sells AC Synergy, which is a non-genetically modified Polish variety that offers a 15 to 20 percent yield bump over Sunbeam and ACS-C7, the two more generic Polish varieties from 20 years ago.

"As for maturity, it's about 87 days, but the days will shorten as you plant it later," he said.

"It seems like it will mature in 83 or 85 days compared to 87 if you sow it mid-May. As for yield, (it) will be about mid 30s if you sow it

mid-May, so 35, 36, 37 bushels an acre. As you progress to mid-June, the yield drops and you'd probably be more like 30 bu. by June 10."

He said growers should match their fertility package with their seeding dates.

"If you're sowing it late, then the idea would be you would drop your fertility of nitrogen down to match that," Trawin said. "With only a 25 to 30 bushel per acre crop, you're probably only going to need 60 or 70 pounds of N, and the rest would just be a waste and lost to volatilization or leaching."

A problem with late-seeded canola is there is a greater chance of aborted flowers due to hot weather.

"If it's 26 C or about, you start getting aborted flowers, and typically if you're seeding it later, your flowering is going to be directly in the middle of the hottest part of summer," Trawin said.

Limited herbicide options means it's not a good idea to grow a Polish canola on a dirty field.

Trawin uses Edge as a pre-seed, Assure or Post for in-crop grasses and Muster Toss-N-Go for in-crop broadleaf control.

He said seeding rates can be lowered with Polish varieties because they have smaller seeds.

Polish canola has good resistance to white rust but should not be grown where there is blackleg.

Trawin said Polish canola is primarily used in the Melfort area for three production purposes:

- It can be harvested by the middle of August if seeded early enough, which would allow a winter cereal to be planted.
- It is used as a last minute canola crop in an emergency to get something in when seeding is delayed.
- Organic growers seed it at a low rate to help their peas stand because Polish canola is not genetically modified and matures at approximately the same times as peas.

Trawin said Polish canola is not a common crop, but there are areas around Melfort that always seem to get an early frost, and some producers grow it to avoid the cold temperatures.

"An old saying is 'every day in the spring is five in the fall' — this is probably quite accurate," Trawin said. "If you sow it in May in the north here, you'll pretty much for sure combine it early to mid-August. Whereas with the Argentines, you wouldn't be swathing it around here until mid-August to early September."

Grain companies such as Cargill say they do not offer a premium for Polish canola, even though it is a non-GM crop.

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VARIETY HONOUR

CDC Arborg oat variety named after seed expert's community

BY MICHAEL RAINE
SASKATOON NEWSROOM



RON WEIK
SEED SPECIALIST

Naming grain varieties can be a challenge.

There are regional names, political names, farmers' names and names that describe the look or use of the crop. On rare occasions, plant breeders who have produced a significant body of work or game changing varieties will have their names applied. Even more rare is a variety named after a seed industry participant.

Ron Weik is one such individual. After nearly 50 years in the seed and grain industry, much of it spent ensuring that Canadian farmers get the best quality seed possible,

the Regina seed portfolio manager is having an oat variety named in his honour.

For phonetic reasons, the new oat couldn't be named after him because no farmer wants to be planting weak seed. As a result, the

new milling oat will be called CDC Arborg, the rural Manitoba community where he grew up.

Weik's career started with Saskatchewan Wheat Pool, where he remained until 2003. Since then he has worked for Quality Assured Seeds and FP Genetics in Regina.

"Ron is an individual who has demonstrated a high level of commitment to the seed industry, served on various industry committees and is a strong advocate for the use of certified seed. Ron works effectively with breeding organizations to bring new varieties to the market," said Kofi Agblor, who runs the Crop Development Centre at the University of Saskatchewan where CDC Arborg was created.

Agblor said plant breeders rely on seed industry representatives such as Weik for commercialization.

"The seed industry is the closest stakeholder to plant breeders because it is responsible for seed multiplication, promotion, marketing and distribution.

"The seed industry plays a vital and perhaps irreplaceable role in bringing seed to commercial farmers. Consider that a few hundred kilograms of breeder seed leaves the breeders' hands and in three years, a few thousand tonnes of certified seed is released for commercial production. All done under protocols that maintain genetic purity and seed quality."

Weik has served on the Canadian

Seed Trade Association's intellectual property, western cereals and oilseeds, and external relations committees, has attended the past 25 Prairie Grain Development Commission Variety Recommending Committee meetings and served 14 years on the Quality Committee for Wheat, Rye and Triticale.

He has shepherded popular wheat FP Genetics products AC Harvest and CDC Utmost, oat varieties such as AC Summit and CDC Minstrel and the new rye hybrids that were licensed from KWS.

CDC Arborg is a solid yielder and has good lodging resistance. It is expected to reach farmers and oat processors in 2020.

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BIRDS OF A FEATHER

Pelicans enjoy a day at the shore April 20 on Highway 5 near Mulligan Creek in eastern Saskatchewan. Each spring the Quill Lakes are a rest stop to flocks of waterfowl on their migration north.

| DEAN MACDONALD
PHOTO



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SIA Honourary Life Member Michael Raine

Nominator: SIA Provincial Council

Mike Raine is the managing editor of Western Producer Publications, Canada's largest agricultural information organization, and has been a successful journalist with the company for 25 years. Mike's career in agriculture has focused on agricultural information delivery and empowering others. He has been recognized by SIA and his peers for excellence and leadership in agricultural journalism.

Mike has been a board member of a variety of organizations, including a founding member of a local food from local farmers program, a micro community lending and business development bank, co-ops and advisory committees to post secondary institutions.

Mike has masters designations from AAFA. He farms on a fourth generation, Saskatchewan Century Farm in the Regina Plains between Weyburn, Moose Jaw and Regina, producing grain, oilseeds, pulse crops and livestock.



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Nominator: Barry Rapp, PAg

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GRAIN EXPORTS

Columbia expands west coast transloading facilities

The Alberta grain company expects to complete the expansion by this time next year

BY BRIAN CROSS
SASKATOON NEWSROOM

A west coast transloading and logistics company that specializes in containerized grain and pulse crops is rebuilding its facilities at the Port of Vancouver.

Columbia Containers will spend approximately \$26 million to build a new transloading facility on the south shore of the Burrard Inlet.

Construction started earlier this month and is scheduled for completion in April 2018, said the company's general manager Dean Giles.

Columbia is owned by Providence Grain Solutions, a farmer controlled grain company based at Fort Saskatchewan, Alta.

"It's a complete rebuild of the facility," Giles said.

"Basically, it's going to be a state-of-the-art facility with dual rail track unload and dual container load-out capabilities."

Columbia's west coast services include container storage and



Columbia Containers' transloading facilities at the Port of Vancouver handle 650,000 tonnes of crop annually but the company expects to double capacity with the expansion. | COLUMBIA CONTAINERS PHOTO

management, logistics, freight forwarding and grain transloading.

Bulk commodities — primarily peas and lentils — are shipped to the company's facilities by rail.

Contents of the rail cars are then transloaded into shipping containers which are trucked off site to nearby container handling facilities and transferred onto outbound ocean vessels.

Columbia's existing transloading facilities handle 650,000 tonnes of grain and special crops a year.

However, the facilities were built decades ago and are no longer able to meet growing demand for transload services.

Throughput capacity is expected to increase to one million tonnes a year when the expansion is completed. Eventually, annual volumes could increase to 1.3 million tonnes.

"We anticipate an immediate 50 percent increase in capacity with the ability to double our current capacity in the future," Giles said.

"The facility itself is built as a 1.5 million tonne facility."

Columbia will continue to use its existing facilities during the rebuild, so transload volumes will not be affected during construction.

"During the build, we will be fully operational," Giles said.

"It won't be impeding our current facilities or our current customers."

The expansion will coincide with another Port of Vancouver project that will see a nearby traffic route reconfigured to accommodate additional rail infrastructure on the south shore.

Columbia handles a variety of agricultural products including pulse crops, wheat, flax and rye.

It also handles all of the malting barley that is shipped abroad to overseas maltsters.

"We can handle generally any grain product right now and we don't anticipate our product mix changing or the direction of our business changing," Giles said.

Exports of containerized grain have been increasing steadily during the past few years.

Total exports of containerized cereals and pulse crops topped 3.13 million tonnes last year, up from 1.91 million tonnes in 2011.

"Obviously, volumes have increased across all container loading facilities along with production volumes in the country," Giles said.

"This year, we may see fewer acres going in as far as pulses are concerned, just based on pricing and competitiveness ... but for the most part, volumes have been steadily increasing."

Columbia's expansion will include 11,000 tonnes of on-site storage capacity.

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A three-year study will determine if dugouts could be used to sequester carbon. | FILE PHOTO

CARBON SINK

Sask. dugout study to examine carbon holding capabilities

Researcher seeks Saskatchewan volunteers to help determine if dugouts are a viable way of storing carbon and can be used as an offset tool

BY KAREN BRIERE
REGINA BUREAU

A University of Regina researcher is looking for 100 Saskatchewan dugouts to sample to find out how they could be used for carbon-neutral farming.

Kerri Finlay, assistant professor in the biology department, said previous research suggests that dugouts could bury large amounts of carbon and produce minimal greenhouse gases.

"Absolutely nobody is looking at dugouts specifically," she said. "People are looking at wetlands and so we definitely want to compare them."

"In terms of greenhouse gases, we think that dugouts might be a better shot at actually sequestering carbon and pulling it in."

Finlay said newer dugouts might be better sinks than older ones that have become more like sloughs or wetlands as the sides slide in.

"We know that wetlands actually produce a fair bit of methane, partly because they're shallow along the edges and partly because they have big plants coming out of it," she said.

Finlay plans to use research money from the province's Agricultural Development Fund to sample dugouts this August. Ideally, she wants dugouts from around the agricultural zone because different soils, depths and conditions will affect the results.

She is also interested in the use of bluestone, which could inhibit the bacteria that make methane. She also plans to study dugout shape and other management practices such as dredging and how they affect greenhouse gases.

The goal is to provide a carbon offset tool for farmers.

The work this year will look

mainly at the carbon dioxide, methane and nitrous oxide gases in the water itself. A small amount of mud from the bottom will also be taken to measure carbon.

From the initial 100 dugouts, 20 will be sampled four times in 2018, and then all 100 will again be sampled in 2019.

If we can get carbon getting into the mud, it's a pretty decent store. It will stay there until we dig it out.

KERRI FINLAY
U OF S RESEARCHER

"The fact that they're stagnant means that you don't have a lot of turbulence, a lot of wind that's mixing stuff up and so anything that does start to come in should accumulate in the sediments," she said. "If we can get carbon getting into the mud, it's a pretty decent store. It will stay there until we dig it out."

Finlay added she plans to have a website operating this summer so people can follow the work, but the first results won't be available until at least fall.

Finlay is looking for landowners who want to volunteer their dugouts for the study. She said she would need to be at dugout sites for an hour or two and would prefer dugouts that are easily accessible by road.

To volunteer a dugout or for more information, contact Finlay at kerri.finlay@uregina.ca or 306-585-4236.

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IDLE LAND

Weather may play role in summerfallow acres

BY PHIL FRANZ-WARKENTIN
COMMODITY NEWS SERVICE CANADA

WINNIPEG — The amount of land left to summerfallow in Western Canada could hit a new record low in 2017, according to the latest Statistics Canada data, as the practice fall increasingly out of favour.

However, weather conditions still have the final say with "unintended" summerfallow a distinct possibility this year.

Heading into the 2017 growing season, Canadian farmers say they will leave only 1.765 million acres unseeded as summerfallow land, according to Statistics Canada.

That marks a new record low for the practice and compares to the 1980s when summerfallow consistently topped 20 million acres, according to Statistics Canada data.

Average wheat plantings in Canada have come down by about 10 million acres since the mid-1980s, when wheat area still averaged more than 30 million acres. Meanwhile, canola and pulse crops have all seen considerable growth over that time.

Diversifying out of wheat played a part in the move away from summerfallow, but the bigger adjustment was in the move to zero-till practices and nitrogen fertilizer, according to industry participants.

However, the practice is not yet

going away completely.

It may be becoming a rarity, but some producers have crunched the numbers and found that they still get better returns overall when they intentionally chem-fallow their fields, said Kevin Hursh of Hursh Consulting and Communications in Saskatchewan.

This year you might see a bunch of unintentional summerfallow if the weather keeps messing around and people are unable to seed, especially in those areas where they have combining to finish up.

KEVIN HURSH
CONSULTANT

Hursh said adverse weather conditions this spring may see actual summerfallow end up above the early projections.

"This year you might see a bunch of unintentional summerfallow if the weather keeps messing around and people are unable to seed, especially in those areas where they have combining to finish up," said Hursh.

FARMING
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SAVE THESE DATES

2017 LEARNING ADVENTURES

AGM – March 1

Farming Smarter Lethbridge Site
4pm - 8pm (includes dinner)

Lethbridge Plot Hop – June 8

Farming Smarter Lethbridge Site
9am - 3pm (includes lunch)
Cost: \$95

Field School – June 27-29

Farming Smarter Lethbridge Site
8am - 3:30 pm (includes lunch)
Cost: \$195

Medicine Hat Field Day – July 6

Farming Smarter Cypress County Site
9am - 3pm (includes lunch)
Cost: \$95

Wheat Stalk – July 20

Farming Smarter Lethbridge Site
9am - 4pm (includes lunch)
Cost: \$95

Open Farm Days – August 20

Farming Smarter Lethbridge Site
11am - 4pm (BBQ)

Cypress Conference – Oct 26

Medicine Hat – venue TBD
9am - 4pm (Includes lunch)
Cost: \$195

Farming Smarter

Conference – December 5 & 6

Coast Hotel Lethbridge
8am - 4pm
Includes meals, snacks & refreshments
Cost: \$295 full conference; \$195 one day

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ANIMAL HEALTH

Don't horse around with equine diets

Producers need to find the right balance and quantity of feed to keep horses healthy

BY BARBARA DUCKWORTH
CALGARY BUREAU

RED DEER — Eating more fibre is often recommended for better health.

Horses are no different.

Horses evolved as continuous grazers and would eat 16 to 20 hours a day if they could, said Deborah Barrie, who owns Feed-store to Your Door Inc.

"The reality is we do a lot to our horses and we compromise their digestive processes, resulting in some severe metabolic problems," she said at the Mane Event, a recent equine expo held in Red Deer.

Horses spend more time in stalls, they do not eat when they are hauled long distances to events and are often overfed in one meal.

Many of these horses do not receive enough hay.

"We have cases where hay is 50 percent of the diet," Barrie said.

"I like to see it 85 or 90 percent."

The hay ration should be about two percent of the horse's body-weight, said equine veterinarian Ela Misuno.

A growing horse could go up to three percent, while a fat one should be cut back to 1.5 percent.

A horse needs to consume 22 to 24 megacalories per day and can consume about 2.5 kilograms of grain or complete pelleted feed. More than that could lead to gastric problems.

"If your horse needs extra calories, you could up the quality of the hay, but whenever you add more concentrate, sweet feed or oats, that can really interfere with the horse's gut," Misuno said.

A horse should also drink about 25 litres of water per day.

"At any time if you are not sure your horse is getting fed enough or there is something going on, I always recommend monitoring how much your horse is drinking," she said.

They will go off water if they are not feeling well, and they can get dehydrated quickly.

She also recommended introducing new feeds gradually.

Mix new hay with old product to avoid disturbing the microbiology of the gut.

Offer hay before turning horses out to fresh pasture in the spring. They are less likely to gorge on fresh grass if they have had something to eat.

Also, consider turning them out in later afternoon or early evening

HORSES CAN PRODUCE UP TO 100 litres OF SALIVA PER DAY

because fewer sugars are available in the grass at that time.

A horse's gastrointestinal tract has evolved to work around the clock, said Barrie.

Digestion starts when they pick up forage. They grind it up in their mouths and produce saliva immediately. With constant eating they can produce 60 to 100 litres of saliva per day, and the jaw moves 40,000 to 50,000 times.

Constant chewing creates saliva to buffer the stomach lining.

Food stays in the stomach 30 minutes to three hours, depending on what is in there.

A horse's stomach is about the size of a football, or about eight percent of the total digestive tract. That small organ cannot handle too much feed at once, so it pushes it through to allow for digestion of

fibre in the cecum and colon.

The cecum, or hindgut, is like a fermentation vat full of bacteria capable of digesting fibre to produce volatile fatty acids, a major source of energy to the horse.

The hindgut holds six to eight gallons of material. Acidosis could occur when the pH drops below 6.5, and good bacteria can die off.

The large colon is 10 to 12 feet long and holds 15 to 20 gallons, while the small colon is nine to 10 feet long and holds about four gallons.

Horses need high levels of digestive enzymes in the foregut. They will replenish enzymes and bacteria if they are grazing grass; otherwise, they may need probiotics to help digestion.

"The good feed we offer is of little value if they don't have enough bacteria and enzymes," Barrie said.

A healthy horse should have good body condition, good foot quality, good hair coat and a good disposition.

An out-of-balance diet may result in ulcers.

Gastric ulcers are painful, and a horse suffering from them may have poor body condition. The eyes and coat are dull, and the horse may grind its teeth. It eats

and drinks poorly, and the manure is smelly. It may have an unpleasant disposition, especially when being saddled or ridden because its stomach hurts.

The horse may be given a buffer such as omeprazole to decrease acid production, but other dietary changes are needed.

"If you haven't changed anything else, you are putting a Band-Aid on it," Barrie said.

She recommended giving them more hay 24 hours a day and checking to see if they are eating it. Feed probiotics to help with hindgut fermentation. Offer low starch and high fat diets, and feed them less grain.

"Feed little and often," she said.

A horse that is chewing wood may need hay. However, it is hard for them to stop chewing once they start, she added.

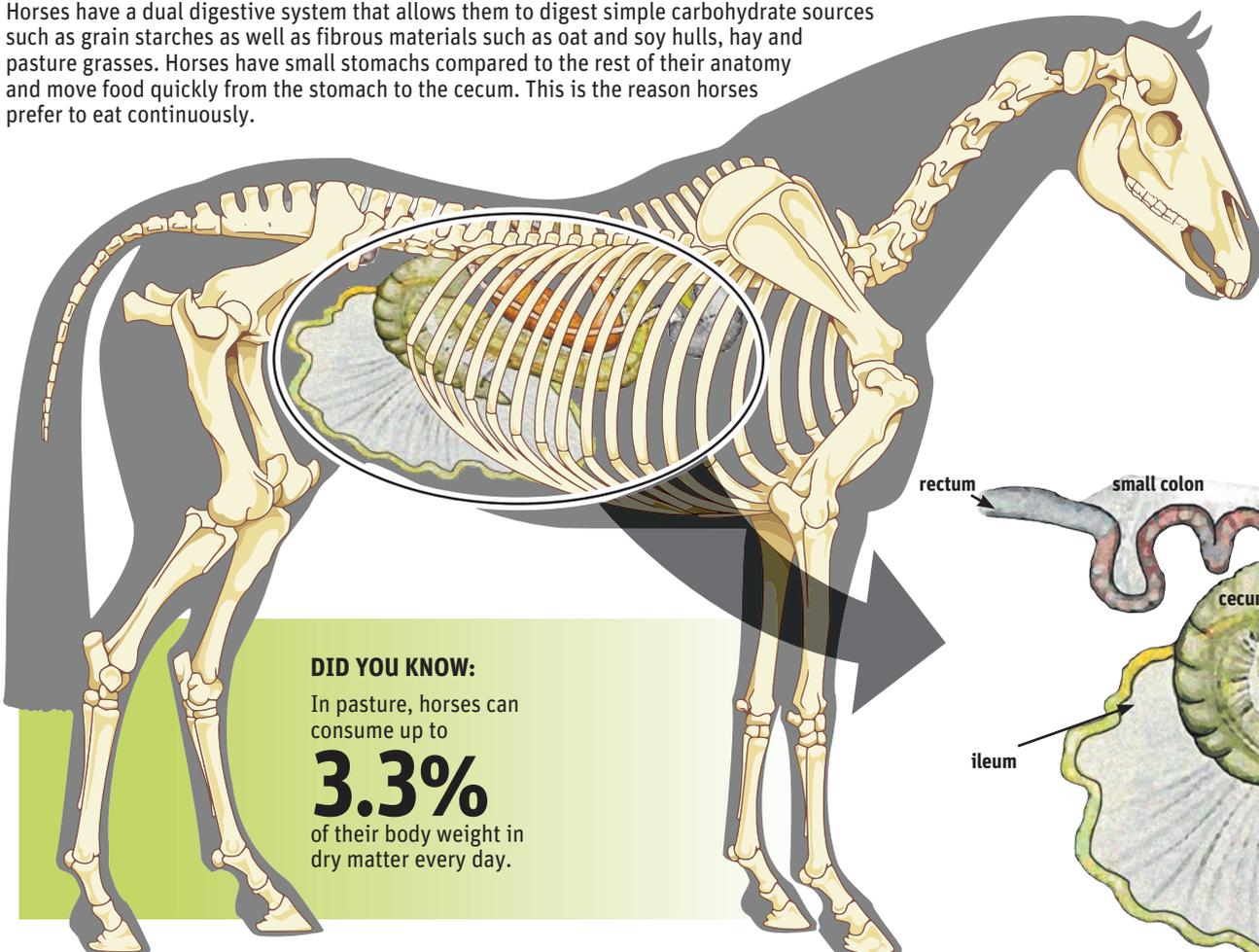
More than 90 percent of all race-track horses have gastric ulcers, and more than half of show horses are affected.

Ulcers show up in more than 60 percent of ponies and endurance and pleasure horses. Foals are starting to show signs of ulcers 25 to 57 percent of the time.

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EQUINE DIGESTIVE SYSTEM

Horses have a dual digestive system that allows them to digest simple carbohydrate sources such as grain starches as well as fibrous materials such as oat and soy hulls, hay and pasture grasses. Horses have small stomachs compared to the rest of their anatomy and move food quickly from the stomach to the cecum. This is the reason horses prefer to eat continuously.



Anatomy	length (metres)	capacity (litres)	percent of total gastrointestinal system
Foregut: enzymatic digestion			
stomach	—	8-15	8%
duodenum, jejunum, ileum	21	68	30%
Hindgut: microbial digestion			
cecum	1.2	28-36	15%
large colon: right ventral, left ventral & dorsal colons	3-3.6	86	38%
small colon	3-3.6	16	9%

DID YOU KNOW:

In pasture, horses can consume up to **3.3%** of their body weight in dry matter every day.

Source: Atlas of Topographical Anatomy of the Domestic Animals, Popesko, P. & W.B. Saunders | WP GRAPHIC

CATTLE WATERING

Remote watering systems grow in popularity

Producers see environmental and economic benefits

BY WILLIAM DEKAY
SASKATOON NEWSROOM

Off-grid solar operated water systems are coming down the pipe for a growing number of cattle producers.

It's a win-win on several fronts, say experts.

"It's another tool farmers and ranchers can use to help them look after the environment while improving their bottom line," said Ken Lewis, conservation co-ordinator for Red Deer County in Alberta.

The need for more flexibility, better quality water and the effort to repair or conserve riparian areas are major reasons for installing off-site systems.

"There's a lot of education and awareness about it. And there's funding programs now that help farmers and ranchers buy them," said Lewis, whose job is to help educate and raise awareness of the off-site water systems available to farmers and ranchers.

The Alternative Land Use Services (ALUS) program was implemented to assist Alberta producers' pay for these systems through cost sharing while further adapting better environmental practices.

"When we do this we know the environment improves so we as a society get better environmental services from things like the wetlands," he said.

Besides being recognized as environmentally beneficial, off-site watering systems also provide ranchers with economic benefits.

Lewis cites several reasons for keeping cattle away from the main source of water.

- **Safety:** "If you lose one cow in a wetland, and if that cow has 10 calves over her lifetime, you've paid for that watering system," said Lewis.
- **Health:** "Any time a cow or calf can drink cleaner water they're going to do better from a health perspective and put more weight on or make more milk."
- **Conservation:** Riparian areas are saved from pollution.
- **Flexibility:** "If you have multiple wetlands that you can pump



Off-site, solar powered watering systems allow cattle producers to provide better quality water while conserving riparian areas. | FILE PHOTO

from with your portable solar watering system, you can move it strategically around your pasture or land base to draw your animals to more evenly use your pastures. That's going to give some more added benefits because now the nutrients that are coming out the back end of your cows (are) getting spread more evenly across your land where the plants can use it. And it's not polluting the water source."

Lewis said one of the big changes over the last 10 to 15 years has been the increased practice of extensive grazing.

When we do this we know the environment improves so we as a society get better environmental services from things like the wetlands.

KEN LEWIS
CONSERVATIONIST

"Rather than feeding and watering cattle in the yard they'll winter out on the fields and pastures.

"Off-grid watering systems provide options now for people, and building in flexibility is a good thing in agriculture."

With the increased need for year-round watering, Jason Wright,

owner of CAP Solar Pumps in Olds, Alta., has seen his business grow.

"We used to be very busy from spring to late summer selling stuff, but now it's way busier from September to well after Christmas. That's because guys are developing these winter watering sites in these locations where they need to have water and that's the big challenge," he said.

"We're using the same pumps, but what we're offering them is the summer option typically from April through to October but we can also quote that producer a system that is year round, meaning that it is sized a little differently but we basically deliver water for a set number of animals through that winter period October through to March.

"For example, guys are corn grazing and the biggest challenge is where do they get water during those winter months.

"And then there's guys who want to extend their grazing so you don't have snow but they want to extend their grazing in a field where they just have a dugout. Well, they're not going to chop ice on them because they know the risk of cattle going through. So then they're developing these wet wells and we're putting systems on these wet wells."

Wright said cattle producers increasingly want more than one

system to use in their operation.

"We're getting more individuals who want both the winter and summer options. What they do is they actually take the same power equipment (solar panels, battery box and solar pump). Pumps are really adaptable to both seasons. You use the same power base to run that pump to the summer pasture and then you take that same pump again and power pack and move it over to that winter tank," he said.

Factors to consider

Before designing a system, some basic questions need to be addressed: size of herd, location of water source, vertical lift from the source to the trough and what time of year the water will be needed.

Wright said solar panel quality is improving and the prices are gradually coming down.

"Solar panels are improving but for the most part they've pretty much got them down to where the cost per watt is so low that even though they're up to at most 15 to 20 percent efficient (in terms of power conversion) they're still the best buy on the market," he said.

"New panels are more efficient because they're using focusing technology and there's some better materials that they're using for solar cells. But the cost is like lithium ion batteries. It's at a point

where it's a premium. If you have the cash you can buy it"

Pump technology has also improved to become more reliable. Many models require minimal maintenance.

New satellite-based systems are also available to detect and measure whether the offsite system is working properly and cattle are getting watered.

"We've had guys that have said, 'it has absolutely changed my life,' because they're not in their truck six hours a week running around checking their troughs," said Wright.

Other systems use cameras that can be monitored by cellphone.

"A picture is worth a thousand words," said Marvin Jackson, owner of Sundog Solar in Sundre, Alta.

"We found a picture is cheaper than an alarm system and it tells you more stuff."

Keep it simple is Jackson's advice for any off-site watering system.

"I tell people it has to work for you. Don't make it difficult. There's overkill also on a system," he said.

"If people can easily use it and move it around, that means the system is going to be used much more and that's better. If you make it difficult or hard to use, then over a certain amount of time it will probably be put by the wayside."

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BEEF RESEARCH

Focus on feed-efficient cattle will increase profit, reduce methane

BY BARB GLEN
LETHBRIDGE BUREAU

If 30 percent of Alberta cattle producers achieved a five percent improvement in their animals' feed efficiency, it would save about \$100 million per year.

Those are figures from Erasmus Okine, beef research scientist and vice-president of research at the University of Lethbridge.

Those numbers are achievable, Okine told an April 20 meeting of the Southern Alberta Council on Public Affairs. And if they are, it could dramatically reduce the industry's carbon footprint.

"If you take greenhouse gases, all the livestock in Alberta produce about .1 percent of the greenhouse gases, as a percentage of what happens across Canada, so it is very small," he said.

However, they mostly expel methane, a gas more powerful than carbon dioxide in terms of greenhouse effect. A cow can expel 250 to 500 litres of methane per day, primarily through belching.

"It represents a loss of energy for this particular animal," said Okine.

The answer, or at least part of it, to reducing emissions from cattle is to genetically select for low residual feed intake, which is the difference

between what the animal is expected to eat to produce one pound of beef versus what it actually eats to produce that same pound.

Research has shown that some animals simply require less feed to produce the same amount of beef as others.

Given that feed costs make up 25 to 40 percent of the total cost of beef production, an animal that converts feed efficiently is cheaper and thus highly desirable.

The Canadian Cattle Genome Project aims to pinpoint characteristics responsible for efficient feed conversion

Identifying them is key and the impetus behind the Canadian Cattle Genome Project, which aims to sequence the genotype of 100,000 cattle in Canada.

Once their genetic characteristics are known, cattle that are efficient feed converters can be bred as a matter of course, Okine said.

Genetic tests already exist that identify residual feed intake characteristics, and some producers are using them.

Okine also said the livestock industry has made strides in recent decades to become more efficient and environmentally sustainable. For example, in 2007 total beef production required 70 percent of the animals, 81 percent of the feed, 88 percent of the water and 67 percent of land that it did in 1977.

"We can definitely boast that we are able to produce the same amount of beef using less resources."

Similarly, it took 2.6 lb. of barley to produce one lb. of pork in 2007, compared to 3.8 lb. of barley to produce one lb. of pork in 1972.

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UNIVERSITY OF SASKATCHEWAN

Livestock and Forage Centre of Excellence (LFCE)

A unique research, teaching and outreach centre that unites the U of S with livestock and forage producers, the agriculture industry, and provincial and federal governments.



Dr. Nathan Erickson uses ultrasonography to conduct a pregnancy check on a beef cow at Termuende Farm near Lanigan, Sask. Photo: Christina Weese.

Nathan Erickson wants to breathe new life into cattle disease prevention — literally.

Erickson is an assistant professor at the Western College of Veterinary Medicine (WCVI). His work specializes in exploring new routes toward preventing widespread disease in the cow-calf and feedlot industries.

Bovine respiratory disease (BRD) — the most common and costly disease affecting beef cattle across the world — is just one such ailment that he's working to curtail. The illness develops early on in a calf's life. It has few clinical signs, but it can eventually cause coughing fits, lack of appetite and even death.

Erickson's research is focused on providing veterinarians with information that will help them develop the most effective vaccination strategies for their clients. "I also hope that by finding the most effective vaccine strategies, we as an industry will be able to more effectively prevent and control diseases such as bovine respiratory disease," he adds.

This goal is where the University of Saskatchewan's new Livestock and Forage Centre of Excellence (LFCE) becomes vital. This unique complex of field and science laboratories will bring together all aspects of beef cattle research — from students and those conducting studies right through to producers and industry partners.

For Erickson, a centre like this will provide him with the resources he needs to keep more calves from falling ill with BRD — and ultimately decreasing the number of losses faced by producers.

"There are many forms of vaccines commercially available, but there has been little to no clinical work done to show the effectiveness of these vaccines in the field. The LFCE will potentially provide a large enough herd of cattle to conduct these trials on, as they require large numbers of animals," he says.

It's the LFCE's focus on collaboration that Erickson is anticipating with greatest enthusiasm. In a world of research that can often be quite isolated, the LFCE will create opportunities between colleagues, departments and organizations. And these connections will lead to more thorough planning, greater success in studies and better work overall.

"Good calf health is more than just disease prevention; the health of calves relies on a combination of nutrition, environment and disease prevention strategies. Focusing solely on one factor will not result in a healthy herd, just as researching one factor will not result in good research," Erickson says.

"Good research relies on collaboration and sharing knowledge between both veterinarians and animal scientists. We should be able to accomplish this at the LFCE."

As the LFCE moves steadily closer to becoming a reality, Erickson says he believes it could carve out a foothold for the university in beef research on an international scale.

"If all the different stakeholders can collaborate, there is great potential for this facility to become a premier beef research facility in North America."

For more information, visit usask.ca/lfce.

DAIRY CLASSIC WINNERS



The top three Holsteins shown at the Calgary Stampede Dairy Classic came from the show string of Wendon Holstein of Innisfail, Alta. Owned by Don and Wendy Chalack, the three females won grand, reserve and honourable mention at the show held April 21-22. The grand champion is on the left and was named Wendon Goldwyn Diode. The cow was also named best bred and owned and was born in 2010. |

BARBARA DUCKWORTH PHOTO

HERD MANAGEMENT

Dairy ultrasound purchase hinges on pregnancy rate

BY JOHN GREIG
FREELANCE WRITER

Anyone can learn to use ultrasound on their dairy farm, but producers need to know their reproduction numbers to financially justify the purchase.

Dr. Tom Wheal of FarmTech Solutions, a provider of ultrasound technology for farms, told farmers at the Canadian Dairy Xpo that the first step to determining the value of ultrasound on their farm is to know their pregnancy rate.

Wheal says that increasing the frequency of pregnancy checks can significantly help improve the number of pregnancies on a farm. Reproductive efficiency will then determine payback on an ultrasound machine.

Portable and easy to operate ultrasound machines are commonly used on many livestock farms, including hog, beef and dairy.

However, most dairy farmers have their cows checked for pregnancy by ultrasound by veterinarians every two weeks or a month.

Wheal says veterinarians are increasingly willing to pass manual tasks that can be learned by most people, like ultrasound, onto others, so they can concentrate their time on areas where they can have greater value.

However, he says, they should first talk to their veterinarian before buying an ultrasound machine to discuss how it will fit into the farm operation.

"Before you can talk about the economics of ultrasound use, you have to know what your pregnancy rate



TOM WHEAL
FARMTECH SOLUTIONS

and have to understand what it is," Wheal says.

Pregnancy rate is defined as the percentage of cows on a farm that are eligible to become pregnant that do become pregnant within a given time.

Wheal says to calculate pregnancy rate, take a farm's conception rate multiplied by heat detection rate.

"It's the current number we have to judge how efficient you are."

The industry average is 14 percent, a number at which a farm is likely having a difficult time producing enough heifers to replace its cows.

Better is closer to 22 to 25 percent, he says.

Wheal says changing from twice monthly to weekly pregnancy checks can improve pregnancy rate by about five percentage points.

On a 100-cow farm, with a 15 percent pregnancy rate, moving it to 20 percent can mean saving about \$25,000 per year.

Ultrasound testing has its greatest impact in helping increase the frequency of pregnancy checking.

If a farmer owns an ultrasound machine, he can check pregnancies with less cost than paying for another visit from a veterinarian.

Wheal says he has seen too many ultrasound machines gather dust on farms, and there are three main barriers to their use.

The first is a lack of commitment. Don't get discouraged, says Wheal, and make sure there is enough training.

"It's very daunting the first time you see an ultrasound image," he says, but he has seen people with many levels of ability trained.

Stick to a schedule, he says. Producers should pick one day a week to do the testing and remain committed to doing it.

A third barrier is labour. Wheal says many farms have no extra labour to hire or labour flexibility with current staff.

Fear of using the technology shouldn't be a barrier, says Wheal, especially if a farm already has employees who breed their cows.

Those staff members are already familiar with a cow's reproductive physiology and can transfer that knowledge to using an ultrasound machine.

The more important factor is whether or not an ultrasound machine can help improve the pregnancy rate.

If the pregnancy rate is already near 25 percent, then an ultrasound machine will have little effect on that rate. But if the pregnancy rate is 14 or 15 percent, then Wheal says it's a technology worth considering.

THE WESTERN
PRODUCER



VACCINE PROTECTION

The facts and fallacies of clostridial disease

ANIMAL HEALTH



ROY LEWIS, DVM

In spite of good protection contained in vaccines for most clostridial diseases such as blackleg, tetanus and redwater, incidences are on the rise.

Whether we raise cattle, sheep, goats or other livestock such as bison or elk, all are susceptible to various disease forms of the clostridial organism.

As a quick review, clostridial organisms are spore-producing bacteria that live in the soil and can last for decades.

The spores are often ingested, and bruising, handling, liver damage and myriad other problems can trigger a clinical case.

Survival even with vigorous treatment is rare because when these bacteria multiply they release toxins. Onset is rapid and almost always fatal.

Vaccination with the multivalent clostridial vaccines (up to a nine-way) approved for dairy and beef cattle can protect animals if it is administered according to label directions.

Since there are many forms of the disease, the wider the protection the better in my opinion because you don't know which clostridial organism you may get.

The vaccines include products such as Covexin plus, Tasvax, Ultra-choice and Vision, but they are not all the same.

Specific clostridial diseases such as redwater (prominent in the eastern slopes of the Rockies) or tetanus are not included on all vaccines so read the label if these are necessary on your farm.

The clostridial vaccines are bacterial toxoids, meaning they are the killed bacteria, and the toxins normally produced are altered to produce the toxoid that is then used to make the vaccine.

Clostridial vaccines are close to 100 percent protective if given according to label directions and in advance of the disease.

The vaccines will appear to settle out in the fridge and that is normal, so make sure and shake it gently to bring it into full solution and check expiry dates.

Most, if not all, are approved for subcutaneous use.

Many producers and veterinarians have been slack at recommending a booster dose one to two months after the original shot. This may not be possible if the animals are going out to summer pasture but it is imperative they receive their boosters as soon as they return.

Across Canada, we have seen several outbreaks in late summer to early fall when immunity from the first dose has become low.

Some pastures in the West and Ontario have high contamination of clostridial spores, which can sit dormant for decades. Soil disruptions caused by ditching, mole infestations, disc bines or animal wallows increase the risk of exposure.

Extremely dry years in which cattle graze grass closer to the ground

or years after a drought may float the spores closer to the surface.

The standard vaccination protocol then should include the broad-spectrum clostridials (seven to nine way depending on your area). You should give two shots to calves and then your replacement heifers.

With immunity established, the cows are vaccinated every one to two to five years.

If redwater (clostridium hemolyticum) is present in the area, the producer may give the vaccine as often as twice yearly because immunity is shortest with this organism in the vaccines.

In pastures with high rates of clostridial incidences, it is often necessary to vaccinate and hold the cattle back to administer the second

vaccine before going to pasture.

We see more incidences of clostridial disease (clostridium perfringens) in young calves as a form of scours, which is why the scour vaccines contain some clostridial organisms.

Clostridial vaccines are somewhat reactive because of the formalin-like carrier. It is not uncommon to see the odd quarter-sized to small-egg-sized lump in the animal after it is administered. This means the animal overreacted to the vaccine but these lumps are simply blemishes. Sheep and goats may react even more.

A low incidence of allergic reactions is possible every time you vaccinate, so check cattle several minutes after vaccinating and always have ephinephrine on hand.

The bottom line is to keep clostridial vaccinations up to date, which means administering them at least twice as calves and then as replacement heifers.

Vaccinate cows as frequently as necessary as determined by you and a veterinarian.

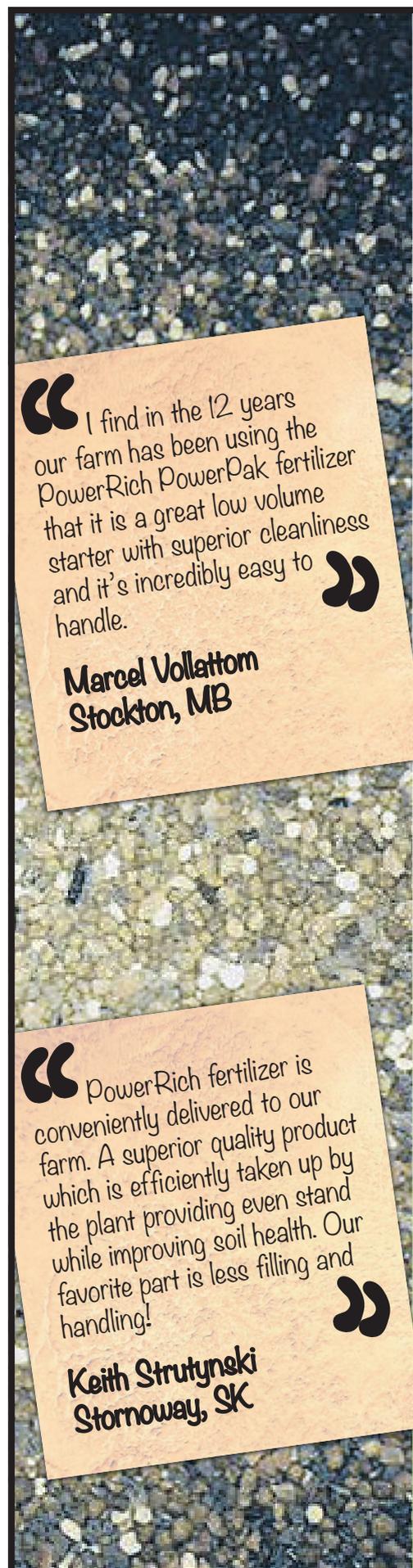
Don't forget bulls, which I would vaccinate at semen-testing time. Your most valuable asset (your bulls) are often neglected when it comes to vaccinations.

Every time you process your cattle you should think about clostridial vaccinations. When outbreaks occur, many animals can be affected and it can be devastating.

Roy Lewis works as a technical services veterinarian part time with Merck Animal Health in Alberta.



Clostridial vaccines are almost 100 percent effective, but a booster shot is essential. | FILE PHOTO



“ I find in the 12 years our farm has been using the PowerRich PowerPak fertilizer that it is a great low volume starter with superior cleanliness and it's incredibly easy to handle. ”

Marcel Vollatom
Stockton, MB

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Keith Strutyński
Stornoway, SK



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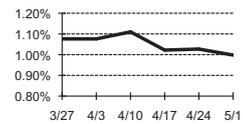
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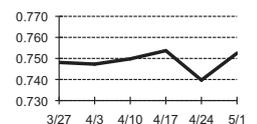
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Northern Lights Railway, with its locomotive pictured here, made a profit this year but sees a challenging future ahead with the elimination of the railway sustainability program and the closure of the Port of Churchill last year. | PHOTO COURTESY OF NORTHERN LIGHTS RAILWAY

SASKATCHEWAN SHORT-LINE

Northern Lights Railway on track

The future may be challenging in wake of the recent elimination of the railway sustainability program

 BY BRIAN CROSS
SASKATOON NEWSROOM

Saskatchewan's newest short-line railway company had a successful year in 2016, but there were a few potholes along the way.

Northern Lights Railway, based at Kinistino, Sask., moved nearly 600 cars of grain in the past 12 months, mostly oats and peas, said NLR president Wayne Bacon.

However, moving wheat has been a challenge, he added.

As well, a recent decision by the Saskatchewan government to eliminate the short-line railway sustainability program couldn't have come at a worse time.

"Northern Lights Railway has been doing fairly well," Bacon said. "From April to April, we've moved just under 600 cars, mostly oats going to Quaker Oats, but we moved some peas to the West Coast as well.

"We also moved some wheat for G3, going down to Mission Terminal (at Thunder Bay), but that's one of the areas where we've struggled is finding someone we can work with on wheat."

Northern Lights acquired 59 kilometres of track from Canadian National Railway in 2015.

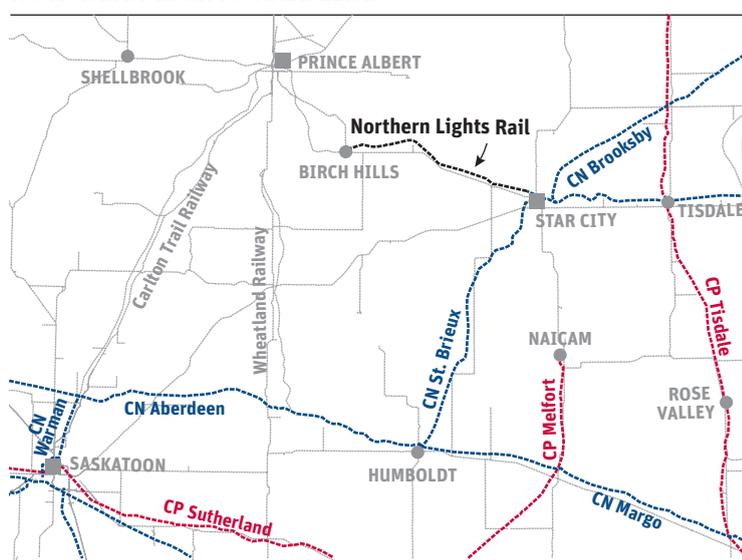
The deal was financed partly by a \$550,000 interest free loan from the Saskatchewan government.

The NLR employs three people and uses one locomotive to serve grain growers from Birch Hills, Kinistino, Beatty and surrounding areas.

Its grain cars are transferred onto CN's system at Melfort, Sask.

The company leases a fleet of 50 hopper cars and has an arrangement with CN that ensures 25 empty car spots every two weeks.

NORTHERN LIGHTS RAIL LINE



Source: Sask. Ministry of Highways & Infrastructure | WP GRAPHIC

Bacon said CN has been a reliable partner, providing good service and valuable advice.

"They've been excellent to deal with," he said.

Volume increase needed

NLR organizers initially reckoned they would need to move 400 grain cars a year to break even.

However, the elimination of the provincial short-line maintenance grant program has forced the company to revisit its projections.

Without the grant, NLR will need to move 500 cars to meet its financial and maintenance targets, Bacon said.

Convincing farmers to ship wheat in producer cars has been a challenge, he added.

Large grain companies have been competing aggressively for locally

produced grain.

"The biggest challenge with wheat is that all of the port terminals are owned by the big grain companies so they want to push everything through their own country elevator system. They don't really want to deal with producer cars," Bacon said.

"The smaller companies would like to do business except they have to work with one of the (competing terminal owners)..... That means they get charged a little bit more, so it puts them at a bit of a disadvantage."

Concrete elevators in Melfort, Warman, Saskatoon, Aberdeen and other nearby communities have been successful in attracting wheat that is grown in NLR's backyard.

Grain that is trucked long distances on the provincial highway

system could be shipped more efficiently — over a shorter distance — on the locally owned short line.

Elevator companies have more flexibility when they buy grain because they handle larger volumes. They can offer an average grade for everything that's delivered when buying large volumes of wheat from a grower, as opposed to establishing a grade on every load. The grain is then blended to meet required specifications.

By comparison, producer cars are sampled and graded individually, Bacon said.

Car-by-car grading can add another layer of complexity to the marketing process, which some growers are reluctant to deal with.

The unexpected closure of the grain export terminal at the Port of Churchill has also affected NLR's operations.

Northern Lights had a deal in place to move grain for a farmer-owned grain company in Alberta.

Grain sourced in north-central Saskatchewan was supposed to be loaded and transported by NLR and shipped through Churchill.

That deal ran into trouble when OmniTrax Canada unexpectedly closed the port last year and suspended grain shipments through the northern terminal.

About 30,000 tonnes of grain are still sitting at the terminal, according to Canada's Grain Monitoring Program.

Bacon, who is also a member of the Hudson Bay Route Association, said the Port of Churchill would have been an ideal export route for grain produced in the NLR draw area.

brian.cross@producer.com

AG STOCKS APRIL 24-28

U.S. President Donald Trump sketched out a proposal for major business and personal tax cuts, but provided little detail on the impact for the country's mounting deficit. For the week, the TSX Composite slipped 0.2 percent, the Dow rose 1.9 percent, the S&P gained 1.5 percent and the Nasdaq rose 2.3 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	45.75	44.81
AGT Food	TSX	31.53	29.60
Bunge Ltd.	NY	79.03	77.46

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	1.29	1.38
Cervus Equip.	TSX	12.31	12.41
Input Capital	TSXV	2.20	1.97
Rocky Mtn D'ship	TSX	9.70	9.86

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	38.78	40.66
Hormel Foods	NY	35.08	34.69
Lamb Weston	NY	41.75	42.26
Maple Leaf	TSX	34.17	32.18
Premium Brands	TSX	85.44	86.66
Tyson Foods	NY	64.26	65.14

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	55.43	49.93
AGCO Corp.	NY	63.99	59.49
Buhler Ind.	TSX	4.61	4.63
Caterpillar Inc.	NY	102.26	94.32
CNH Industrial	NY	11.10	10.00
Deere and Co.	NY	111.61	107.54

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	128.12	122.2
BASF	OTC	97.29	95.25
Bayer Ag	OTC	124.43	113.10
Dow Chemical	NY	62.80	62.16
Dupont	NY	79.75	78.65
BioSyent Inc.	TSXV	7.78	7.79
Monsanto	NY	116.61	115.5
Mosaic	NY	26.93	26.67
PotashCorp	TSX	23.02	21.83
Syngenta	ADR	93.03	90.57

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	98.67	100.95
CPR	TSX	209.16	206.88

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 an 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.

Brazil gets help building railway

SAO PAULO, Brazil (Reuters) — Cargill Inc. is part of a group of grain trading companies analyzing whether to build an 1,100 kilometre railway in Brazil.

The Ferrogrão railway could require investments of up to US\$4.8 billion.

It would link crop production regions in the centre west to the port of Miritituba in Para state, reducing the need to travel poor roads that are often impassable in rainy weather.

TAX RATE

Small business deduction changes may affect your farm

TAKING CARE OF BUSINESS



COLIN MILLER

Farmers may be left wondering as they prepare for the coming production year why they have less cash in the bank.

One factor could be the result of new tax rules that came into effect March 21, 2016.

A number of farm corporations and partnerships have lost access to the small business deduction, resulting in higher income taxes being paid.

The small business deduction reduces the general tax rate to 10.5 percent from 15 percent on the first \$500,000 of active business income for businesses that can take advantage of it.

Furthermore, in Alberta and Saskatchewan it reduces the provincial income tax rate to two percent from 12 percent in 2017.

In Manitoba it lowers it to zero percent from 12 percent on the first \$500,000 of income. That is tax savings of 14.5 to 16.5 percent, or about \$75,000 on \$500,000 of income per year.

The \$500,000 limit is shared with associated corporations and phased out when the total asset value of associated corporations reaches \$10 to \$15 million.

This means all income earned by a single farm or an associated group of farms with a total asset

value of more than \$15 million cannot access the small business deduction.

Many farm operations have been structured in a way that allowed multiple corporations under the same group to obtain their own small business deduction, but these structures may be limited with the introduction of the new tax rules.

Corporation asset threshold

To illustrate the effect of the changes, take the situation of two brothers who farm together.

They have created a corporation called Farm Co. for the day-to-day farming operations. Each brother owns 50 percent of Farm Co., but

each brother also has his own corporation: BrotherCorp One and BrotherCorp Two.

The three corporations have combined assets exceeding the \$15 million threshold.

Farm Co. distributes all of its income and expenses equally to BrotherCorp One and BrotherCorp Two. Farm Co. elects out of the small business deduction, resulting in each BrotherCorp obtaining its own \$500,000 business limit, or a total of \$1 million.

The new tax rule changes state that all corporations are deemed to be associated, whether an election is filed or not, for the purposes of calculating the total assets threshold.

All three corporations will now

have to share the total assets limit.

Given that the three corporations' total assets exceed the threshold, none of them would have access to the small business deduction, resulting in all income being taxed at the higher rate.

Another common type of structure affected by these rules would be where two siblings are involved in a farming operation. A partnership structure has been created where each sibling is an equal partner.

Each sibling also owns his or her own corporation. The two corporations enter into an agreement to provide services to the partnership.

Under the old rules, these two corporations may not have been considered associated and would each have access to the full

\$500,000 small business deduction.

The new legislation has disallowed this type of transaction to occur between the partnership and corporations, thus denying them access to the small business deduction.

Farm owners who operate in these types of structure, should review them to determine whether there are opportunities to mitigate the adverse tax consequences associated with the legislation changes.

Riley Honess and Brenton Marchuk of KPMG contributed to this article. Colin Miller is a chartered accountant and partner with KPMG's tax practice in Lethbridge. Contact: colinmiller@kpmg.ca.

FINANCIAL RESULTS

Maple Leaf sees higher profits

(Reuters) — Maple Leaf Foods Inc. reported a better-than-expected quarterly profit, driven by increased retail sales in Canada and higher exports.

The company, whose brands include Schneiders and namesake Maple Leaf, said adjusted operating earnings rose 10 percent to \$59 million in the first quarter, which ended March 31.

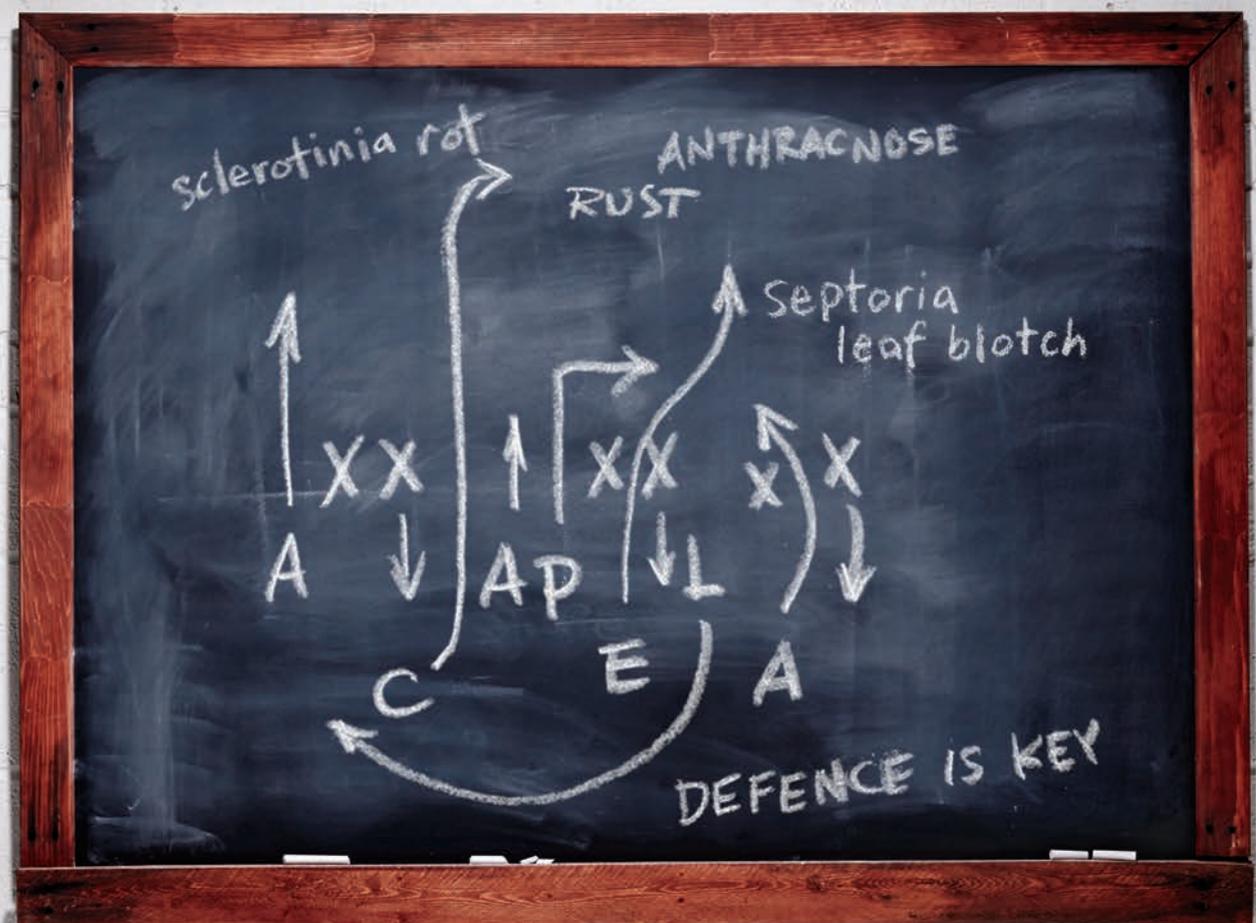
Maple Leaf, which is Canada's biggest pork processor, is on a hunt for acquisitions in the United States after years spent upgrading old factories and shedding business lines.

In February, the company bought U.S.-based Lightlife Foods Inc, a manufacturer of plant-based protein foods, for \$140 million, Maple Leaf's first material deal since 2004.

The company said its net earnings fell 28.8 percent to \$30.1 million, or 22 cents per share, from a year earlier, hurt by restructuring charges.

On an adjusted basis, Maple Leaf earned 33 cents per share, beating analysts' average estimate by three cents.

The company's sales rose 1.8 percent to \$811.2 million.



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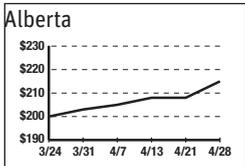
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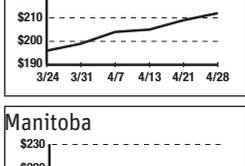
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CATTLE & SHEEP

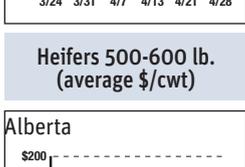
Steers 600-700 lb. (average \$/cwt)



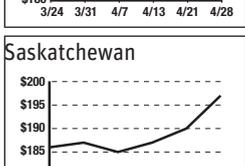
Saskatchewan



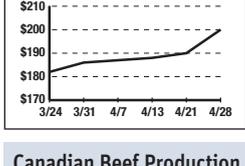
Manitoba



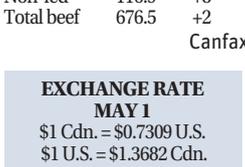
Heifers 500-600 lb. (average \$/cwt)



Saskatchewan



Manitoba



Canadian Beef Production

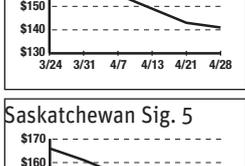
million lb.	YTD	% change
Fed	559.5	+1
Non-fed	116.9	+8
Total beef	676.5	+2

Canfax

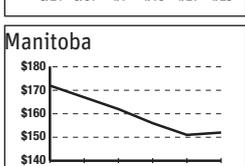
EXCHANGE RATE

MAY 1	
\$1 Cdn. =	\$0.7309 U.S.
\$1 U.S. =	\$1.3682 Cdn.

Index 100 Hog Price Trends (\$/c/kg)



Saskatchewan Sig. 5



Manitoba



ELEVATOR SHIPMENTS

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous		Year ago	Rail		Previous	
	Apr 21 - Apr 27	Apr 14 - Apr 20	Apr 21 - Apr 27	Apr 14 - Apr 20		Apr 21 - Apr 27	Apr 14 - Apr 20	Apr 21 - Apr 27	Apr 14 - Apr 20
Steers									
Alta.	174.00	n/a	165.53	294.00-296.50	286.50-296.50				
Ont.	153.85-168.51	153.01-164.49	148.38	271.00-277.00	168.00-271.00				
Heifers									
Alta.	n/a	n/a	n/a	n/a	286.50-293.50				
Ont.	142.91-166.91	142.93-163.12	149.30	270.00-276.00	267.00-270.00				

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.	Man.	Alta.	B.C.
Steers				
900-1000	160-174	160-172	166-176	no sales
800-900	174-186	170-198	173-189	175-191
700-800	188-206	185-207	189-210	188-200
600-700	205-225	200-226	203-224	205-223
500-600	218-240	210-238	215-239	222-250
400-500	221-245	220-257	221-243	214-248
Heifers				
800-900	158-170	160-174	160-173	154-179
700-800	169-185	167-184	171-188	175-186
600-700	179-198	179-198	179-197	171-202
500-600	189-209	190-216	185-208	193-216
400-500	195-217	200-222	203-220	189-227
300-400	190-210	200-235	202-223	no sales

Canfax

Average Carcass Weight

	Apr 22/17	Apr 23/16	YTD 17	YTD 16
Canfax				
Steers	880	905	911	940
Heifers	830	831	830	858
Cows	751	732	739	783
Bulls	1,071	1,096	1,056	1,034

U.S. Cash cattle (\$/cwt)

Slaughter cattle (35-65% choice)	Steers	Heifers
National	135.06	135.76
Kansas	136.20	137.11
Nebraska	127.93	132.16
Nebraska (dressed)	219.00	219.00

Feeders No. 1 (800-900 lb)	Steers	Trend
South Dakota	133.50-152.75	+2/+5
Billings	132.00-144.50	n/a
Dodge City	136.00-137.00	n/a

USDA

Cattle / Beef Trade

	Exports	% from 2016
Sltr. cattle to U.S. (head)	149,772 (1)	-16.7
Feeder C&C to U.S. (head)	53,820 (1)	-33.5
Total beef to U.S. (tonnes)	35,087 (3)	-11.6
Total beef, all nations (tonnes)	49,562 (3)	-4.9

	Imports	% from 2016
Sltr. cattle from U.S. (head)	n/a (2)	n/a
Feeder C&C from U.S. (head)	9,851 (2)	+153.2
Total beef from U.S. (tonnes)	38,815 (4)	+10.8
Total beef, all nations (tonnes)	56,703 (4)	-12.9

(1) to Apr 15/17 (2) to Feb 28/17 (3) to Feb 28/17 (4) to Apr 22/17
Agriculture Canada

Fixed contract \$/c/kg

(Hams Marketing)	Maple Leaf Sig 5	Thunder Creek Pork
Week ending	Apr 28	Apr 28
May 27-Jun 03	168.34-171.91	167.69-167.92
Jun 10-Jun 17	170.01-173.84	169.67-174.92
Jun 24-Jul 01	177.54-177.84	175.12-177.18
Jul 08-Jul 15	178.48-180.03	174.10-177.42
Jul 22-Jul 29	173.38-173.43	174.25-176.29
Aug 05-Aug 12	175.72-175.97	174.07-176.83
Aug 19-Aug 26	167.28-172.32	162.82-168.58
Sep 02-Sep 09	163.48-167.55	155.48-159.57
Sep 16-Sep 23	159.10-160.82	153.95-154.64
Sep 30-Oct 07	158.22-158.66	156.16-157.86

Hog Slaughter

To Apr 22	Canada	Fed. inspections only U.S.
To date 2017	6,503,459	36,946,398
To date 2016	6,428,087	35,838,300
% change 17/16	+1.2	+3.1

Agriculture Canada

Hogs \$/c/kg

Alta. Index 100	141.00	Man. Index 100	152.00
Sask. Sig. 5	142.41	Que. Index 100	150.74

*incl. wt. premiums

Hogs / Pork Trade

	Export	% from 2016	Import	% from 2016
Sltr. hogs to/fm U.S. (head)	261,791 (1)	-14.9	n/a	n/a
Total pork to/fm U.S. (tonnes)	63,133 (2)	-14.8	54,697 (3)	+8.5
Total pork, all nations (tonnes)	201,542 (2)	+3.6	61,213 (3)	+5.0

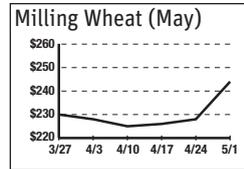
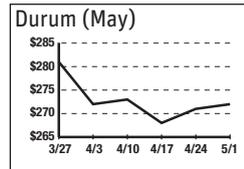
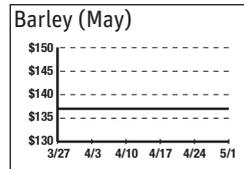
(1) to Apr 15/17 (2) to Feb 28/17 (3) to Apr 22/17
Agriculture Canada

Chicago Hogs Lean (\$/cwt)

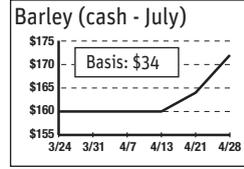
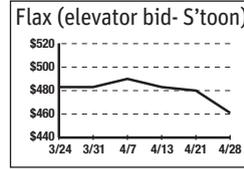
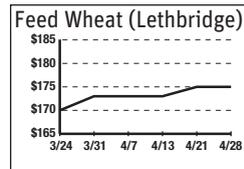
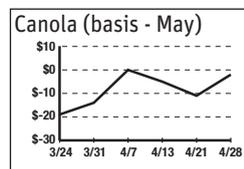
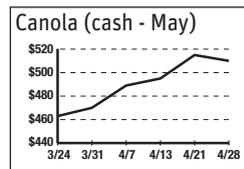
	Close Apr 28	Close Apr 21	Trend	Year ago	Close Apr 28	Close Apr 21	Trend	Year ago
May	66.98	63.03	+3.95	77.90	Oct	66.65	63.33	+3.32
Jun	74.00	68.33	+5.67	81.70	Dec	61.70	59.48	+2.22
Jul	75.23	69.53	+5.70	81.78	Feb	66.00	63.65	+2.35
Aug	75.43	70.23	+5.20	80.88	Apr	69.50	67.38	+2.12

GRAINS

ICE Futures Canada

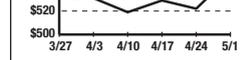
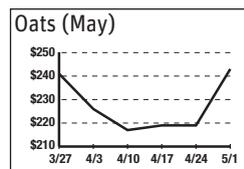
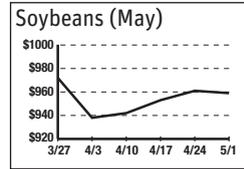
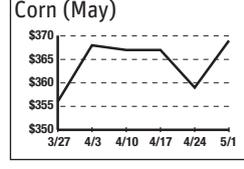


Cash Prices



Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

Chicago Nearby Futures (\$/100 bu.)



Pulse and Special Crops

Source: STAT Publishing, which solicits bids from AGT Inc., Canpulse Foods, CGF Brokerage, Maviga NA, Parrish and Heimbecker, Scoular Canada and Simpson Seeds. Prices for dressed product at plant.

	Apr 28	Apr 21	Mar 31
Laird lentils, No. 1 (c/lb)	48.57	48.57	48.86
Laird lentils, No. 2 (c/lb)	43.43	43.43	41.43
Laird lentils, Xtra 3 (c/lb)	30.17	30.17	31.50
Richlea lentils, No. 1 (c/lb)	45.20	45.20	39.60
Eston lentils, No. 1 (c/lb)	44.94	44.94	45.44
Eston lentils, No. 2 (c/lb)	40.31	40.31	41.31
Eston lentils, Xtra 3 (c/lb)	30.60	30.60	33.60
Sm. Red lentils, No. 2 (c/lb)	24.97	24.97	22.78
Sm. Red lentils, Xtra 3 (c/lb)	21.64	21.64	18.79
Peas, green No. 1 (\$/bu)	8.31	8.31	8.06
Peas, medium, yellow No. 1 (\$/bu)	8.58	8.58	8.33
Peas, sm. yellow No. 2 (\$/bu)	7.78	7.78	7.03
Feed peas (\$/bu)	6.53	6.53	5.53
Maple peas (\$/bu)	15.17	15.17	15.17
Mustard, yellow, No. 1 (c/lb)	30.25	30.25	28.30
Mustard, Brown, No. 1 (c/lb)	34.43	34.43	33.67
Mustard, Oriental, No. 1 (c/lb)	29.50	29.50	28.53
Canaryseed (c/lb)	20.04	20.04	20.32
Desi chickpeas (c/lb)	35.67	35.67	35.67
Kabuli, 8mm, No. 1 (c/lb)	59.58	59.58	39.58
Kabuli, 7mm, No. 1 (c/lb)	39.58	39.58	24.58
B-90 cpeas, No. 1 (c/lb)	46.00	46.00	29.75

Cash Prices

	Apr 26	Apr 19	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	163.08	159.27	130.49
Sfnlwr NuSun Enderlin ND (c/lb)	14.95	14.95	16.50

U.S. Grain Cash Prices (\$/bu.)

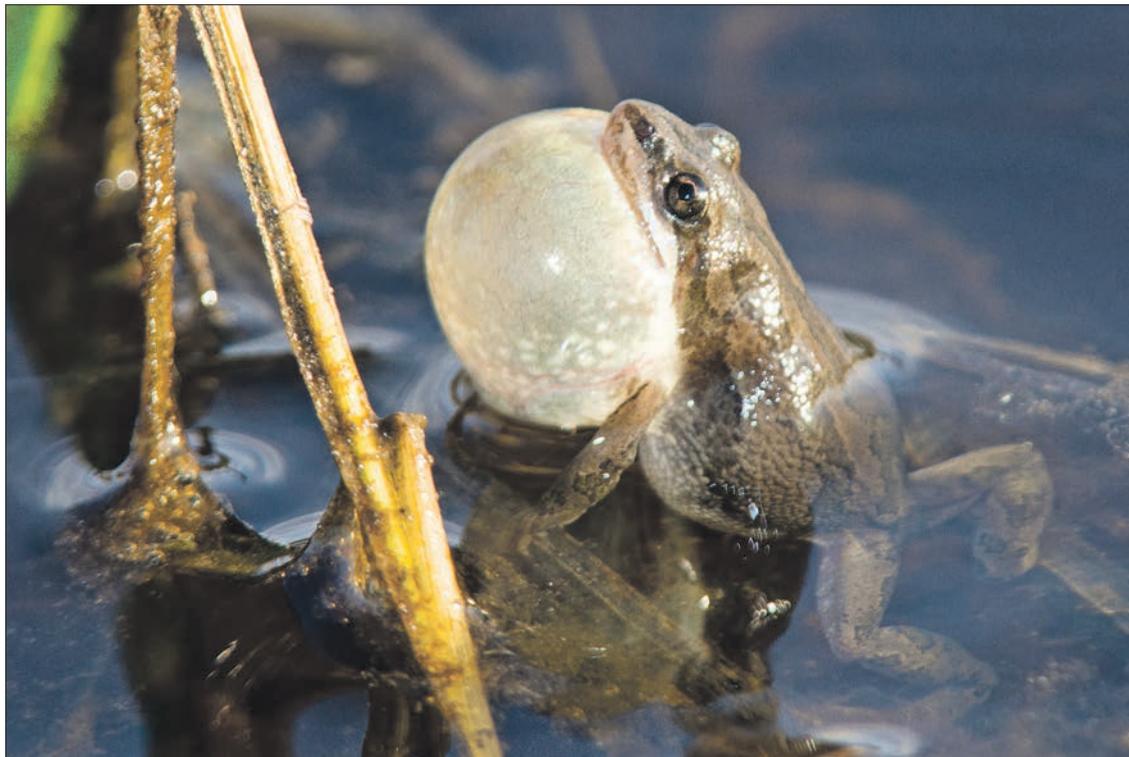
USDA	Apr 28
No. 1 DNS (14%) Montana elevator	5.13
No. 1 DNS (13%) Montana elevator	4.73
No. 1 Durum (13%) Montana elevator	5.60
No. 1 Malt barley Montana elevator	2.88
No. 2 Feed barley Montana elevator	2.28

Grain Futures

	Apr 28	Apr 21	Trend	Year ago
Wpg ICE Canola (\$/tonne)				
May	526.60	530.50	-3.90	498.70
Jul	515.60	523.90	-8.30	499.70
Nov	501.20	494.80	+6.40	496.00
Jan	505.80	498.40	+7.40	499.60
Wpg ICE Milling Wheat (\$/tonne)				
May	244.00	228.00	+16.00	240.00
Jul	245.00	229.00	+16.00	238.00
Oct	242.00	223.00	+19.00	233.00
Wpg ICE Durum Wheat (\$/tonne)				
May	272.00	271.00	+1.00	303.00
Jul	272.00	272.00	0.00	298.00
Wpg ICE Barley (\$/tonne)				
May	137.00	137.00	0.00	172.00
Jul	138.00	138.00	0.00	174.00
Chicago Wheat (\$/bu.)				
May	4.4275	4.0250	+0.4025	4.7700
Jul	4.5600	4.1925	+0.3675	4.8775
Sep	4.6875	4.3425	+0.3450	4.9850
Dec	4.9000	4.5800	+0.3200	5.1675
Chicago Oats (\$/bu.)				
May	2.4325	2.1875	+0.2450	1.9225
Jul	2.3950	2.1775	+0.2175	2.0550
Sep	2.3175	2.1525	+0.1650	2.1425
Chicago Soybeans (\$/bu.)				
May	9.5900	9.6125	-0.0225	10.3550
Jul	9.7025	9.7175		

SPRING SONG |

A sure sign of spring is the sound of boreal chorus frogs singing in ponds and roadside ditches. This one was singing near Ensign, Alta., April 19. | MIKE STURK PHOTO



THE WESTERN PRODUCER

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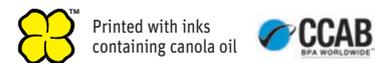
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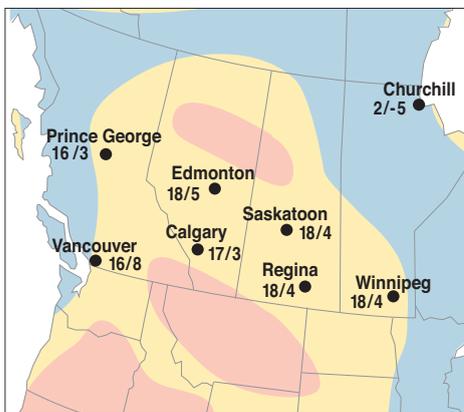
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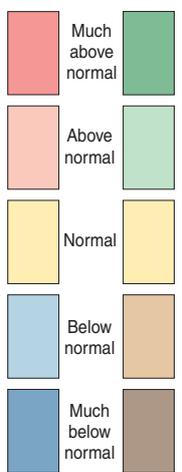


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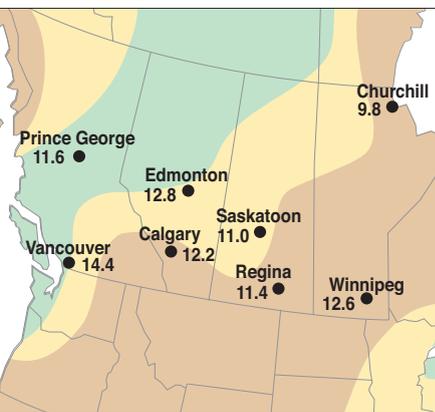
TEMPERATURE FORECAST
 May 4 - 10 (in °C)



TEMP. MAP



PRECIPITATION FORECAST
 May 4 - 10 (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.weatherotec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

LAST WEEK'S WEATHER SUMMARY ENDING APRIL 30

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	17.6	-3.5	4.9	31.1	144
Broadview	20.0	-7.6	6.5	11.8	47
Eastend	14.9	-4.5	5.0	35.5	146
Estevan	19.3	-5.9	3.7	13.1	53
Maple Creek	16.6	-4.3	7.4	31.3	134
Meadow Lake	14.9	-5.5	1.7	55.9	222
Melfort	16.0	-7.1	3.4	28.5	110
Nipawin	16.4	-6.8	5.3	29.6	118
North Battleford	15.6	-4.7	2.9	33.8	136
Prince Albert	16.6	-5.9	3.1	28.2	101
Regina	18.2	-4.4	9.7	20.2	91
Rockglen	16.2	-4.3	2.7	32.6	159
Saskatoon	16.7	-4.3	2.2	18.4	78
Swift Current	15.0	-5.1	5.7	19.6	99
Val Marie	17.7	-5.3	2.1	23.3	122
Wynyard	16.1	-6.2	3.2	21.4	92
Yorkton	16.5	-8.2	4.6	28.0	118
Brooks	15.6	-4.8	9.9	23.7	105

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Calgary	14.6	-4.3	14.1	55.5	218
Cold Lake	13.8	-2.4	3.2	75.8	270
Coronation	14.1	-2.9	15.8	30.7	134
Edmonton	13.7	-4.5	2.9	55.1	203
Grande Prairie	14.4	-6.2	2.2	55.0	274
High Level	16.8	-7.0	0.0	4.2	26
Lethbridge	16.0	-1.0	14.4	30.0	108
Lloydminster	13.7	-2.6	10.0	53.8	199
Medicine Hat	17.4	-2.8	16.4	45.3	220
Milk River	16.9	0.0	13.2	58.4	174
Peace River	14.6	-5.6	2.3	29.2	160
Pincher Creek	12.6	-1.9	30.3	73.3	176
Red Deer	14.1	-4.3	6.4	30.0	123
Stavelly	12.4	-4.0	36.6	90.8	299
Vegreville	13.7	-1.1	12.8	66.0	255
Brandon	19.6	-7.0	0.4	17.1	68

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.weatherotec.mb.ca

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Dauphin	18.6	-9.1	0.0	10.9	41
Gimli	19.7	-5.8	0.6	52.0	212
Melita	18.8	-5.5	1.6	21.3	87
Morden	19.4	-4.4	2.2	9.1	33
Portage la Prairie	20.4	-4.0	0.5	34.3	120
Swan River	17.5	-7.7	2.7	25.3	86
Winnipeg	20.2	-6.8	1.2	31.7	115
Cranbrook	14.2	-1.3	7.9	42.8	148

BRITISH COLUMBIA

Fort St. John	13.4	-4.5	0.6	72.8	389
Kamloops	18.2	0.8	4.1	22.7	139
Kelowna	17.1	-0.4	5.6	42.4	162
Prince George	13.4	-5.6	4.0	86.8	249

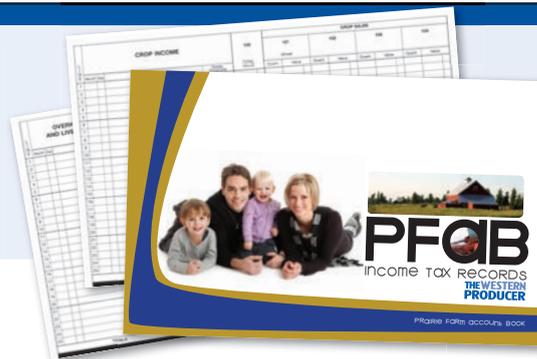
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