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LOOK FOR FULL AGRIBITION COVERAGE ONLINE AT WWW.PRODUCER.COM AND IN NEXT WEEK'S ISSUE



AGRIBITION SLEEPOVER |

Devan Nault of Bar 33 Ranch at Pierceland, Sask., takes B33 Bodacious, a two-year-old Shorthorn bull, to overnight tie-outs at Canadian Western

Agribition in Regina. Bodacious seeks to continue his winning ways at the big show, after winning there as a calf and most recently at shows in Lloydminster, Sask., and at FarmFair in Edmonton. | MICHAEL RAINE PHOTO

FOOD LABELLING

COOL back from the dead after election

BY BARBARA DUCKWORTH
CALGARY BUREAU

A trade issue that bedevilled Canadian livestock producers for much of a decade may be making a comeback.

CNN reported last week that a memo from U.S. President-elect Donald Trump's transition team suggests making mandatory country-of-origin labelling a trade focus for the new administration, along with renegotiating the North American Free Trade Agreement.

COOL is estimated to have cost the livestock industry \$1 billion in export losses, and any return to such a policy would be sure to create consternation in Canada.

However, Gary Stordy of the Canadian Pork Council stressed that such a move is just speculation.

"It is a bit too early to react to the information available at this point," he said.

Trump has presented a more protectionist stance, but nothing will happen right away.

SEE COOL IS BACK, PAGE 5 >>

FARM SUPPORT

Feds extend cash advance program

Three million unharvested acres in Sask. and 2.58 million acres in Alberta as of mid-November

BY SEAN PRATT
SASKATOON NEWSROOM

The federal government has revised the application deadline for the cash advance program to accommodate farmers with unharvested crops, but for some growers it isn't going to help.

The deadline for seeded advances was Aug. 31, 2016. After that date, farmers can get advances only for grain that is in the bin.

However, a lot of grain is still in the field this year because of unusually wet harvest conditions, so the federal government extended the seeded advance application

deadline until March 31.

"It gives (farmers) the opportunity to get cash flow for grain that's still in the field," said Dave Gallant, director of finance and operations for the Canadian Canola Growers Association.

There were three million unharvested acres in Saskatchewan as of Nov. 18, 2.1 million of which were insured.

Alberta had 2.58 million unharvested acres as of Nov. 15, of which two million were insured.

Manitoba had 626,000 insured acres in the field as of Nov. 2 but considerable progress has been made since then and very little is

left in the field.

Growers need to have crop insurance to take out an advance. The amount of the advance is a complicated calculation based on acreage remaining to be harvested and the level of crop insurance on that crop.

Gallant said the canola growers association receives five to 10 phone calls a day from growers wanting to know what they can do to get an advance on their unharvested grain, so it was welcome news when Ottawa agreed to revise the deadline.

"We knew it was causing farmers a lot of stress," he said.

"What we're hearing from farm-

ers is, 'this is great news. At least we can get some cash now until we can get this off the field.'"

However, the deadline extension does not provide much of a lifeline for some farmers.

Charlie Boser, a grower from Luseland, Sask., said he doesn't plan to use the program despite having 2,000 acres remaining in the swath.

He does not want to risk taking out an advance on crop that will likely be worth very little next spring because of deteriorating quality.

SEE FEDS EXTEND, PAGE 4 >>



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A teaching garden: An Ontario conference centre uses its garden to teach visitors about food. See page 19. | KAREN MORRISON PHOTO

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WHAT'S HAPPENING @ PRODUCER.COM

FEATURES



'HONEST FOOD' POLL
Farmers may need to brace for more production demands, not necessarily by consumers but from large supermarket chains. What do you think?



BAYER AGRONOMY SUMMIT
The WP's Robin Booker teamed up with Lisa Guenther from Grainews at the Bayer Agronomy Summit in Banff to put together video highlights of the event.



IGNORE THE CALENDAR
The Western Producer doesn't normally publish a collection of harvest images at the end of November, but that's just the kind of year it's been.

VIDEOS

HARVESTING HOPE
It's now official — the 139 antique threshing machines set a world record earlier this year.



OFFSET CARBON TAX
Manitoba farmers say any carbon pricing plan must recognize their beneficial practices.



▶ **PLUS:** Agribition runs until Nov. 26. Go to www.producer.com for our constantly updated coverage of the event.

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WHAT A YEAR



Anna, left, Jaynie and Cody Glasman took to the pond Nov. 19, while their neighbour, Larry Gabert, combined the adjacent field near Lamont, Alta. The photographer hoped this is the only year such a photo opportunity presents itself. | KIM GLASMAN PHOTO

OILSEEDS

Have crop prices hit bottom?

Analyst thinks grain and oilseed prices will rebound in early 2017

BY SEAN PRATT
SASKATOON NEWSROOM

MINNEAPOLIS, Minn. — Grain and oilseed prices have bottomed out, say analysts.

"I do not think that the soybean market or the corn market will make a new low," said David Hightower, founder of the *Hightower Report*.

"I think the low is in."

That does not mean he is bullish. In fact, for the next 60 to 90 days he is rather bearish because of a good start to the planting season in South America.

However, he believes prices will not drop back down to where they were, and some time in January, February or March, the market will stop embracing the bear case and start considering the bull case.

"The bear camp has had its best shot," he told delegates attending the 2016 Oilseed & Grain Trade Summit.

Hightower said unexpectedly strong soybean demand from China and poor palm oil production are propping up soybean prices.

Bill Lapp, president of Advanced Economic Solutions, said soybean prices have been resilient despite the biggest glut of grain and oilseeds on record.

That is because soy meal demand is growing by 3.6 percent a year while soy oil demand is

increasing by 3.8 percent per year. Meanwhile, soybean yields are growing at only 1.5 to two percent per year.

"It means you need more acres of oilseeds every year," he said.

In fact, the market needs an extra two million acres a year.

"It's the rationale for keeping prices in the \$9.50 to \$10 (per bushel) range going forward," said Lapp.

IN 2016, U.S. WHEAT
CARRYOUT IS
ESTIMATED AT
1.2 billion
BUSHELS

World stocks of corn, wheat and soybeans are burdensome, but China holds a lot of them and its stock statistics are notoriously unreliable.

"A couple of years ago China built stocks year-over-year in wheat and yet they imported more wheat than they had imported in two decades," he said.

Global stocks do not look nearly as ominous when China is taken out of the calculation.

Global corn supply narrowed when drought hit Brazil's second corn crop, which has led to a strong U.S. export program in the

last few months.

Supplies are heavy but nothing a disaster can't cure.

"One drought and we are significantly higher from where we are today in terms of prices," he said.

Lapp is forecasting an average corn price of \$3.66 per bushel for nearby futures in 2016-17, with a 10 percent variance on either side of that number.

"We've bounced off the bottom," he said.

"Very good export demand has propelled us from those lows. I don't think we're going to go back and see those lows again."

His soybean price forecast is \$9.80 per bu. for nearby futures. Lapp believes that will be appealing enough to pull two million acres out of corn and into soybeans next spring.

U.S. wheat yields this year were astounding, and carryout will be the largest level in 29 years at more than 1.2 billion bu. That has pushed prices down to where there is a narrow spread over corn.

"It's as close to being lower than a snake's belly in a wagon rut as you can get," he said.

Lapp is forecasting a three million acre reduction in the U.S. wheat crop. One million will go to fallow, one million to cotton and rice and the remainder to corn and soybeans.

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MILLENNIALS

The 'foodie' generation

BY SEAN PRATT
SASKATOON NEWSROOM

MINNEAPOLIS, Minn. — Farmers and food companies are ignoring millennials at their peril, says the author of a book on the food habits of 15 to 35 year olds.

The generation makes up one-quarter of the world's population and will surpass baby boomers as the largest spending group next year.

"Now is the time to wake up and realize you need to figure them out because you're going to be serving them for a long time," said Eve Turow Paul, author of *A Taste of Generation Yum*.

Half of millennials consider themselves to be foodies.

"Young people used to spend 17 cents on ramen. Today we're spending \$25 on ramen and waiting two hours in line to get it," she told delegates attending the 2016 Oilseed & Grain Trade Summit.

Teenagers spend more on food than they do on clothing, and 87 percent of millennials say they will splurge on a meal even when money is tight.

Turow Paul studied millennials for more than five years in preparation for writing her book. She shadowed them, interviewed them and read textbooks about them.

In the end, she developed a theory on why food has become such a passion for this generation.

"Young people today are using food as a form of anti-technology," she said.

They have become over-

whelmed with texting, Snapchat and Facebook. Food is a way to reconnect with something that is tangible and real.

"People just wanted something that they could see and they could feel and they knew wasn't going to go away if their computer crashed," said Turow Paul.

"Everyone says we are the over-stimulated generation when in reality we are drastically under-stimulated."

However, they don't completely disengage from technology while enjoying their food. Millennials like to take pictures of what they are eating and share the photos with friends on Facebook or Snapchat.

It helps them identify who they are. Someone eating an organic, vegan, kale salad is telling her friends that she cares about the environment and herself.

"Stop thinking of food as nourishment. It is so far beyond that," said Turow Paul.

Farmers and food companies need to know that millennials want natural, organic, locally sourced food.

The food industry has been slow to respond to their needs, but companies such as Unilever, Walmart, McDonalds and Coca-Cola are starting to change their product offerings because they recognize the purchasing clout of millennials.

Turow Paul said the key is to be open, honest and transparent because millennials don't trust large corporations.

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FEDS EXTEND PROGRAM

» CONTINUED FROM PAGE 1

"I could very well end up with another bill on top of the bills I still have out there because of the quality thing," he said. "Today we're getting rain here like it's the middle of June."

Boser said he remembers what happened with 700 acres of oats that sat through last winter. When he was able to harvest the crop in the spring it was feed. Boser received \$1.65 per bushel from a feed mill but half of that paid for cleaning expenses.

He believes the government should have also extended the repayment date on the 2016 cash advance program instead of leaving it at Sept. 30, 2017.

"The extension of the application, that's fine and dandy, but if you don't extend the deadline for repayment, you're not doing anybody any favours," said Boser.

"You're going to have to spread out this repayment thing because there's no way you can pay it all back with a crop that's going to be worth maybe \$2 or \$3 (a bu.) instead of \$5."

Jeremy Welter, a farmer from Kerrobert, Sask., said Boser raises valid concerns.

Welter has 1,600 acres of canola and barley left in the field. He may take out an advance on the canola, but his barley is definitely feed quality and feed prices are low, so it won't generate much of an advance.

He too worries about his ability to pay back any advance because of deteriorating yields and quality. The money may well have to come out of next year's harvest.

"Which of course just ends up putting me further behind the eight ball," said Welter.

However, he can see how the deadline extension could help some growers who have bills coming due and plenty of unharvested crops.

The government has also indicated it is considering increasing the \$400,000 limit on the cash advance program, according to an Oct. 29 email from Patrick Girard, senior media relations officer with Agriculture Canada.

"The minister has asked departmental officials to review the current limits and assess the need for an increase," he wrote.

Girard was asked if the federal government is still considering increasing the limit or if extending the application deadline was the extent of the government's tinkering with the program. His response did not provide much clarity on that subject.

"Departmental officials are working very closely with the Advance Payment Program administrators on a daily basis to monitor the situation and to provide flexibility to producers who have not been able to fully harvest their crop," he wrote in a Nov. 21 email.

The canola growers association wants Ottawa to double the limit to \$800,000 because farms are bigger and crop inputs more expensive than when the limits were last revised a decade ago.

"Perhaps the change in government has changed the desire for looking at the limits," said Gallant.

"I'm not sure why it has gained additional traction, but we are happy to hear that the minister is thinking about it and that he has talked to his staff."

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ALMOST DONE | The corn harvest south of Rathwell, Man., continued Nov. 16 with temperatures hovering near 10 C and the sun making brief appearances to keep everyone in good spirits. | JEANNETTE GREAVES PHOTO

ANIMAL HEALTH

More cattle positive for TB

Alberta ranchers struggle under quarantine as tuberculosis investigation widens

BY BARB GLEN
LETHBRIDGE BUREAU

Ranchers with cattle herds in quarantine travelled to Ottawa Nov. 21 to give a briefing scheduled the following day to the federal agriculture committee.

Brad Osadzuk, owner of the cow initially confirmed with bovine tuberculosis, and others were invited by the committee to brief members on the situation in southeastern Alberta that now has 36 ranches in quarantine to contain spread of the illness.

Five more cattle infected with bovine tuberculosis have been found in southeastern Alberta since the first one was identified, the Canadian Food Inspection Agency confirmed Nov. 18.

The five are from the same group as the first cow found with the disease, which was discovered in September after it had been shipped to the United States for slaughter.

Dr. Penny Greenwood, national manager for domestic disease control with the CFIA, said the new positive cases show there has been transmission of TB from animal to animal.

"These positive test results indicate transmission between animals has occurred. The CFIA is currently conducting a risk assessment to determine how these results impact the investigation and whether or not additional herds may be declared

infected," she said.

Rich Smith, executive director of the Alberta Beef Producers, said discovery of additional cases was not necessarily as surprise, given that it is an infectious disease.

"The fact that there has been transmission of it isn't good news," he said Nov. 21.

"First we were hoping that there wasn't any transmission. Now we're hoping that it's minimal. It would be really good if these were the last animals that were found" with TB.

Greenwood said the new cases have no effect on food safety, nor do they represent any impact on cattle or beef trade.

The 36 ranches quarantined, 34 in Alberta and two in Saskatchewan, comprise an estimated 18,000 animals.

The infected cows are on three different premises because they were commingled in pastures in the Jenner, Brooks and Suffield regions of Alberta.

The Saskatchewan ranches had cattle adjacent to those in Alberta and were thus included in the quarantine. No Saskatchewan cattle have tested positive.

Greenwood confirmed that the strain of TB in the first cow is related to a strain seen in Mexico and it has not been seen before in Alberta. Results of genetic tests on TB strains that affected the other five infected animals have yet to be analyzed.

The source of the infection thus remains unknown.

More than 50 CFIA staff are now involved in the response and testing of the quarantined herds, with priority given to the source herd and trace outs, Greenwood said.

She added the testing is expected to take months.

The Canadian Cattlemen's Association, ABP and other groups are working to set up a feedlot where calves from the quarantined cow herds could be fed over winter. Many of the ranchers involved in the quarantine habitually wean and sell the calf crop each fall and do not have the facilities, feed or in some cases, water, to overwinter double their usual number of animals.

Greenwood said the province and Agriculture Canada are also looking at options to help producers with access to water and feed for their livestock to get them through the quarantine period.

Some ranchers have questioned whether the large wild elk herd that frequents Canadian Forces Base Suffield, which is in the same area, may have spread the TB.

Greenwood said bovine tuberculosis favours cattle, so elk are "an abnormal host" for the disease. That said, she added a dense elk population could be a low-level reservoir for TB, as has happened at Riding Mountain National Park in Manitoba.

Given that the TB strain so far identified is from Mexico, Greenwood said the CFIA will be con-

sidering the ways it entered Canada, be it wildlife, imported cattle or humans.

Drew Barnes, the Wildrose MLA for Cypress-Medicine Hat, said Nov. 21 that he had found "tremendous empathy" among his constituents for the plight of ranchers with herds in quarantine.

"They know what a hardship this can be and they're certainly hoping and cheering for things to go well."

He said he is also hearing concern about the wild elk herd in the region and speculation about any connection between elk and spread of bovine TB.

"People everywhere in Medicine Hat and southeastern Alberta know that the provincial government has not managed that elk herd in the way it should have been," said Barnes.

Alf Belyea, a Cypress County councillor from the Jenner region, where the initial TB-infected cow originated, agreed people are pointing fingers at the elk herd but there is no proof that it is the source.

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CHARITY FUNDRAISER

Threshing bee breaks record

Harvesting Hope threshing bee sets new world record as 139 antique machines operate for 15 minutes straight

BY ED WHITE
WINNIPEG BUREAU

The 8,000 people who attended Harvesting Hope July 31 can now know they indeed saw the world antique threshing record set.

They can also know that they saw an event that raised \$134,000 for alleviating world hunger and preserving Canadian farm history.

Guinness World Records has certified that the 139 antique threshing machines that finished the challenge of threshing for 15 minutes straight at the Manitoba Agricultural Museum in Austin broke the previous record set in St. Albert, Ont., by 111 machines.

Harvesting Hope saw 148 threshers attempt the record, but nine couldn't complete the 15 minutes required.

Crews and machines from both Canada and the United States took part in the event, which raised money for the Canadian Foodgrains Bank and the Manitoba Agricultural Museum. More than 750 volunteers took part.

The impact of the event goes far beyond the money raised and the public awareness and community building that occurred at the Manitoba Threshermen's Reunion and Stampede.

The federal government match-

es the foodgrains bank's funding at a three-to-one ratio, so the \$67,000 it received from donations will become almost \$300,000, which it can put toward fighting hunger and contributing to food security in Africa.

"We were proud to be part of this record-breaking event and grateful to receive a donation to help farmers in the developing world," said John Longhurst, the foodgrain bank's director of resources and public engagement.

The museum is the home of hundreds of threshing machines and requires constant work to keep the sometimes century-old machines running.

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THE CANADIAN
FOODGRAINS BANK
WILL RECEIVE
NEARLY
\$300,000
FROM EVENT
AND MATCHING
DONATIONS.

POULTRY

Ottawa promises consultations on spent fowl issues

Companies found to be illegally importing broiler chickens into Canada

BY KAREN BRIERE
REGINA BUREAU

Canada's chicken farmers say they're looking forward to resolving the problem of illegal poultry imports entering Canada under a federal program.

Federal Agriculture Minister Lawrence MacAulay last week announced industry consultations regarding the Duties Relief Program, under which companies can import goods without paying duty as long as they later export the same goods.

Chicken producers have complained that imports labelled as spent fowl, which are exempt from duty, are actually broiler chickens that compete with Canadian product.

In 2012, spent fowl imports from the United States were actually greater than that country's production which, Chicken Farmers of Canada has pointed out, is impossible.

The Canada Border Service Agency earlier this year suspended the import licences of five companies found to be in contravention of the program. All were importing

broiler chickens, an agency spokesperson said. She declined to say who the importers were or what penalties were assessed against them.

The CFC said consultations should result in better implementation of border rules.

"Our farmers and processors have been afflicted by leakages in the market that have been occurring for many years now, meaning they face uncertainty in their own production, and consumers face uncertainty in the safety of their food," said chair Dave Janzen.

The government said it is exploring better inventory reporting with those who use the Duty Relief Program to better improve import predictability.

It is also looking at certification requirements for spent fowl imports and assessing the use of a DNA test to screen imports at the border.

The CFC said the DNA test, developed at Trent University, can detect the difference between spent fowl and broiler meat and must be implemented at the border.

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There is a recognition on both sides of the border that the way COOL was implemented in the past just was not helpful. It hurt both sides of the industry. It was cumbersome as well as quite costly.

GARY STORDY
CANADIAN PORK COUNCIL

COOL IS BACK FROM THE DEAD

» CONTINUED FROM PAGE 1

The rumour is linked to a leaked document from the president-elect's transition team but does not indicate policy.

"These type of letters are not necessarily a decision letter but more for the transition team sending information to department officials within the existing administration," Stordy said.

There has always been a possibility that the labelling law could return in some form, said John Masswohl of the Canadian Cattleman's Association.

"There will be lots of process involved and we'll see it coming from miles out," he said.

A lengthy battle before the World Trade Organization about the law that required extensive labelling on beef and pork products resulted in Canada and Mexico winning the case, which gave the government the right to impose retaliatory tariffs.

The U.S. repealed the bill, but there are still elected officials who favour a voluntary labelling law.

"If they do something that replicates the discrimination, our view is that Canada should be in a position to put those tariffs in immediately," said Masswohl.

In the meantime, cattle and hog producers are working with their American counterparts to influence the new government and prevent a revised law from appearing.

"There is a recognition on both sides of the border that the way COOL was implemented in the past just was not helpful," Stordy said.

"It hurt both sides of the industry. It was cumbersome as well as quite costly."

Commodity groups are also waiting to see what the new president proposes to Congress after the inauguration in January.

There are many elected representatives who are familiar with COOL and its implications if a new labelling proposal goes back to Congress for consideration, said Stordy.

In a published document called the *Contract with the American Voter*, Trump stated a desire to change trade deals such as the North American Free Trade Agreement under Article 2205. He also promised to withdraw from the Trans-Pacific Partnership and instead focus on domestic needs.

He also appointed Charles Herbster in July to lead his agriculture and rural advisory committee. Herbster owns Herbster Angus Farm and other business interests in Nebraska.

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KEEP ON MOVING



Scott Sigfusson and his dogs help David and Juanita Esmond herd their cattle to another pasture near Eyebrow, Sask., on a unseasonably warm November day. | MICKEY WATKINS PHOTO

MARKETS



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PRICE PROTECTIONS

Price next year's crop now

Analyst urges farmers to make at least some fall 2017 cash sales now to protect prices

BY ED WHITE
WINNIPEG BUREAU

Five hundred is a nice number. That's true especially when it's in dollars per tonne for new crop canola and gives farmers a chance to take some 2017-18 price protection.

"It gives us that nice round number to look at," said David Derwin, an adviser with P.I. Financial in Winnipeg.

Both Derwin and Jon Driedger of FarmLink Marketing have recommended farmers consider making new crop sales at today's forward prices but to be cautious about it.

Neither is bearish, but both say most farmers should be able to protect profitability of some of next year's crop with today's prices.

However, each has focused on a different method of obtaining protection.

Driedger has suggested farmers "be opportunistic" with new crop cash bids from elevators, grabbing great temporary offers but not being in a rush to accept just any new crop offer.

"Values are pretty good, particularly if you can identify someone who has a special," said Driedger.

"We don't want to just jump at whoever has a bid out there."

Driedger isn't worried about a big drop to the downside any time soon and thinks new crop values could rise further, so farmers should be looking at new crop pricing mainly as a way of dealing with financial risks other than price.

Making fall 2017 cash sales now locks in a delivery period that many farmers need to cover bills and other expenses. This means that locking in a part of the expected 2017 canola crop at profitable levels can make sense now.

It is especially true if farmers live in an area with relatively weak competition, such as central Alberta or Saskatchewan. A good price there providing a delivery opportunity can be a worthwhile way to begin the new crop marketing plan.

Derwin also isn't bearish, so his



Farmers are advised to start thinking about pricing their 2017-18 crop. Here, a truck is loaded on the Crystal Lake Hutterite Colony near Norquay, Sask. | EDWIN CROOK PHOTO

focus is on leaving upside potential and simply cutting off the risk of the market falling.

He has begun asking farmers to look at buying put options to cut off the downside without locking in prices. A \$500 per tonne new crop put costs at about \$25, so a farmer can lock in a \$475 net price, minus local basis, and give canola the next few months freedom to go higher.

Options also don't lock the

farmer into delivery responsibilities, so farmers aren't at risk for delivery commitments that can't be easily met in a year like 2015-16.

"At this point we're so far away from next year," Derwin said.

"With production contracts, you've got delivery commitments and the production risk associated with it, and you don't have any more upside in case canola prices go to \$600."

This is a happy time for hedging

canola with options, Derwin said, because the ICE Canada options only recently became liquid enough to use without having to pay a big price. As well, futures prices have risen at the same time, so all of a sudden they offer a real choice.

"The options really do give you much more marketing flexibility," said Derwin.

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ARGENTINA

Policy change may flood grain market

BY SEAN PRATT
SASKATOON NEWSROOM

MINNEAPOLIS, Minn. — Wheat and corn exporters can expect increased competition from Argentina as farmers there adjust to the removal of punitive export taxes on most crops.

"The past government was kind of anti-farming and mainly was capturing all the value that the farmer was getting for high commodity prices," said Jose Gobbee, director of GOAGRO.

It accomplished that through exorbitant export taxes of 20 to 35 percent on the major crops grown in the country.

The first thing the new government did was completely eliminate those taxes for every crop except soybeans starting in 2016.

The soybean tax was immediately reduced to 30 percent from 35 percent when President Mauricio Macri took office in December 2015.

The plan was to decrease it by a further five percentage points per year starting in 2016 but implementation of that plan has been pushed back until 2018 because of budgetary constraints.

The result is that farmers in Argentina are planting a lot more corn and wheat at the expense of soybeans.

Corn acres are expected to be up a whopping 27 percent this year, the first significant increase in 10 years. Wheat acres are also forecast to soar by 19 percent. Soybean acres will fall 2.4 percent.

The elimination of the 20 percent export tax means farmers within a 400-kilometre radius of the Port of Rosario will make money growing corn for the first time in years.

"Farmers are getting a return on investment of 15 to 20 percent, so very profitable if you have good weather conditions this year," Gobbee told delegates attending the 2016 Grain & Oilseed Trade Summit.

Areas that are more than 600 km from the port remain at below break-even profit levels because of high transportation costs.

CONTINUED ON NEXT PAGE >>

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» CONTINUED FROM PREVIOUS PAGE

He is forecasting 33 to 36 million tonnes of corn production, up from 29 million tonnes last year. Farmers will likely produce 12.5 million tonnes of wheat, up 21 percent over last year.

The planting season is starting nicely with excellent moisture conditions. Adequate rain during pollination could result in record corn yields.

The same goes for the soybean crop, which was 35 to 40 percent planted as of Nov. 5. Planting was delayed one to two weeks from last year.

Gobbie said there is newfound optimism in Argentina's farm sector.

"Farmers are investing again in technology and they're betting that with these new government conditions, they would have profits," he said.

Fertilizer sales are up 50 percent over last year and sales of other crop inputs have risen 25 to 30 percent.

Planting is progressing rapidly in Brazil, where there is expected to be a small 1.23 million acre increase in soybeans.

Half of the soybean crop is in the ground, which is eight to 10 percent above normal.

The crop appears to be in good shape, but that was also the case last year. Analysts were predicting a harvest in excess of 100 million tonnes as late as March, but it came in five million tonnes less than that because of a drought that peaked in December and then again in April.

"This might happen again, so watch out," Gobbie said.

He is forecasting 100 to 103 million tonnes of production with a 30 percent chance that it could climb as high as 105 to 107 million tonnes.

Brazilian farmers are expected to plant more corn, as are their counterparts in Argentina.

Gobbie is forecasting a 10 percent increase in plantings.

"We are witnessing a revival from last year and this is mainly because of the limited stocks that are making some of the local prices rise," he said.

Poultry and hog companies are paying more for corn in an effort to boost first crop acres. They have been forced to import corn from the U.S.

He is forecasting 85 to 90 million tonnes of production depending on how much second crop corn goes in the ground. There will be an increase in second crop corn planting if the soybean crop is going well in February.

Eighty percent of Brazil's corn crop is consumed domestically, mainly as feed. Gobbie expects exports to climb to 25 million tonnes from 18 million tonnes in 2015-16.

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Soybeans are harvested near Chacabuco, Argentina, in 2013. The country, along with other South American grain producing countries, is expected to dramatically expand its share of agricultural markets in the coming years. | REUTERS/ENRIQUE MARCARIAN PHOTO

GLOBAL MARKETS

South America ready to grow its markets

Brazil, Argentina expected to convert millions of acres into farmland over the next decade

BY SEAN PRATT
SASKATOON NEWSROOM

MINNEAPOLIS, Min. — South America will dramatically expand its share of agricultural markets in the coming years, says an analyst.

Jose Gobbie, director of GOAGRO, an agricultural investment management company, said Brazil and Argentina are expected to convert millions of acres into farmland in the next five to 10 years and that will result in more exports.

Argentina, Brazil, Paraguay and Uruguay accounted for 56 percent of world soy meal trade in 2012. That is expected to rise to 63 percent by 2022.

Their share of cereal trade will go from 15 to 56 percent, meat from 25 to 30 percent and biofuels from 38 to 84 percent over the same period.

The driving force behind the anticipated increase in market share is the new acres that will be planted to crops.

Brazil has 785 million acres that could be converted to agricultural land. Argentina has another 91 million acres.

Gobbie said much of that land

will never be converted to farming for ecological and economic reasons.

But he believes it is feasible that Brazil will convert 25 million acres and Argentina another 15 to 20 million acres during the next decade.

"There is huge opportunity to increase in both Brazil and Argentina," Gobbie told delegates attending the 2016 Oilseed & Grain Trade Summit.

Half of Brazil's new acres will be planted in the state of Mato Grosso. He believes that one state will produce an additional 20 million tonnes of soybeans by 2024-25, a 74 percent increase in production.

Gobbie forecasts an additional seven million acres of corn in Brazil, an 86 percent increase. The vast majority of it will be safrinha or second crop corn that is planted on the harvested soybean acres.

Again, the majority of the growth is expected to occur in Mato Grosso, which will produce an additional 20 million tonnes of corn, a 113 percent increase.

Most of Argentina's anticipated production increase will be in corn. Gobbie forecasts more than 50

million tonnes by 2025-26, up from 30 million tonnes last year.

"Argentina will again become an important exporter of corn," he said.

Soybean production will approach 65 million tonnes, up from 57 million tonnes, and wheat will jump to 18 million tonnes from 11 million tonnes last year.

Cereal crops will see the biggest percentage increases in production because the new government in Argentina has eliminated export taxes for corn and wheat, while the reduction in soybean taxes is delayed and will be gradual.

But South America is not without challenges, the biggest being high transportation costs.

The cost of shipping soybeans from Sorriso, Brazil, to Shanghai, China, is US\$170 per tonne. It drops to \$102 per tonne from Cordoba, Argentina. But that compares to \$71 per tonne from Illinois.

"This is something that has to be solved," said Gobbie.

Brazil is working on a solution by trying to improve its transportation infrastructure. The BR-163 project, which is 4,476 kilometres of new

highway in northern Brazil, should be completed next year.

It will provide better access to the country's northern ports. Only 20 percent of Brazil's agricultural exports are shipped out of the north. That will rise to 40 to 50 percent in the next five to 10 years.

Using the northern ports will reduce shipping time to Europe by five days and cut the freight bill by 40 percent.

Another challenge facing South American farmers is the disappointing performance of soybean varieties.

The average annual yield increase for soybeans in Brazil between 2003 and 2013 was one percent. The average yield in Argentina was 1.02 tonnes per acre in 2000-01 and 1.03 tonnes per acre in 2012-13.

"The increase in yields have been almost stagnant," he said.

Seed technology companies have been focusing on traits that reduce costs rather than ones that increase yields. Gobbie said that has to change.

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Oil prices set to rise for soy, canola

Expert predicts tight world stocks of vegetable oil will pressure prices for soy oil higher, which in turn will boost canola

BY SEAN PRATT
SASKATOON NEWSROOM

MINNEAPOLIS, Min. — Market analysts are bearish on most agricultural commodities, but one is definitely bullish on soy oil, which bodes well for canola.

Bill Lapp, president of Advanced Economic Solutions, said stocks of most agricultural commodities are rising, but that is not the case for world vegetable oil supplies.

The stocks-to-use ratio is forecast to plunge to 9.7 percent in 2016-17 from a recent high of 13.7 percent three years ago.

It's happening at the same time that there is weak demand for U.S. soy meal. Meal exports are down 19 percent from last year.

Sluggish meal sales are slowing the soybean crush, which is pressuring soy oil prices higher.

"If you don't crush the soybeans, you don't get the oil," he told delegates attending the 2016 Oilseed & Grain Trade Summit.

Meanwhile, there is a significant increase in soy oil demand from the U.S. biodiesel industry. The sector produced 2.49 billion gallons of fuel in 2016, a 37 percent increase from last year.

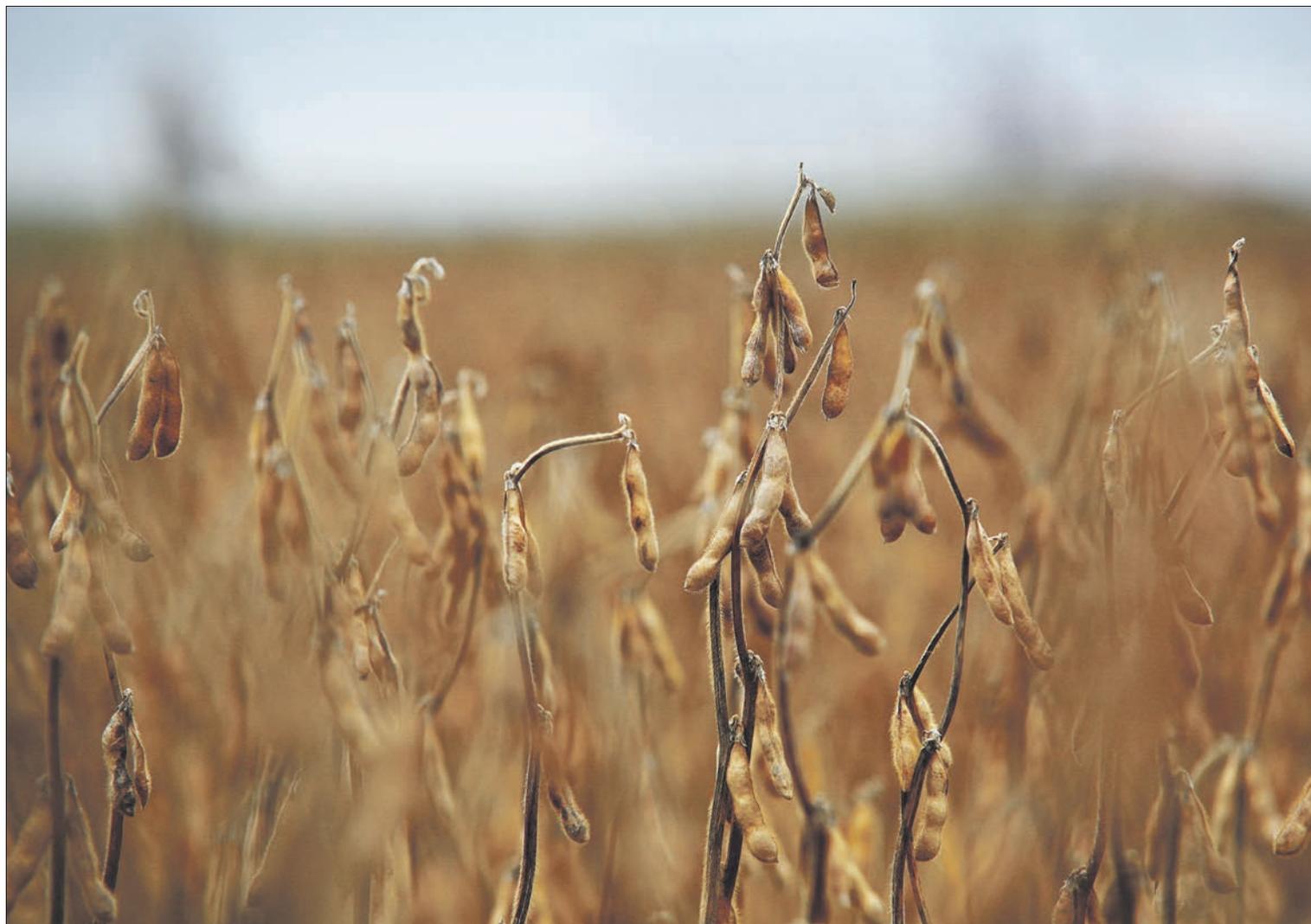
"I think you're kind of getting the picture I'm painting here, that it could be bullish soybean oil," said Lapp.

Canola prices are more tied to soybean oil prices than soybean meal prices because of the high oil content of canola seed, so that is welcome news for Canada's top crop.

Lapp said palm oil production is the big wild card.

"We expected palm oil to start to recover and it hasn't this year, and stocks have gone to extraordinarily low levels," he said.

Generally palm oil production has been down this year because of an El Niño drought in Indonesia and Malaysia.



There is a significant increase in soy oil demand from the U.S. biodiesel industry, which produced 2.49 billion gallons of fuel in 2016, a 37 percent increase from last year. | FILE PHOTO

There are few statistics from Indonesia, but Malaysian palm oil production in October was 18 percent less than a year ago. For the year it is down 16 percent.

Analysts and traders were counting on the palm oil production recovery when they created their supply and demand forecasts.

"There's some pretty big question marks about the big recovery that's

baked into all the numbers," said Lapp.

He predicted the tightness in the world vegetable oil market will result in soy oil prices making a run to 40 cents per pound by the last half of next year.

Soy oil is selling for around 35 cents per pound today, up from 30 cents in August, so 40 cents would be quite the run-up.

"If palm oil production disappoints, it could be even higher," said Lapp.

The tightness in the world vegetable oil market will have a price-boosting impact on canola, especially if the palm oil crop continues to falter.

"We could have a 20 percent rally in canola seed from current levels if that happens," he said.

The rally in soy oil may take a while to develop because investment funds are long on soy oil, so prices may stay in the mid-30s range for a while.

However, there could be a slight boost in prices when the new U.S. biodiesel mandates are announced Nov. 30 if they prove favourable.

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PRODUCTION FORECASTS

Russia takes crown as world's top wheat exporter

MARKET WATCH



D'ARCE McMILLAN

Records are being set in the world wheat market this year.

For the first time, Russia is expected to be the world's largest wheat exporter in 2016-17, surpassing the collective exports of the countries of the European Union.

Closer to home, analysts forecast that American farmers will seed the smallest wheat crop since the pioneer era.

Informa expects only 47.265 million wheat acres, down 5.8 percent from the 50.154 million seeded for harvest this year.

That would beat the previous record low of 1970 when 48.74 million acres were seeded.

The United States seeding statistics go back to only 1919, but to find a smaller wheat acreage you'd have to go back to a time when the European settlers were still breaking soil.

Of course, thanks to higher yields, U.S. wheat production will not be the smallest ever.

The situation with Russia and the U.S. is a result of the relative profitability of growing wheat, changes in exchange rates and the cropping options farmers have available.

Russia grew a record 72 million tonne wheat crop in the current crop year and it will likely export about 30 million tonnes.

That will surpass the EU's 25 million tonnes. In the previous two years, the EU was the leading exporter, shipping about 35 million tonnes, but this year's crop was hit by bad weather, which hurt pro-

duction and quality.

The U.S. is expected to export 26.5 million tonnes, Canada 21.5 million and Australia 20.5 million.

Russian wheat producers have benefitted from a weak ruble that makes their grain more attractive on global markets and raises the domestic price paid to producers.

In the last few years, Russian millers found they could not compete because international wheat sales made in U.S. currency generated large amounts of rubles, which led to bread shortages in Russia.

The Russian government imposed a tax to limit wheat exports and to encourage adequate domestic supply.

But with the huge crop this year there is enough supply for all and Russia dropped its export tax.

Officials promise a stable tax regime to give confidence to producers and exporters to continue to expand production.

Russia wants to drive production of wheat and other grains to 150 million tonnes by 2030, up from 117 million this year. Wheat exports would hit 50 million tonnes.

In addition to the weak ruble, Russian wheat farmers are competitive because of cheap, fertile land and proximity to some major markets. Ukraine and Kazakhstan also have plans to increase grain production.

Meanwhile in the U.S., its strong dollar has made its wheat uncompetitive on world markets, leading to reduced exports. Last year's shipments of slightly more than 21 million tonnes were the smallest since 1971-72. Exports are recovering a bit this year but not enough to reduce year-end stocks, which are expected to rise to a record 31 million tonnes for a burdensome stocks-to-use ratio of 50 percent.

That is reflected in the weak price and U.S. farmers figure they can

make more money growing high yielding soybeans or corn.

Informa expects U.S. soybean seeding to jump by five million acres to a new record high of 88.612 million acres.

Canadian wheat area has not crashed like it has in the U.S., but nor is it growing.

It has been 21 to 26 million acres over the last 10 years, although it is down five to 10 million acres from where it was 20 years ago.

Canola and pulse crops have taken what were wheat acres.

Oilseeds will likely continue to present a better opportunity for North American producers. The global market for oil and meal is growing much faster than it is for wheat and North American farmers are particularly skillful growing oilseeds.

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

CANFAX REPORT

FED CATTLE RISE

The weekly fed steer weighted average rose \$3.11 to \$142.44 per hundredweight, and heifers climbed \$3.43 to \$141.42.

Tight supplies and rebounding cattle futures supported the market. Weekly dressed trade was generally up \$5-\$7 per cwt. with most the sales from \$238-\$240 delivered. A significant volume of heifers traded.

The cash-to-futures basis weakened to -\$3.12 but remained seasonally strong.

Weekly Western Canadian fed slaughter to Nov. 12 rose two percent to 33,973 head. Slaughter is up five percent for the year.

Weekly exports to Nov. 5 rose 18 percent to 7,814 head. Exports for the year are up 49 percent.

Heifers have been cleaned up, and it looks like feedlots have marketed most of their 2015 fall-placed calves.

North American market-ready supplies are expected to tighten and support prices.

A large seasonal volume of non-fed cattle is currently supplementing the weekly kill but is not a major issue.

Live prices rallied strongly in the United States, climbing in the south by \$4-\$5 per cwt. over the previous week with most trading at \$108-\$109.

Dressed sales in the north were \$4-\$6 cwt. higher at \$168-\$170.

COWS MIXED

D1, D2 cows ranged \$75-\$90 to average \$82.75, up \$1.11. D3 cows ranged \$69-\$82 to average \$75.60. Rail grade cows ranged \$160-\$165.

Bulls averaged \$99.75, down 50 cents, which is the first sub-\$100 average since March 2014.

Slaughter was 9,752 head last week and 9,573 the previous week, marking the two largest weekly volumes in Western Canada this year. The last time there were two consecutive weeks topping 9,500 head was in late 2014.

FEEDERS RALLY

Calf and feeder prices have rallied seven to 11 percent from the lows in late October.



The calf market has likely put in its low for the year.

U.S. calf prices have also strengthened but not enough to cause calves to be exported south. Alberta calves have fetched a premium to the U.S. market for much of the fall.

Eastern Canadian buyers were more active in the western Canadian market compared to earlier in the month.

Manitoba steer calves 600-800 pounds are trading steady to a slight premium against the Alberta market.

A few more pre-conditioned calves have come on the market.

Long weaned heavier calves are fetching premiums.

Weekly feeder exports were 3,217 head. It was the first time since June that export volumes topped year-ago levels.

Alberta auction volumes are down about 24,000 head for the first three weeks of November from last year.

The largest weekly volumes are now behind us. Strengthening calf and feeder prices might flush out a few more this week, but volume should be manageable.

Bred volumes have been light but are anticipated to pick up over the next couple of weeks. Most bred sales were in southern Alberta.

Butcher cow prices are putting roughly a \$1,200 floor price on the market. Bred cows have averaged \$1,375-\$1,400 per head, \$800-\$900 lower than the same time last year.

Younger dispersal type cows and top sort bred heifers are still seeing sales reach slightly more than \$2,000 per head. It is not uncommon to see bred prices strengthen toward the end of the year.

BEEF LOWER

U.S. boxed beef prices fell with Choice down \$3.28 at \$182.31 and Select down \$1.57 at \$167.10.

The price decline was not bad considering the large volume of meat sold. Retail demand has been good in the U.S., considering consumers have a choice of lower priced pork and poultry.

Weekly Canadian cut-out values to Nov. 11 fell with AAA down C\$1.07 at \$242.37 per cwt. and AA down \$2.93 at \$230.10.

The overall cutout is now 13-14 percent lower than a year ago.

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 FALL

The U.S. hog slaughter was the second largest ever.

The ample supply of hogs and the record pace of slaughter this fall kept downward pressure on hog and pork prices.

The U.S. national live price average for barrows and gilts was US\$32.72 per cwt. Nov. 18, down from \$33.25 Nov. 11.

U.S. hogs averaged \$40.41 on a carcass basis Nov. 18, down from \$40.76 Nov. 11.

The U.S. pork cutout was \$73 per cwt. Nov. 18, up from \$74.10 Nov. 11.

The estimated U.S. weekly slaughter for the week to Nov. 18 was 2.531 million, up from 2.452 million the previous week.

It was up 5.7 percent from the 2.394 million slaughtered last year at the same time.

In Canada, the Nov. 19 Signature Five price was C\$112.29 per 100 kilograms, down from \$114.66 the previous week.

The price was \$50.93 on a per hundredweight basis, down from \$52.01 the previous week.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to C\$6-\$6.25 per pound hot hanging weight. U.S. buyers are offering US\$4.60 with returns dependent on exchange rates, quality and export costs.

Grade A heifers sold up to C\$5.75-\$6. U.S. buyers are offer-



ing US\$4.40.

Animals outside the desirable buyer specifications may be discounted.

LAMBS STEADY

Beaver Hill Auction in Tofield, Alta., reported 418 sheep and 129 goats sold Nov. 14.

Wool lambs lighter than 54 lb. were \$194-\$223 per cwt., 55-69 lb. were \$190-\$214, 70-85 lb. were \$180-\$204, 86-105 lb. were \$182-\$203 and 106 lb. and heavier were \$170-\$185.

Wool rams were \$80-\$100 per cwt. Cull ewes were \$70-\$120.

Hair lambs lighter than 54 lb. were \$170-\$198 per cwt., 55-69 lb. were \$185-\$201, 70 to 85 lb. were \$174-\$194, 86 to 105 lb. were \$181-\$190 and 106 lb. and heavier were \$160-\$179.

Hair rams were \$80-\$97 per cwt. Cull ewes were \$91-\$122.

Ontario Stockyards Inc. reported that 1,110 sheep and lambs and 103 goats traded Nov. 14.

All lambs sold steady. Good goats and sheep sold barely steady. Fatter type sheep sold under pressure.

ANIMAL HEALTH

CFIA dismisses injured cow claims

BY BARB GLEN
LETHBRIDGE BUREAU

A Canadian Food Inspection Agency investigation is complete into an August report of an injured dairy cow aboard a livestock transport truck in Ontario.

The agency said it followed up with the parties involved and found that one animal had a surface injury that did not compromise its health and well-being during transport.

No enforcement action was required, the agency said in an emailed response to queries.

The investigation stemmed from a report by a commuter, Amber Jionet, who looked inside the live-

stock trailer while it had stopped at a rest area near Cambridge, Ont., in late August.

Jionet took photos and video of one cow with blood on its hip or leg and of another cow lying down, as well as photos and video of blood on the trailer.

She posted the video to YouTube and gave the material to the Animal Alliance of Canada. That organization registered complaints with the CFIA.

Liz White of Animal Alliance, who spoke about the matter when it occurred, was not available for comment at press time regarding the outcome of the investigation.

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Also, come visit us at Agribition in Regina Nov. 21-26. We will be in Banner Hall all week, as well as putting on a Legacy Event on Wednesday, November 23 at 5 p.m. in the Media Room.

Join us in celebrating 100 years of 4-H in Saskatchewan!

For more information about 4-H, visit www.4-h.sk.ca or call 306-933-7727

INTERNATIONAL TRADE

Freer trade has benefits for ag in particular

It is painful to watch international trade hijacked as a political tool, rather than championed as an economic instrument to enrich the lives of citizens.

Even more so because of the rhetoric surrounding trade coming from United States President-elect Donald Trump, whose promise to renegotiate or rip up NAFTA (North American Free Trade Agreement) and kill the Trans-Pacific Partnership Agreement has generated chants of “down with the globalists” from rabid followers.

Trade has improved the fortunes of civilizations since the time of the Silk Road.

But today’s trade agreements are intensely complex, and there is significant dispute about their effects.

As in many things, economists are not in agreement about the merits of unfettered trade as it is practised under major agreements such as NAFTA and the World Trade Organization. A chief contention is that trade agreements are structured to favour major investors and huge multinational companies that can shift their work easily among countries, resulting in heavy job loss in Canada and the U.S. Indeed, Belgium’s Walloonians, who almost scuttled the Comprehensive Economic and Trade Agreement, protested that such agreements give corporations too much power over national sovereignty.

Economists argue both sides of this. Some argue that agreements have increased trade, creating higher paying jobs to replace those that are ultimately lost as a result of these deals, but other economists argue that trade deals have cost more jobs than have been created. (The Mowat Centre, an Ontario public policy think-tank, says Ontario has lost 300,000 manufacturing jobs over 10 years through automation, globalization, flexible exchange rates and low productivity.)

Reconciling these opinions is a divine

task. Still, scrapping trade agreements is not the answer. We cannot make everything we want in North America.

U.S. economist and scholar Derek Scissors notes that “imports mean lost jobs only if we pretend we can make here all the things import, the same way, for the same price.”

And while it’s true that jobs are lost in Canada and the U.S. because of free trade, the jobs created in developing markets create a consumer class in those countries that ultimately buys Canada’s exports, though that is of no solace to those whose work has moved overseas.

Fortunately, agricultural trade brings benefits without the intense job displacement. Look at our exports: more than \$55 billion in agri-food in 2015, up \$9 billion from just two years earlier. Non-durum wheat, canola and lentils account for \$13 billion alone. Agricultural trade between the three prairie provinces and the U.S. is more than \$11.2 billion annually.

Growth in exports — and potential for more through the TPP agreement — fuels opportunity for Canadian farmers. The growth in canola is a prime example. Canadian farmers can take advantage of incremental improvements in yields due to the scale of their operations, and they can depend on a crop that presents reliable profits year after year.

Canada now exports \$2.6 billion worth of canola seed and oil annually to China alone.

Trade rhetoric has turned ugly, but history has shown that when managed well and focused in the appropriate areas, trade improves the lives — economically and culturally — of parties involved.

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

CRAIG’S VIEW



CROP DIVERSITY

We have to be honest with ourselves about our mistakes. With 30 years of intensive farming all over the world, what have we done? We’ve gotten rid of diversity. We’ve gotten rid of our old healthy rotations that had four or five or six years between each crop. Now we’re down at two-year rotations or straight monocrop. Mother Nature wants diversity. If she doesn’t get diversity, she’s going to force the issue.

MICHAEL HORSCH
GERMAN BUSINESSPERSON, PAGE 55

INTERNATIONAL TRADE

Trade negotiations forge ahead despite U.S. election results

CAPITAL LETTERS



KELSEY JOHNSON

Parliament has started debate on legislation that would implement the Comprehensive Economic Trade Agreement, a multibillion-dollar trade deal between Canada and the European Union.

The debate started Nov. 21 and comes as Ottawa continues to grapple with Canada’s trade future in a post-Brexit, pending-Trump world. Given the current Liberal majority and Conservative support for trade, the deal is expected to pass.

Agriculture Minister Lawrence MacAulay announced Nov. 10 Ottawa plans to give the dairy and

processing sectors \$350 million. The funding includes \$250 million to help innovate Canadian dairy farmers and \$100 million to help the processing sector.

The package, the final details of which are still being discussed with industry, does not include funding for income declines — Ottawa says it does not expect revenue drops because of ongoing growth in the Canadian cheese market.

Dairy Farmers of Canada has estimated CETA will cost producers \$116 million in lost revenue per year. The sector’s cheese processors, meanwhile, expect to lose about \$230 million, a loss estimated by the industry to trigger a \$719 million loss for the overall economy and potentially cost up to 2,900 jobs.

Still, despite ongoing supply management worries, CETA is becoming the bright light for the Liberals as it grapples with a more protectionist global trade climate.

The fate of the Trans-Pacific Part-

nership with Donald Trump serving as United States president looks more uncertain, with many in Ottawa admitting the multibillion-dollar, 12-country trade deal could be dead in the water.

The TPP is structured so that the deal cannot go ahead without the backing of the U.S. and Japan, a result that would go against Trump’s positioning on the file during the campaign.

There are discussions about what a TPP deal might look like without the United States, but that would require the negotiation of a new deal, a move that could easily trigger the reopening of sensitive trade files, including agriculture.

Prime Minister Justin Trudeau and U.S. President Barack Obama met behind closed doors during the recent APEC summit in Peru, in which TPP strategizing was reportedly a key discussion point. Trade Minister Chrystia Freeland has said the government’s position hasn’t changed and any decision

will be left to Canadians.

Here at home, farm groups warn that Canada must develop a plan to address ongoing disparities around access to Japan. Canadian farmers have repeatedly said access to Japan, via a direct deal or within the TPP without the U.S., is critical if agricultural sectors, particularly pork, are to remain competitive.

Former Conservative Agriculture Minister, turned party trade critic, Gerry Ritz has repeatedly said Ottawa must come up with a plan to deal with Japan given the ongoing uncertainty around the TPP.

Trudeau promised Nov. 17 to try and restore Canadian pork access to Argentina. The pending access hinges on an upcoming Canadian visit by Argentine food safety experts.

But pork isn’t the only nervous meat sector Ottawa is hearing from these days.

Transition documents leaked to the press after the U.S. election

have Canadian ranchers nervous about the return of mandatory country-of-origin labelling, a file Ottawa and Washington battled over at the World Trade Organization for nearly a decade.

Canada had been granted WTO permission to impose retaliatory tariffs on the States. The United States repealed the policy before Canada initiated retaliatory measures.

Canadian ranchers have said they expect Canada to take the same hard-line approach if Trump decides to bring back the labelling policy.

Politico, a U.S. media outlet specializing in politics, reported Nov. 21 that the suggestion infuriated Trump’s agriculture advisory panel, who said the file was a non-starter for most U.S. agriculture groups.

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

& OPEN FORUM

TRICKLE-DOWN EFFECT

Cheap food challenges food industry

BY SYLVAIN CHARLEBOIS

Making money in the food business isn't nearly as simple as it once was.

It's becoming cheaper to buy food in Canada — prices fell in August for the first time in years in every province except Alberta. And the Statistics Canada data may indicate the start of significant ongoing food deflation.

But while consumers may be delighted to see prices decline, it creates a significant challenge for the food industry.

The tempered outlook for the rest of 2016 and beyond puts a significant strain on the industry, right down to producers.

The declining prices are the result of two factors: excess inventories for many products and a more competitive food distribution landscape.

And as bad as the drop in food prices is in Canada, it's even worse in the United States.

The U.S. faces the longest stretch of declining food prices in more than 50 years.

In some parts of the U.S., beef prices have dropped by more than 40 percent since last year. Egg prices are down an average of 40 percent. Dairy and bakery products have dropped by more than 15 percent in many regions.

High U.S. food inventories are exacerbated by surprisingly sluggish demand from export markets like China. A relatively strong U.S. dollar discourages trade.

Many European countries are also dealing with declines in food prices. And that's unexpected, since many believed the United Kingdom's decision to leave the



High inventories and increasing competition among food retailers is pushing down prices and food producers suffer. | GETTY PHOTO

European Union would push food prices higher as the pound weakened.

The Canadian dollar, on the other hand, has held steady over the last few months. That has kept fruit and vegetable prices lower in our stores.

At the farmgate, prices for commodities like corn, soybeans, oats, beef and pork have been cut by as much as half of what they were in 2012.

High yields for North American agriculture have tended to keep prices lower, and farmers with low capacity will suffer most.

Cattle prices have slipped as the result of unpredictable demand. Western Feedlots Ltd., one of the largest operators in the country, has announced it will close its

operations in Alberta. It's a sign of things to come for the cattle industry.

Of course, processors benefit from lower input costs but now face a backlash as grocers demand lower prices from suppliers to remain competitive. Large processors can mitigate these costs but smaller outfits may not survive.

For Canadian grocers, lower prices likely quell rumours of potential mergers, acquisitions or new entrants.

In the U.S., however, it could lead to more consolidation.

Canadians should expect to enjoy grocery savings for a while, if not with all products.

At the meat counter, for example, chicken prices increased while beef and pork dropped and the

trend may continue.

With prices regulated at farmgate and high tariffs on imports, the supply-managed poultry sector is almost immune to price fluctuations. Poultry will remain popular for most meat-eating Canadians, but it will be interesting to see if different meat choices are made due to price discrepancies.

Canadian consumers, in general, are slowly changing their food-buying patterns. Food sales are up in convenience stores but down in specialty outlets by more than 1.5 percent. Supermarket sales remain robust, up 1.6 percent since last year.

Gains by traditional grocers are likely due to creative ways of adding value to products. Offering more single servings, promoting more functional foods for health-conscious consumers and sales of ethnic foods have picked up.

It's a much more aggressive promotional environment and consumers should take advantage of it. And it may last a while, except in restaurants, where a more consolidated industry still makes our outings more expensive.

In recent years, food providers have made an effort to connect with consumers. We should hope that lower food prices won't compromise a vastly improved Canadian food marketplace.

Lower-priced foods shouldn't marginalize the importance of food in our lives.

Sylvain Charlebois is dean of the Faculty of Management and professor in the Faculty of Agriculture at Dalhousie University. This column is distributed by Troy Media.

INTERNATIONAL TRADE

Has trade been Trumped?

EDITORIAL NOTEBOOK



MICHAEL RAINE
MANAGING EDITOR

A reporter's view of the world can be very broad. Even agricultural journalists get to see and hear about things far afield.

In the past weeks I have been halfway around the world, including Germany, where I attended Euro-Tier, the world's largest livestock industry event.

Normally I ask the questions, but considering that I was from North America, European farmers and industry folks wanted to know, "what will happen with Trump?"

Most developed nations are both exporters and importers of food, largely because of continental variability of climate, water availability and soil types and conditions. As a result, international trade is very important to agriculture.

About 18 Canadian manufacturers participated in the event, and while global markets outside North America were important to them, the Americans represent the single biggest customer group for most, if not all. So they too were asking.

I spent the American election night in Las Vegas with a group of agricultural and technology folks. They were as surprised as I was, so they told me "I guess we will have to see."

A week before that I was in North Carolina, instead of being home finishing harvest in the mud. Most farmers and rural folks there were predicting, and hoping for, a Trump victory, saying the promise of reopening steel mills, coal mines and auto plants and protecting them from low cost imports was paramount.

Back in Germany, I told farmers that it was not unlike Britain's Brexit vote. Fears of non-citizens competing for domestic jobs and lowering wages and xenophobic perceptions of their evolving nations drove voters to act in self-interest.

In agriculture, freer trade allows for appropriate land use and potential for income that cannot be supported within national boundaries. It also helps to spread the risks of supply and demand.

However, free trade is not always a panacea for farmers. Supply managed sectors in Canada have been able to avoid being driven out of business by powerful U.S. competitors that enjoy government subsidies and low-priced labour.

My reporter's answers weren't very helpful in these cases.

Campaign promises have a way of morphing into more-of-the-same when it comes to governing, I suggested. Once trade doors are open, they are hard and expensive to close.

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FARM STRESS

Coping with a never-ending harvest

HURSH ON AG



KEVIN HURSH

While stopping at the farm equipment dealership to pick up a belt for the combine, I thanked them for not having a Christmas tree erected.

It would be rather depressing to see Christmas trees when you're still combining. It's bad enough that you have to hear the occasional Christmas carol on the radio.

Of course, you can look at the bright side. If the harvest goes on much longer, the days will actually start getting longer.

Compared to a lot of producers, I can't complain. My late combining consisted of chewing through

some very ugly chickpeas, mainly just to get the material off the field. It's not a big economic consequence if they stay out until spring.

Personally, I've never combined in November. I remember the old timers in the area talking about a crop back in the 1950s that was left out until the spring, but that was before my time.

For many producers, there's a lot of dollar value still in the field. Quality and quantity will be further eroded if the crop overwinters. On top of that, crop insurance claims can't be finalized until all the acres of a crop have been harvested.

October was cruel with very little combining possible. November smiled and many producers made a lot of progress. Unfortunately, there are millions of acres still to harvest in Saskatchewan and Alberta.

For many, harvest started in early to mid-August. To still be grinding away more than three months later is amazing. For a lot of producers, 2016 will set the record for their

longest and latest harvest.

And there's a tremendous amount of tough and damp grain to deal with. As the calendar advanced, producers were willing to take grain at higher and higher moisture contents. Some are used to drying a high proportion of their crop and are set up with proper drying equipment. Others have scrambled to establish drying capacity.

Given the situation, it won't be surprising to see more bins of grain than usual lost to spoilage.

In some regions, fields are so wet that producers are waiting for the ground to freeze before they resume combining. Expect producers to pick away at the remaining crop until snow makes it impossible. It would be interesting to know how many block heaters have been installed on combines this fall.

It won't all be harvested over the winter. Expect combines to be rolling again in the spring in many areas. That's always a worry because it can delay seeding operations.

On a positive note, most crop prices have actually improved as harvest has dragged on. Since early September, canola is up about \$1 a bushel and flax is up by even more. Oats have also been on a rally. That's an incentive to keep the combine rolling.

On the other hand, any durum or wheat that's still out is likely to be low quality and low value.

It's difficult to pay attention to other tasks when there's still crop in the field. As producers, we're wired to prioritize harvest over everything else. Even when the amount remaining in the field is small compared to total farm acres, it's hard to turn the page and move onto other jobs.

Fall fertilizer application has suffered. So has planning for the 2017 crop. Family life can be an even bigger casualty. Don't take out your frustrations on the ones you love.

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

CARBON PRICING

Alta. energy generation plan needs rethink: expert

Wind and solar power have drawbacks and should play minor role in climate plan

BY BARBARA DUCKWORTH
CALGARY BUREAU

The federal government announced this fall that all provinces and territories must have a carbon pricing plan in place by 2018. Provincial governments are now figuring out how to comply.

This special package, on pages 12-15, looks at how this is playing out across the Prairies.

EDMONTON — The association representing Alberta's rural municipalities wants the government to consider exemptions from the upcoming carbon levy.

Delegates to the Alberta Association of Municipal Districts and Counties annual meeting voted in favour of asking government to exempt all municipalities from paying the levy as well as giving farming operations a break on the tax for natural gas and propane purchases.

Part of the concern is the unknown impacts of the cost of the provincial levy, said representatives to the AAMDC fall meeting held in Edmonton Nov. 15-17.

The carbon levy comes into effect Jan. 1 and will charge \$20 per tonne of carbon dioxide emissions in 2017, rising to \$30 per tonne in 2018.

Specific rates depend on the type of fuel. The added charge will be 5.35 cents per litre on diesel and 4.49 cents per litre on gasoline. Propane will be 3.08 cents per litre. Natural gas is \$1.01 per gigajoule.

The Alberta government website



Wind power is unreliable and takes up more space than natural gas facilities says an industry official. | FILE PHOTO

says the carbon levy applies throughout the fuel supply chain, including at the point of purchase, when fuel is imported, and at the point of removal of fuel from a

refinery, terminal, plant or oil or gas battery.

The levy will also apply when the recipient flares or vents the fuel or engages in a prescribed activity.

The government expects private investment to support its goal of generating 30 percent of the province's power from renewables such as wind and solar by 2030.

Bids are going out in 2017 to supply 400 megawatts of energy from renewable sources, and corporations and investor groups will require long-term contracts and subsidies, said Clive Schaupmeyer, a retired agronomist who is part of a coalition of scientists studying the Alberta proposal.

The plan to generate extra power from renewable sources may be too optimistic, he added.

A panoramic view is needed, said Cosmos Voutsinos, president of Technology Integration, who has worked on electricity projects generated by coal, gas, nuclear, hydro and renewables throughout the world.

He said every interest group has an opinion, but these need to come together to present a more complete picture of the government's climate leadership plan.

"The climate leadership plan will not do one iota for the environment and in fact may do some damage."

Other countries have made substantial investments in wind and solar energy but not all have been a success. Alberta should learn from their experiences.

"Why didn't we learn from the mistakes of others and position ourselves accordingly?" Voutsinos said.

The government has focused on electricity generation, which is responsible for 17 percent of Alberta's carbon dioxide emissions. Substituting coal fired power generation with wind or solar could leave the province vulnerable.

Wind can be unreliable and on average operates at about 30 percent capacity. As well, wind farms take up more space than a single power plant. Wind farms in Alberta are spread over a space about 350 kilometres long and 250 km wide.

"The same electricity could come from one gas plant covering a few acres at much less transmission costs," said Schaupmeyer.

In addition, backup power must be available from other sources.

He speculated that the province's 18 coal fired plants will likely be replaced with natural gas facilities, which are clean and reasonably priced.

"We take away the coal and it is going to have to be replaced with natural gas. Wind and solar will be a minor part of it," he said.

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CARBON PRICING

Manitoba farm group wants to offset tax with compensation

Reward stewardship that returns carbon to soil

BY ED WHITE
WINNIPEG BUREAU

Like their provincial government, some farmers are hoping to find a made-in-Manitoba carbon pricing system that doesn't damage agriculture too much.

Some farmers favour opposing any type of carbon pricing, but others at a Keystone Agricultural Producers policy meeting recently focused on making a pricing system workable.

"I think we need to be not only seen as trying to do the right thing, but also doing the right thing, and not always saying, 'not us, not us, we can't do anything.' There's things we can do," said Minnedosa farmer Neil Galbraith.

"I have a concern that as farmers, we are going to get our back up too much."

However, the form of a carbon pricing system is crucially important. Farmers will pay a hefty share of the cost since agriculture emits a large proportion of the provincial total, estimated at 40 percent.

KAP president Dan Mazier said the organization has been talking regularly with the provincial government to try to ensure whatever system it adopts is not onerous for farmers.

One assessment has found that the likely cost of the federal requirement could be about \$6 per acre for crops, \$67 per head for a finished bovine and \$6,000 per year for a chicken farm.

Manitoba has not gone the direction of either Saskatchewan or Alberta: it has not outright opposed carbon pricing, like Saskatchewan, nor adopted its own system before the federal deadlines, like Alberta.

KAP executive director James Battershill said details of whatever the provincial government comes up with will become clear very soon because all provinces are rushing to come up with plans ahead of a rapidly approaching federal requirement to have a pricing system in place by 2018.

"It's really imperative that we get this right," said Battershill.

Henry Nelson, vice-chair of the Manitoba Forage and Grassland Association, said carbon pricing's damage will be mitigated if it rewards farmers for embracing farming practices that return carbon to the soil, such as growing forages.

"If we have a tax, if it's inevitable that we're going to get it, then let's deal with how we handle that and reward operations and find way to compensate for putting that carbon back in the soil," said Nelson.

"We're not getting paid to do the right thing."

A number of farmers at the meeting noted the positive impact that returning marginal land to pastures or forage production has on carbon emissions.

However, Somerset farmer Gerry Demare said farmers should be pushing back against the imposition of carbon pricing and shouldn't allow agriculture to become divided between sectors, based on relative carbon emissions.

"It's obvious we're fracturing along commodity lines," he said after hearing Nelson.

"We're all Keystone Ag Produc-

ers.... let's not divide and conquer.... Look at what actually is going to be a direct economic net, net, negative to agriculture in Manitoba.... You have to stay with us on that."

The Manitoba legislature went back into session Nov. 21 and many expect carbon pricing to be a significant issue addressed over the winter.

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this story.



Manitoba farmers say any carbon pricing plan will have to recognize the beneficial practices that already exist on the province's farms. | FILE PHOTO

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CARBON TAX

Alta. greenhouse growers brace for carbon tax impact

Levy could reduce competitiveness, say some

BY BARB GLEN
LETHBRIDGE BUREAU

Alberta's carbon levy, set to go into effect in January, will cost greenhouse growers an estimated \$10,000 per acre next year, says the vice-chair of the Alberta Greenhouse Growers Association.

The levy will raise natural gas prices by \$1 per gigajoule in the first year and another 50 cents per gigajoule in 2018 under the provincial plan.

Albert Cramer, who operates the eight-acre Big Marble Farms greenhouses near Medicine Hat, said the levy will cost his business about \$60,000 in the first year it is imposed. His is one of the largest fresh vegetable operations in the province, and it grows cucumbers and tomatoes year round.

All Alberta greenhouses will face higher natural gas costs, and Cramer fears it will reduce the industry's competitiveness with the larger greenhouse sectors in British Columbia and Ontario.

"The government doesn't understand that the greenhouse industry burns a lot of natural gas. That's our main fuel stock," said Cramer.

"I think what we're trying to convince the government is that we also absorb a lot of that same carbon. Yes, we burn a lot of energy, but because we grow vegetables and the way that the greenhouses are designed, we absorb a lot of that carbon, too. We inject it back into the greenhouse.

"The government is taxing us on fuel that we're also absorbing. If we're using 50 to 60 percent of our carbon, should we still be paying a carbon tax?"

The levy is one part of the provincial government's Climate Leadership Plan announced earlier this year. Other strategies are also aimed at reducing the province's greenhouse gas output and complying with the federal government's plan to impose cleaner energy measures upon provinces if they don't develop a plan themselves.

Marked farm fuel will be exempt from the carbon tax, and Cramer said that exemption should be extended to natural gas used in greenhouses.

"We're farmers. You didn't exempt us," he said.

"There should be no carbon tax



The owner of Big Marble Farms says Alberta's carbon levy will cost the greenhouse operation near Medicine Hat \$60,000 next year. | BIG MARBLE FARMS PHOTO

placed on farmers because farmers grow food. Farmers grow plants. All plants absorb CO2."

The government has said the carbon levy is designed to encourage all sectors to become more energy efficient.

Cramer said there is room for some greenhouses to improve their efficiency, and the federal-provincial Growing Forward 2 program has funds available to assist.

"The problem is, I could spend all that money and still I'm getting

charged a carbon tax. If I spent \$100,000 to save \$10,000 but you're still charging me carbon tax on the rest of my gas, it didn't help anything," he said.

"But if I spent \$100,000 to save \$10,000 and you reduced my carbon tax by 40 or 50 percent, now we're going somewhere, right? We're going to make those investments."

British Columbia also has a carbon levy, but 80 percent of it is rebated to farming operations, said Cramer. The Ontario greenhouse industry also seems to be manag-

ing with a cap and trade system.

He thinks any carbon tax should be consistent nation-wide so all greenhouse operations are on the same playing field.

Cramer said the association has met with government officials to explain its position. Those meetings have been amicable, he added.

As well, the association has posted a video about the tax on its website and is seeking public support for local food production.

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CARBON PRICING

Local power generation part of Alberta carbon plan

Community renewable energy projects provide cheaper electricity and could be eligible for carbon offset payments

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Market forces should be allowed to guide the development of renewable energy projects rather than depend on government subsidies.

“We don’t need subsidies or complicated funding approaches. We just have to get the barriers out of the way and let these projects move forward,” said Sheldon Fulton of Forte Business Solutions, who has worked with energy industry stakeholder groups worldwide and is a strong believer in community-run projects.

Most recently, he has been working with Alberta stakeholders and government to develop a framework for community and co-operative owned renewable energy (CCORE).

These projects are owned at the community level and generate one to five megawatts of electricity using wind or solar power for local use at a cost of \$2 to \$10 million. Fulton said it is a good rural development project that can make money, providing regulatory barriers and other obstacles are cleared.

“We don’t need to have complex applications systems for these projects,” he said at the Alberta Association of Municipal Districts and Counties fall meeting, which was held in Edmonton Nov. 15-17.

“If a community can meet a financial threshold or it can raise some money and it can demonstrate that project isn’t going to blow up the distribution system, the project should be able to go ahead.”

Alberta’s Climate Leadership Plan includes a commitment to reinvest all revenue from the carbon levy into Alberta’s economy. The plan promises to encourage local development and reduce greenhouse gas emissions.

Setting up a local power generator is one way to bring the carbon levy money back to a community. As well, electricity is generated where it is consumed so there are no transmission costs.

“It is your responsibility within your community to get your share of whatever is attracted by carbon levies,” he said.

There is no specific programming for this concept, but it has been tried in other jurisdictions and worked. The province could use money collected from the carbon levy to set up a loan guarantee program similar to the structure of the cattle feeder association loan guarantee. As well, Fulton said successful projects should be eligible for transmission and carbon offset payments.

Communities or municipalities that are considering a project need to calculate capital costs such as buying turbines or solar panels as well as costs of approval and environmental studies. The community would need to find a way to debt finance without losing everything if the market falls.

Communities also need to be cautious and realistic, said Paul McLauchlin, a councillor with Ponoka County who has completed a master’s degree this fall, in which he studied renewable ener-

gy projects for rural Alberta.

No community is going to go off the grid entirely, but smaller projects are achievable, he said.

“We are at an interesting time in human history in that the technology is such now we can become an independent power producer,” said McLauchlin.

His research found that these projects were motivated by the opportunity to make money. Saving the environment was far down the list of reasons supporting a community project.

“They wanted to have control and independence in their power supply.”

Interested communities need to

You will have large amounts of money leaving your community as of Jan. 1, and that money is going to go somewhere else. Keep your tax in the community.

PAUL MCLAUCHLIN
PONOKA COUNTY COUNCILLOR

become educated about the economics of a plan because the promised return on investment is not always true, he said.

“There is a lot of misinformation out there right now, and there are a lot

of snake oil salesmen out there.”

A community should do an energy audit to find out where power is being used.

The farming community is already fixing carbon and needs to take credit for doing something right. People are already using wind and solar energy and buying more energy efficient machines.

“We as Albertans are large energy producers and large carbon producers, but at the same time we do a lot of great things,” he said.

Provincial residents also tend to be late adopters, but that is not a bad thing because there is no need to invent things that have been done and tested elsewhere.

Starting a project may buffer the effects of the carbon tax and provide a hedge against increasing electricity bills.

“You will have large amounts of money leaving your community as of Jan. 1, and that money is going to go somewhere else,” he said. “Keep your tax in the community.”

McLauchlin said a community could look at projects that power public buildings such as rinks, pools or community halls.

The province has prepared a draft document that explains community operated power projects. It can be found at bit.ly/2foF6XH.

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ENVIRONMENTAL FARM PLAN SUMMIT

Grain sector eager to establish sustainability protocols

Industry collaboration aims to reduce competing programs, reduce inefficiencies, build public trust and increase market demand

BY KAREN BRIERE
REGINA BUREAU

OTTAWA — The grain sector has begun to work together to cut through the clutter and send a clear message to consumers about sustainability in that industry.

The Seeking Synergies project is a collaboration of the Canadian Roundtable for Sustainable Crops, the National Environmental Farm Plan, Canadian Field Print Calculator and the 4Rs Nutrient Stewardship Program.

CRSC executive director Fran Burr said they want to build credible, national, cross-commodity sustainability protocols that producers and the public will accept and understand.

“Public trust is a major driver to

sustainability, and public trust eventually translates into market demand,” she said at the national EFP summit.

The idea is to build on existing initiatives, rather than duplicate them, but Burr said the overabundance of ways to measure grain sustainability has made it difficult for all involved. Both farmers and end users are confused.

The four organizations decided to examine where they align and overlap and determine how they could co-operate.

“There was a big desire for a clearing house, particularly when it comes to public trust,” she said.

The network is “absolutely aligned” on minimizing the impacts of sustainable sourcing requirements on producers, she said, and

all want to have a common message.

The organizations will share data, work to improve producer acceptance and engagement, and involve other initiatives.

One issue to sort out is the brand identity of those involved. The programs already have brands that they have worked to build. Burr said she wasn’t yet sure if CRSC should be the umbrella brand that the others support.

However, she said action is required.

“There is a proliferation of competing initiatives, programs, schemes, creating confusion and inefficiencies,” she said. “There are some obvious first steps that we can take to start working together.”

Mark Reusser, a member of the

Ontario Federation of Agriculture’s executive, asked why, if the goal is to avoid duplication and simplify things, a single national EFP wouldn’t be good enough to meet sustainability requirements.

Burr said EFPs are strong on the environmental aspects but less so on the social and economic sustainability that food companies are demanding.

Eric Ritchie of McCain Foods said the company’s potato sustainability initiative is a result of customers McDonald’s and Costco telling it their growers had to get on board.

He acknowledged that it is working with 600 Canadian growers, rather than tens of thousands of grain growers, but he said they have a definite advantage over McCain’s

American suppliers who don’t have a sustainability program.

Dairy Farmers of Canada has pro-Action, a mandatory national assurance program built on the EFP in each province.

“We want to be proactive, so we want to chart the course for the industry before it’s charted for us,” said Cheryl Schroeder, national program co-ordinator.

Grain Growers of Canada president Gary Stanford said growers know more demands are coming.

“Is there some way we can get ahead of the game, so that way other countries, or even some of the big companies like General Mills and McDonald’s, will be happy to buy our grain?” he said.

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HARMONIZED FRAMEWORK

National plan could help meet sustainability goals

Sustainability expanding from environmental practices to social and economic factors

BY KAREN BRIERE
REGINA BUREAU

OTTAWA — Harmonizing provincial environmental farm plans to create a national framework could help producers meet sustainable sourcing demands from buyers, delegates to the recent national EFP summit heard.

The move toward a national base line that all provinces would have to agree on is a response to the increasing emphasis on sustainability.

While sustainability historically has focused on environmental practices, the definition is expanding to include social and economic factors.

“We’ve seen that there’s a bit of (an) emerging role here for EFPs moving forward,” said Jamie Hewitt, acting deputy director of environment policy at Agriculture Canada.

For example, he cited the renewable energy directives in the United States and Europe.

“The amount of certification a canola producer in Canada has to go through to gain access to those markets is quite extensive today.”

Farmers who have gone through the EFP process have said it helped prepare them for additional certification steps, Hewitt said.

Proponents of a national framework say strengthening EFPs could be a producer-friendly way to approach this.

A benchmarking project found common ground and strengths among the existing plans.

Agricultural consulting firm Serecon examined the similarities and gaps in the 11 EFPs available in all the provinces and Yukon.

Markus Weber of Serecon told the summit that most of the plans contain about 300 best management practices, or 3,300 in total.

The BMPs were sorted into eight themes to more easily compare them: water, air and climate, soil,

biodiversity, crop management, livestock management, manure management and other.

The themes were broken down into 24 topics, and 58 concerns were identified under those topics.

“Concern and risk is really where we did the bulk of our work to see if there were commonalities there,” Weber said.

Each of the 58 concerns was rated as to how each province deals with it, using a scale of zero, for it’s not in the plan at all, to four, for comprehensive guidance to the farmer.

Weber said each jurisdiction dealt with 21 of the concerns, while almost all dealt with another 21.

“Of all of the concerns/risks, 17 were found to be addressed by seven or fewer jurisdictions,” said the report. “Of those, seven concerns were addressed by three or fewer provincial programs.”

This doesn’t necessarily indicate a problem but is a function of how provinces differ, Weber said.

He said regulations also deal with concerns identified in the EFPs.

“Ultimately it will be up to this group, if this work continues, to decide what should and should not be in a harmonized EFP, but there is a lot of stepping on the same concerns from the regulatory side, from legislation, from EFPs, from private sector sustainability schemes,” he said.

“Should we all deal with them, or should we reduce some of that duplication?”

Weber said proponents of a national EFP have to decide its purpose.

“When I look at what we’re doing in terms of the benchmarking, there’s an attempt to take what was initially an extension tool, and is now an extension tool for producers by producers, largely, and turning that into a sustainability documentation tool,” he said.

The full benchmarking report has not yet been released.

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FARMLIVING

A STORIED HISTORY

Ottawa's Central Experimental Farm is a favourite retreat for local families but it also produced significant research in wheat and tree varieties since it opened in 1886. | **Page 18**



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

CHILDREN'S HEALTH RESEARCH

Farm moms give kids a leg up

Studies suggest the microbial environment on farms improves the fetus's developing immune system

BY KAREN MORRISON
SASKATOON NEWSROOM

Protection against respiratory ailments in farm children may begin in the womb, according to early findings of the Wisconsin Infant Study Cohort.

The ongoing study, which is comparing 100 farm and 100 non-farm families in that state, started as a pilot project in 2012 to discover what factors in a farm environment are contributing to these health benefits.

Researchers Christine Seroogy of the University of Wisconsin and Casper Bendixsen of the National Farm Medicine Centre hope the reasons for these benefits can one day be applied to a wider population.

Preliminary data shows farm kids in the study have half the rate of confirmed illness as other children and one-third the rate of dermatitis.

"That's significant because there it is a precursor to asthma," said Bendixsen.

"If they have lower rates of atopic dermatitis, they likely will have lower rates of asthma," said Bendixsen. "Asthma is one of the most expensive diseases we deal with."

Bendixsen said livestock operators were chosen for the study because they believe they are the ones with rich microbiome.

Seroogy is focused on the microbial environment on farms, which includes bacteria and other microscopic organisms, and within farm homes as the likely reasons for lower rates of asthma and allergies.

"The microbial environment within children's life and home is much richer, and that in turn sends signals to the developing immune system and leads to the ability to fight respiratory infections better so they're not as sick," she said.

"It's shaping how they respond to allergens in everybody's environment in a manner that is preventing them from having allergy symptoms."

Seroogy, who is tracking babies to the age of two and pregnant women, said studies have suggested protection from the development of allergies stems from being born into the farming environment with the greatest benefits to infants whose mothers are involved in farm activities.

"The strongest protection is suggested to being very early in life, beginning in utero," she said.

Seroogy said the Wisconsin cohort study is the only U.S. birth



Early research indicates that farm children have lower rates of illness, including respiratory ailments and allergies, possibly due to exposure to a variety of microbes and bacteria in utero. | GETTY PHOTO

cohort study that's rural in nature and addressing the influences of farming.

"An infant's immune system is immature and shaped by environment and exposures."



CASPER BENDIXSEN
NATIONAL FARM MEDICINE CENTRE

In a separate project, Seroogy is collecting cord blood from pregnant Amish women.

Early results suggest that the immune systems of children born into farm families are different even at the time of birth and that immune differences may intensify

with age because of special environmental conditions on farms.

Ongoing studies include following the immune systems of children born into farm and non-farming environments over several years.

There is a commonly held belief about farm-raised children getting sick less often.

"This is validating some of that belief," Bendixsen said. "In this study, we are showing that choosing to farm is a preventative activity that improves the health and lives of children."

Seroogy said researchers hope to find key ingredients that can also help protect urban children.

Added Bendixsen: "It's groundbreaking in finding a solution for everybody."

The completed study will be compared with other studies underway in urban centres.

Bendixsen said families were drawn from the region near the Marshfield Clinic in Wisconsin

but finding pregnant farm women for the study proved challenging.

"As these farms consolidate and people begin to live off the farm, the microbiome itself may not be as relevant and won't be able to study it in the same way," he said.

"It's a diminishing resource, especially in livestock.... In the end, people may consider getting a dog or a cow or taking kids to a petting zoon once in a while."

Other recent studies have shown a lower rate of inflammatory bowel disease in farm children and a low prevalence of asthma in Amish children.

Nationwide, 13.5 percent of children have been diagnosed with asthma, and 8.6 percent still have it, while the prevalence of asthma among Amish youths is 5.2 percent, reports the Centres for Disease Control and Prevention.

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JOB MARKETS

Winter fair shines light on careers in ag

BY KAREN MORRISON
SASKATOON NEWSROOM

A glut of jobs in food and agriculture in Canada was the impetus behind a symposium focused on getting that message out to high school students at the Royal Agricultural Winter Fair this month.

Laurie Sawyer, a quality assurance manager and hazard analysis and critical control point co-ordinator for Golden Valley Farms in Arthur, Ont., said little information was available about such careers when she was a high school student.

"There is a gap there that needs to be filled," she said. "There are not many resources for educators to direct them to opportunities there. If you have a food science background, the sky's the limit (research and development and animal welfare jobs).... There's everything from the government level right down to the farm."

You go to university to get an experience, you go to college to get a job.

LAURIE SAWYER
GOLDEN VALLEY FARMS

Sawyer stumbled across her current career path after becoming curious about the ingredients she was working with in the hospitality industry.

She completed programs in food and beverage management and food and pharmaceutical technologies at Durham College of Applied Arts and Technology in Oshawa, Ont., and has worked for Maple Leaf Foods and PepsiCo Canada-Quaker. She didn't grow up on the farm but was drawn to agriculture out of a love of the culture and science of food.

Sawyer said high school didn't show how basic subjects could be applied in processes such as fermenting beer or curing meats.

"You don't see that in the classroom, you don't learn about the different applications," she said.

For Sawyer, college was a gateway to her current work.

"You go to university to get an experience, you go to college to get a job," she said, praising co-operative programs for giving her hands-on, on-the-job training.

Peter Hohenadel, the Royal's director of agriculture and food, said there are three jobs for every ag grad coming out of the universities of Guelph and Dalhousie and similar schools.

He said the Royal, food processors and Dalhousie agriculture faculty staged the first-ever Taste

CONTINUED ON PAGE 19



ORNAMENTAL, WILDLIFE GARDENS

Ottawa research farm under threat

Prairie wheat and hardy peonies may have farm origins

BY JULIANNE LABRECHE
FREELANCE WRITER

OTTAWA — Ottawa author Richard Hinchcliff has been a friend of his city's Central Experimental Farm for most of his adult life.

"The crop research done there is important right across the country," he says. "The research is still of great practical benefit, including cereal and oilseeds."

Besides the historic farm buildings, public spaces include ornamental gardens, an arboretum and wildlife gardens.

The federally owned land, located in the heart of Ottawa, includes prime land used for agricultural research.

Hinchcliff recalled lunchtime walks there as a young economist with Statistics Canada and visits to the cattle on site with his children.

With support from Friends of the Farm, he published *Blooms: An Illustrated History of the Ornamental Gardens at Ottawa's Central Experimental Farm*.

It documents the farm's early history and its major figures, including William Saunders, its first director who retired in 1911, and his son, Percy, who helped his father hybridize wheat as well as prized peonies.

With its focus on the ornamental

gardens, he explores plants developed there that grow across the country.

His book is released at a time when the farm is under threat.

In November 2014, Conservative minister John Baird announced that 60 acres of the farm would be leased for the new civic campus of the Ottawa Hospital, despite being designated as a national historic site in 1998.

"Like many others, I thought that designation would protect the farm from developers who have always coveted this 1,000 acres in the heart of Ottawa," Hinchcliff says.

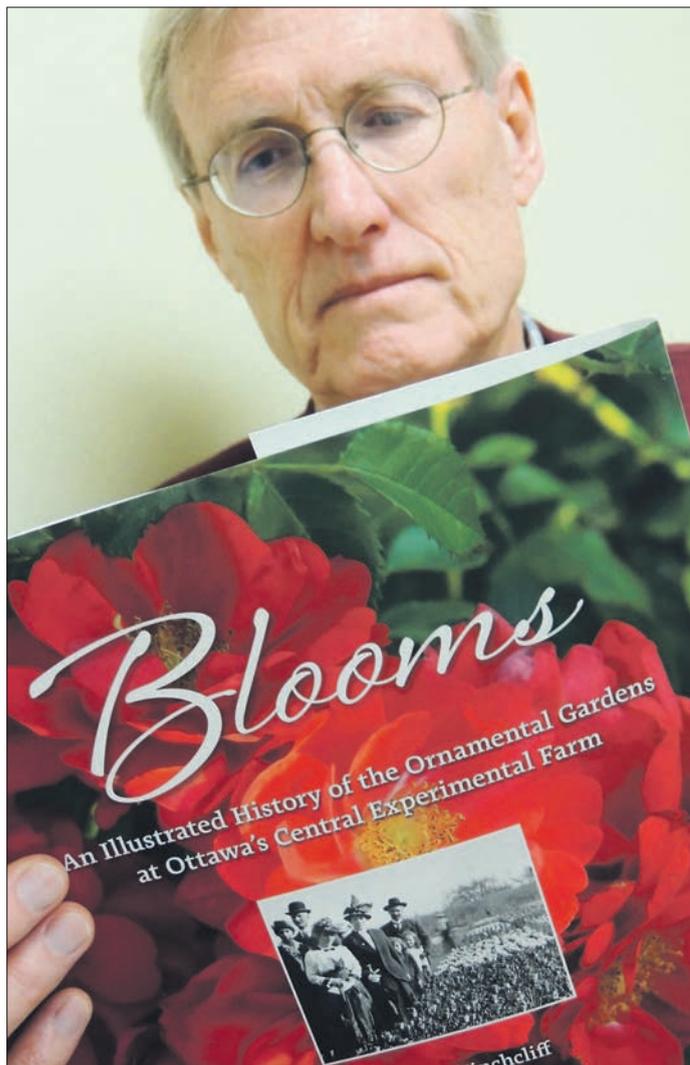
"Recent developments have proven that to be a false belief and that such a designation carries no weight at all."

Since then, that decision remains under review, with a decision pending on the site.

Hinchcliff is also the author of *For the Love of Trees: A Guide to the Trees of Ottawa's Central Experimental Farm Arboretum*, and edits a quarterly newsletter for Friends of the Farm.

This non-profit, charitable organization includes about 500 members and 200 volunteers who work to protect the historic green space.

For more information, visit www.friendsofthefarm.ca.



FARM FACTS

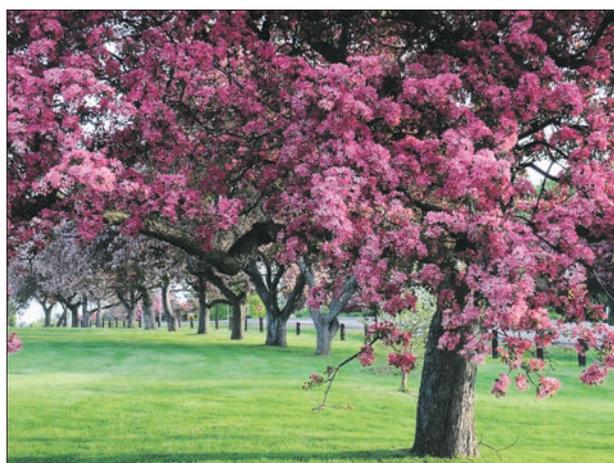
The Central Experimental Farm in Ottawa, established in 1886, is one of the oldest continuously operated agricultural research stations in the world. It continues to undertake research in zero-till farming, soil chemistry, drought-resistant soybeans and corn and fusarium.

Highlights:

- Charles Saunders, one of the sons of the farm's first director, William Saunders, carried out his research on the Marquis wheat cultivar there. Charles became Dominion cerealist in 1905. The wheat had the advantage of early maturity compared to its competitors but was not rust-resistant. (A later variety that was rust-resistant was developed at the CEF in 1947 and named Saunders.)
- Harvey Voldeng developed a soybean variety called Maple Arrow in 1976 that thrived with short summers. This legume now grows on more than two million hectares on Canadian farms.
- For more than half a century, Vern Burrows bred and registered 28 new oat varieties. For this work, he received international awards and recognition.
- The farm was one of five experimental farms established across Canada that helped immigrant farmers adjust to unknown climates, soils and land.
- In the late 1880s and 1890s, only three late season varieties of apples could survive Ottawa winters. A Siberian crab apple tree from Russia was planted at the farm. Once it took root, saplings were sent to western Canadian stations. By its third generation, tasty, larger crab apples were grown there and often turned into jam.
- Isabella Preston, hired by the CEF in 1920, developed Canada-hardy, late-blooming lilacs, the Preston series.
- Felicitas Svejda (1920-2016) created the Explorer series. These hardy roses, including Champlain, John Cabot, Martin Frobisher and others, were bred to withstand the rigours of the cold Canadian climate and remain popular today.



The original tree raised from seed imported from Russia was used in future breeding.



TOP, FAR LEFT: A garden party at the Central Experimental Farm, circa 1900. | LIBRARY AND ARCHIVES CANADA PHOTO

Richard Hinchcliff published a book illustrating the history of the farm and research carried out, including the development of a hardy apple suitable for the Prairies. | JULIANNE LABRECHE PHOTO

RURAL EXPERIENCE

Organic farm educates by serving up fare

Visitors learn about sustainable agriculture

BY KAREN MORRISON
SASKATOON NEWSROOM

SCHOMBERG, Ont. — The YMCA Cedar Glen Outdoor Education Centre's addition of an organic farm and greenhouse is helping its urban visitors learn more about food production.

"They come here to be in nature, and food is a part of it," said Melisanne Loiselle-Gascon, the farm team leader.

"Most visitors, youth, are from the (Toronto area), concrete places. It's about having a chance for people to see the farm and make the connection between farm and the food they eat."

We keep our nutrients on site and add it back to the farm, and the farm feeds the kitchen, so it's really a closed loop.

MELISSANNE LOISELLE-GASCON
CEDAR GLEN OUTDOOR EDUCATION CENTRE

She called the farm experience positive for the 120 young campers who came to the Schomberg site this past summer.

"Hopefully it was a bright light moment for their summer," she said.

"Who knows what it can do."

The four-acre certified organic farm was established to educate visitors about sustainable agriculture and farming but also to provide food for the centre's dining hall.

The fields, which grow about 30 vegetables and fruit such as ground cherries and sunberries, can supply as much as 60 percent of the greens in the dining hall salad bar

when in season.

Excess produce is sold at a farm stand on site.

No synthetic chemicals are used on the farm, and weeds are removed by hand to reduce the need for tractor work. Staggered planting times and insect netting are used to control bugs.

The farm also offers a community supported agriculture program, in which members pay about \$120 for weekly seasonal box deliveries.

Loiselle-Gascon uses the greenhouse to start seedlings that are transplanted to fields, including those grown under row covers.

Composted waste from the centre is combined with wood chips, turned, kept warm to break down and then used in fields and the greenhouse.

"We keep our nutrients on site and add it back to the farm, and the farm feeds the kitchen, so it's really a closed loop," said Loiselle-Gascon.

The farm was set back by a drought this year that prevented many plants from germinating. Drip irrigators could hardly keep up, and a pump was installed to increase water pressure, she said.

The 1,000 sq. foot greenhouse remains operational from March to December and is heated by wood from the surrounding forests in a wood-fired boiler, she said.

"It's not worth it to heat it up when it's super cold and super dark."

Loiselle-Gascon said the farm is funded from various sources, including camp fees and produce sales, but money is not the only consideration.

"Making money is important, but we do a lot of things that are contributing to a broader picture."

karen.morrison@producer.com



Melisanne Loiselle-Gascon, farm team leader at the YMCA Cedar Glen Outdoor Centre's organic farm and greenhouse near Schomberg, Ont., enjoys giving urbanites the chance to connect with local food production. Plants are started in the greenhouse and some are grown under row covers in the field. The greenhouse is heated by a wood-fired boiler. | KAREN MORRISON PHOTOS

» CONTINUED FROM PAGE 17

the Future symposium to shine a light on careers in agriculture by bringing in corporate human resources staff, school counsellors and young agriculture graduates.

"We are trying to influence those guidance counsellors so when they speak to these kids, they think about food and agriculture as an alternative," he said.

Rene Van Acker, dean of the University of Guelph's Ontario Agricultural College, said employers are particularly drawn to those with agriculture and food training combined with farm backgrounds.

"The sector continues to grow, and those students get snapped up quickly," he said, noting his challenges in finding students willing to delay employment and instead continue with graduate studies.

A study that the college commissioned five years ago found a large gap between supply and demand, as large as three jobs for every ag grad.

Two-thirds of employers contacting the school indicate their preference for students from food and agriculture programs but have to hire from other faculties because sufficient graduates aren't available.

That study is now being repeated, and he expects little has changed.

It's a similar story for the eight agriculture colleges across the country, he added.

Van Acker said there are many jobs in the field with input companies supplying seed, chemicals and equipment, but there are also less well-known careers such as agricultural banking, business operations, science and technology, quality assurance, process management and technical sales.

"These are jobs not featured in TV shows, but are lucrative, well paid, that are invisible and exist in the food and ag sector," said Van Acker.

"It's a positive message, no matter what your interests, inclinations, skills, there's probably room for you somewhere in the ag industry."

Van Acker is not surprised that 60 percent of his students are drawn from urban areas, citing the consolidation of farms, shrinking numbers of operations and farmers and depopulation of rural communities.

However, he said agriculture remains a good career choice for young people with farm backgrounds.

"There are opportunities for your children in agriculture, even if there are not opportunities on the farm," said Van Acker.

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REVERSING SYMPTOMS

Treating Type 2 diabetes

HEALTH CLINIC



CLARE ROWSON, MD

Q: I have recently been diagnosed with Type 2 diabetes. I am 60, overweight and female. I have heard that it may be possible to reverse it and get back to normal. How?

A: Most doctors do not think it is possible to reverse Type 2 or late onset diabetes, but there are some who disagree.

Most people who suffer from Type 2 diabetes are overweight and have a high fasting blood glucose level.

Symptoms include being thirsty all the time, frequent urination and skin infections such as boils and abscesses.

Many may have Type 2 diabetes without any obvious symptoms.

This disease is the result of many years of overworked insulin producing Islets of Langerhans cells in the pancreas as they attempt to lower the blood glucose levels.

They eventually burn out and some cells become incapable of producing insulin.

Other tissues and cells in the body also become resistant to the

effects of the naturally produced insulin, so insulin resistance results where more insulin is required to have any effect on the sugar levels.

If you have not been a diabetic for too long before being diagnosed, it may be possible for you to go without glucose lowering medications or injected insulin if you are able to lose enough weight.

The insulin producing cells in the pancreas are capable of at least a partial recovery, and there could also be a drop in cellular insulin resistance.

At one time, people who were diagnosed with Type 2 diabetes were told it was a lifelong and progressive disease. There have been cases where bariatric surgery, including gastric banding or gastric bypass, has been successful in promoting weight loss and a total reversal of Type 2 diabetes.

This surgery is generally only performed in the obese. If your BMI is 30 or more, you are clinically obese.

It is still not possible to reverse the effects of Type 1 or early onset childhood diabetes. In this type, the pancreas produces no insulin at all, and insulin injections are required for the rest of the patient's life.

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

HOLIDAY PLANNING

Keep it simple for gifts, meals

TEAM RESOURCES



JODIE MIROSOVSKY, BSHEc

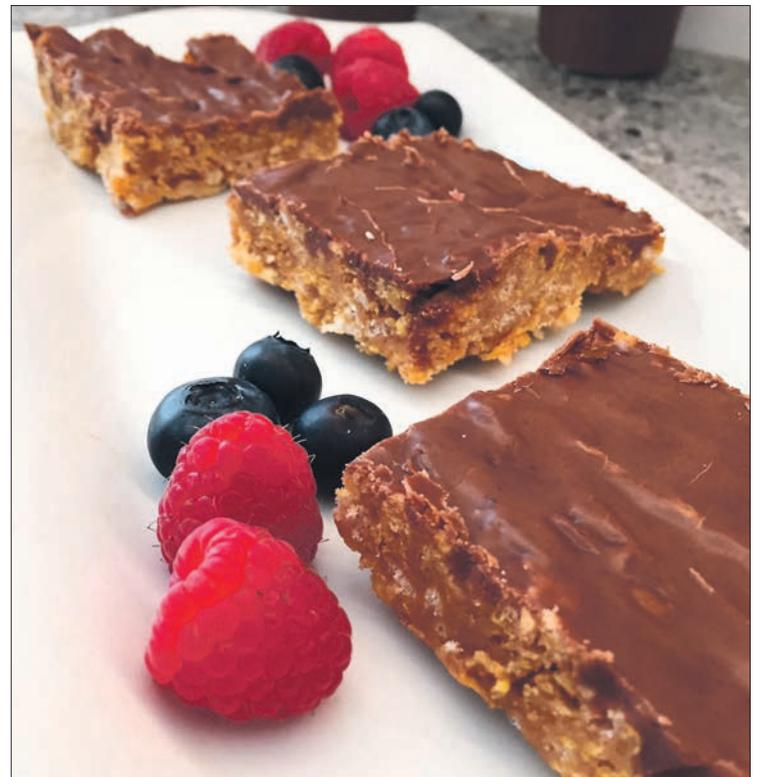
The bigger-is-better view of holiday shopping and entertaining has now moved toward more simple and realistic ways of giving and showing appreciation.

The most special gifts are often not big or expensive material items. The gift of time or a photograph that has captured a special moment or homemade offerings are gifts that relay kindness.

Remember that overindulgence does not bring happiness, just more debt.

Be an informed consumer as you shop for family and friends. Consider these tips from the Canadian Bankers Association:

- Before buying, analyze whether you could pay cash for items you are purchasing. If not, be cautious if shopping on credit. Using credit adds to increasing money problems. Always compare interest rates between credit companies.
- Determine your wants and needs and comparison shop.
- Save receipts to check against monthly statements or for



Peanut butter slice is an easy-to-make treat for the holidays.

JODIE MIROSOVSKY PHOTO

refund or exchange purposes. Stores are not required to give refunds or exchanges. Be informed before you make the final decision to buy.

- Shop locally when possible, supporting your neighbours and community.

The upcoming holiday season can get busy with social events so we all need some easy and comforting one dish meals that are simple to prepare and have minimal cleanup. Using a skillet allows you to lock in flavour and these one pan wonders are easy to keep warm when everyone cannot eat at the same time.

Try this menu, which is prepared on the stovetop.

SKILLET CHICKEN DINNER

- 4 skinless, boneless chicken breast halves
- dash of seasoning salt
- 1 tbsp. vegetable oil 15 mL
- 1 can cream of mushroom soup 284 mL
- 1 1/2 c. water 375 mL
- 1 tbsp. white wine (optional) 15 mL
- 1/4 tsp. paprika 1 mL
- 1/4 tsp. ground black pepper 1 mL
- salt to taste
- 2 c. uncooked white rice 500 mL (I use converted)
- 2 c. fresh or frozen broccoli florets 500 mL

Season the chicken as desired. Heat the oil in a large skillet over medium-high heat. Add the chicken and cook for 10 minutes or until well browned on both sides. Remove the chicken from the skillet.

Mix the soup, water, wine, paprika, pepper and salt in the skillet and heat until bubbling. Stir in the rice and bring back to a soft boil, add broccoli and reduce the heat to low. Return the chicken to the skillet. Sprinkle paprika over the chicken.

Cover and cook for six to eight minutes or until the chicken and rice are thoroughly cooked through. Serves four. Use with soy sauce and cranberries for the garnish if desired.

Source: Adapted from www.campbells.com.

SIMMERING BERRY SAUCE

- 2 c. fresh or frozen blueberries, saskatoon, raspberries or strawberries 500 mL
- 1/4 c. sugar 60 mL
- 1/4 c. water 60 mL
- 1 tbsp. cornstarch 15 mL

In a saucepan, combine the ingredients and stew until the mixture thickens over medium heat. Serve warm over vanilla ice cream or cool completely and serve over Greek yogurt.

Sprinkle with chopped nuts or dark chocolate, if desired.

CRISPY PEANUT BUTTER SLICE

This is a square that my mother-in-law made for special occasions. It is a family favourite and a must over the holidays.

- Slice:
- 3/4 c. brown sugar 175 mL
 - 3/4 c. corn syrup 175 mL
 - 1/4 c. butter 60 mL
 - 3/4 c. peanut butter 175 mL
 - 1 tsp. vanilla 5 mL
 - 3 c. crushed corn flakes 750 mL
 - 3 c. crushed crispy cereal 750 mL

- Icing:
- 2 tbsp. cocoa 30 mL
 - 2 tbsp. butter 30 mL
 - 1 c. icing sugar 250 mL
 - 3 tbsp. hot coffee 45 mL

Combine dry cereals in a bowl. Heat and stir brown sugar, corn syrup and butter together until the sugar is dissolved and the mixture starts to bubble.

Remove from heat and add peanut butter and vanilla. Pour syrup over the cereal and mix well. Pack into a greased nine x 13 inch (22 X 33 cm) square baking pan.

Icing: Stir together the cocoa, butter, icing sugar and hot coffee. Spread over cereal mixture.

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

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ON THE FARM

Producers strive to raise happy, healthy birds

Farm focuses on food safety and animal welfare

BY BARBARA DUCKWORTH
CALGARY BUREAU

STANDARD, Alta. — Alberta's Sundgaard family wants people to know the real story of agriculture.

Don and Val and their son, Trent, his wife, Sharon, and their two children, Sydni, 12, and Ryker, 9, are chicken producers who are active on the farm and in the community and industry.

The family came to Standard when Don's grandfather, Hans Costella, owned a coalmine nearby in the 1920s. They built an egg layer barn in 1940 and today, the operation uses coal byproducts to heat barns.

Don's father, Louie Sundgaard, took over in the 1950s and converted the layer barns into a broiler business. Don and Val returned to the farm in the 1970s after living in Banff where Don worked in accounting.

The couple always knew farming was in their future.

"We told (Louie) we would like to take over someday," said Val.

Sundgaard Poultry Farm was smaller then and they used to sell fresh chicken off the farm, processing about 50 birds a day by hand in their basement.

ON THE FARM



THE SUNDGAARD FAMILY
Standard, Alta.

"The rules came in that you had to have a certified vet there and that was a good reason to quit. We sold them to the local store or people would phone and order them," Val said.

Improvements in marketing and production were gradual.

The supply management system with quotas and new standards were quickly adopted in the poultry industry.

"It wasn't a hard sell. They were losing farms. If supply management hadn't come into Alberta and Canada, there would probably be two or three big corporate farms. The East would be supplied by cheap chicken out of the U.S.," said Don.

Alberta grew into the fourth largest producer in the country and its 245 farmers would like to raise more.

The farm produces one million kilograms of chicken every year on two sites, with birds shipped to Lilydale.

"What we do in a year supplies the

city of Calgary for a week," said Trent.

The barns are computerized and Trent added solar panels to his barns for more energy efficiency.

Food safety and animal welfare are major motivators. Alberta was the first province to adopt the On Farm Food Safety Assurance plan.

The plan covers bird care, barn temperatures, ammonia levels, feed, water and ventilation. Computers control all the systems and if anything fails, they receive a phone call.

"Years ago, if you needed to adjust the temperature, you adjusted the thermostat in the barn. Now it is all done on the computer," said Don, who has served on the Alberta Chicken Producers' board as a director and chair.

He has also served on the Lilydale board.

When Don started farming, a broiler needed 14 weeks to reach maturity. With new genetics, better feed and management, today's birds are ready for market in six weeks.

This farm goes through 6.5 cycles each year where new birds are placed, raised and shipped. Between cycles, the barns are cleaned.

This farm grows wheat, barley, canola and yellow peas and uses the straw for bedding and litter. The family works with a nutritionist to develop a balanced commercial ration for the fast growing birds.

"It is very specific and it is very important that you meet those requirements because with today's genetics those birds are a race car," said Trent.

"When our birds are older, they are eating over 200 grams per bird. That is 12 to 14 tonnes per day," he said.

They employ one person so someone can be on the farm every day walking through the barns.

Trent was encouraged to leave the farm for work experience and post-secondary education.

"We figured that experience, rather than coming back to the farm right out of high school, was better. We weren't ready to turn over everything then," Don said.

Trent, who earned a degree in animal science from the University of Saskatchewan in 1998, also worked as a supervisor-manager at an operation in the Bahamas with nearly 750,000 birds.

Sharon works full time at the local school teaching cosmetology.

Farm succession is going well but modern agriculture is capital intensive.

"Agriculture is difficult to enter if you are going to be a producer. You have to have a lot of motivation. You can't be adverse to risk. This fall is a good indicator of that," said Trent.

The family managed to harvest their grain and the wheat graded



ABOVE: The Sundgaard family includes Don, left, and Val Sundgaard, their grandchildren Sydni and Ryker, as well as daughter-in-law, Sharon, and son, Trent Sundgaard. The family has been raising poultry since the 1940s on their Standard, Alta farm.

BELOW: Trent and Ryker with a two-week-old chick. | BARBARA DUCKWORTH PHOTOS

No. 2, but many neighbours were still struggling to complete the harvest in late fall.

Don, who is helping Standard build a historical walking path, also volunteers to provide agriculture education.

"As well as educating the Grades 3s and 4s, I was educating the teachers as well," said Don.

His grandchildren are young and it will be their decision whether to stay or pursue other careers, said Don.

"Time will tell if it will be fifth generation," he said.

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ORGANIC MARKETING

Ontario food retail co-ops gain momentum

Co-operatives give small meat and vegetable producers in Sudbury and Dryden area new marketing options

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

DRESDEN, Ont. — A new choice for consumers has emerged in northern Ontario — food retail co-operatives.

There are only two, but they're having a significant impact, say Jen Springett of the Cloverleaf Food Co-operative in Dryden and Peggy Baillie, executive director of the Local Organic Foods Co-ops Network.

"What we're doing is trying to reverse that trend (of retail concentration) so there's more control within communities of the food we eat," Baillie said.

Baillie and her husband are small farmers who operate 45 minutes from Sudbury, Ont. They sell their meat chickens and vegetables through farmers markets, farmgate sales and the Eat Local Sudbury co-operative.

Incorporated in 2007, Eat Local Sudbury began with a stall at the city's seasonal farmers market but now has a permanent, year-round location downtown.

The priority is given to food produced by farms within 240 kilometres of the city and then from elsewhere in Ontario.

"We're able to work with some of the smaller farmers that other retailers are not interested in and then those farmers can grow their business. I've seen that happen myself," Baillie said.

There's a similar story in Dryden, four hours west Thunder Bay.

Springett, who had a key role in founding the Cloverbelt co-op, said



The Cloverbelt Local Food Co-op in Dryden, Ont., has increased its membership to 1,000 families since it was launched three years ago.

| SUBMITTED PHOTO

it connects close to 50 farmers and other businesses in the region to consumers.

Co-op members send in their orders over the weekend. In Dryden, a distribution location is

open every Tuesday, and there are now monthly distribution locations in Kenora, Sioux Lookout, Upsala and Ignace.

"We've grown to a 1,000 member families since we started. That's

significant, especially considering the small population of these communities," Springett said.

"I think there's a real interest in local food, and the people here really want to support their communities. We support fairly priced food, including being fairly priced to the farmers so they get enough value for their products — that's 95 percent of the retail price."

I'd like to have co-operatives in every region of the province in another 10 years.

PEGGY BAILLIE
LOCAL ORGANIC FOODS CO-OPS NETWORK

Springett is a volunteer, and there are also two paid employees.

Access to local, high-quality food is important to the communities, she said.

Without it, families would need to rely on retail chains, which truck food from assembly points in Winnipeg or Toronto.

The Cloverbelt co-op also has a community greenhouse and garden and offers workshops in food preparation and storage.

It has also been supporting the development of local food options for remote First Nations communities in the region.

The plan is to develop a regional distribution centre at Sioux Lookout that will better serve, from a logistical standpoint, 31 to 33 communities.

In time, it's hoped two-way trade can be developed with goods flowing south as well as north.

Food co-ops are more numerous in southern Ontario — close to 50, according to Baillie — but the amount of food they handle is small compared to the big chains.

"I'd like to have co-operatives in every region of the province in another 10 years. I'd like to see 250 food co-operatives operating by that time," Baillie said.

"We need to change the food system. We need to change what people have access to."

Founded in 2009, the Local Organic Foods Co-ops Network operates with four part-time staff, a shoe-string budget and the support of volunteers who help coordinate the enterprises and deliver training opportunities, everything from business management to food procurement and food handling.

"We're the only association in Canada that offers direct support for the development of food co-ops," Baillie said.

She said Quebec co-operatives of all kinds, including food retail co-ops, are supported by a government department.

Every co-op is a bit different, Baillie said.

In Toronto, for instance, food co-ops often serve populations located in what are known as food deserts, which are communities in which access to traditional grocery stores is limited.

Others cater to higher-end venues where there is strong demand for organic and natural products.

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ROADS, BRIDGES

Ideal time for infrastructure spending: Alberta gov't

Downturn in economy means labourers are easy to find and tenders are coming in lower

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — The Alberta government is offering nearly \$35 million to help rural municipalities rebuild local roads, bridges and community airports.

The money is delivered through the strategic transportation infrastructure program that was cut from the provincial budget in 2013.

The deadline to apply for money is Feb. 3 to take advantage of the summer construction season, said Brian Mason, the province's minister of transportation and infrastructure.

About \$21 million is allocated for the road-bridge program, \$7 million for resource roads, \$2 million for community airports and \$5 million for local municipal initiatives.

"During this downturn in the economy, we should increase our spending on infrastructure because it keeps people working and



Rural municipalities will get \$5 million for local infrastructure initiatives. | FILE PHOTO

secondly, tenders are coming in a lot lower because there is not as much work for the companies," Mason said at the Alberta Association of Municipal Districts and Counties fall meeting, which was held in Edmonton Nov. 15-17.

The most recent figures indicate at least \$70 million per year is needed to restore bridges for the next 10 years, said Al Kemmere, AAMDC president and a councillor in Mountainview County.

"The airport program is huge," he

said. "It is not only an economic driver, but it is a link for people."

The program now provides funds to add lighting on runways so these small facilities can be used at night and in winter.

Rural municipalities are respon-

sible for 8,800 bridges, and many are 50 to 60 years old. Kemmere said these aging structures need work, and if they become unsafe they are closed.

Rural municipalities manage 77 percent of resource roads needed to get to industrial sites. These are often damaged because of heavy truck traffic. Deferred maintenance on municipal and provincial infrastructure for water, sewer, roads and bridges has turned into a major deficit for the province.

"You can't keep letting things run down and run down because you have to replace it at a higher cost," Mason said.

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POLITICS

Alta. gov't wants more women

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — The Alberta government wants more women to consider public office.

Municipal elections will be held throughout the province next year, and retiring officials should encourage women to replace them, said Stephanie McLean, the province's minister of Service Alberta and status of women.

"Women only make up 26 percent of elected officials at the municipal level in Alberta," she said at the fall meeting of the Alberta Association of Municipal Districts and Counties, which was held in Edmonton Nov. 15-17.

Government has launched an election guide for women who are considering running for office that offers tips on fundraising, campaigning and job expectations.

In the 2013 municipal election, 490 women were elected for 1,874 positions, and the government hopes to encourage more to run to create more diversity among decision makers.

"The diversity of perspectives makes for better decision making around tables," she said.

Many qualified women do not consider running for office because of the added demands on their time.

"One of the most profound barriers is work-life balance," said McLean, who is a working mother who gave birth a week after being sworn into cabinet. "In Alberta, women work an extra 35 hours per week doing household chores and taking care of others."

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Penn West is a Founding Member for Ag for Life, a program that delivers educational programming to improve rural and farm safety. Ag for Life also builds a genuine understanding and appreciation of the impact agriculture has on the lives of all Albertans. To learn more about Ag for Life, go to agricultureforlife.ca.

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Bird hunters walk near Frank Lake close to High River, Alta., looking for pheasants. | MIKE STURK PHOTO

AG NOTES

YOUNG FARMERS PARTICIPATE IN SUCCESSION PROGRAM

Ten young farmers have been selected to participate in the inaugural Successor Development Program by Farm Management Canada. The new program is part of the Bridging the Gap: Step Up to Succession initiative.

It provides an opportunity for young farmers to join FMC and take part in important industry events dedicated to farm business management and taking over the farm.

It's hoped that participants will have a better understanding of what it takes for a successful farm transfer and have access to a network of peers and experts during the transition process.

The participating farmers are:

- Albert Gorter, Manitoba
- Ashton Perry, Atlantic
- Hannah Konschuh, Alberta
- Holly White, Alberta
- Jessica Dugdale, Alberta
- Kyle Maynard, Atlantic
- Kyle Norquay, Manitoba
- Luke Adam, Alberta
- Morgan Smallman, Atlantic
- Steven Ardiel, Manitoba

For more information, visit www.fmc-gac.com/content/bridging-gap-step-succession.

FUNDING FOR APPLE, TOMATO RESEARCH

The Vineland Research and Innovation Centre in Ontario will receive \$920,000 in federal funding to develop new disease-resistant apple and greenhouse tomato varieties.

The horticultural research will contribute to the long-term growth and profitability of these two sectors.

Greenhouse tomatoes annually bring in \$516 million at the farmgate. As well, \$311 million worth of tomatoes were exported last year. Apples earned \$181 million at the farmgate in 2015 as well as \$50 million in exports.

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50 YEARS AGO

Picketing housewives told to get their priorities straight

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: NOV. 27, 1941

Saskatchewan Wheat Pool set about distributing petitions across the province that called on the dominion government to meet farmers' agricultural policy demands, but heavy snow across all parts of the province made the effort slow going as ordinary means of transportation were tied up.

Sixty-seven credit unions were now incorporated in Saskatchewan with 15 organized in 1941. Thirty-five were rural community based, 18 were occupational and 14 were associational with membership based on co-operative, racial, religious or professional affiliation.

50 YEARS AGO: NOV. 24, 1966

Larry Gray, president of Sask-



A shelter belt was seeded near Hanley, Sask., in this undated photo. | FILE PHOTO

atchewan Co-operative Creameries and a director with the Canadian Federation of Agriculture, said housewives who were protesting the high cost of living by picketing grocery stores were picking the wrong target. "I hear no complaint about the cost of a hard-top convertible, reserved seats for the football game or piped-in television, but the cost of bread; no refer-

ence to the price of a bottle of liquor or carbonated beverage, but the price of a bottle of milk; no concern about the cost of golf balls, but the cost of meat balls," he said.

Saskatchewan and Manitoba farmers had harvested one of their better crops, but few exhibits won major prizes in field crop judging at the Royal in Toronto because many

exhibits from those provinces were lost in transit due to a mix up. Alberta had better luck, and its farmers won several championships and reserves at the fair.

25 YEARS AGO: NOV. 28, 1991

Alberta Wheat Pool's profits increased 31 percent to \$7.7 million, but chief executive officer Don

Heasman said it wasn't enough to take the company into the 1990s. "As an organization our size, we need somewhere in the neighbourhood of \$25 to \$35 million a year ... to sustain capital needs for the foreseeable future," he said.

Seventy unionized grain handlers and railway workers blocked a train that was carrying barley from Vancouver to Seattle. The union members were upset with the Canadian Wheat Board's decision to start exporting grain through U.S. ports. Burlington Northern Railroad eventually won a court injunction ordering the pickets to stop holding up the train.

10 YEARS AGO: NOV. 23, 2006

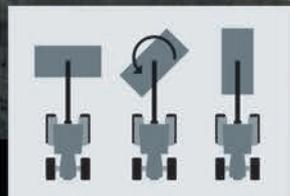
The Manitoba and Saskatchewan governments — both of NDP persuasion — planned to conduct plebiscites on the federal government's plan to eliminate the wheat board's single desk monopoly power. Ottawa was refusing to hold such a vote among prairie farmers as it moved to reform the board.

Maple Leaf Foods CEO Michael McCain stuck to his guns on the company's decision not to sell its soon-to-be-closed hog packing plant in Saskatoon. McCain said there was too much capacity in the system, and the Saskatoon plant had to close for the good of the industry.

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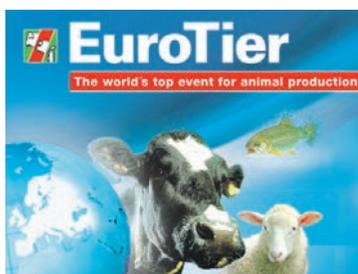


EuroTier's opening morning in Hannover, Germany draws large crowds. In the past, 160,000 people attended the giant livestock technology event. This year the show has set a new record for exhibitors with 2,629 from 58 countries, including 21 from Canada. | MICHAEL RAINE PHOTO

GLOBAL LIVESTOCK

Livestock producers squeezed by public demands

Consumers want sustainably produced food, better animal welfare standards, reduced drug use and lower food costs



MICHAEL RAINE REPORTS FROM THE EUROTIER LIVESTOCK SHOW IN HANNOVER, GERMANY.

Consumers in the developed world are exerting pressure on livestock producers to reduce their impact on the environment, cut drug use in production and introduce sometimes questionable husbandry practices.

At the same time, producers find themselves with low commodity prices, poor operating margins and increasing long-term demand.

Consumer sentiment about animal agriculture in the western world is largely based on popular media messages about poor animal environments, wasted resources and pollution from manure and field input runoff.

The world's largest livestock event, EuroTier in Hannover, Germany, has chosen to focus on these issues, addressing both the realities and the misperceptions.

"We are seeing, internationally, social influence on animal husbandry is getting stronger and all manner of different demands on farmers are being made by the broader society," said Reinhard Grandke, chief executive officer of the German Agricultural Society

(DLG), a large farmer co-operative. "Animal welfare isn't easily seen (by the public)."

He said more stringent legal, economic and social framework conditions are burdening professional livestock producers with new and rising costs of production.

"Society is increasingly criticizing modern animal production methods," Grandke said ahead of the opening of the EuroTier farming event that DLG owns.

"That is why farmers need new concepts and (tools) to make their farmers more viable in these changing conditions."

Siegfried Moder, who heads up the German veterinary association, said commercial animal agriculture could be in trouble in the next decade unless changes are made to agricultural practices.

"The public don't see the prog-

ress we are making," he said.

"It is sort of a (public) mudslinging battle (in the media), and farmers and industry are losing."

The public don't see the progress we are making. It is sort of a (public) mudslinging battle (in the media), and farmers and industry are losing.

SIEGFRIED MODER
GERMAN VETERINARY ASSOCIATION

He said it isn't enough for farmers to be producing healthy foods that consumers want. Consumers also want animals raised in ways they find acceptable, even when they aren't good for the livestock.

German farmer Simon Sedlmair recently invested heavily in a new dairy barn system from Swedish maker DeLaval.

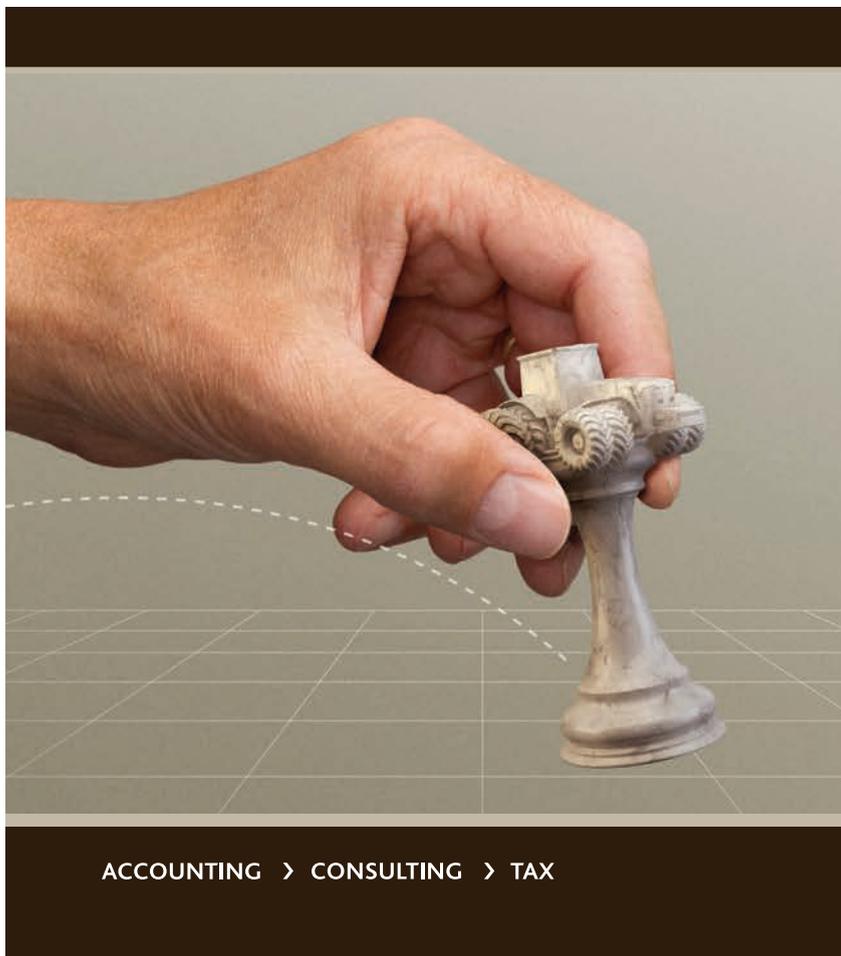
He said he did so to ensure his children could farm with him but also so that the farm would be seen as sustainable by marketplace of the future.

He said producers need to consider many factors, but they can't ignore the consumer when they build today.

Seventy-six percent of Germans say they want improved animal welfare standards.

"Whether they know what that means or whether they want to pay for it are another matter," said German Agriculture Secretary Maria Flachsbarth.

CONTINUED ON NEXT PAGE >>





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She said the federal agriculture department has been trying to counter the legislative proposals of the environment department.

"We don't just approve everything they ask for with reductions in carbon footprint and ammonia emissions, but we can't pretend they don't exist," she said through a translator. "We need to encourage farmers to use new technologies, but it has to be practical and economically affordable."

DLG president Carl-Albrecht Bartmer said consumers don't

always know what they want when it comes animal husbandry rules.

"Get a pig with a long, badly bitten tail to tell you about why tails are (docked). Practices have to be right for farmed animals," he said.

"At the same time, as farmers we have to take a hard look at ourselves when it comes to the concentrations of animals, nutrient loads on the environment and the use of drugs (antibiotics)."

Germany has dramatically reduced its use of antibiotics in livestock over the past five years, reducing medication sales from 1,700 tonnes to 800. Reduction in

the European Union has been 12 percent.

Moder said through a translator that two percent of multi-antibiotic resistant human infections that cause death are related to veterinary drugs.

Improve farm practices

However, there is still room to further reduce use with mandatory, annual veterinary herd inspections and the potential that creates to improve farm practices.

He said the new costs associated with this would be offset by new

revenue and reduced costs for producers based on herd health improvements, including longer productive lives, greater rates of gain and fewer losses.

Flachsbarth's department is considering a variety of legislative initiatives and is introducing a voluntary domestic food production labelling program for farmers who are following sustainability programs. She said she hopes consumers will pay more for livestock products that are raised to meet the yet-to-be established protocols.

Bartmer said modern farmers "need to stop smiling knowingly"

when consumers raise what notions about food production.

"We need to use that knowledge we do have to address consumer concerns and explain our practices well," he said.

He said the theme of this year's EuroTier event is based on finding solutions that farmers can use to improve their margins while reducing the negative impacts on the world around them while increasing capacity to meet global food needs.

"No small challenge," he said.

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ORGANIC ECONOMICS

Profits soar in organic soybeans, corn: economist



SEAN PRATT REPORTS FROM THE OILSEED & GRAIN TRADE SUMMIT IN MINNEAPOLIS, MINN.

Organic corn and soybean production is far more profitable than conventional, according to a U.S. Department of Agriculture analysis.

The premiums organic farmers receive for growing those crops more than compensate for the higher cost of production, said Catherine Greene, senior agricultural economist with the USDA's Economic Research Service.

Organic corn prices in the U.S.

were \$5 to \$10 per bushel higher than conventional prices from 2011-14. The cost of production for organic corn was \$1.92 to \$2.27 per bushel higher during the same time.

It was a similar story for soybeans with prices averaging \$10 to \$15 per bu. higher, easily covering the \$6.62 to \$7.81 per bu. cost increase.

Greene's conclusion is that there is "significant profit potential" in growing organic corn and soybeans versus conventional, she told delegates attending the Organic and Non-GMO Forum portion of the 2016 Oilseed & Grain Trade Summit.

Cost differences vary by expense category. An organic corn farmer pays more for capital, labour and fuel while a conventional farmer typically spends more on land, seed, fertilizer and chemicals.

It's the same situation for the soybean comparison, except the organic seed costs are lower than conventional.

"Overall, the costs are typically a little higher in organic."

She said herbicide resistance and the multiple traits required to combat that resistance are continually driving up chemical costs for conventional farmers using genetically modified seeds.

U.S. RETAIL SALES OF ORGANIC FOOD IN 2015

\$40 billion

Greene said one cost organic producers face that their conventional counterparts do not is preventing contamination from GM crops. One study estimated the median cost at \$6,500 to \$8,500 per organic farm.

The biggest cost is the practice of

delaying seeding to prevent contamination. Organic producers seed an average of one month later than conventional growers in Indiana and Missouri, three weeks later in Ohio and Iowa and two weeks later in the upper Midwest.

"It likely lowers yields because you're not planting at the optimal time," she said.

There is also the added cost of buffer strips.

The USDA asked organic farmers if they have documented proof of contamination and what it cost their operation.

"Overall, not that many farmers reported that they had economic losses from testing positive for GE," said Greene.

The average loss for those that did was \$70,009 but that number was skewed higher by cases in Texas involving high-value crops.

"That average was way higher than if you took Texas out," she said.

Organic prices are much higher than conventional because of the

double-digit annual growth in demand for organic products. Greene sees no end in that pace of growth over the next five years.

U.S. retail sales of organic food amounted to \$40 billion in 2015, or five percent of total food sales. Fresh fruit and vegetables are the top sellers followed by dairy.

That overwhelming demand is why organic corn and soybean prices are double to triple conventional prices. Greene recalls they were three to four times conventional prices in the late 1990s.

"So they have come down a little bit but overall it's still a market that has unmet demand," she said.

By comparison, the price premium for growing non-GM food grade soybeans was eight to nine percent over conventional in 2015, while non-GM feed grade soybeans fetched a 12 to 14 percent premium. She suspects those premiums will fall in 2016.

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AMERICAN PRODUCTION

Rising organic imports cause price, quality concerns

BY SEAN PRATT
SASKATOON NEWSROOM

MINNEAPOLIS, Minn. — There is a growing supply gap in U.S. organic agriculture that needs to be addressed, says a food industry consultant.

Organic exports have risen only slightly over the past five years to US\$545 million in 2015 from \$412 million in 2011. Imports have exploded over the same period to \$1.58 billion from \$667 million.

Peter Golbitz, founder of Agromeris, can understand why specialty and tropical products such as coffee and bananas are imported into the country, but he can't fathom why soybeans and corn are two of the top five imported products.

The two crops that are widely grown on conventional acres in the United States accounted for 22 percent of organic imports in 2015.

Imports of organic soybeans are

growing by 49 percent per year, while feed corn imports are increasing by 47 percent per year.

As well, these crops are increasingly being sourced from non-traditional exporters such as Bulgaria, Turkey and India.

If we continue relying on imports, we are really setting ourselves up for disaster.

PETER GOLBITZ
AGROMERIS

Imports of Indian soybeans have soared to almost four million bushels in 2015 from 290,000 bu. in 2011.

"That leaves one wondering, is all of that really organic?" Golbitz told delegates attending the Organic & Non-GMO Forum at the 2016 Oilseed & Grain Trade Summit.

Some consumer watchdog groups in the U.S. are wondering

the same thing. They are concerned about what is being fed to organic livestock and poultry.

The U.S. Department of Agriculture certifies that imports are meeting its standards, but it doesn't have inspectors on the ground in places such as India, which is making some groups nervous.

"The last thing the industry wants are consumer groups questioning this developing sector of organic livestock," Golbitz said.

Imports accounted for 40 percent of U.S. organic corn supply and 80 percent of its organic soybeans in 2015. Those numbers will rise to 50 and 90 percent, respectively, by the end of this calendar year.

Buyers bought \$352 million worth of imported organic feed products in 2015 at an average price of \$9.43 per bu. for corn and \$20.65 per bu. for soybeans.

Those prices are well below the going rate in the U.S.

"It's kind of creating a disincen-

tive for American producers to jump into the organic market."

Golbitz estimated buyers are importing the equivalent of 107,704 acres of corn and 352,459 acres of soybeans. By comparison, U.S. farmers planted 166,841 acres of organic corn and 94,841 acres of organic soybeans in 2015.

If the U.S. were to be self-sufficient, farmers would likely need to plant one million acres of organic corn and soybeans next year.

Golbitz said that would still be far less than one percent of total U.S. corn and soybean acres.

"Certainly there is plenty of opportunity here to grow this production," he said. "There's no reason why we cannot be producing this all in our own backyard."

However, that isn't going to happen in the short-term. There were 141,859 acres of cropland in transition in 2015, and much of that will be planted to other organic crops such as oats, wheat and beans.

Golbitz said it is a dangerous strategy to rely on imported product because of problems with quality and consistency, questionable certification and complicated supply logistics.

It is also dangerous because the imported product is driving down prices. He gets calls from Indian exporters offering organic soybeans for \$17 a bu. when U.S. farmers are hoping to get \$22 a bu.

Increasing domestic supply has its challenges, including the three-year transition period, competition from the non-GMO market, the lack of skilled labour.

Golbitz thinks one of the key elements to a solution is to create certified transitional programs in which buyers pay growers a premium during the transition years.

"If we continue relying on imports, we are really setting ourselves up for disaster," he said.

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Classified Category Index

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ANNOUNCEMENTS 0200

AGM AND CONVENTION, for Assoc. of Canadian Custom Harvesters will be held at the Saskatoon Inn Hotel & Conference Center Nov. 30th - Dec. 2, 2016 Saskatoon, SK. For more info contact Lynn Prevost at 1-866-226-6610.

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ANTIQUES

ANTIQUE AUCTIONS 0701

ANNUAL PRE-CHRISTMAS ANTIQUES & COLLECTIBLES AUCTION: 10 AM, Sat. December 10th, 801 Buxton St., Indian Head, SK. Viewing: 5-7 PM, Friday, December 9th. On offer: Fine antique furniture; Toys; Jewelry; Glassware; Coal oil lamps; Hippo & Buffalo solid oil tins; Cast aluminum horse; Many other items. Call Brad 306-551-9411, www.2sauctioneers.ca PL# 333133.

AUCTION SALE OF Tobacco & Collector Tin Collection, Antique Toys & Signs, 10 AM, Saturday, Dec. 3, 801 Buxton St., Indian Head, SK. Viewing: 5-7 PM, Friday, Dec. 2. Including 100s of tobacco tins, advertising items & paraphernalia, clocks, & much more. Brad 306-551-9411. PL# 333133. www.2sauctioneers.ca

NELSON'S AUCTION SERVICE, Retirement Dispersal Auction for Nelson's Auction Service, Saturday December 10th, 2016, 10:00AM, Nelson's Auction Center, Meacham, SK. For more info visit: www.nelsonsauction.com or call 306-376-4545. PL# 911669.

ANTIQUE EQUIPMENT 0703

JD TRACTORS: JD 70 diesel, JD R, JD 830, JD AR, and JD M. All running. Call 780-871-4300, Lloydminster, SK.

TRACTOR AND MACHINERY DVD's for Christmas giving! Over 270 titles. www.diamondfarmcanada.com or call 1-800-481-1353.

BOOKS AND CALENDARS are great gifts for Christmas. Book selection include History and Memories of IH Canada, Red Combines, Red Tractors, International Scout, Putt Putt books, Heavy Equipment books, Ford F Series Pickups and many more. 2017 Calendars are here. They include Classic Farm Tractor, Steam Engines, Putt Putt Collection, Farmall IH, Vintage Tractors, Caterpillar, Keeping Chickens, 2017 Tractors and many more. New DVD's: AC Spectacular, Red Tractor Power, Classic Farm Tractor at \$29.95 and many more to choose from. Manual and Decal sets for older tractors and gas engines. Canada's First Steiner Dealer! "New Parts For Older Tractors" Please phone or fax orders to **Haugholm Books, RR 1, 40372 Mill Rd, Brucefield, ON, N0M 1J0. Ph. 519-522-0248, fax 519-522-0138. Merry Christmas and the best in 2017.**

ADRIAN'S MAGNETO SERVICE. Guaranteed repairs on mags and ignitors. Repairs. Parts. Sales. 204-326-6497. Box 21232, Steinbach, MB. R5G 1S5.

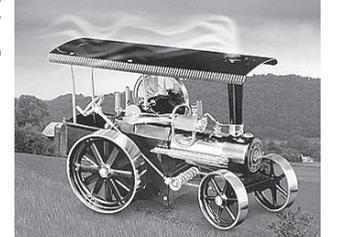
1937 COCKSHUTT 10' tiller combine disc seeder, including seed boxes, all on steel, exc. cond. Call 306-259-4430, Young, SK.

HORSE DRAWN SLEIGHS, collars and harness. 1930 McLaughlin cutter, spring wagon, doctor buggy, bobsleigh bunks, homemade sleigh, \$5000. 403-783-5707, Ponoka, AB. Email dkoopman@platinum.ca

FERGUSON TEA20, good tin, runs, needs work, c/w TE parts tractor, \$1800. Call 306-682-3272, Humboldt, SK.

INTERNATIONAL HARVESTER stationary eng., 3-6 HP, blacksmith forge, most units in vg. cond. 306-342-4968, Glaslyn, SK.

ANTIQUE EQUIPMENT 0703



WORKING STEAM TRACTORS: Great for Christmas giving! Engine runs 15 minutes per fueling. D405 regularly \$539.94, on sale for \$359.95; D10 stationary steam engine, with forward/reverse control and working whistle, regularly \$359.94 on sale for \$259.15. Shipping \$24.95 flat rate. www.yesteryear toyscanada.com 1-800-481-1353.

ANTIQUE Misc. 0710

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

PIAPOT LIONS 20th Annual GUN AND HOBBY SHOW with antique tables upstairs, Sat., Nov. 26, 10:00 AM - 5:00 PM and Sun., Nov. 27, 10:00 AM - 3:00 PM at the Maple Creek Armories. Admission \$4. Lions food booth. Info call 306-558-4802.

WANTED: ITEMS USED in original grain elevator offices, incl. very old grain tester-Bunsen burner, old photos. Call 780-753-6761, Provost, AB.

VILLAGE MERCANTILE ANTIQUE MALL: Purveyors of all manner of antiques. Appraisals, estate sales, buying and selling, tractors, collectibles, trucks, cars and bikes. If you would like us to come check out your treasures, give the Prairie Picker a call! 780-845-9167, Wainwright, AB.

FIVE ROSES FLOUR ADVERTISING wanted. Looking to buy advertising signs, thermometers, calendars and any other items from Five Roses Flour and Lake Of The Woods Milling Company. 306-294-7001, 306-778-1231 cowboyjunkys@hotmail.com

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November 30 • Registration Evening

December 1 • Machinery Trade Show at CNH Training Centre, Saskatoon

December 2 • Speakers on a variety of issues as well as a banquet and Annual Auction, Saskatoon Inn

December 3 • Breakfast and Goodbyes

The Annual General Business Meeting of the Association of Canadian Custom Harvesters will be held at Saskatoon Inn Hotel and Conference Centre, Saskatoon, SK., December 2nd, 2016.

Any farmer, Custom Ag operator, & members are encouraged to attend our Machinery Trade Show at CNH Training Centre to discuss information pertaining to all aspects of custom work.



Any information required please contact
Lynn Prevost, Executive Secretary at
306-322-8200 or 306-322-7901

FORAGE SEED INFORMATION SESSION, Sask. Forage Seed Annual Update. Research and Market Info. Thursday, December 1, 2016. 1-4:30 PM. Evergreen Centre, Nipawin, SK. No charge. 306-789-1958. Email: sfsdc05@gmail.com Visit our website: www.skforageseeddc.com

ALARMS/SECURITY SYSTEMS 0500

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GIFT & GARDEN
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Real Estate: Trenholm Home Quarter Section - Goodeve, SK; Farmland - RM of Canwood, SK; Property & Shop - Lanigan, SK; 4 Acre House & Shop Near Pilot Butte, SK; House - White Fox, SK; Hendrickson Acreage - Palmer, SK; House & Acreage - Frankslake, SK; Great Commercial Opportunity - Shell Lake, SK; 2 x Up/Down Duplexes - Regina, SK; Vacant Lot - Emerald Park, SK; Mobile Home near Odessa, SK.

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Saskatoon, SK
Monday, November 28 | 8 am



2006 Case IH STX 480



2012 New Holland T9.505HD



2014 John Deere S690 RWA



2006 John Deere 7520



1 of 3-2014 Case IH WD1903 36 Ft



1 of 3-2013 John Deere W150 40 Ft



2009 Volvo EW180C 4x4



2008 Bomag BW177PHD-40



1 of 2-2010 Kenworth T800



2009 Western Star 4900FA



2008 Seedmaster 6612 66 Ft & 2009 Bourgault 6350



2011 Bourgault 6350



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Entertainment Crossword
 by Walter D. Feener

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Last Weeks Answers

S	E	D	U	C	E	D	M	O	N	T	A	N	D	
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Y	O	L	A	N	D		K	E	A	R	N	E	Y	

ACROSS

- She played flight attendant Nancy Hoffman in *Non-Stop*
- Film starring Drew Barrymore and James Woods (2 words)
- Actress Russo
- 1958 moonshine movie (2 words)
- She plays a young Queen Elizabeth II on the Netflix series *The Crown*
- ___ to the Night (1956 film)
- Two ___ Sea* (2 words)
- Film starring Daveigh Chase and Briana Evigan (2 words)
- She played Wendy Simms on *CSI: Crime Scene Investigation*
- Steve's physician on *The Six Million Dollar Man*
- Doc's first name in *Back to the Future*
- ___ and the Flash
- Applebee's waitress on *Friday Night Lights*
- 1989 film starring Bridget Fonda and Phoebe Cates
- Okamoto who played the female lead in *The Wolverine*
- 1980 Jack Nicholson film (with *The*)
- 2010 Gemini Award winner for Best Actress in a Drama Series for *Cra\$h & Burn*
- Kane who plays Rose Stagg, the ex-girlfriend of Paul Spector on *The Fall*
- Actor Wallach
- Xena's daughter
- ___ Vincent
- Clair van ___ Boom
- ___ for Schmucks
- Tammy who was married to Christopher Plummer
- Where ___ Dare
- She plays Grandma Huang on *Fresh Off the Boat*
- Dirty Harry's last name

DOWN

- She played Jane Banks in *Mary Poppins*
- Private investigator played by John Candy
- Wahl of *Wiseguy*
- ___ of Watch
- Donovan's ___* (1963 film)
- ___ *Sharkey* (Don Rickles sitcom of the 1970s)
- He played dentist Noah Werner on *Suburgatory*
- A Letter for ___* (1946 movie)
- Rebecca's best friend in *Ghost World*
- She starred in *The Graduate*
- Honey's last name in *Dr. No*
- 2014 film starring Michael Pitt and Brit Marling (2 words)
- Canadian who played Cato in *The Hunger Games*
- Freeman who played Haleh Adams on *ER*
- Australian film producer Davies
- Comin' ___!* (1981 3-D western) (2 words)
- He starred in and directed *The Wedding March* (1928)
- Sitcom role for Borgnine
- ___ of the Corn
- Adelaide from Australia
- He starred in *Breaking Point*
- One way to watch movies
- Hardwicke from England
- Genius orangutan in *Battle for the Planet of the Apes*
- He played the director, Thomas Leroy, in *Black Swan*
- Canadian who played Jenna in *Wrong Turn 4: Bloody Beginnings*
- Actress Merrill
- The ___ of Adaline

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TRAILERS 1505

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Misc. Trailers 1515

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2017 BIG TEX trailer goosenecks: 25, 30' and 33' with mega ramps, 23,900 lbs. GVWR. Start price, \$12,495, incl. free spare. Jason's Agri-Motive, Lafleche, SK., 306-472-3159. www.jasonsagri-motive.ca

2016 Teton Sport Highmark Blackout new snowmobile trailers. \$17,900-\$26,900. D&D Vehicle Sales. Call 780-672-4400 or 1-888-460-2983, Camrose, AB.

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15 ETNYRE BLACK HAWK combine trailer, 10'W, tridem lift axles, alum. wheels, pull-outs, offers. 780-720-4304 Willingdon, AB

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2008 WABASH 51' tandem axle dry van, low miles, current SK. safety, \$12,500. Call Larry at 306-563-8765, Canora, SK.

14' TANDEM UTILITY flatdeck w/ramps, 12,000 lbs. GVW, new safety, \$3750 OBO. 204-794-5979, Springfield, MB.

TOPGUN TRAILER SALES "For those who demand the best." **PRECISION AND AGASSIZ TRAILERS** (flatdecks, end dumps, enclosed cargo). 1-855-255-0199, Moose Jaw, SK. www.topguntrailersales.ca

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2017 RAM CUMMINS diesel Dually Crew SLT 4x4, \$60,775. Call 1-800-667-4414, Wynyard, SK. www.jackmallymotors.ca

2016 CHEV 1500 LTZ Z71 pkg., fully loaded, heated/cooled seats, 22" wheels. Auto Gallery Subaru, 306-525-6700, Regina, SK. www.autogallery.com DL #917632.



2006 CHEV 1500, longbox, regular cab, V6, very clean, only \$6500. Call 306-946-8522, Saskatoon, SK.

1996 DODGE 1500, ext. cab, 4 door, 318 V8, air, very good runner, only \$1995. Call 306-946-8522, Saskatoon, SK.

FOUR WHEEL DRIVE 1670



2007 FORD F150, 4 dr., V8, boxliner, fully equipped, 211,000 kms, exc. cond., only \$7950. Call 306-946-8522, Saskatoon, SK.



2007 GMC 2500 Duramax, extended cab, shortbox, 4x4, 164,000 kms, 2nd owner, very nice condition, \$22,000 + GST. Call Larry 306-221-4563, Perdue, SK.

2008 DODGE DUALLY 3500 ST crewcab, 4x4 dsl., A/P/T/C, PV, PL, exhaust brake, EGR and DEF deletes, tuner installed, 6 spd. manual, 199,800 kms, good shape, \$18,500. 780-205-2532, Paradise Valley.

2012 CHEV LT, ext. cab, 5.3L, 14,000 org. kms, shedded, many extras, \$29,500. 306-764-7865, Prince Albert, SK.

2015 RAM 3500 LTD. HD, dsl., 4x4, fully loaded, heated/cooled leather, NAV. Auto Gallery Subaru, 306-525-6700, Regina, SK. www.autogallery.com DL #917632.

2015 RAM LARAMIE Eco diesel Crew. PST paid, \$46,900. www.jackmallymotors.ca 1-800-667-4414, Wynyard, SK.

2016 NISSAN TITAN XD Platinum, 5.0 dsl, loaded, heated steering wheel, NAV, leather. Auto Gallery Subaru 306-525-6700, Regina, SK. www.autogallery.com DL #917632

2016 RAM 1500 Sport, crewcab, 4x4, 20" wheels, loaded, U connect, remote start. Auto Gallery Subaru 306-525-6700 Regina, SK. www.autogallery.com DL #917632.

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GRAIN TRUCKS 1675

1992 PETERBILT, 425 Cat, 18 spd., 20' BH&T, excellent condition, \$60,000 OBO. 306-561-0210, Davidson, SK.

2001 WESTERN STAR 5900, 891,000 kms, 470 Detroit, 13 spd., 4.11, diff. lock, new Canade 20' box, new tarp, new paint, \$59,900. Call 306-533-6397, Regina, SK

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1998 KENWORTH T800, new grain box, Detroit engine, 60 Series, 10 spd. trans., \$48,000. 204-325-5677, Winkler, MB.

2002 IH 2600 w/B&H; 2009 Mack Auto-Shift, B&H; 2009 IH ProStar 8600, Cummins eng, AutoShift, B&H. Call Merv at 306-276-7518 or 306-776-2616, Arborfield, SK. DL #906768



2002 KENWORTH T800 w/new grain box, rebuilt engine and turbo with warranty. \$68,000. 204-325-5677, Winkler, MB.

2004 PETERBILT 330, tandem axle, C&C, long WB, Cat dsl., 10 spd trans, AC, low miles, alum. wheels, \$26,900, w/new B&H \$48,900. K&L Equipment and Auto. Ph Ladimer, 306-795-7779 Ituna. DL#910885

2007 IHC 9400, ISX Cummins, 435 HP pre-emission 10 spd., 20' CIM BH&T, safetied, \$47,900; 2006 Kenworth T800 C13 Cat, 13 spd., jakes, lockers, 20' BH&T, safetied, \$34,900. Cudworth, SK., call 306-256-3569, 306-230-4393. DL #17908

2007 WESTERN STAR 4900SA tri-drive, C15 Cat, 550 HP 18 spd., full lockers, new 24' CIM B&H. 306-270-6399, Saskatoon, SK. www.78truxsales.com DL#316542.

2009 FREIGHTLINER, 10 spd., Eaton Auto-Shift w/clutch, DD15 Detroit w/20' BH&T; 2008 tandem IH 7600, Cummins, 10 spd., new BH&T; 2004 Pete 330 S/A, Cat Allison auto. w/new 16' BH&T. Ron Brown Imp. 306-493-9393, DL 905231 www.rbisk.ca

2009 MACK, 460 HP, AutoShift trans., new BH&T, real nice shape, \$71,500; 2007 Kenworth, C13 425 HP Cat, AutoShift trans., 13 spd., new 20' BH&T, \$71,500; 2002 IHC 1654, 350 HP IH engine, 10 spd. trans., new 20' BH&T, 220,000 kms, \$49,500; 1990 Kenworth T600, 450 HP Detroit, 10 spd., alum. front wheels, good tires, pulls good w/1996 36' Canade 2 hopper grain trailer, nice shape, \$35,000. Trades accepted. Merv at 306-276-7518, 306-767-2616, Arborfield, SK DL #906768

3- 2007 MACKS, 10 spd. Eaton auto, new 20' CIM B&H, fresh Sask. safeties. Call 306-270-6399, Saskatoon, SK. DL#316542. www.78truxsales.com

ALLISON AUTOMATIC TRUCKS: Several trucks with auto trans, available with C&C or grain or gravel box. Starting at \$19,900. K&L Equipment, 306-795-7779, Ituna, SK. ladimer@sasktel.net DL #910885.

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2012 IHC TRANSSTAR, low pro, Max 300 HP diesel, Allison auto trans, loaded cab, 13' Armstrong landscape dump, \$39,900. 2007 FORD F550 4x4, 6L diesel, 7 spd. std., loaded cab, 14' Armstrong landscape dump, 54,000 orig. kms, \$29,900. Trades considered. K&L Equipment and Auto. Ladimer, 306-795-7779, Ituna. DL910885.

NEW CANUCK GRAVEL TRAILERS: 1999 Arne's tridem end dump, clean; 1996 IH 9400, 60 Detroit, 10 spd, 16' gravel box, alum rims. Ron Brown Imp. 306-493-9393, DL 905231 www.rbisk.ca

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SEMI TRUCKS 1677

2005 IHC 9200 daycab tractor, Cummins ISX 400 HP, 13 spd. trans, 40,000 rears, 967,000 kms, \$13,900. K&L Equipment and Auto. Ph. Ladimer, 306-795-7779, Ituna, SK. DL#910885.

SEMI TRUCKS 1677

2005 IHC 9900i 450 ISX Cummins, 13 spd, 290 rears, 12 fronts, eng. and bunk heaters, headache rack, 22.5 rubber, 1.2 kms, \$19,500 OBO. 306-783-7547, Yorkton, SK.

2005 PETE 378, pre-emission, C15 Cat, 18 spd., full lockups, flat-top, winch, safetied, \$37,500. 306-563-8765, Canora, SK.



2006 FREIGHTLINER 455 HP Detroit, 10 spd., 400,000 kms, fresh safety, \$24,900. Cam-Don Motors, 306-237-4212, Perdue.

2009 T660 CHROME Kenworth, 11-22.5 tires, 490 HP Cummins, AutoShift, Aero-Cab, \$36,000. 306-786-6510, Yorkton, SK.



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2010 IH PROSTAR, 500HP, Cummins, 18 spd., 46 rears, new drivers, Jake/3-way lockers, fresh safety, \$52,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2013 PETERBILT 388. I have for sale 3 complete units all identical 2013 Peterbilt 388 with all alum. 2013 Mack tri-axle end dumps. Trucks have new tires and are in very good cond. Trailers are fully loaded with elec. tarp liners and all UC have been redone ie brakes, drums, susp. washers. They're mint. Hoping to sell as complete units. \$25,000 kms, \$150,000. Email me for pics. Call 306-233-7084, Domremy, SK. isyboutin@gmail.com



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TWO 2008 PETERBILT 379's for sale: 1,338,250 kms, 500 Cummins ISX, engine EGR delete, 18 spd, Super 40's, \$62,900; 1,295,693 kms, 500 Cummins ISX, 18 spd, grill guard, \$65,900. Both trucks are tan colored. Contact Bob at 403-888-8583.

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2002 INTERNATIONAL 4700 sanitation truck, side load, IH 466, RH/LH drive, air brakes, Haul-All receptacle, \$17,900. www.combineworld.com 1-888-278-4905



2014 F550 FORD, w/Maxon, 1650 lbs., 144"x90" deck with lift/gate, 6550 miles, mint condition, \$42,500 OBO. Call 204-981-3636, Cartier, MB.

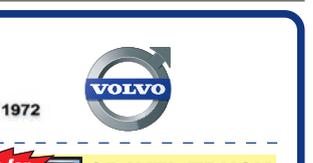
1993 F700 TOW TRUCK, fully equipped 10 spd. Cummins, excellent condition, \$24,900. Bro Ag Sales, 306-441-2030 anytime, North Battleford, SK.

2008 F350 4 door, dually, 4x4, c/w DewEze bale deck, 6.4 litre diesel, 180,000 kms, \$29,500. 306-662-7902 or 306-662-3769.

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2007 FREIGHTLINER M102: 22' body set up as rolling shop for service/installation of grain, seed plant and feed mill equipment. Choose the tooling you need from a list including: Welder; Plasma; Shear and brake; Iron work. 204-228-2842, Brandon, MB. pedersensfieldservices@gmail.com

1994 IH, BULK FEED truck, 14T Fontaine, all aluminum, 4 bin tank, tandem, 13 spd, w/feed PU capability, 430,000 kms, \$27,500 OBO. Phone 604-644-7311, Surrey, BC. Email: darylandlynn@shaw.ca



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2016 17' RENN Tri-Axle with Air Ride and Electric Tarp



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2012 Western Star 4900 EX, DD15, 565 HP, 18 spd, 13,000# F/A, 46,000# R/A, Four Way Lockers, Good Rubber, 699,000 kms, Stk#TR21533A \$79,000



2013 Freightliner Coronado, D15, 515 HP, 18 spd, 12,500 # F/A, 46,000 # R/A, 824,000 kms, TRU21637 \$79,900



2014 VOLVO 730, D16, 550 HP, I-shift, 13,200 # F/A, 46,000 # R/A, 490,000 kms, TR21529A \$95,000

SPECIALIZED TRUCKS 1680

2007 CHEV C6500, 2 WD, Duramax dsl., 7 spd. trans, 20' flatdeck w/winch, only 152,000 kms, \$21,900. 2008 Dodge 3500, 2 WD, Hemi gas engine, auto trans, 16' flatdeck, 178,000 kms, \$19,900 OBO.

2001 STERLING 9500, tandem water truck, 4500 gal. tank, C12 Cat, 13 spd., Bowie pump, \$22,900; 1998 FREIGHTLINER FL80, tandem water truck, Allison trans, 3200 gal. water tank w/Honda GX160 pump, 293,000 kms, \$21,900. Trades considered. K&L Equipment and Auto. Ph. Ladimer, 306-795-7779, Ituna, SK. DL#910885.



2014 IHC TERRA-STAR, 4WD, 105,370km, Hiab 7400lb crane, 7' flat deck w/ 5th wheel, tool locker, hyd. outriggers. \$46,800 1-888-606-6362. www.combineworld.com



2009 FORD F350, 2 WD, V10, auto, air, tilt, 13' deck w/toolboxes, power tailgate, 65,000 kms, \$16,800. Ph. 306-270-5951, Martensville, SK.

1999 IH 4700, SA, flatdeck w/17' steel flatdeck, 11x22.5 tires, 230,000 kms, 444 IH dsl., 10 spd., safetied, real good shape, \$19,500; 1994 GMC Topkick tandem w/24' flatdeck, 563,000 kms, 3116 Cat diesel, 10 spd., 11x22.5 tires, real good shape, \$21,500. Call Merv 306-276-7518, 306-767-2616, Arborfield, SK. DL 906768.



2016 DODGE RAM 3500, Cummins 6.7 dsl., LWB, auto, trans., CB300 hydra deck bale deck, gooseneck hitch, work lights, remote hyd operation, 11'10" deck length, 825 kms, \$74,999. DL #300940. 403-526-6944, Medicine Hat, AB. sales@citychrysler.com www.citychrysler.com

2013 FORD ESCAPE SEL, leather, Nav, heated seats, 80,000 kms, very good cond, \$19,900. Sask tax paid. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

SPORT UTILITIES 1682



2013 FORD ESCAPE SEL, leather, Nav, heated seats, 80,000 kms, very good cond, \$19,900. Sask tax paid. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2013 TRIBECA, fully loaded, 7 pass., back up camera, Bluetooth, leather. Auto Gallery Subaru 306-525-6700, Regina, SK. www.autogallery.com DL #917632.

2014 FORESTER XT, 250 HP, fully loaded, panoramic sunroof, heated leather seats. 306-525-6700 Auto Gallery Subaru, Regina SK. www.autogallery.com DL #917632.

2015 NISSAN Rouge SV, push button start, 7 pass., loaded, NAVI, blind spot. Auto Gallery Subaru 306-525-6700 Regina, SK. www.autogallery.com DL #917632.

2016 JEEP CHEROKEE North 4x4 75th Anniversary, \$32,136. Call 1-800-667-4414, Wynyard, SK. www.jackmallymotors.ca

2016 OUTBACK LIMITED Tech, as new cond., NAV, leather, Eye Sight Technology. 306-525-6700 Auto Gallery Subaru, Regina SK. www.autogallery.com DL #917632.

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SPORT UTILITIES 1682

2017 OUTBACK LIMITED Tech, blind spot, heated steering wheel, 7" touch screen, 306-525-6700 Auto Gallery Subaru, Regina SK. www.autogallery.com DL #917632.

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NEW BATCO 1545FL field loader with mover w/EFI Kohler engine. Reg. \$29,000, Cash \$23,000. Only 1 left; One used 2013 1545FL Batco, exc. cond., \$17,000 cash. 306-648-3622, Gravelbourg, SK.

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OPI GRAIN MANAGEMENT Systems. Call Wentworth Ag 1-877-655-9996 ask about our specials. www.grainequipment.com Email: wentworth@grainequipment.com

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2011 4520 1-bin, 70' booms, \$145,000; 2-2010 Case 4520's, 70' booms: 3-bin, 3100 hrs., \$168,000; SPECIAL- 2010 Case 4520, 1-bin, 5100 hrs., \$98,500; 2-2007 Case 4520's, 3-bin, 70' booms, 3300 hrs., AutoSteer, \$134,000 and \$98,000; 2006 Case 4510, AutoSteer, FlexAir 70' booms, 7400 hrs., \$77,000; 2005 Case 4520 w/70' FlexAir, 4000 hrs., \$78,000; 2004 Case 4010, 80' SPRAYER, 7000 hrs., \$58,000; 2- 2004 Loral AirMax 1000s, 70' booms, immaculate, \$76,000 and \$93,000; 2006 2-bin AgChem, 70' booms, \$58,000; 2002 KBH Semi tender, self-contained, \$32,000; 2009 and 2012 Merritt semi belt tender, self contained, \$32,000 and \$42,000; 2- 24 ton Wilmar tender beds, \$17,500 ea.; 2012 Wilmar Rangler 4560, 780 hrs., \$28,500; 2009 Rangler, 2400 hrs., \$23,500; 1974 10,000 gal. NH3 transport, \$38,500; 18,000 gal. NH3 holding tank, \$34,500. USD prices. 406-466-5356, Choteau, MT. www.fertilizerequipment.net

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GRAIN AUGERS 4115

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SAKUNDIAK 8x1400, Onan, Wheatheart SP kit and clutch, used very little. 306-493-9393, Delisle, SK.

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SWATHERS 4145

1998 WESTWARD 9300, 25', c/w 972 header, PU reel, 2 speed, 3530 hrs, exc., \$29,500. 780-352-3012, Wetaskiwin, AB.

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30' UII PICKUP REEL for CI or MF swather. Call 306-960-3000.

SWATHERS 4145

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H/H VARIOUS 4151

NH 1033 BALE wagon; Massey 124 baler; Wheel rake; McKee forage Harvester; Bale spear; 36' PT swather. 306-283-4747, 306-220-0429, Langham, SK.

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COMBINES 4160

CASE/IH 4160

2012 CASE/IH 9230, 997 sep. hrs, 3016 PU, internal chopper, power folding hopper, duals, 262 reciever, AutoSteer, lateral tilt, Y&M, Pro 700, very good condition, asking \$280,000. 306-436-7600, Milestone, SK. g.m.henry@sasktel.net

1996 2188, 1015 PU, 30' auger header, 2800 sep./3287 eng. hrs, exc. cond., always shedded. Will trade for bred bison. 780-888-2245, 780-888-1217, Hardisty AB

1997 CASE/IH 2188, 3000 sep. hrs., auto HHC, chopper, vg tires, rock trap, long auger, 1015 PU header, excellent condition, \$25,000. 306-861-4592, Fillmore, SK.

1994 1688, 4300 eng. hrs., newer sieves, rails, feeder house, and bushings, \$20,000 OBO. 306-220-1533, Saskatoon, SK.

2- 2013 CASE/IH 7230s, 1123 sep. hrs and 1114 sep. hrs, 1 owner, shedded, 3016 PU heads, internal choppers, power folding hoppers, duals, 372 reciever AutoSteer, Y&M, Pro 700s, exc. cond., asking \$270,000 each. Call 306-436-7600, Milestone, SK. g.m.henry@sasktel.net

1997 CIH 2188, hydro, chopper, w/PU platform, many updates, 3400 sep. hours. After season sale \$24,900. Reimer Farm Equipment, #12 Hwy N, Steinbach, MB. Gary Reimer, 204-326-7000. Visit: www.reimerfarmequipment.com

2007 7010 Case/IH, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 CASE/IH 8120, 1450 hrs., c/w 2016 PU and 36' Honeybee. Many new parts. \$250,000 OBO. 780-305-3547, Vega, AB.

2010 CASE/IH 7120, 2016 PU header, long auger, always shedded, field ready, 1167 hrs., exc. cond., \$165,000 OBO. Call Jim at 403-575-0069, Coronation, AB.

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; 2009 7088 w/2016 PU header, \$180,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

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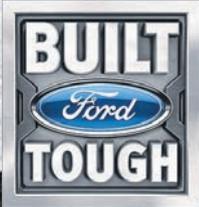
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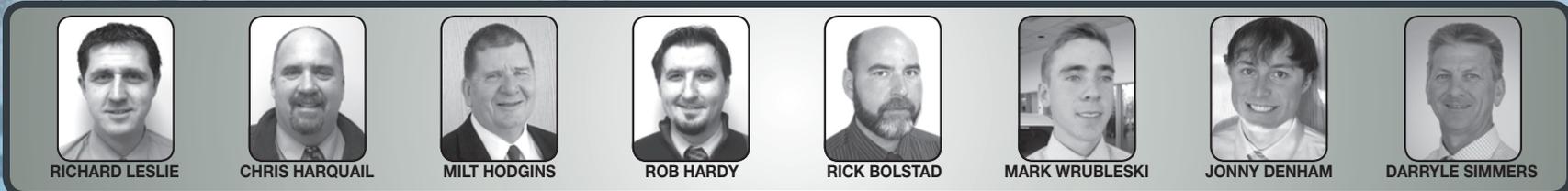
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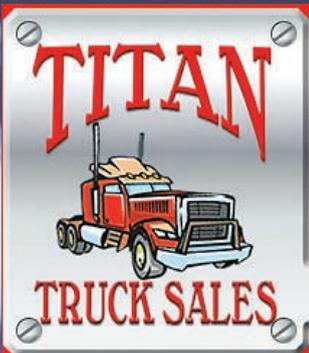
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2013 MACK CXU613



505 HP Mack MP8, 18sp, 12 front 46 rear, 4x4 diff. locks, 3:91 gears, 24.5" alloy wheels, 244" WB, 280,827 km

\$69,000

2010 FREIGHTLINER CASCADIA



500 HP Detroit DD15, 18 sp, 12 front super 40 rear, 4x4 diff. lock, 4:10 gears, 220" WB, 986,500 km

\$43,000

2007 FREIGHTLINER SD



515 HP Detroit, 18 sp, 16,000 lb front 46,000 lb rear, 191" WB, 22.5" alloy wheels, 4x4 diff. locks, 4:30 gears, 1,087,686 km

\$29,000

2012 KENWORTH W900L



500 HP Cummins ISX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 244" WB, 663,904 km,

\$79,000

2011 MACK CXU613



445 HP Mack MP8, 18 sp Mack, 12 front 40 rear, 24.5" alloy wheels, 222" WB, 3:90 gears, 1,091,290 km.

\$39,000

2012 KENWORTH W900B



500 HP Cummins ISX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 236" WB, 826,742 km

\$69,000

2012 KENWORTH W900B



500 HP Cummins ISX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 236" WB, 832,553 km

\$69,000

2014 MACK CXU613



445 HP MP8, 18 sp, 12/40, 3:55 gears, 22.5" alloy wheels, 224" WB. 3x4 diff. locks, 454,332 km

\$77,000

2012 KENWORTH W900L



500 HP Cummins ISX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 236" WB, 826,742 km

\$79,000

2012 KENWORTH T660



485 HP Paccar MX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 228" WB, 816,785 km

\$50,000

2013 KENWORTH T800



500 HP Cummins ISX, 18 sp, Eaton Autoshift, 12 front super 40 rear, 22.5" alloy wheels, 224" WB, 4x4 diff. locks, 4:10 gears, 930,364 km

\$53,000

2012 PETERBILT 388



450 HP Cummins ISX, 18 sp, 12 front 40 rear, 3x4 diff. locks, 63" bunk, 244" WB, 22.5" alloy wheels, 3:90 gears, 781,522 km

\$69,000

2007 PETERBILT 379



430 HP Cat C13, 10 sp, 22.5" wheels, 12/40, 3:70 gears, 208" WB, 36" flat-top bunk, flex air suspension, wet kit, 1,299,607 km

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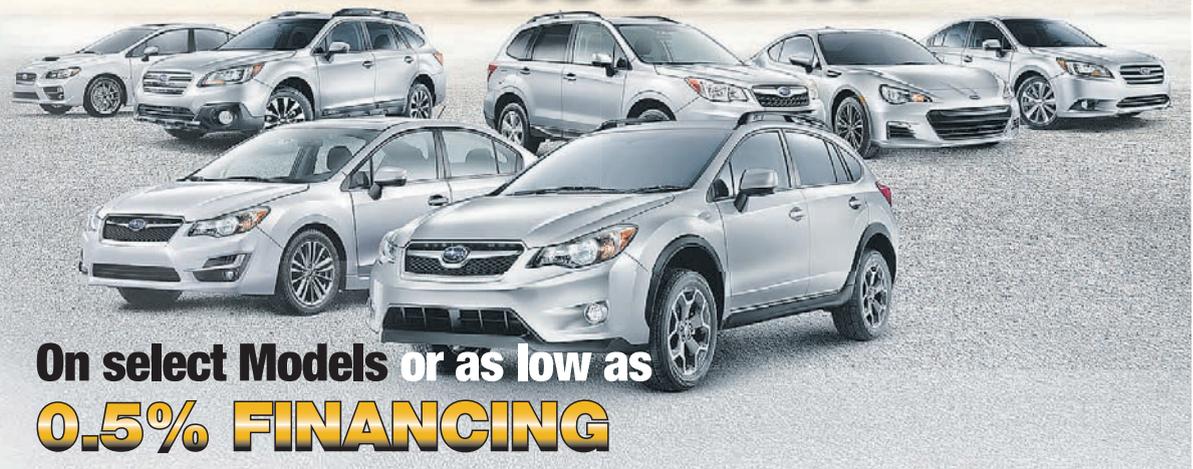
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2002 BOURGAULT 5710 47', 10" spacing, MRB's, Dickey John autorate, c/w 2320 w/3rd tank, seeds 220 acres of canola per fill, \$42,000. 306-873-8301, Tisdale, SK.

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2010 65' 3310 BOURGAULT Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$145,000. 2002 49' Morris Maxim air drill, 12" spacing, w/7240 Morris grain cart, \$52,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

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NEW VERSATILE SD550 offset disc, 15', 550 lbs./ft., spring cushion gangs, HD bearing option, 26"x3/8" notched. Cam-Don Motors, 306-237-4212, Perdue, SK.

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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.kellohoughs.com Call: 1-888-500-2646.

TRACTORS

CASE/IH 4286



CASE/IH MX 110 with Buhler 795 hyd. self levelling loader, LHR, 3PTH, plumbed for grapple, rebuilt powershift trans, 9400 hrs., MFWD, 110 HP S/N JJA0113932, vg working, \$42,000 OBO. Call 204-743-2324, Cypress River, MB.

Take a Look

1981 CASE 2290, 6823 hrs., Bourassa 3 PTH, new Farm King 96" snowblower used 2 hours, FEL/bale spear, good rubber, shedded. Will sell w/wo attachments, \$19,800 for all. 306-222-0041, Saskatoon.

2008 CASE 165 Puma with loader and grapple, good cond., \$65,000. 306-547-5430, Endeavour, SK. rs.young@sasktel.net

1981 4890 Case 4 WD, 325 HP, PTO, 4 remotes, drain line for air drill, rebuilt injectors and fuel pump, engine bearings, rebuilt powershift 250 hrs ago, 20.8-34 tires new in 2013, LED lighting, vg cond., 6620 hrs, \$22,500 OBO; 1983 4890 Case 4WD, 325 HP, PTO, 4 remotes, drain line for air drill, rebuilt injectors and fuel pump, engine bearings, rebuilt powershift 100 hrs ago, 20.8-38 about 60%, good condition, 6240 hrs., \$18,500 OBO. Both tractors well maintained, all oils and filters have been changed this fall. 204-648-7136, Ashville.

CASE/IH 4286

1998 CIH STEIGER 9390, 425 HP, approx. 6500 hrs., 850 Trelberg duals, 24 spd., vg cond., \$89,000. 306-948-7223, Biggar, SK.

1983 CASE 2290 w/Leon 707 FEL, 4700 hrs., rebuilt PS and diff, 4 remotes, dual PTO, good tires, duals, \$19,500. Prince Albert, SK. 306-922-8155, 306-960-3230.

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.

1984 IHC 5088, 130 HP triple hyds., dual PTO, \$18,000. 204-525-4521, Minitonas, MB. www.waltersequipment.com



2008 CIH 485QT, 485hp Iveco, 4230 hrs, 16 spd p/s, 30" tracks 70%, guidance rdy. \$159,800

1-888-606-6362. www.combineworld.com

STEIGER 4289

STEIGER TRACTOR PARTS. New and used, from radiator to drawpin, 1969 to 1999. Give us a call 1-800-982-1769 or www.bigtractorparts.com

JOHN DEERE 4295

2004 JD 7520, MFWD, quad shift, LHR, 3 PTH, 741 SL loader, grapple, good tires, 9086 hrs, \$70,000 OBO. 306-869-3113, Radville, SK

1977 JD 4430 w/606 PT mower behind, very low hrs., always shedded, exc. cond., \$30,000 OBO. 306-717-2971 Saskatoon SK



2014 JD 6150R: 435 hrs., extended Powertrain warranty, IVT trans, Greenstar, panorama roof glass, 3PTH, Firestone's, rear weights, c/w H380 self-levelling loader w/96" bucket and grapples, \$164,500. Low cost delivery to Western Canada/USA AgriQuip Ontario 1-888-388-1925.

1967 4020, 8500 hrs., rebuilt engine, factory canopy, all original, very nice shape, shedded. 403-876-2542, Big Valley, AB.

JOHN DEERE 8630, PTO, tires like new, excellent condition, \$19,500. 306-861-4592, Fillmore, SK.



2015 JD 9570R, 4 WD, 400 hrs, 570 HP 15L Cummins, bought new. 520-46 Firestone triples with extra spacing, front suspension, every option possible. Tractor weighs 55,000 lbs. 3 years warranty remaining. New condition. \$435,000. Rented farm out. 204-662-4474, 204-851-0211, Sinclair, MB.



2012 9510R, 960 hrs, PS, 17' 6-way blade, premium cab, 9030 lb. cast, ext. warranty, too many extras to list, \$370,000 OBO. 780-808-3141, Lloydminster, AB.

JD 8970, new tires; JD 4450, FWD, 3 PTH, new engine; JD 4440, rebuilt engine; JD 4255, FWD. Ph 204-871-5170, Austin, MB.

1990 JD 4755 tractor, 2 WD, quad range, 1000 PTO, approx. 6900 hrs., \$37,500. Call 306-948-7223, Biggar, SK.

1999 JD 9400, 425 HP 24 spd., new rubber, 4 hyds. w/return line, exc. cond., \$85,000 OBO. 306-861-4592, Fillmore, SK.

JD 7710 MFWD, with 740 loader, LHR, premium condition, 20.8x38 tires. Call 403-823-1894, Drumheller, AB.



2015 JD 9370R PS, 400 hrs., PTO, 3 PTH quick hitch, hi-flow with 5-remotes, premium lighting, 480/80R50's with duals, \$229,500 USD. www.ms-diversified.com 320-848-2496, 320-894-6560, Fairfax, MN

1981 JOHN DEERE 8640, 4WD, 8300 hours, good condition, \$18,500. Call 306-739-2442, Moosomin, SK.

STEVE'S TRACTOR REBUILDER specializing in rebuilding JD tractors. Want Series 20s, 30s, 40s, 50s, 7000s to rebuild or for parts. pay top \$. Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

JOHN DEERE 4295



2014 JD 6125R MFWD, 125hp, 544 hrs, 340 FEL w/ bucket, PTO, 3PH, fact. warranty. \$129,000

1-888-606-6362. www.combineworld.com

JD 8440, PTO, 5800 orig. hrs., quad trans, premium condition, \$26,000 OBO. Call 403-823-1894, Drumheller, AB.

1991 4955 MFWD, powershift, good rubber, 9000 hrs, recent rebuild on tranny and motor, shedded, excellent shape. 403-876-2542, Big Valley, AB.

WRECKING FOR PARTS, JD 3020, diesel, c/w vg running eng., good sheet metal; 2390 Case, vg eng., vg sheet metal; 2090 Case c/w complete overhauled eng., vg sheet metal. 1-877-564-8734, Roblin, MB.

JD 4010, c/w FEL, new tires, batteries and injectors, very clean. Call 403-823-1894, Drumheller, AB.

JD 8440, PTO, 5800 orig. hrs., quad trans, premium condition, call Call 403-823-1894, Drumheller, AB.

JD 4230, 100 HP PS, \$12,500; JD 4020, 75HP PS, \$8750 OBO. 204-525-4521 Minitonas, MB. www.waltersequipment.com

JD 6420 PREMIUM, 6100 hrs., w/640 loader and grapple, 2 hydraulics, 3rd w/joystick control, new rubber, very good condition, \$55,000 OBO. 780-871-8111, Lloydminster, AB. welclean@telus.net

LOOKING FOR JD 4430 TO 7000 Series tractors in good condition with mechanical issues. Call 403-876-2542, Big Valley, AB.

2005 JD 8320, MFWD, powershift, 4500 hrs.; 2002 JD 8120, MFWD, powershift, 4650 hrs. Both can be equipped w/duals. 204-522-6333, Melita, MB.

2013 JD 6140D, FWA, cab, 3 PTH, PTO, 640 hrs., c/w H260 loader and joystick, \$87,500. 780-877-2513, Ferintosh, AB.

JD 7810, MFWD, LHR, JD 840 loader, grapple fork, joystick, shedded, very clean tractor. Call 780-674-5516, 780-305-7152, Barrhead, AB.

2006 JOHN DEERE 2320 Compact utility tractor, 371 hours, \$3800. For more info, email: gibsonamanda627@gmail.com

KUBOTA 4298

2011 B3000, MFWD, 246 hrs., 30 HP dsl., 3 range hydro. trans., deluxe cab, CAH, PS, 3 PTH, mid and rear hyd. in dependant PTO, joystick loader lever, includes 63" Kubota snowblower (\$5700 value w/all options), always shedded. Mint! \$22,900. Cudworth, SK. call 306-256-3569, 306-230-4393.

MASSEY FERGUSON 4301

1997 MASSEY FERGUSON 6180, 4 WD, 6500 hrs, 110 HP 3 PTH, loader/grapple, 3 hyds. 540/1000 rpm, quick release loader, good rubber, very good condition, \$42,500 OBO. 403-845-4914, Rocky Mountain House, AB. colinmanuel@hotmail.com

NEW HOLLAND 4304



2009 T9060, CUMMINS, AutoSteer, 800 duals, 3990 hours, \$211,000. Cam-Don Motors, 306-237-4212, Perdue, SK.

FORD 4307



1993 FORD 846, 7792 hrs., 230 HP 4 WD, 18.4R38 duals, PTO, 4 hyds., diff lock, cab, AC, heat, 14 spd. std. trans., \$46,000 OBO. Call 204-743-2324, Cypress River, MB.

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VERSATILE 4310

1983 VERS. 975, 8600 hrs., good 24.5x32 tires, well maintained, Atom Jet hyds., runs great, asking \$35,000. 204-526-5225, 204-723-5002, Notre Dame, MB.



2013 VERSATILE 450 PS, PTO, deluxe cab, leather seat, AutoSteer, 790 hrs., very good condition, \$289,000. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

VARIOUS TRACTORS 4319

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VARIOUS TRACTORS 4319



2013 LS P7040C, MFWD, 97 HP, 525 hrs., w/LL 7101 FEL, 40 gear shuttle shift trans, PTO, 78" Q/A bucket, like new condition, \$54,000 OBO. 780-482-5273, Edmonton, AB. Email: group.6@outlook.com



2010 CLAAS XERION, 2040 hrs., CVT 50 kms/hr., front hitch, 800R38, \$189,000; 2008 NH T8020, 2900 hrs., \$86,000; 2014 Case 370CVT, 220 hrs., 50km/hr, front hitch, 900/R42, \$225,500; 2014 Fendt 718 profi, 750 hrs., front hitch, 50 kms/hr., 710R42, \$165,000; 3 2016 Fendt 939, 830 hrs., 65 kms/hr., \$248,000; 2005 Fendt 936's, 400 hrs., loaded; 2011 Fendt 939, 830 hrs, 65 km/hr, \$237,000; 2012 Fendt 939, 3100 hrs., 65 km/hr, front PTO, \$195,000; 2005 Fendt 930, 10,000 hrs, new 900 tires, \$79,000; 2012 MF 8670, 500 hrs., CVT, 50 km/hr, front PTO, \$188,000. Many more in stock! Call 519-955-1331, www.rozendaalclinton.com

LOADERS/DOZERS 4322

ALLIED 590 LOADER, excellent shape, \$3500. Danny Spence, Speers, SK. 306-246-4632.



2011 JD 323D Skid Steer, 1468 hrs, tracks, 69hp, 2 spd, aux hyds, nice cab. \$29,900

1-888-606-6362. www.combineworld.com



2004 DEERE 325 skidsteer loader, new eng., c/w bucket, vg working condition. \$25,000. Can deliver. Call anytime 204-743-2324, Cypress River, MB.



2013 CIH L785 FEL w/grapple and bucket. Fits on Case Puma 200, \$18,000; Also have some rear weights as well, \$1.75/lb. 204-743-2324, Cypress River, MB.



1984 CAT D7G DOZER, c/w 13.5' twin tilt angle blade, hyd. winch, enclosed cab, new UC, excellent working condition, new 26" pads. Warranty, \$78,000. Can deliver. 204-743-2324, Cypress River, MB.

707 LEON FEL, will fit JD 4020 Case or Int. Also 2 JD cabs, will fit 4020. \$2000 for all. Phone Keith 306-532-4892, Wapella, SK.

2013 DEGELMAN 5700 blade, 12', mounts for JD 6150R; 2013 Degelman 5700 blade, 12', mounts for NH T7.185, \$11,500 ea. 780-679-7795, Camrose, AB.

LOADERS/DOZERS 4322

2004 BOBCAT S-130, 1339 hrs., manuals, farm machine since new. Schulte 7400 snowblower, pallet forks. Sold as a package only, exc. cond., \$22,000. 403-581-9270, Dunmore, AB. p.meyers2@yahoo.ca



GARWOOD PULL SCRAPER, 12 yd, hyd, control & unload assist, 9' cut width. \$16,900

1-888-606-6362. www.combineworld.com

DEGELMAN 5900 14' 6-Way dozer blade, c/w silage extension and brackets, to fit JD 8000 series tractor, \$13,900 OBO. 780-877-2191, Bashaw, AB.



2012 BOBCAT S 205 skidsteer loader, 1650 hrs., c/w bucket, vg working condition, \$28,000. Can deliver. Call anytime 204-743-2324, Cypress River, MB.

MISCELLANEOUS 4325

CHECK OUT OUR inventory of quality used highway tractors. For more details call 204-685-2222 or view information at www.titantrucksales.com

GPS OUTBACK EZ-DRIVE TC with S2 Display, hyd steering control. Will fit all ATX Case/IH 4 WD tractors and other makes, \$3300. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

SUNFLOWER HARVEST SYSTEMS. Call for literature. 1-800-735-5848. Lucke Mfg., www.luckemanufacturing.com

WANTED: GOOD ENGINE for Belarus 7010. Will consider buying complete tractor. Call 403-378-4979, Duchess, AB.

ON THE GO Haul & Tow farm equipment hauling (air drills). Prairie provinces. 306-540-9400, White City, SK.

THE HANDLER IS available in 5 sizes and proven on tens of thousands of farms from across the world. Call 1-855-765-9937 or visit: www.polywest.ca

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ROTARY MOWERS: Wood's 15', \$6000; JD 1508, \$6000; JD 1518, \$7500; JD 2018, \$10,000; JD 709, \$3000; JD 5' \$1000; Melroe 903 plow 7 and 8 furrow; Scrapers: Eversman 6 yd., \$5500; Ashland 6 yd., \$5000; V-Ditcher, \$2000; Big Mac prong type rockpicker \$4000; Gehl 500 4 auger mix cart, \$10,000; Knight Big Augie, \$5000. Call 1-866-938-8537.

STAINLESS STEEL LIQUID FERTILIZER storage tanks for transporting/storing 1600-50,000 gallons. Call 306-960-3000.

ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Strawmaster, rockpickers, protil, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

WANTED 4328

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:
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306.946.9669 or 306.946.7923

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MF #36 DISCERS. Will pay top dollar and pick from anywhere. Phone Mike 306-723-4875, Cupar, SK.

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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.

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WWW.NOUTILITYBILLS.COM - Indoor coal, grain, multi-fuel, gas, oil, pellet and propane fired boilers, fireplaces, furnaces and stoves. Outdoor EPA and conventional wood boilers, coal/ multi-fuel boilers. Chimney, heat exchangers, parts, piping, pumps, etc. Athabasca, AB, 780-628-4835.

IRON/STEEL 4960

2-7/8" OILFIELD TUBING, \$40 each; 3/4" sucker rods, \$6 each. Truckload quantities only. Call 306-861-1280, Weyburn, SK.

TUBING FROM 1-1/4" to 3-1/2". Sucker rod 3/4", 7/8" and 1". Line pipe and casing also available. Phone 1-800-661-7858 or 780-842-5705, Wainwright, AB.

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BLUE WATER IRRIGATION DEV. LTD. Reinke pivots, lateral, minigators, pump and used mainline, new Bauer travelers dealer. 22 yrs. experience. 306-858-7351, Lucky Lake, SK. www.philstrirrigation.ca

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SPRUCE FOR SALE!! Beautiful locally grown trees. Plan ahead and renew your shelterbelt or landscape a new yard site, get the year round protection you need. We sell on farm near Didsbury, AB, or deliver anywhere in Western Canada. 6 - 12' spruce available. Now taking spring orders while supplies last. Phone 403-586-8733 or visit: www.didsburysprucefarms.com

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LIVESTOCK

BISON/BUFFALO 5001

NEBRASKA BISON BUYING all classes Calves, yearlings, adults, finished bison. Call Randy Miller 402-430-7058 or email: RandyMiller@Miller95Enterprises.com

BISON WANTED - Canadian Prairie Bison is looking to contract grain finished bison, as well as calves and yearlings for growing markets. Contact Roger Provencher at 306-468-2316, roger@cdnbison.com

HARMONY NATURAL BISON buying finished up to \$6.25/lb HHW; Culls up to \$5.25/lb HHW; Feeders up to \$4.75/lb LW. Call/text 306-736-3454, SE Sask.

17 CERTIFIED ORGANIC bison heifers, born 2016, asking \$2500/ea.; and 1 heifer born 2015, \$4000. Fort St. John, BC. Phone 250-785-5794 or 250-262-1254. Email: janandharveykville@gmail.com

BISON/BUFFALO 5001

BUYING: CULL COWS, herdsire bulls, yearlings and calves. Phone Elk Valley Ranches, 780-846-2980, Kitscoty, AB.

20-25 COWS AND ONE 2 year old bull. Nothing over 13 years of age. Downsizing. Available beginning of December. Offers. Marvin 306-929-2775, Prince Albert, SK.

MFL RANCHES selling 20 bred 2014 heifers at Kramer's Season Opener Sale, Dec. 7, North Battleford, SK., 403-747-2500.

60 PLAINS BISON CALVES for sale by Tender. Sale will also include 3 yearling. Free range and grass fed. Please submit tender bids by November 25, 2016. E-mail to: kylie.garchinski@natureconservancy.ca or phone 306-296-7383, Claydon, SK.

WANT TO PURCHASE cull bison bulls and cows, \$5/lb. HHW. Finished beef steers and heifers for slaughter. We are also buying compromised cattle that can't make a long trip. Oak Ridge Meats, McCreary, 204-835-2365, 204-476-0147.

WANTED: ALL KINDS of bison from yearlings to old bulls. Also cow/calf pairs. Ph Kevin at 306-429-2029, Glenavon, SK.

BRED HEIFERS FOR SALE, 77 Plains, 11 Wood cross. The top herd bull is from Wolverine Bison sired to the yearling reserve Grand Champion bull in Denver in 2016. This is an impressive group of heifers ready to go this fall. Bulls may be purchased as well. Come view any time, or call Blair 306-231-9980, Plunkett, SK.

TATONKA RANCH 50- 2015 bison heifers, \$4000 ea; 100- 2016 heifer calves \$2500 Trent 250-263-3152, Ft St John, BC

NORTHFORK- INDUSTRY LEADER for over 15 years, is looking for finished Bison, grain or grass fed. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

WANTED ALL CLASSES of bison: calves, yearlings, cows, bulls. Willing to purchase any amount. dreylts1@rap.midco.net Call 605-391-4646.

CATTLE

AUCTION SALES 5005

Acadia Colony Charolais & Angus Bull & Female Sale

NOVEMBER 30, 1:00 PM ON THE FARM, OYEN, AB.

Offering 40 Charolais, 40 Black Angus and 20 Red Angus Bulls. Also selling 50 Black and Red Angus Heifers, as well as, 20 Charolais Heifers.

Wintering and delivery available on all bulls.

For a catalogue or more information contact Simon 403-664-8593, or T Bar C Cattle Co. 306-220-5006 (PL# 116061)

View the catalogue online at www.buyagro.com

BRED HEIFERS, DISPERSALS and more Saturday, Dec. 3, 1:00 PM at Johnstone Auction Mart, Moose Jaw, SK. Clemens, Young, City View Farms, Goudy bred heifers, Raes dispersal of 55+ Angus/Simm 300+ all together 306-693-4715. Pics/info. www.johnstoneauction.ca PL #914447.

AUCTION SALES 5005

Heartland Livestock Services Swift Current, Sask.

UPCOMING BRED COW & SPECIAL 2016 SALES

Thursday Dec 1
Complete Dispersal Matador Basin Ranch From Beechy. 150 Black Cows Fancy.

Feature 200 Black & Red Cow Dispersal Brett Stewart. Rockglen. Bred Black Simm., start calving April 15.

Monday Dec 5
Six Mile Angus Customer Bred Heifer Sale Black-Red Angus & Simm. Cross. 400 head world class.

Thursday Dec 8
Tom Graham Production Sale. 100 Black Heifers. Ponteix.

Lance Empy Dispersal. 150 Red Red Cross Cows Includes 30 2nd Calvers.

Saturday Dec 10
DoLittle Black Angus Purebred Dispersal. 250 Cows Plus Bred Heifers. Calves & Herd Bulls. Note: Start Time 10 AM.

Monday Dec 12
Annual Rock Solid Bred Heifer Sale. 500 Head Best Sale Of Its Kind In Canada, www.rocksolid.com

Thursday Dec 15
Feature 150 Purebred Black Cows From Johnston Fertile Valley, sold in groups of 5. Video: www.johnstonfertilevalley.com

Mark & Mike Klink. 30 Black Cows. **Glen Dale Ranch.** 30 Black Cows.

Saturday Dec 17 & Sunday Dec 18
Purebred Dispersal Gillford Ranch Clearwater, Man.

600 Head Herefords on Saturday, Black Angus Sunday.

Tuesday Dec 20
600 Dispersal Black & Red Cows. Bred Char. Calve last week in April. True Ranch Cows. Doug Hines, Yorkton, SK.

Donnie 306-662-8288
Lee 306-741-5701

"Canada's Source for Quality Bred Cattle" FOR MORE INFO CALL (306) 773-3174

RIGHT CROSS RANCH Commercial Bred Heifer & Long Yearling Bull Sale, December 5, 1:00PM, Right Cross Ranch sale facility, Kibbey, SK. Offering 20 long yearling Red and Black Angus bulls and 100 commercial Black and Red Angus cross Simmental heifers, bred to calving ease Angus bulls. For more information or a catalogue contact T Bar C Cattle Co. Ltd. at 306-220-5006. View the catalogue online: www.BuyAgro.com PL #116061

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AUCTION SALES 5005

Guilford Hereford Ranch Complete Hereford & Angus Dispersal

SATURDAY DECEMBER 17 and SUNDAY DECEMBER 18 AT NOON BOTH DAYS AT HEARTLAND LIVESTOCK, SWIFT CURRENT.

Selling 580 head of ranch raised Hereford and Angus genetics, cow/calf pairs, bred heifers plus two year old bulls and herd bulls.

Calving ease with performance, highly maternal and great fertility. All two year old and herd bulls will be semen tested, terms and wintering are available on all 2016 born bull calves.

For more information or a catalogue contact **Don Guilford at 204-873-2430 or T Bar C Cattle Co. Ltd. 306-220-5006**

PL# 116061
View the catalogue online www.BuyAgro.com

BLACK ANGUS 5010

RAVINE DRIVE CATTLE CO. has purebred open heifer calves, bred heifers and bred cows for sale. Also a prospect steer and prospect heifer calves. Our herd is based primarily on top quality SAV genetics! Call 780-367-2483, 780-208-1125, Willingdon, AB. ravinedrivecattleco.com

120 ANGUS BRED heifers bred March 1st. 8 week breeding. Very nice even group, \$1800. 306-466-6851, Cromer, MB.

BLACK COW DISPERSAL: 25 head, all young, quiet and productive. Exposed to Black Angus bulls for May and June calving. Vaccinated and home raised. \$2100 each. 780-494-2460, Hines Creek, AB.

DISPERSAL OF KBJ Round Farms on Thursday, December 15, 2016 at Clyde, AB, at 11:00 AM. "The Sale is final this time." Viewing of cattle at the Auction Mart from December 12 to Sale Day or at the farm anytime. Offering: 412 lots: 9 Herd bulls, 145 cows, 83 bred heifers, 67 heifer calves, 84 bull calves (guaranteed), 15 preg. recips, 5 embryos, 40 semen lots. Contact: Jim Rounds, KBJ, 780-307-1657; Rob Holowaychuk, OBI, 780-916-2628. View www.cattlemanagement.ca for online catalog. Email o.b.j@shaw.ca for catalog.

JOHNSTON/FERTILE VALLEY Black Angus Female Sale: December 15th, 2016 at Heartland Livestock, Swift Current, SK. 125 bred females, sell mostly AI to calve March through May. View the cow herd on-line: www.johnstonfertilevalley.com David and Dennis Johnston 306-856-4726, Conquest, SK.

TOTAL HERD DISPERSAL SALE: Premier set of cattle, 220 head on offer. Can view at ranch. Selling at Bow Slope Shipping, Brooks, AB, on December 3. 403-363-4850

60 SIMM/ANGUS BRED heifers due Mar 1. 8 wk. breeding. Quiet bunch of reds/blacks, 1 iron, \$1800. 306-466-6851, Cromer, MB.

28th ANNUAL KEYSTONE KLASSIC Black and Red Angus Sale, Saturday December 3, 2015 at 1:00PM, Keystone Centre, Brandon, MB. Presented by top producing Red and Black Angus breeders Offering 70+ females, including an elite selection of foundation bred heifers, fancy heifer calves and cow calf pairs. Junior discounts available. For more information or a catalogue contact T Bar C Cattle Co. Ltd. at 306-220-5006. View the catalogue online: www.BuyAgro.com PL #116061

BLACK ANGUS 5010

JL LIVESTOCK FALL FEMALE SALE on December 13, 2016. Offering: 200 PB heifers and 200 commercial heifers. Sired by Density, Net Worth, and Final Answer. AI'd to Final Answer, Angus Valley, and JL Preferred. Call 306-736-7393 or 306-736-8698, Peebles, SK.

BIRCHAM RANCH BRED HEIFERS: 210- Top Cut 1st cross Black Brockle face; 45- 3/4 Angus Black and Black Brockle face and 25 top cut first cross Black Simm cross Black Angus heifers, bred Black Angus. Bred June 10th to Aug 6th. All vaccinations. Will deliver. Selling at the Rock Solid Bred Heifer Sale on December 12th, 2016. Heartland Livestock, Swift Current, SK. Call Wayne Bircham, 306-662-7940. www.rocksolidbredheifer.com

DOLITTLE ANGUS DISPERSAL Sale on Saturday, December 10, 2016 at Heartland Auction Services, Swift Current, SK. Cow/calf pairs sell (including bull calves) at 11:00 AM. Herd bulls and rising 2 yr. olds sell at 3:00 PM. "A Special Herd that you may not have heard of!!!" Viewing of cattle at the Auction Mart from December 7th to Sale Day. Offering: 434 lots: 11 herd bulls, 32 rising 2 yr. olds, 219 cows, 37 bred heifers, 61 heifer calves, 74 bull calves. Contact: Rob and Lorna Story 306-460-8520; Rob Holowaychuk, OBI, 780-916-2628. View catalogue online at: www.cattlemanagement.ca Email for catalogue to: o.b.j@shaw.ca

PUREBRED BLACK ANGUS long yearling bulls, replacement heifers, AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

SOUTH VIEW RANCH has Black and Red Angus 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

CROOKED CREEK ANGUS Production Sale on Tuesday, December 20th, 2016 at 1:00 PM at the Innisfail Auction Mart, Innisfail, AB. Featuring daughters of EXAR Uppshot, Special Focus, SAV Angus Valley and SAV Final Answer. Many bred to HA Outside 5307, Brother to the HA Cowboy U 5405 (\$350,000 Herd bull). Offering: 100 lots: 50 bred cows, 45 bred heifers, 5 Fancy open heifer calves, 1 semen interest (HA Outside 5307). Contacts: Rick and Sharon Gabert 780-998-1963; Valentina Gabert 780-916-7218; Rob Holowaychuk, OBI, 780-916-2628. View catalogue online at: www.cattlemanagement.ca Email for catalogue to: o.b.j@shaw.ca

BLACK ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefield, SK. www.skinnerfarms.ca

OSSAWA ANGUS, MARQUETTE, MB. has for sale purebred Black heifer calves. Also 2 year old bulls. Info. call 204-375-6658.

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

HERD DISPERSAL: AW Angus Dispersal, December 11th at Heartland Livestock, 1:00 PM. 100 purebred cows and bred heifers, 35 heifer calves, 20 bull calves, 1 herd bull. Females bred to and sired by Outcross Industry leading sires. Bull calf wintering program available. For more info. call 306-685-2249, 306-741-7485, Virden, MB. castlerock.mktg@sasktel.net www.castlerockmarketing.com

BURNETT BRED HEIFER SALE on Sunday, December 4, 2016, 2:00 PM at the ranch, 12 miles Southwest of Swift Current, SK. Purebred and commercial Black Angus heifers bred Black Angus, F1 Black Angus cross Tarentaise heifers bred Black Angus, F1 Red Angus cross Hereford heifers bred Red Angus. Heifers bred to easy calving Burnett Bulls. Commercial heifers start calving April 1, 2017. Contact Wyatt: 306-750-7822 or Bryce 306-773-7065 email wburnett@xplomet.ca

RED ANGUS 5015

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefield, SK. www.skinnerfarms.ca

SOUTH VIEW RANCH has Red and Black Angus 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

28th ANNUAL KEYSTONE KLASSIC Black and Red Angus Sale, Saturday December 3, 2015 at 1:00PM, Keystone Centre, Brandon, MB. Presented by top producing Red and Black Angus breeders Offering 70+ females, including an elite selection of foundation bred heifers, fancy heifer calves and cow calf pairs. Junior discounts available. For more information or a catalogue contact T Bar C Cattle Co. Ltd. at 306-220-5006. View the catalogue online: www.BuyAgro.com PL #116061

CHAROLAIS 5055



Y COULEE LAND & Cattle, You Be the Judge Bull and Bred Heifer Sale. Selling 60 coming 2 yr. old Red Angus bulls, 175 traditional Simmental bred heifers calving Feb.-March. 500 Red Angus cross Simmental bred heifers calving March-April. No bulls or heifers sold prior to sale date. You get the first pick. Dec. 12, 2016, 1:00 PM, NCL. 306-307-4993, 780-205-8269, Vermilion, AB. thougham@littleloon.ca

CHAROLAIS 5055

HERD DISPERSAL: FOAT Valley Stock Farm Complete Charolais Herd Dispersal, Thursday, Dec. 15, 2016, 1:00 PM, Innisfail Auction Mart, Innisfail, AB. Featuring 300 head including herd bulls, long yearling bulls, mature cows, heifer calves, bull calves, bred heifers. Please call Jay Good 403-556-5563, Cody Hanev 403-559-8009. View catalog: www.transconlivestock.com

60 BRED COWS FOR SALE: Charolais Simmental cross. Call 403-652-7253, High River, AB.

CHAROLAIS 5055

40 TAN BRED heifers, calve March 1st. 8 week breeding, Angus bulls, one iron, \$1800. 306-466-6851, Cromer, MB.

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HEREFORD 5090

REGISTERED HORNED HEREFORDS: bred cows, bred heifers and open heifers. Jensen Farms, Carstairs, AB. 403-337-3766.



BIG GULLY FARM Bull and Heifer Sale Thursday, Dec. 8th, 5:30 PM MST, 12 miles North of Maidstone, SK. Horned and Polled, Long-yearling bulls, bull calves and bred heifers. Free wintering, delivery and carcass ultrasound. Volume discount of 5% on 2 or more. View videos, information and catalogue at: www.bigullyfarm.com Lance Leachman, 306-903-7299, or email: bigullyfarm@gmail.com Online bidding at: LiveAuctions.tv

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SHORTHORN 5200

4's COMPANY 36th Annual Purebred Shorthorn Sale, Sunday, Dec. 4, 1:00 PM, Camrose, AB Exhibition Grounds. Canada's longest running private sale. Quality heifer calves, bred heifers, herdsire prospects and commercial bred heifers. View catalog online at: www.canadianshorthorn.com or call 780-763-2209. Please pre-register for online bidding at: dms.ca

SHORTHORN ALLIANCE SALE, Thursday Dec. 8 at 1:00 PM at Saskatoon Livestock Sales. On offer: TP females, consisting of heifer calves, bred heifers and bull calves. Top genetics from leading Western Canadian breeders. For more info, call Richard Moellenbeck, 306-287-7904. Catalogue to view online at www.saskshorthorn.com

SIMMENTAL 5205

DOUBLE BAR D FARMS Sharing the Herd Fall Female Sale, Wednesday Dec. 7, 1:00PM at Double Bar D Sale Barn, Grenfell, SK. Offering 120 lots of the finest Fleckvieh, Red and Black Simmental and Simm cross Angus females available. Featuring fancy open heifers, the heart of the bred heifer pen, donor cows and pregnant recips. For more information or a catalogue contact Ken Dimler 306-697-7204 or T Bar C Cattle Co. Ltd. at 306-220-5006. View the catalogue online: www.BuyAgro.com PL #116061

PLAN TO Attend the 38th Annual Keystone Connection Simmental Sale, Tues., Dec. 6th at Keystone Centre, Brandon, MB. 60 lots of Simm. cattle, 40 yearling bred heifers with noted breeding dates. Heifer calves for 4-H or Junior Show Programs. Bull calves that are some of the top genetics in Fleckvieh/ Simmental will be available on Dec. 6. These beef bulls will add pounds to your calf crop. Heifer calf show starts at 12 Noon with sale to follow. View catalogue: www.marmacfarmers.net or 204-728-3058.

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SIMMENTAL 5205
STOUGHTON FARMS Complete Simmental Dispersal, The Final Chapter. Monday December 12, 2016 at 1:00PM MST, Lloydminster Exhibition Grounds, Lloydminster, SK. Selling 150 cow/calf pairs, 53 bred heifers plus herd bulls. Winterring and terms are available on all 2016 born bull calves. For more information or a catalogue contact T Bar C Cattle Co. Ltd. at 306-220-5006. View the catalogue online: www.BuyAgro.com PL #116061



TWIN BRAE SIMMENTALS Bred Female Dispersal, Wednesday, Dec. 21, Virden, MB. 110 bred cows- majority are under the age of 6, 43 bred heifers, 20 bull calves, 15 open heifer calves, 2 herdsires. Call for catalogue or go online at www.chescu.com Barry and Glenda Chescu, Inglis, MB., 204-564-2509. www.goo.gl/pF4keh Sale managed by: Transcon Livestock Corp.

TEXAS LONGHORN 5225
 TEXAS LONGHORN yearlings and 2 yr. old bulls; Pairs; Bred cows; Bred 2 yr. old heifers and Open yearling heifers. Well established herd of top quality, quiet cattle. Call Dean at Panorama Ranch, 403-391-6043, Stauffer, AB.

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WAGYU 5230
 27 ANGUS HEIFERS bred Wagyu. Bull turned out June 15th, taken out August 3rd. Call 403-644-2247, Standard, AB.

WELSH BLACK 5235
 WELSH BLACK- The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

CATTLE VARIOUS 5240
 44 TOPCUT ONE IRON Red Angus cross bred heifers, AI'd to low birthweight Red Angus bull, very impressive group of heifers. Call 306-937-2880 or 306-441-5010 Battleford, SK.

20 EXCELLENT HOME raised Simm/Angus bred heifers, very quiet, exposed to Red Angus bull June 1st. Mitch 306-467-4975, 306-467-7912, Duck Lake, SK.

12 SHORTHORN CROSS SIMMENTAL heifers, bred to a purebred Shorthorn bull at 4's Company Sale, Sunday, Dec. 4th, 1:00 PM, Camrose Agriplex. More info phone 780-763-2209 or canadianshorthorn.com

15 QUALITY HEREFORD influence heifers, very quiet. Preg checked. Erwin Lehmann 306-232-4712, Rosthern, SK.

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RANCH RAISED F1 Red Angus cross Simm. bred heifers, bred Red Angus. Have had all shots. Calving mid April. Harvey Verishine 306-283-4666, Langham, SK.

CATTLE WANTED 5245

WANTED: 200 Red or Black Angus cross younger cows, lease to own. References available. 306-542-2575, 306-542-7007, Veregin, SK.

WANTED: CULL COWS and bulls. For bookings call Kelly at Drake Meat Processors, 306-363-2117 ext. 111, Drake, SK.

HORSES

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QH SORREL GELDING from Doc O'Lena and Pistol, cutting horse, broke requires experienced rider; Paint gelding, brown and white; 15 HH, well started, ride and drive; Arabian sorrel mare, started. 780-853-2031 780-581-4035 Vermilion AB

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BLACK TEAM mare and gelding 7 and 9 yrs. old; Percheron QH, very well broke; Harness; Covered wagon; Sleigh with cab; Horse mower. 306-862-3533, Nipawin, SK

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MOBILE ON OWN LOT, Boyle, AB. 16x76, 3 bdrm, 2 bath, new flooring, deck, shingles, furnace. Owner financing available. \$122,500. Call for info 780-482-5273. group.6@outlook.com

1996 OPEN, BRIGHT 16x76, 12x20 heated addition, 3 bdrm, 2 bath, 5 appl., new shingles and eavestroughs. Where is or moved, \$57,000 OBO. 306-834-8287, Major, SK.

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RESORTS 6129

VEGAS TIMESHARE. INT'L exchanges, avail. 2 bdrm., full kitchen washer/dryer, living/dining room. 306-453-2958, Carlyle.



YEAR ROUND RESORT LIVING. Whispering Pines Golf and Country Club is a gated maintenance free community overlooking Pine Lake on golf course with year round amenities 20 mins. from Red Deer, AB. 1900 sq. ft. on 3 fully finished levels, 3 bdrms, 2-1/2 baths, fireplace in bdrm ensuite. Beautiful club house with fine dining, pool, fitness room. For sale or trade. 780-482-5273. group.6@outlook.com

FARMS & RANCHES

BRITISH COLUMBIA 6131

HALF SECTION OF open farmland for sale. Fort St. John, BC. Area. Cultivated. Good productive soil. Sloped North to South. Lots of wildlife. Each quarter is titled. Other land is also available to purchase. Phone 250-781-3586, e-mail: trskafte@ocol.com

CERTIFIED ORGANIC BISON RANCH: L&B. 5 quarters. Some marketable timber, fenced and cross fenced, good handling facilities, 35x60 storage shelter, 1500 bu. grain bin, cabin w/all amenities, good well, good roads. Animals born since 2006 certified organic, closed gent herd. Excellent customers for meat sales. 2005 3/4 ton Chev diesel, 20' Sundowner alum. stock trailer. Be a part of exciting, growing industry. I don't want to sell but married to same gal for 52 years. Fort St. John, BC. 250-785-5794, 250-262-1254. janandharveykile@gmail.com

178 ACRE RANCH, beautiful view of the 7 sister mountains, exc. land and water, house, barn, shop, hay shed and outbuildings, 75% fenced on Hwy #16 between Smithers and Terrace. Info. 250-849-8411.

ALBERTA 6132

FARMLAND FOR SALE BY TENDER: Approx 10 miles East of Viking, AB. The following are offered for sale by tender subject to the encumbrances and interests as are recorded on the existing Certificate of Titles. SE 16-48-11-W4, 15

ALBERTA 6132

SALE BY TENDER. The registered owner offers the following lands for sale: Portion of SW 20:46:6.4 (approx. 55.64 acres) - Title #952 143 450 +.1. SE 20:46:6.4 (approx. 160 acres) - Title #952 142 897. NE NW: SE: SW 21:46:6.4 (approx. 636.29 acres) - Title #952 143 450. SW and SE 28:46:6.4 (approx. 315.52 acres) - Title #952 142 895. Please contact Jenna at 780-423-7338 to obtain terms and conditions of the tender and a tender submission form. Submissions are due at 3:00 PM MST on December 1, 2016.

ID#1100458 CAMROSE - Executive Estate Property with 3 titles on 301.7 acres of prime land. Parcel 1, includes 52,000 sq. ft. concrete and steel building that has potential for multiple uses. (orig. drawing available). Parcel 2 is 148.7 acres of prime farmland. Parcel 3 boasts a 7560 sq. ft. luxury home with a triple car garage and 6000 sq. ft. shop with in-floor heating, 20' ceiling and 16' sunshine doors. MLS# **ID#1100538, Alder Flats.** One of a kind cow/calf ranch farm near Rimbey. This excellent cow/calf set up includes 640 acres of land, all in one block. All quarters have a dugout. Fenced and cross-fenced. There are 7 dugouts in total. Land has excellent drainage. Mostly new 4 wire fences, Texas gates, all is very well looked after. About 560 acres cleared and cult. The farm has sufficient food for the cattle operation of about 150 cows. Buildings include 2 shops (40'x40' and 12'x24', quonset 38'x70' and a 2011 1824 sq. ft. bungalow. Annual surface revenue lease is \$12,000. MLS# **Real Estate Centre, 1-866-345-3414.** For listings view www.farmrealestate.com

LAND FOR SALE

The Public Guardian and Trustee of Saskatchewan as property guardian for Heinz Schulz, will accept bids on the following:

**NE 18-57-21 W3 Ext 0
NW 18-57-21 W3 Ext 0
(205 Cultivated acres)
RM of Loon Lake #561**

Property will be sold in "As Is" condition. No minerals included in sale.

Sealed bids, clearly marked "SCHULZ TENDER", should be received in our office by November 28, 2016 accompanied by a deposit of 10% of the bid in the form of a money order or certified cheque to the address below. (Deposits will be refunded except for that of the successful bidder.)

The highest or any bid not necessarily accepted.

For further information phone Jack Pool at (306) 787-8115 or email: jack.pool@gov.sk.ca
Public Guardian and Trustee of Saskatchewan
100 - 1871 Smith Street
REGINA SK S4P 4W4
Fax (306) 787-5065

SASKATCHEWAN 6133

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w/Aggregate Potential
In Saskatchewan
Call POTZUS LTD.
Phone: 306-782-7423
Fax: 306-786-6909
Email: info@potzus.com

RM of GRANDVIEW No. 349: Handel, SK. NE quarter of 32-35-19 W3. Offers accepted to 5:00PM November 28, 2016. MLS# \$260,000. For information package call Eugene Kohle, 306-291-5544 or Lyle McCallum, 306-222-8263 at Coldwell Banker Signature, Saskatoon, SK.

RM DOUGLAS - 6 quarters high assessed farmland, 1800 sq. ft. house, quonset, and 30,000 bushel grain storage. MLS 584933;
RM MEETING LAKE - 1 quarter grassland fenced. MLS 588573. Great Plains Realty Inc. contact Mike Janostin at 306-481-5574, mike@greatplainsrealty.ca or greatplainsrealty.ca

FOR SALE BY TENDER, Located in RM of Stonehenge No. 73: NE 17-7-1 W3; SE 17-7-1 W3; NW 16-7-1 W3; NW 9-7-1 W3; SE 16-7-1 W3; NW 17-7-1 W3; SW 17-7-1 W3. Owner will require access and use of yardsite and buildings on SW 17-7-1 W3 to December 31, 2017. Prospective purchasers must rely on their own research of the property to determine acreage, condition, improvements, and assessment. Highest or any tender not necessarily accepted Please submit certified cheque for 5% of bid with tender, payable to Lewans & Ford In Trust, and clearly mark envelope "YOUNG LAND TENDER". Tenders will close December 2, 2016 at 2 PM. Lewans & Ford, Barristers & Solicitors, Box 759, Assiniboia, SK. SOH OBO 306-642-4520. Fax: 306-642-5777. E-mail: lewans.ford@sasktel.net

FARMLAND FOR SALE in RM No. 2: 1 quarter, SW 35-01-34 W1. Offers. Mail to: Box 188, Camdulf, SK. SOC OSO. 306-483-7477

17 DEEDED QUARTERS of grassland/hayland, some with aggregate. Buy 1 quarter or buy all. Call 306-531-8720, Lipton, SK.

SASKATCHEWAN 6133

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Kevin Jarrett
(306) 441-4152
kevin.jarrett@HammondRealty.ca
HammondRealty.ca

FOR SALE BY OWNER: Quarter section of prime hunting land, approx. 80-90 acres broke, large body of water, UG powerline, located along Supergrid 17 mi. NW of Blaine Lake, SK. Can be certified organic. Close to Lac La Peche. 306-226-4646.

LAND FOR SALE BY TENDER: RM of Biggar #347. 3 quarters of tame mixed grass pasture, NE-28-34-17 W3, NE-33-34-17 W3; SE-33-34-17 W3. 460 acres fenced with some cross fencing, dugout, 2002 bored well, on SaskPower service, approx 40,000 yards gravel deposit. Tender closes December 2nd, 2016. Highest or any tender not necessarily accepted. Sold as is. Bidders must do own inspection of property. Submit bids to: Bob Atkinson Box 271, Landis, SK. S0K 2K0. For more information call 306-658-2042.

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SEVERAL QUALITY LAND packages for sale. Please check out our website at www.hcventures.ca Regina, SK.

GRAIN LAND WANTED in RM 405 and 219. Investors looking to buy 300-3000 acres. Cash purchase, quick close. Qing Zhang 306-684-0136, Royal LePage Landmark, Moose Jaw, SK.

SASKATCHEWAN 6133



BIG RIVER, SASK AREA. This gorgeous home is approx. 3100 sq. ft. on 3 levels incl. attached garage. Very tastefully done. In-floor heat with propane on 2 levels plus solar panels and windmill. Most furniture is included, c/w 154 acres of bush type land with 140 acres fenced with a 8' high game fence plus 1 elec. wire. Major equip. incl. to operate this turnkey hunt/production farm. MLS# 561901. More info or to view call Lloyd Ledinski at Re/Max of the Battlefords, North Battleford, SK. 306-446-8800 or 306-441-0512.

FARMLAND FOR RENT. Wascana Centre Authority in Regina has a property available for agricultural crop use. The land consists of 400 tillable acres of previously cropped land immediately east of the Trans Canada Bypass and is located immediately south, east and north of the Sask. Polytechnic Campus. The legal land descriptions are: 5-17-19-W2 and Plan Health Centre, Block C, Lot PTS of 5, 6, 8-17-19 W2. The Authority is prepared to enter into a multi-year agreement for this property commencing in Dec. 2016. If you are interested, please contact Michelle Paetsch at: phone 306-347-1829 or email michelle.paetsch@wascana.ca Expressions of interest are being accepted until the date: December 15, 2016 for this property.

ID#1100500- RANCH FOR A STARTER FARMER w/1118 ACRES IN KIPLING. 746 acres of native grass, 20 acres alfalfa, some sloughs and small lake. Organic farming possible. Home quarter has 1310 sq. ft. home, steel grain bin, 60' water well and other outbuildings. Two dugouts (one on home quarter). **ID#1100539- 11 QUARTERS OF LAND IN SENLAC-** 1322 acres of pasture/improved pasture. Includes a creek that flows through the property. 4 spring fed dugouts w/excellent water throughout the entire property. 2 gas wells on the property with CNRL. Fencing is good and a set of steel corrals are also included. **MLS# Real Estate Centre, 1-866-345-3414.** For all our listings: www.farmrealestate.com

SASKATCHEWAN 6133



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LAND AUCTION, Stoney Run Cattle Corp., Thursday, December 22, 2016, Days Inn, Estevan, SK., 7:00 PM. Join Mack Auction Company, Dec. 22 for your chance to own 6 quarter sections of prime grass and hay land in RM of Ennis-killen #3. There is unlimited potential for this land with the close proximity of The Ceres Northgate Terminal, a multi-commodity logistics center strategically located on the Canada/US border in SE Sask! The tame hay, native grass, water sources and perimeter barb wire fences are in ex. condition. 1. NW-8-1-3-W2 RM#3, FVA 64,800. 160 acres tame hay and native grass, partially fenced. 2016 taxes \$380.28. 2. NE-8-1-3-W2 RM#3, FVA 58,200. 160 acres tame hay and native grass, partially fenced, shallow dugout. 2016 taxes \$341.55. 3. SW-8-1-3-W2 RM#3, FVA 80,600. 160 acres tame hay, partially fenced, dugout. 2016 taxes \$473.00. 4. SE-8-1-3-W2 RM#3, FVA 67,800. 160 acres tame hay, partially fenced, dugout. 2016 taxes \$397.88. 5. NW-1-1-3-W2 RM#3, FVA 49,000. 160 acres native grass, partially fenced. 2016 taxes \$234.13. 6. NE-1-1-3-W2 RM#3, FVA 48,100. 160 acres native grass, partially fenced, dugout. Direct access to Hwy 9, located adjacent to Ceres Commodity Logistics Hub. 2016 taxes \$230.29. Visit www.mackauctioncompany.com for sale bill and photos. Join us on Facebook and Twitter. Mack Auction Co., your land Auctioneers. 306-421-2928 or 306-487-7815. PL #311962.

FARMLAND FOR SALE: Multiple quarters in the RM of Keys No. 303. NW 28-31-3-W2; SW 33-31-3-W2; NE 32-31-3-W2; SE 32-31-3-W2; NW 21-31-3-W2. Send offers to: eoikwalsh@gmail.com or c/o Walsh, 6984 Hagan Road, Brentwood Bay, BC. V8M 1B3.

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

FARMLAND FOR SALE BY TENDER RM #321. NW 31-32-25-W3; SW 31-32-25-W3; SE 08-33-25-W3; NW 16-33-25-W3; SW 16-33-25-W3; SW 17-33-25-W3. Tender deadline 12:00 noon, January 4, 2017. For particulars email jones.law@sasktel.net or telephone 306-446-2211. Jones Law Office, Box 1179, North Battleford, SK. S9A 3K2

TOM@SASKFARMLAND.COM Buying or selling farmland? Farm, Ranch, Recreation, Acreage. Contact Tom Neufeld, Full service Realtor®, 306-260-7838, Coldwell Banker Signature, Saskatoon, SK.

SASKATCHEWAN 6133



960 ACRES OF FARMLAND UP FOR ONLINE AUCTION
Located in the RM of CANWOOD
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There are 6 quarter sections for sale by the same owner. You can bid on the lots that interest you or on the entire 960 Acres in one bundled package.
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RM CANWOOD #494 - just listed. This 140 acre scenic property is close to the Cookson pasture and the Prince Albert National Park. 1232 sq. ft. home built in 1960, 30x32 hip roof horse barn. Approx. 65 acres of tame hay. Balance is some harvestable spruce timber plus pasture openings. Just a great well sheltered yard. Fenced with 3 wires and treated post. MLS# 584810. For further info or to view call Lloyd Ledinski, Re/Max of the Battlefords, 306-446-8800, 306-441-0512.

LAND FOR SALE by tender near Milestone, SK. Tenders received until 4:30 PM, Dec. 15, 2016. Legal Description: NW-26-11-19-W2. More info. call 306-550-6097 or email jesse.bradley1@gmail.com

FARMLAND FOR SALE: Multiple quarters in the RM of Keys No. 303. NW 28-31-3-W2; SW 33-31-3-W2; NE 32-31-3-W2; SE 32-31-3-W2; NW 21-31-3-W2. Send offers to: eoikwalsh@gmail.com or c/o Walsh, 6984 Hagan Road, Brentwood Bay, BC. V8M 1B3.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

FARMLAND FOR SALE BY TENDER RM #321. NW 31-32-25-W3; SW 31-32-25-W3; SE 08-33-25-W3; NW 16-33-25-W3; SW 16-33-25-W3; SW 17-33-25-W3. Tender deadline 12:00 noon, January 4, 2017. For particulars email jones.law@sasktel.net or telephone 306-446-2211. Jones Law Office, Box 1179, North Battleford, SK. S9A 3K2

TOM@SASKFARMLAND.COM Buying or selling farmland? Farm, Ranch, Recreation, Acreage. Contact Tom Neufeld, Full service Realtor®, 306-260-7838, Coldwell Banker Signature, Saskatoon, SK.

SASKATCHEWAN 6133

RM OF MAYFIELD No. 406. Approx 950 acres due to 10 acres out for acreage. 324 acres of cultivated grain land. Approx 626 acres of natural pasture and prairie wool pasture and spring feed pasture water. 2.5 miles south of Maymont on 376. Fenced with 3 wires and treated post. What a property!! Overlooking the North Saskatchewan River and the River Valley. Excellent big game hunting in the area - white tail deer, moose and geese. MLS# 591593. For further info or to view call Lloyd Ledinski/Elaine Elder, Re/Max of the Battlefords, 306-446-8800, 306-441-0512.

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MANITOBA 6134

MANITOBA RANCHES: Ashern: 1600 acres plus 200 private lease. Will carry 200 cow/calf pairs, good buildings, \$875,000; Winnepigosis: 1214 acres deeded, 600 crown lease, lake frontage, newer log home, 44x260 multi purpose building, hay shed, well manicured yard, garage w/chop, \$895,000; Lundar: 892 acres, some crown land may be available, \$399,900. Visit: www.manitobafarms.ca Harold 204-253-7373, Delta Real Estate.

FARMLAND FOR RENT in RM Emerson-Franklin. The following fields for rent in 2017: 1.) NE 1/4-17-1-3-E, 156 acres; 2) NE 1/4 29-1-3-E, 152 acres; 3.) RL 18 AG Plan 615, 11 acres; 4.) RL 34 AG Plan 4118, 20 acres; 5.) RL 34 AG Plan 4118, 30 acres; 6.) SE 1/4-17-1-3-E, 156 acres; 7) NW 1/4-8-1-3-E, 144 acres; 8.) SW 1/4-28-1-3-E, 158 acres; 9.) SE 1/4-32-1-3-E, 158 acres; 10.) SW 1/4-4-1-3-E, 151 ac; 11.) SE 1/4-4-1-3-E, 160 acres. Fixed 5 year term with 2 installments April and October. Increase of land taxes added to the 2nd payment. 40,000 bu. of storage in hoppers are also available. Submit offer by email and indicate what you are bidding on. Tender closes Dec. 31, 2016. Highest or any tender will not necessarily be accepted. Email to: landmann0815@aol.com

GRAIN FARM: N1/2 1-15-22 W1, 320 acres. RM of Oakview (Blanshard). Approx. 220 cultivated acres, Newdale clay loam. Great for addition to a local farm, \$510,000 OBO. 604-581-5270, n1.15.22w1@gmail.com or visit: tinyurl.com/n1-15-22w1 for details.

BEEF FARM in Vita, MB. with corrals! 1180 sq. ft. house, 3 bdrms, 1 bath. On quarter section of land w/100 acres cultivated. Cliff Martens, Delta Real Estate, 204-346-4117. Visit: <https://youtu.be/QLcnsTAQdFI>

RM RUSSELL. 3400 acres. For more details please go check out our website at www.hcventures.ca Regina, SK.

EXCELLENT LIVESTOCK FARMS: 1) 1732 deeded acres w/4425 acres of Crown land, fenced, small bungalow, very good buildings and metal corral system, can carry 350 cow/calf pairs. 2) Excellent horse ranch in Erickson, MB., Riding Arena and buildings in fantastic condition. 3) 640 acres mixed farm within 15 min. of Brandon. Call Jim McLachlan 204-724-7753, HomeLife Home Professional Realty Inc, Brandon, MB., www.homelifepro.com

1097 ACRE GRAIN Farm in prime area of Westman, 1000 acres cult., 2160 sq. ft. modern split level home in prime condition, heated workshop, machine shed, 40,000+ bu. grain storage. Owners rent 500 cult. acres close by. Sound enterprise w/yard 5 miles from town; **1120 acre mixed farm w/500 acres cult.,** 2 large open front cattle sheds, insulated calving barn, machine shed. Land all adjoining and fenced, good water, 3+2 bed bungalow, 6 miles from town; **Vacant dairy farm** with all equipment, ready for production w/freestall barn for 82 head, calving pens, young stock facilities, 10 unit abrest parlor; haybarn, machine shed, cattle shelter, cement silage clamps, 3800 sq. ft. modern home, 200 acres of land. Call Maurice for more details at Century 21 Westman.com, MB. 204-725-0555.



NEAR DUCK MOUNTAIN, river nearby, very scenic. 459 acres, 265 cultivated, 60 acres fenced pasture. 1550 sq. ft. bungalow with attached garage, 30x42' heated workshop plus much more. Florence Komarniski Real Estate, 204-638-3055, Dauphin, MB., or Grant Tweed, Century 21, 204-761-6884.



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ITUNA 158 acres - owned by Brian & Carol Hubschmid
BEECHY 160 acres - owned by Donna & Joseph Redmond
INDIAN HEAD 318 acres - owned by John Learmonth
WILKIE 319 acres - owned by Kathleen Bowers
BROADVIEW 1194 acres - owned by Gordon Mills, Dennis & Joyce Richter
WILKIE 1433 acres - owned by Sophie & Terry Metlewsky

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NEW LISTINGS

- 40 Acres Near Kipling, Beautiful 1,600 sq ft bungalow, double attached garage, 86'x132' building could be used for riding arena or housing livestock. Excellent water well. Farmland and pasture also available for sale.
- 19.99 Acres Near Ponteix, 1,293 sq ft fully upgraded bungalow, steel Quonset, heated workshop, double detached garage. Excellent water well.
- 4.05 Acres Near Belle Plaine, SK. Between Moose Jaw & Regina, 1,299 sq ft bungalow, triple detached garage, geothermal heating (garage & house), single car heated detached garage. City water line.
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MANITOBA 6134

FARMLAND FOR SALE BY TENDER, RM of Portage la Prairie. Legal Description: SE-6-12-8W. Roll number: 406300. Acres: 141.7. The subject property is located in the RM of Portage la Prairie, 9 miles west on the Trans Canada Hwy. Of the 141.7 acres, 8.7 acres of bush are designated conservation land which has been left in its natural state. Soil Type: Classification Neuhorst: 1, Almasippi; 2. Tender must be for the entirety of the land described above, and all buildings attached thereto. Sealed Tenders to purchase the land will be received by: Greenberg & Greenberg, Box 157, Portage la Prairie, MB. R1N 3B2 until 4:30 PM, November 30th, 2016. **Terms of Tender are as follows:** 1. Each Tender shall be in writing and in a sealed envelope, plainly marked as to its contents and shall be submitted with a certified cheque payable to Greenberg & Greenberg, in trust, in an amount equal to 10% of the tender price. 2. If the Tender is accepted, the certified cheque shall become a non-refundable deposit. If the Tender fails to complete the purchase of the property the Seller shall retain the deposit as liquidated damages. On **December 1, 2016** unsuccessful Tenderers will have their certified cheques returned to them by regular mail. 3. The balance of the purchase price shall be paid by cash, certified cheque, or lawyer's trust cheque and trust conditions on February 2, 2017 (the Closing Date). 4. Vacant possession will be provided on Closing Date. 5. **The Buyers will pay the 2017 taxes.** 6. The Vendors will pay all the property taxes and penalties relating to taxes accruing to Dec. 31, 2016. 7. The Tenderer will pay the applicable GST or provide an acceptable undertaking to self-assess. 8. Time is to be of essence in submission of tender and closing of sale. 9. Highest or any tender will not necessarily be accepted. 10. The Purchasers rely entirely on their own knowledge and inspection of the property independent of any representations made by or on behalf of the owners. For further particulars and inspection contact: Barry Greenberg, Greenberg & Greenberg, 204-857-6878.

PASTURES 6136

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WANTED 6138

I HAVE CASH INVESTORS seeking blocks of quality grainland. From 8-40 quarters. Dry or irrigated. In the Peace River district or Central Alberta. Leaseback of sold land is an option. Contact Greg Jarvis at the Real Estate Company 403-830-2020, Calgary, AB. gjarvis@shaw.ca

ACREAGES 6139

DWEIN TRASK REALTY INC. Very good selection of acreage building sites currently available within 5 min. to 45 minutes of Saskatoon. Sizes range from 10 acres to 160 acres and most have reasonably close utilities. Resale acreages are available as well. Call Dwein 306-221-1035, Amanda 306-221-5675 or Victoria 306-270-9740. Pics and details at www.traskrealty.com



32 ACRES: WITH 2 homes, outbuildings and much more. 403-703-5548, Calgary, AB. Email: gerardchiasson@gmail.com Website: www.gerardchiasson.com



RM OF BIGGAR, BIGGAR, \$580,000. This acreage has 9.8 acres with a 3 bdrm, 2 bath home with a double attached garage. This home has been 90% renovated inside and outside over the past 2 years. 32x50 heated shop with 3 bays. Back yard has 60x100' metal clad pole shed, 33x66 steel quonset, and 30x75 wood straight wall older shed. Excellent location, 8 miles north and 3 miles west of Biggar, SK. MLS#586422. Wally Lorenz, Realtor, Re/Max of the Battlements, 306-843-7898.

ACREAGES 6139



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		X3C	875	39.69
16	Medium Green	3C	735	33.34
		1C	1,075	48.76
		2C	1,050	47.63
16	Small Green	X3C	845	38.33
		3C	735	33.34
		2C	1,050	47.63
16	Extra Small Red	X3C	825	37.42
		3C	735	33.34
		2C	735	33.34
16	Small Red	X3C	665	30.16
		3C	550	24.95
		2C	735	33.34
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Ignore the calendar

The Western Producer doesn't usually publish harvest photo pages at the end of November, but that's the kind of year it's been.

TOP, CLOCKWISE: Five combines in the field on a warm windy November day no doubt made a quick harvest of this 160 acre canola crop by members of the Bentley Colony in central Alberta. Temperatures reached a high of 20 C. The seasonal average is 5 C. The region was busy with farmers eager to complete harvest 2016.

| MARIA JOHNSON PHOTO

Greg Service of Rimbey, Alta., was harvesting 80 acres of barley Nov. 12, but rain prevented him from finishing the field. He still had other fields to harvest, and snow was in the forecast.

| F. SCOTTY AITKEN PHOTO

Derek and Nolan Ylioja take off the last of Nolan's mustard on the family farm near Birsay, Sask. This photo was taken using a drone.

| COLIN YLIOJA PHOTO

Farmers near Sylvan Lake, Alta., took advantage of the 20 C temperatures Nov. 8 to harvest the last of their canola. | DARCI COLE PHOTO



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EPA APPROVAL

Monsanto's dicamba herbicide approved in U.S., despite critics

Opponents say the herbicide will produce super weeds

Reuters —Monsanto has secured approval from the U.S. Environmental Protection Agency for a new dicamba-based weed killer designed for its next generation biotech soybean and cotton varieties, the company said.

While approval had been expected, it is seen as a major step forward for the company's newest herbicide tolerant products amid rising problems in the U.S. farm belt with weeds resistant to glyphosate, the main ingredient in Monsanto's Roundup weed killer.

The herbicide had already been approved in Canada, but Monsanto had chosen not to market it here until next year because of the pending U.S. approval.

The company was also awaiting EU acceptance, which has been granted.

Environmental groups criticized the EPA approval in the United States.

The Center for Biological Diversity said the ruling would lead to sharp increases in pesticide use that could harm threatened plant and animal species, including the whooping crane.

"Piling on more pesticides will

just result in super weeds resistant to more pesticides," said Nathan Donley, a scientist with the group.

The EPA signed off on Monsanto's XtendiMax herbicide for in-crop use on Roundup Ready 2 Xtend biotech soybeans, designed to tolerate applications of glyphosate and dicamba, and its Bollgard II XtendFlex cotton, which can tolerate the two chemicals as well as glufosinate.

The company is still awaiting an EPA ruling on its Roundup Xtend herbicide, a glyphosate and dicamba blend.

Farmers have used dicamba for years to kill weeds ahead of planting, but until now have not been allowed to use it on growing crops.

Monsanto has invested more than \$1 billion in a dicamba production facility in Luling, Louisiana, to supply demand it expects will blossom in the coming years.

It said the Xtend platform will be its largest-ever technology launch.

The company said it expects the soybean variety to be planted on 15 million U.S. acres in 2017 and its cotton to be planted on more than 3 million acres.



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PRODUCTION

FALL CROPS: RUST AND OTHER PESTS THREATEN

Early signs of stripe rust, wheat streak mosaic and mildew have been found in Montana. | **Page 56**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM

DAIRY SECTOR

Dairy farmers look to improve

European farmers need tools to pay quickly

BY MICHAEL RAINE
SASKATOON NEWSROOM

HANNOVER, Germany — Justifying modifications of existing farm equipment and systems is generally done by looking at cost savings, yield gains or both.

And when positive cash flow is tight, even the choices that pay can be hard to make.

A British company says that despite the difficult times for European dairy farmers, it is continuing to see “very respectable sales” for its product.

“The (milk price) and dairy market is the worst it’s been, maybe ever, no doubt about that, but what we sell pays for itself, usually within the year,” James Duke, inventor and company founder of ADF Milking, said at last week’s EuroTier livestock technology event in Hannover.

There are about 20 patents on his product, which would lead one to believe that it would be a complicated piece of gear.

“(However, we’ve kept making it simpler, and that has led to high reliability,” Duke said.

The automatic teat dipping and liner flushing clusters that ADF builds improve the sanitation of the teats and the milk line over traditional approaches.

His equipment’s work starts as soon as the flow of milk stops and vacuum loss is detected on the line. Rather than manually washing and disinfecting the teats and gear as each animal is released from the draw of the milking line, dairy cattle receive an automated application of emollients and disinfectant at the top of the teat cup at the base of the teat.

This ensures that the remaining vacuum in the liner doesn’t get the chance to introduce bacteria into the teat canal while it is still open.

A gravity operated check valve determines that the cluster is still

upright on the teat.

“A little puff of (compressed) air is delivered (to the liner) and any remaining vacuum is gone and the clusters come off gently, not with tugging and no smart cows kicking them (off) on their own in anticipation of having the farmer yanking them off,” he said.

The check valves select for a flow of disinfectant and water from a second set of jets at the bottom of the cups and the now inverted liners rinse out, ready for the next animal.

This replaces a manual process of washing and rinsing by producers as well as some steps in the process used by semi-automatic systems.

Making a technology pay for farmers has been the trick to selling his equipment in 26 countries.

“We’ve got more than 50,000 of them out there now, so we know it works,” said Duke.

Sales of Duke’s system relies on farmers producing more milk with lower somatic cell counts and having fewer cases of cow-career shortening and expensive-to-treat mastitis.

“The first milking after installing the equipment in a parlor, farmers go to change their milk filters and find them clean,” the West Sussex inventor said.

“They figure it must be a (perforation), but the system stops the (vacuuming of manure) into the lines.

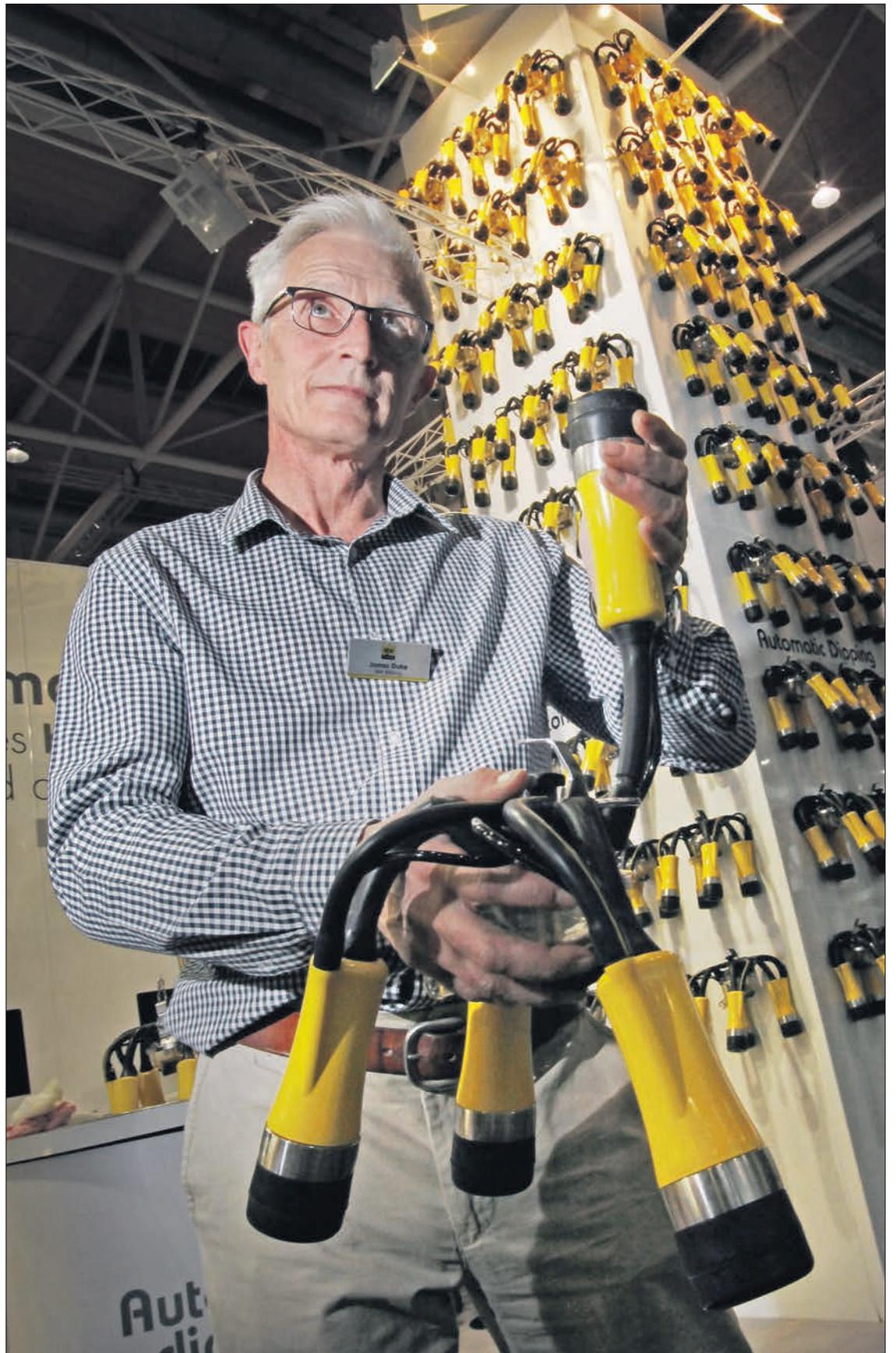
“This is a sustainable farming tool,” Duke said.

“Sustainability isn’t just a fancy of the week. It’s survival for all of us.”

He said the system can be retrofitted to any existing milking system on the market.

“And we do now sell it in Canada,” he said about the technology that just recently received Food and Drug Administration approval in the United States.

michael.raine@producer.com



James Duke of ADF Milking says the company keeps improving its automated teat dipping and liner flushing system, which is now available in Canada. | MICHAEL RAINE PHOTO

FERTILIZER APPLICATION

Nitrogen: shovelling or spoon feeding, it’s all about timing

BY RON LYSING
WINNIPEG BUREAU

Very few corn growers still apply the full load of nitrogen at or before seeding time.

Although a solid foundation of pre-seed nitrogen is applied in late fall or early spring, it’s generally accepted that too much nitrogen at any one time leads to leaching, volatilization and denitrification.

This holds true regardless of the

season or the type of nitrogen, according to the Fertilizer Institute.

Agri-Inject, a fertigation company in Yuma, Colorado, agrees with that group’s research. Agri-Inject specializes in designing and manufacturing chemical injection products for agriculture.

The two organizations state that closely matching nitrogen timing to nitrogen use minimizes nutrient loss and maximizes return on investment.

“By postponing a portion of the N treatment until the crop is better able to utilize the nutrient, plants take up the nitrogen more quickly and efficiently,” the Fertilizer Institute says in its reports on the practice. “That means growers get more from their fertilizer investment, and fertilizer losses that contribute to environmental concerns are lessened.”

It said the best management practices for corn production are

split applications and late season applications, better known as spoon-feeding nitrogen or just-in-time nitrogen.

There is unanimous agreement that spoon-feeding and just-in-time nitrogen is the smart route, but the discussion has become focused on timing and resources required to accomplish the task.

University of Missouri researchers have studied the timing issue for 20 years and concluded that

corn yields always improve when nitrogen is applied as late as tasseling. In studying rescue nitrogen application, they concluded that they “failed to find corn that was so late and so pitiful that rescue N was unprofitable.”

Erik Tribelhorn founded Agri-Inject in 1983, and has been dealing with that tricky timing question ever since.

CONTINUED ON NEXT PAGE >>

SOILS

Soil microbes more important than once assumed

AGRONOMY PRECISELY



AMY UNGER

There are more living organisms in one handful of healthy soil than there are humans on Earth. Their impact on soil fertility may soon change soil testing forever.

Soil testing already plays an important role in nutrient management decisions. Standard soil tests reveal levels of particular forms of macro and micro nutrients, pH, salinity and soil organic matter.

However, conventional methods stop short of measuring the biology of soil and the influence that soil micro-organisms have on nutrient availability and soil fertility.

Soil is home to many thousands of living organisms. Burrowing animals and insects such as gophers, earthworms, ants, and mites are the easiest to see, but they make up only a small portion of the life found in the soil.

These large organisms play a role in creating biopores that increase aeration and water infiltration while naturally turning over the soil.

Australia's primary industries



Richard Haney's USDA soil tests mimic natural nutrient availability.

| USDA ARS/PEGGY GRED PHOTO

department estimated that healthy soil earthworms can renew topsoil at an average rate of five millimetres a year.

As important as these large organisms are, the real powerhouses of soil are seen only under a microscope.

Nematodes, protozoa, bacteria and fungi are plentiful in the soil. These microbes affect the nutrient availability for plants both directly by interacting with the plants and indirectly by breaking down rocks and organic matter and freeing up nutrients in the process.

Microbes interact directly with plants to provide nutrients.

Glomeromycota fungi make up one of the seven divisions in the

fungi kingdom and are known for the way they build up mutually beneficial relationships with plant roots.

These fungi form associations with 70 percent of all land plants and act like an extension of the plant root to increase the reach of the roots.

The glomeromycota have hyphae that are smaller than root hairs. These hyphae access nutrients in soil micro-pores that a root would be too large to access on its own. The fungi provide phosphorus to plants in exchange for food in the form of sugars, fats and amino acids.

Symbiosis is another type of plant-fungi interaction. Instead of

extending the reach of a plant, fungi take up residence inside the plant.

Symbiosis is seen in root nodules of legumes, where fungi give nitrogen to the plant in exchange for a home and a supply of carbon-containing food.

This type of relationship is also seen in forage grasses such as tall fescue and perennial ryegrass, where the fungus inhabits all areas of the forages and dramatically improves plant growth.

Even without direct crop interaction, soil microbes can make nutrients available by breaking down rocks and parent material so nutrients that had been locked away become available for plants.

Microbes secrete acids that digest minerals and weather rocks to release nutrients such as phosphorus and potassium.

In the future, soil tests may indicate if nutrients are coming from fertilizer or natural microbes

Nutrients are also made available when microbes break down crop residue, manure and other organic matter. It can take microbes anywhere from a few months to a few thousand years to break down the organic matter completely, depending on the type of matter that is present.

Simple compounds such as sugars and fats can be consumed by microbes in a matter of weeks, while stable compounds such as lignin found in humus can remain unchanged for hundreds and even thousands of years.

Microbes scavenge organic matter to harvest the sugars, fats, amino acids and other carbon forms, which they use as food. Then they exhale or excrete other nutrients from the organic matter in plant available forms.

It may soon become normal for

soil tests to consider soil microbe populations and their activity.

Future tests may indicate whether nutrients come from commercial fertilizer or from natural microbes interacting with crops, thus dissolving parent material or breaking down crop residues.

When combined with standard soil tests, this information will allow growers to improve their nutrient application efficiency by revealing both the nutrients available in the soil and the nutrients that will become available by microbes throughout the growing season.

An example of this is the Haney suite of tests, developed by Richard Haney at the U.S. Department of Agriculture.

The tests measure soil health by mimicking the soil environment and the effect microbes have on nutrient availability.

Soil in the test goes through wetting, drying and the addition of an acid similar to what microbes release to acquire nutrients. In some cases, the tests have reduced nitrogen fertilizer costs by \$15 per acre.

As it becomes available to growers, more calibration is required to determine how accurately it reflects the state of nutrients in the soil.

A University of Colorado study examined the usefulness of measuring soil microbial communities along with standard soil tests compared to standard soil tests alone. It found that under some conditions, the statistical usefulness of soil testing increased when it factored in the microbes.

Considering the profound effect soil microbes have on making nutrients available to plants, it's likely that future soil tests will include an analysis of soil biology alongside current soil chemistry data.

Amy Unger is a guest columnist for Agronomy Precisely. You can reach her at amy@mymts.net.



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NITROGEN APPLICATION

» CONTINUED FROM PREVIOUS PAGE

"Researchers agree that a positive response to nitrogen application is seen when nitrogen is applied around the time of tasseling. The corn plant, however, takes up 20 percent of its total nitrogen after R2," Tribelhorn said.

"Much of that late-season nitrogen is used by the corn plant for grain fill. The difficulty in addressing the late-season need most efficiently is that most application systems can't operate much beyond the tasseling stage."

He said corn growers with pivot irrigation systems can spoon-feed nitrogen to the corn crop throughout the entire period of nutrient uptake, avoiding the peaks and valleys inherent in other application methods.

"Corn plants don't eat nitrogen; they drink it," he said.

"It makes sense to feed the plant at the same time it's taking up

water. With today's injection systems, you can precisely match the nitrogen delivered to the needs of the corn plant throughout its entire life cycle.

"More than half of a corn plant's sulfur uptake occurs after VT/R1. As a result, many farmers apply 28-0-0-5 through their pivots during the critical late stages of grain fill."

Beck's Hybrids in the United States conducted trials of variable applications last year, making a strong economic argument for nitrogen fertigation.

Two corn hybrids received 30 pounds of UAN via fertigation at the VT stage. Compared to irrigation alone without UAN, the response to UAN applied at VT was an additional 29 bushels of corn. The return on investment from nitrogen alone was US\$98.98 per acre.

Just-in-time spoon-feeding nitrogen through fertigation appears to make the most sense in terms of return on investment and environmental protection, say researchers.

ron.lyseng@producer.com

FOOD PRODUCTION

‘Honest food’ new buzzword in ag sector

Big supermarkets are driving food production, highlighting importance of traceability, management practices: consultant



The recently signed Comprehensive Economic and Trade Agreement will shape food-related transactions between Europe and Canada for generations to come. German agricultural industrialist and farm machinery inventor Michael Horsch was in Portage la Prairie, Man., earlier this year talking to farmers about current European food trends and how they may affect Canada. *Western Producer* reporter **Ron Lyseng** was there to catch the commentary.

PORTAGE LA PRAIRIE, Man. — Contrary to what most North American farmers believe, finicky European food trends are not driven by consumer demand or ivory tower agencies.

Instead, supermarkets pull the strings, says Michael Horsch.

Horsch is best known in Western Canada for his Maestro corn planter and zero till drills, but backhome in Germany, he serves on numerous food-related think-tanks, corporate boards, non-governmental organizations and an advisory committee for Lidl, one of the largest grocery chains in Europe.

He spends as much time dealing with the politics and philosophies of food as he does inventing new equipment.

Talking to a group of 50 farmers in the Portage area last spring, Horsch said the organic trend will never cover broad acres, but honest food likely will.

“Organic food is only for the rich. It’s a niche market. It stays a niche market,” he said.

I’m in a think-tank for a major supermarket chain. They want traceability. That’s what they get from big data. Once they see what’s in the food, if they don’t like it, they won’t buy it.

MICHAEL HORSCH
EUROPEAN GROCERY CHAIN ADVISOR

“Each organic farmer, he knows damn well if every farmer would be doing what he is doing, he’s out of business. It’s going to be a growing niche market, but it’s only the wealthiest part of society that’s going for organic food. But the average part of society, they will not.... They will not go for organic if there’s another option.

“And that other option is called honest food. Europe is setting new standards in what’s called honest food. It’s something you farmers should understand because it’s going to hit you guys soon.”

Horsch said honest food has a documented history of what it is, where it came from and how it was grown.

Honest food is prevalent in Europe and big data is growing in North

America. When the two meet, it’s going to change farming in most of the world.

“I’m in a think-tank for a major supermarket chain,” he said.

“They want traceability. That’s what they get from big data. Once they see what’s in the food, if they don’t like it, they won’t buy it.

“They’ll tell farmers on both sides of the ocean, ‘no more glyphosate, no growth regulators, no GMO, no hormones in wheat.’ What can farmers do then? The major grocery chains just won’t buy.

“The big supermarket chains are behind this, even though there’s not a scientific base for their actions. It’s more of a religion than science. Supermarkets are taking the initiative to prevent GMOs and other things they don’t like. It is not consumer driven. They hope the consumers eventually make those demands, but right now supermarkets are driving it.”

Big data kills GMOs

Horsch said genetic modification has helped farmers around the world efficiently grow corn and soybeans for the past 30 years. However, he thinks this efficient method of food production is coming to an end.

“Where I live, it isn’t the law that’s going to prevent GMO soybeans, it’s the supermarkets,” he said.

“They tell the dairy farmer they won’t accept dairy products if big data says they’re GMO.

“We can’t grow soybeans in Europe because of our climate, so 90 percent of our protein is imported from Brazil and North America, and they’re all GMO, of course.

“Then the supermarkets tell the dairy farmer he has no choice but to stop buying soybean products from Brazil and North America. So then does he go out of business or what does he do?”

Lack of diversity

Horsch said a reduction in diversity has been a major problem in agriculture.

“We have to be honest with ourselves about our mistakes,” he said.

“With 30 years of intensive farming all over the world, what have we done? We’ve gotten rid of diversity.



Michael Horsch, right, says farmers need to brace for more production demands, not necessarily by consumers but from large supermarket chains. | RON LYSENG PHOTO

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» CONTINUED FROM PREVIOUS PAGE

We've gotten rid of our old healthy rotations that had four or five or six years between each crop. Now we're down at two-year rotations or straight monocrop.

"Mother Nature wants diversity. If she doesn't get diversity, she's going to force the issue. We're getting caught right now."

Horsch said he has known South Dakota zero till researcher Dwayne Beck for many years.

Beck is known for his work in long rotations, some with as many as nine different crops in the plan. He advocates for crops such as camelina and has said that if there's no market for them, farmers should grow them anyway for the health of their land and then develop a market.

"I never used to agree with all those things Dwayne Beck said, but I'm afraid I have to admit I was wrong. I agree with him now," Horsch said.

"In Europe, we're facing severe problems right now because we've lost our diversity. Our main crop is winter wheat, up to 60 percent on many farms. But we were suddenly hit with black rust. It came so quickly, it took everyone by surprise.

"Now, many farmers cutting back their winter wheat acreage by half. But what can they grow for a cash crop on those other acres? They have no replacement on

those acres. So they grow cover crops or crops where they only break even. That's what happens when you've lost your diversity."

He said forages are necessary for long-term sustainability and crop health, but beef cows have to be in the mix as a way to market those forage crops.

In Europe, we're facing severe problems right now because we've lost our diversity. Our main crop is winter wheat, up to 60 percent on many farms. But we were suddenly hit with black rust. It came so quickly, it took everyone by surprise.

MICHAEL HORSCH
FOOD INDUSTRY EXPERT

"That's another bad (thing) happening in Europe today: there's a great movement away from meat," he said.

"This is not a small thing. It's a major movement to get people to stop eating beef.

"What can we do about it? The mind of the general public is changing by manipulation. We're now afraid that in Europe we will lose glyphosate, not in 15 years as we had thought, but maybe right now."

Third World needs

Horsch is on the board of an NGO that deals with aid to Third World countries, and his travels often bring him to Africa, Asia and India. He said the experience has given him a new perspective on the cheap food concept.

"When grain prices are high, Third World farmers make money. They are able to find buyers for their grain, rice and corn," he said.

"In these struggling areas, 90 percent of the poor live on farms. They're out in the country, so they benefit directly from high grain prices. They want high grain prices.

"What happens when the global market sees \$3 corn and \$4 wheat? We build up huge inventories again and end up dumping surplus on the doorsteps of the Third World again. We'll throw surplus grain into those countries for nothing, so their farmers can't earn a living. Why should they work? We've destroyed their market."

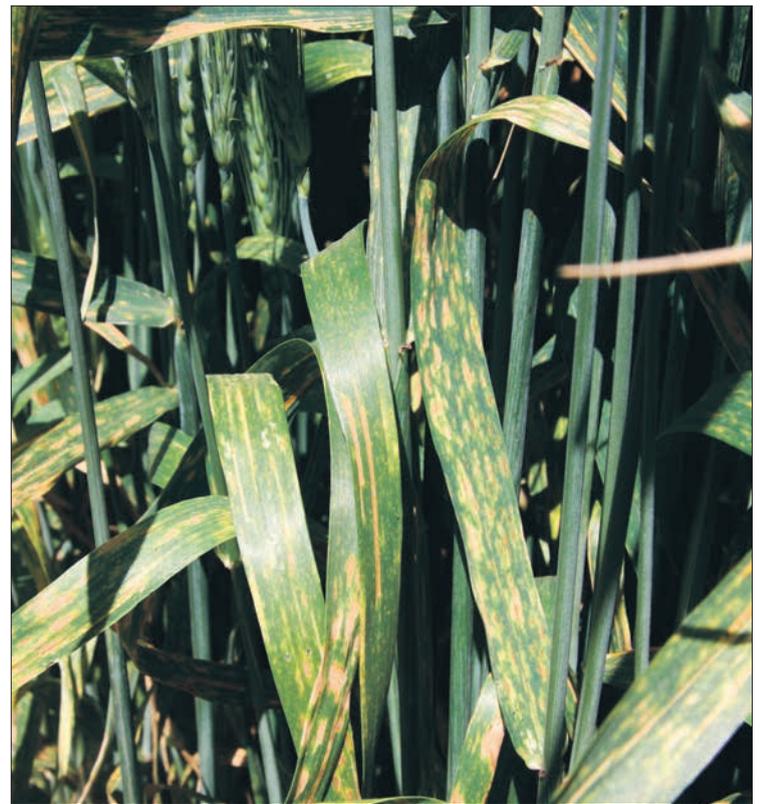
Horsch said 70 percent of the world's grain production comes from a narrow band 2,100 kilometres wide and extending from the U.S. west coast to the east coast of China and Russia. Human starvation will rise dramatically if modern agricultural technology is banned from that band of land, he added.

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70 %

OF GRAIN PRODUCTION COMES FROM
A 2,100 KM GLOBAL BAND OF LAND

SOURCE: MICHAEL HORSCH



The mild weather is ideal for stripe rust, wheat streak mosaic and powdery mildew in winter wheat. | FILE PHOTO

DISEASE ALERT

Winter wheat growers get disease warning

Start thinking about winter control measures

BY BARB GLEN
LETHBRIDGE BUREAU

Some prairie farmers are still trying to finish harvest as November wears on, so potential for crop diseases in 2017 are likely far from their minds.

Even so, warnings from Montana indicate stripe rust, wheat streak mosaic and powdery mildew have appeared there in winter wheat crops. They could overwinter this year and spread into the Prairies.

Mary Burrows of Montana State University reported last week that the three diseases have taken advantage of mild fall weather without snowfall or significant freezing temperatures. They require a green bridge to overwinter and so far, they have it.

Relatively mild conditions have also been the case across much of southern Alberta and Saskatchewan.

Alberta Agriculture crop pathologist Mike Harding said he hasn't heard of any disease appearance in winter wheat on this side of the border, but he suspects few farmers have looked.

Even if they did, nothing can be done about it now, other than to start thinking about spring control measures and 2017 cultivar choices.

"It's just kind of an alert," he said about information shared by Burrows.

"Because we've had such a long open fall, (the three crop diseases) had a chance to move from any of the spring seeded cereals that were harvested late, they could move to the winter wheat that was seeded early.

"Because that winter wheat will stay green through the winter, all those guys will survive there, and so we could have some early outbreaks. Lots of things can still happen between now and then, but

the fact that they're already seeing it on winter wheat and it's November and we don't have snow cover, is an indication that it's likely to overwinter, so we'll have to be on the lookout for it early in the spring."

In her report, Burrows said it has been difficult to break the green bridge in Montana because of rainfall, widespread hail and farmers' reluctance to apply many crop treatments because wheat prices are low.



MARY BURROWS
MONTANA STATE UNIVERSITY

Burrows also quoted Xianming Chen at Washington State University, who recently provided a stripe rust prediction for the Pacific Northwest.

"Based on the current weather forecast, stripe rust will continue developing in the rest of November," Chen wrote in an email to Burrows.

"At this point, fungicides are not recommended before the real winter as much of the infected leaves and stripe rust fungus could be killed in the winter.

However, growers should prepare for early fungicide application in the coming spring."

Harding said farmers should file that information away in their minds and bear in mind that winter will determine whether the diseases overwinter here.

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Pampered pigs cater to Japanese tastes

Appetite for high-quality fare spawns marketing campaigns by North American exporters

WINNIPEG/TOKYO (Reuters) — Thousands of pigs bound for Japan are getting five-star treatment on select Canadian farms.

Japan's growing appetite for pricey pork cuts is driving Canadian and U.S. fresh pork exports to record levels, spurring producers to use every advantage to gain market share.

Most of Olymel's pigs eat pedestrian wheat and barley fare, but others dine on rations spiced with mint and ginger on a Saskatchewan farm dedicated to fattening hogs bound for Japan, the world's second-biggest importer of the meat.

Some Canadian hogs are indulged with 12 times more rest before slaughter than pigs destined for other markets to ensure stress does not turn the meat dry. Meanwhile, another hog producer has opened an eatery in a trendy Tokyo district to show off its pork.

"The Japanese consumer is probably the most powerful consumer of pork in the world, and they understand the difference in quality," said HyLife president Claude Vielfaure.

Rich premiums paid by Japanese consumers have fuelled intense competition and led to cross-Pacific partnerships between North American hog producer Smithfield Foods and Japanese trading house Sumitomo Corp., as well as processor HyLife with trader Itochu Corp.

Tyson Foods Inc. and Maple Leaf Foods Inc. also rank among North America's biggest pork suppliers, while processors NH Foods Ltd. and Itoham Yonekyu Holdings and meat wholesaler Starzen Co. Ltd. import large volumes of North American chilled pork.

U.S. exporters shipped 147,000 tonnes of chilled pork to Japan from January to August, setting a record-brisk pace, according to the U.S. Meat Export Federation (USMEF).

Canada sold \$679 million worth of pork to Japan for the period, its fastest pace in 11 years as measured by value.

The shipments show trade growth is possible based on consumer tastes and favourable prices, partly because of the yen's strength against the U.S. and



Canadian hog producers go to great lengths to gain the attention of Japanese pork consumers. | REUTERS PHOTO

Canadian dollars, even as broad trade deals such as the Trans-Pacific Partnership suffer setbacks.

Pork is the second-most consumed meat in Japan after fish, according to USMEF.

Japanese buyers pay \$1.20 per

PIGS HEADING TO JAPAN GET 16 to 24 hours OF REST BEFORE SLAUGHTER TO INCREASE TENDERNESS

kilogram more than Canadian buyers, factoring in the exporter's premium, freight and tariffs, said Ray Price, president of Alberta processor Sunterra Group. For a large high-quality loin, that works out to a bump of \$5.40 to the wholesale price.

In September, Manitoba-based HyLife opened a restaurant in a Tokyo business district to enhance its reputation, serving back ribs and pulled pork salad.

HyLife, which is 49 percent owned by Japan's Itochu, is spending up to \$125 million to expand processing and boost Asian sales.

At Lucyporc's Quebec plant, pigs rest in a quiet barn for 16 to 24 hours before slaughter to reduce stress, compared with the industry standard of two to five hours. The result is juicier, better-tasting tenderloins, said general manager Denis Levasseur.

Olymel said feeding ginger and mint to hogs doesn't change the taste of the meat, but it gives it a marketing edge, said Richard Davies, senior vice-president of sales and marketing.

In the United States, packers Rantoul Foods and Smithfield process hogs that are specially bred for Japan, distributed by Sumitomo and sold as Silky Pork brand.

Japan produces slightly more than half of the pork it consumes, limited by farmers' advancing age and the more than double production cost compared with North America, said Takashi Koiso, managing director of the Japan Pork Producers Association.

Prime Minister Shinzo Abe's government aims to raise that to 58 percent to satisfy Japan's appetite for dishes such as gingered pork.

The United States and Canada, Japan's two largest offshore chilled pork suppliers, take advantage of shorter shipping times than European competitors, which sell mainly cheaper frozen pork, said Erin Borrer, an USMEF economist.

Japanese trading house Itoham has doubled chilled pork imports from Canada during the past five years and plans a further boost of 20 percent this year over last year, said spokesperson Aiko Komeda.

To be sure, Japan is not within everyone's reach.

J.H. Routh Packing Co., a family-owned Ohio processor, sticks to serving U.S. buyers, avoiding the high cost of Japan's specifications. "We found our niche," said sales manager Tony Stearns.

"Trying to go and develop another market, (for which) we would have to buy equipment that costs millions, there's no real value in doing that."

While premiums can be lucrative, Japanese buyers often pay less than domestic buyers in spring, when prices rise, said Dave Bulgarelli, vice-president of sales at Rantoul.

"You have to make what they want, not what you want to sell," he said.

CANADIAN NATIONAL RAILWAY

Derailment review reveals problems

BY KAREN BRIERE
REGINA BUREAU

An undetected defect led to a broken rail, the derailment of 26 cars and a flash fire on a Canadian National Railway line near Clair, Sask., two years ago, says the Transportation Safety Board of Canada.

About 50 people were evacuated and a highway closed as a result. No one was injured.

At a Saskatoon news conference, the board revealed that the train derailed due to a "sudden and catastrophic failure" of a rail that ultimately destroyed nearly 200 metres of track.

"Poor rail surface conditions had masked the presence of this defect and reduced the effectiveness of visual inspections and ultrasonic inspections," the board said.

The TSB said ultrasonic testing hasn't picked up defects a total of seven times in the past 10 years.

At Clair on Oct. 7, 2014, the CN freight train bound for Edmonton from Winnipeg derailed 26 cars, including six Class 111 tankers loaded with dangerous goods. Two cars contained petroleum distillates, and emergency responders flared product that had spilled on the ground, which ignited vapours still in the tanker and led to the fire.

Two responders had to avoid a fireball. The TSB said the responders were likely tired and didn't consider all of the risks associated with flaring. It also found that CN did not document the close call or proactively share the information.

The report identified deficiencies in provincial incident commander training, emergency response activity monitoring and post-response follow-up.

"If company and industry guidance is not followed and close calls during emergency response activities are not properly documented and openly shared among all responding agencies, similar circumstances could occur, putting emergency response personnel at risk," said lead TSB investigator Rob Johnston.

CN has since improved its procedures, and the provincial environment ministry has improved training for incident commanders.

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LIVESTOCK

UNTIL THE COWS COME HOME

Manitoba's agriculture minister would like to see expansion in the provincial cow herd, but producers say there are a few barriers to that goal. | **Page 61**



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FARMAIR INTERNATIONAL

Serhienko family finds new ways to win

Charolais breeders win supreme female with a Black Angus pair at Farmfair

BY **BARBARA DUCKWORTH**
CALGARY BUREAU

EDMONTON — Standing in the winner's spotlight is not a new experience for Dennis Serhienko and his family.

But this year, how they got there surprised many.

The Serhienko family is well known as a Charolais breeding operation based at Maymont, Sask., which has won several times at Regina's Canadian Western Agribition for big white females and bulls.

But at Edmonton's Farmfair International, the family broke from tradition and won the supreme female with a Black Angus pair.

The honour went to a cow named SC Mich Rose 30X with a heifer calf at side.

It is owned in partnership with Serhienko Cattle Company, Michelson Land and Cattle of Lipton, Sask., and Wheatland Cattle Company of Bienfait, Sask.

Dennis and his daughter, Katie Serhienko, also showed the grand champion Charolais female and Katie had the grand champion prospect calf.

The Alberta supreme show is the culmination of the Olds Fall Fair, Lloydminster Stockade Roundup and Farmfair International, which



Dennis and Katie Serhienko of Maymont, Alta., stand in the spotlight after winning the supreme champion female at Farmfair International in Edmonton. The family raises Charolais and Angus cattle.

| BARBARA DUCKWORTH PHOTOS

was held Nov. 9-13.

Champion cattle gather in Edmonton for the final leg of the show circuit. The supreme winners receive a Dodge Ram truck and other prizes.

In an interview before the final show, the father and daughter team talked about the cattle business and where they fit in the competitive purebred world.

The Serhienko Cattle Company is a traditional Charolais operation,

which is currently down to about 50 cows following a major sale to a large family ranch in Mexico. The buyer was looking for a well-known brand and wanted a maternal type Charolais.

"I was excited to see them go, but I was sorry to see them go," Dennis said.

The decision to add Angus cattle through partnerships is part of an evolution for the operation. Serhienko considered them a good fit

that cross well with Angus cows to produce a smoky-coloured calf.

"The Angus is the maternal breed of choice. The nice thing with Charolais is when you cross Charolais on Angus, they are very identifiable," he said.

"The silver calves go to a sale barn and they know they are Charolais-Angus."

He said he thinks Charolais are faster growing, more efficient with feed and add red meat, while the

Angus add marbling to the carcass.

The Serhienko family might be known in the show ring, but Dennis also wants economically viable cattle that earn their keep.

"The banners are nice but at the end of the day, the cattle have to be functional. Banners don't pay bills."

Serhienko also thinks it's important to mentor young people to build their interest in agriculture.

"The shows get the young guys and girls interested and they become good stockmen later on," he said.

"There is so much technology in the beef industry now and we old guys don't embrace it enough. It seems the next generation of the daughters and sons bring the technology and stockmanship together now," he said.

Katie is learning those skills. She is a second-year agribusiness student at Lakeland College in Vermilion, Alta., where she takes time off from her schedule to help show cattle and work on the farm.

"They understand and they are very hands-on oriented, so they want you out in the industry more," she said.

When she graduates she wants to work in agribusiness off the farm but hopes to return to the farm later.

Her sister Cassie is still in high school but helps at the big shows as well.

The entire family plans to attend Canadian Western Agribition at the end of November with a full complement of show cattle.

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FARMAIR INTERNATIONAL

Mother, daughter team up for show

BY **BARBARA DUCKWORTH**
CALGARY BUREAU

EDMONTON — Some mothers and daughters like to shop together.

Deanne Young and her daughter, Stacy Romanyk, like to show cattle together.

Stacy is married to Don Romanyk and they started Double R Simmentals and work with her parents, Rob and Deanne, at High Country Cattle Services near Breton, Alta., where the animals are kept. All of them also work off the farm and pull together to keep everything running smoothly.

It is a family-oriented operation and they all help each other, but none are opposed to some friendly competition in the show ring.

"At the end of the day, it is a family operation," said Stacy after the Simmental show at Farmfair International, held Nov. 9-13 in Edmon-

ton. The family had the grand champion pen of three bulls at the commercial show and it took all hands on deck get the cattle ready for the judges.

"We enjoy doing it as a family and each person makes a contribution. We all have our role. Dad is the day-to-day guy, I do the marketing, Mom does the paperwork," Stacy said.

Stacy showed her first calf at the age of five and Deanne was nearby to help her and her sister, Crystal.

"People said we were not very good parents because we were making our kids show when they were so young," said Deanne.

"It wasn't that we were making them, we couldn't keep them out of the barn and they were asking to go to shows," she said.

Stacy's sister, Crystal Blin, lives on a Hereford ranch in Iowa.

Each girl had her own cattle, which eventually paid for post sec-

ondary education and travel.

Stacy went through the Young Simmentals Association and her mother was among the founders to get the junior program running in Canada. Stacy went on to become provincial and national junior president.

Deanne's father is long-term Alberta Beef Producers delegate Chuck Groeneveld. Simmentals were a big part of the family life. He was Alberta Simmental president and Stacy now sits on the Simmental board.

"We have all tried to give back to the association because it has given us a pretty good lifestyle," said Deanne.

She and her father are one of two families to have two generations sit on the Simmental association's board of directors.

"We have grown up with the breed," said Deanne.

Showing cattle makes for hard



Mother and daughter team Stacy Romanyk and Deanne Young are regular competitors at cattle shows promoting Simmentals and sound beef production.

work, but it is part of marketing and sharing their experiences with people outside of their usual circles. It is often the only contact they have with urban people where they can talk about farm life, beef production and animal care.

"We taught the kids the main job was to stay at the stall, promote the cattle and say hello to everyone who comes by because you don't

know where your next customer is going to come from," Deanne said.

They have about 100 breeding cows and have an extensive embryo transfer program, including sales across Canada, United States and Australia. They also travel looking for new cattle.

"We go all over looking for genetics we can use," Deanne said.

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FARMAIR INTERNATIONAL

Blondes retain small portion of Canadian market

The breed is more popular in Europe where yield is the focus rather than marbling and meat tenderness

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Blonde d'Aquitaine may be the third largest breed in France, but in Canada their numbers are small.

"There is a small but very active group," said David Kemelchuk, president of the Canadian association.

The blonde-coloured cattle were part of the wave of big, beefy cattle imported from Europe in the late 1960s and early 1970s. Blonde cattle came from the Pyrenees area of France and were introduced to Canada in 1971.

People remember them but few use them these days, said Kemelchuk of Ellscoot, Alta. He got into the Blonde business in 2001.

"Most people you talk to know of Blondes and they liked them but the market has swayed," he said.

Canada has developed a strong Angus base in its national cowherd that can be a formidable competitor for the minor breeds.

"We are a small breed so it is hard to out market the Angus," said Reed Rigney, secretary of the association.

There are about 100 breeders in Canada with most in Ontario and Quebec.

The cattle were on display at Farmfair International held in

Edmonton from Nov. 9-13. They were shown in the all-other-breeds category with Rigney winning grand champion bull and Kemelchuk taking grand champion female.

Rigney's grandfather, Hugh Rigney, was an early adopter of Blonde d'Aquitaine when he got into the business in about 1974. He bought some percentage females and added full-blood females in 1975.

We are a small breed so it is hard to out market the Angus.

REED RIGNEY
BLONDE D'AQUITAINE ASSOCIATION

A strong promoter of the breed, he was active in shows and the Canadian board of directors.

Blondes have a finer bone structure with a well-defined musculature that produces lean, fine-grained meat with a high yield.

Both breeders believe that ability to increase beef yield has a place in the Canadian industry. While producers chase marbling to get higher grading beef, yield has declined. Adding a Blonde bull to the herd could improve that, they said.

Both men have other breeds and



Reed Rigney of Westlock shows off his champion Blonde d'Aquitaine bull at Farmfair International Supreme show held in Edmonton Nov. 9-13. | BARBARA DUCKWORTH PHOTO

use the bulls for crossbreeding.

Kemelchuk has commercial cattle with Simmental-Red Angus cows that he breeds to Blonde bulls. The result is more muscular calves that are tan to red in colour. He sells the calves at auction.

"The pure blonde calves get a little discounted because they are a more lean breed so the feeders think they will take longer to get

AAA," Kemelchuk said.

"They have a good carcass quality but it takes longer to get a good finish because they are a lean muscle breed so they work well on the terminal cow," he said.

Rigney had a chance to visit France last summer to see Blondes and discovered the Canadian type is not much different. Cattle of this type are more popular in Europe

where the grading system rewards yield rather than marbling and quality.

When the Blondes arrived in Canada, they were adapted to conditions of their homeland, so Canadians refined the muscle structure and selected for improved fertility, more milk as well as better feet and legs.

At his farm at Westlock, Alta., Rigney crosses them with Angus.

"Then you can get yield with the ability to marble," he said.

He has found them to be a feed efficient breed.

"If you are going to feed Blonde steers, they need a higher plane of nutrition and they will do very well and do it efficiently," Reed said.

"The guys who learned to feed them, like them because of the yield," he said.

To prove their point, association members need to gather a large number of steers to show how they can perform under the right conditions.

In Ontario, many are marketed direct or go through Norwich Packers, which handles specialty products.

At the end of 2015, the Blonde d'Aquitaine association registered 19,500 fullbloods, 15,925 purebreds and 21,900 percentage cattle.

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SASKATCHEWAN CATTLEMEN'S ASSOCIATION MEETING

Cattle producers call for carbon storage payments

BY KAREN BRIERE
REGINA BUREAU

WHITEWOOD, Sask. — Cattle producers in southeastern Saskatchewan say they should be paid for sequestering carbon.

At a recent district meeting of the Saskatchewan Cattlemen's Association, producer Blain Hjertaas said producers store far more carbon than they emit.

"The average Canadian's carbon footprint is 18.9 tonnes," he told the meeting. "I've been monitoring carbon on a number of farms in the southeast over the last number of years and the average that producers are putting down is 27 tonnes per hectare (10.9 tonnes per acre) per year."

He said because producers are doing more than just covering their own ecological footprints, they should be paid for the ecological goods and services they provide.

"We've been doing this for free for a good long time and if we're talking a \$10 a tonne carbon tax ... we're talking about \$100 per acre per year," he said. "I think that would take some of the sting out of cattle prices."

Ralph Corcoran said the amount of carbon stored on his land went up when measured two years in a row.

"This could be a great help," he said.

Producers at the meeting passed a resolution asking the SCA to lobby provincial and federal govern-

ments for a program that would pay them for measurable soil carbon increases on their land.

They also encouraged the Canadian Roundtable for Sustainable Beef to support policies that pay producers.

The meeting also passed a motion to implement the approved increase of the national checkoff on April 1, 2017.

At the 2015 SCA annual meeting, producers agreed to a national checkoff of \$2.50 per head to support the national beef strategy. Other provinces, except Ontario, have also agreed to raise the levy from the current \$1.

Most of the money the additional checkoff would raise, more than half of the expected \$16 million to \$17 million, is to go to Canada Beef but research would also benefit.

"The next step is implementation," said past-chair of Canada Beef Jack Hextall.

That's critical because the Beef Cattle Research Council is working on its priorities.

"They can't put in a five-year plan unless they know they're going to have the money to do that," Hextall said.

SCA members also passed a resolution to encourage the development of biological control for invasive absinth and burdock.

One new director, Keith Day of Kyle, was elected in District 3B to replace the retiring Larry Grant.

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MANITOBA BEEF PRODUCERS MEETING

Profit instability major barrier to herd expansion

Cattle producers say margins are generally tight, and attracting new entrants to the sector requires price stability

BY ROBERT ARNASON
BRANDON BUREAU

ARBORG, Man. — Manitoba Beef Producers wants to know if ranchers in the province are planning to expand their cattle herd.

And if not, why not?

MBP general manager Brian Lemon and other leaders of the commodity group have visited more than 14 Manitoba towns this fall as part of the organization's annual regional meetings.

The headline item on the agenda has been increasing the size of Manitoba's cow herd. As of July 1, the province had about 459,000 beef cows, based on Statistics Canada figures.

Ralph Eichler, the province's agriculture minister, said this summer that Manitoba should dramatically expand its herd. He suggested a target of 750,000 beef cows in perhaps a decade.

Lemon wants to know if cattle producers support the idea, but many of the producers at a mid-November meeting in Arborg, in the province's Interlake, were skeptical.

Darvin Firman, who farms north of Arborg, said growth doesn't happen just because the agriculture minister says it's a good idea. If ranchers have confidence and believe there is an opportunity, the herd will grow naturally, he added.

Another producer said he's nearing the end of his farming career and has no interest in expansion.

Since older producers are unlikely to increase their herds, the industry needs new entrants and enthusiastic young ranchers to reach a target such as 750,000 beef cows.

Lemon heard similar comments at the other meetings in Manitoba, and one theme that constantly came up was profit stability.

With the exception of a couple of years, thin profit margins have been the norm in the beef sector in the last 10 to 15 years.

To attract new producers, the industry needs to show that it's possible to make a "decent living in a predictable way," Lemon said.

Dennis McMahon, a young producer from Inwood, Man., agreed that consistent profitability is key.

He has 50 cows and would like to increase to 150, but it will require capital.

"I've got to make the bank believe it's profitable," he said.

"There's got to be a profit margin." Profitability may be critical but so is perception.

Betty Green, who farms near Fisher Branch, said the cattle sector doesn't do enough to promote the opportunities in beef production.

Crop science companies are constantly talking to university students about careers in agriculture, but ranchers don't do the same



Manitoba would like to increase the size of its cow herd, but producers say executing such a plan is not going to be easy. | WILLIAM DEKAY PHOTO

kind of outreach.

"We're never there saying, 'come on out, we'll give you a chance to experience life on the farm,'" she said. "Maybe we need to be there a little bit more."

Lemon said there is an image problem, but producers have a role in shifting that perception.

If young people hear only about the suffering and struggle of livestock production, the message will scare off new entrants.

"I've heard it said that we're our own worst enemies in trying to attract the next generation," Lemon said.

"It's hard work but I enjoy it, it's a different story than (hardship)."

The MBP asked producers to fill out a survey at the regional meetings to gather information on barriers to expansion and policies that might encourage growth.

Lemon said the provincial government would not be driving the expansion plan.

Eichler told the organization that the initiative must be "industry led."

robert.arnason@producer.com

THE BEEF COW HERD ON THE PRAIRIES

Jan. 1 cow numbers (thousands)	2000	2004	2008	2012	2016
Man.	515	638	614	484	440
Sask.	1,100	1,426	1,449	1,192	1,131
Alta.	1,890	1,960	1,960	1,596	1,565

Source: Statistics Canada

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ROLL OF AUTOPHAGY

Cell research paves way to treatment

ANIMAL HEALTH



JAMIE ROTHENBURGER, DVM

This year, the Nobel Assembly has awarded the 2016 Nobel Prize in Physiology or Medicine to Japanese researcher Yoshinori Ohsumi.

His remarkable work focused on understanding how cells eat themselves. Cells are the tiny building blocks that form the tissues and organs that make up our bodies.

Using generic baking yeast, he identified the genes responsible for this self-eating process at a cellular level. From there, he worked to understand the different components of the autophagy system and how they work together.

Yeasts have similar but much simpler cellular processes to animals. His work in the humble yeast made it possible to understand autophagy in animals and people, which are infinitely more complex and challenging to study.

The process of self-eating is central to many normal functions in the body. For example, cells ramp up autophagy during times of distress. When the body is going into a state of starvation, autophagy is a way for nutrients to be recycled. By

breaking down non-essential cell components, autophagy allows these to be repurposed. It is a survival step that can function as an intermediary or alternative to cellular death.

This process is highlighted by critters that hibernate like bats, bears, and squirrels. Autophagy likely plays a key role in maintaining muscle mass during the long months these animals spend inactive and not eating.

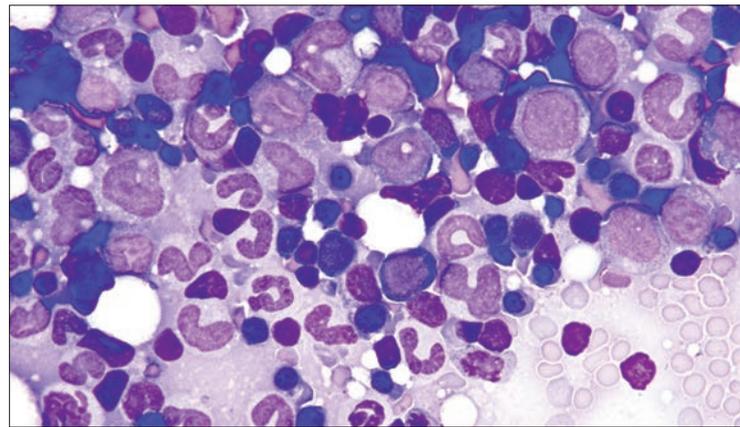
Within cells undergoing self-eating, non-essential components, infectious agents and other cellular waste are wrapped in a membrane. These fuse with other packages containing enzymes and acid, which break down whatever is inside for re-use elsewhere in the cell.

By keeping this all within a membranous package, the cell avoids harming normal components that are functioning well.

Autophagy plays a key role in normal physiological processes. At the end of their lactation, cows undergo a remarkable transformation within their mammary glands. From producing litres of milk to being completely dried off, all those tissues have to change from secretion to regression. Autophagy has an important role in this process.

Optimum changes during the dry period are essential to setting up the mammary gland for high milk yield in the next lactation.

Autophagy has a dual role in infectious diseases. Self-eating can effectively eliminate infectious



Cells like these use "self-eating" to conserve energy.

| JAMIE ROTHENBURGER PHOTO

agents like viruses and bacteria from individual cells. But in some cases, the pathogen can also hijack the autophagy process and use the machinery for its own purposes to enhance infection.

For example, influenza A (the type that infects people, birds and pigs and is responsible for the winter flu season), manipulates the self-eating process by first triggering it but then preventing the recycling step.

This allows viral components to accumulate within the cell and leads to more virus being produced, ultimately enhancing infection. Responses to other infections like bovine viral diarrhoea, bovine respiratory disease of feedlot cattle and equine strangles all likely involve the autophagy process.

In cancers, which affect both people and animals, autophagy may have a crucial role in preventing cancer formation. Self-eating recycles damaged proteins and stressed components, which could trigger cancer if allowed to accumulate. But once tumours develop,

autophagy may be essential for allowing cancerous cells to survive and proliferate. The environment within a tumour is stressful for cells because there is poor blood supply, yet very fast metabolism that rapidly generates waste.

Self-eating in this situation keeps the cancerous cells alive and well. Autophagy may also explain why some cancers become resistant to chemotherapy.

In human medicine, researchers have linked abnormal autophagy to a suite of neurodegenerative diseases including Alzheimer's, Huntington's and Parkinson's diseases.

These are a few examples of how this discovery has implications for human and animal health. As we learn more about this fundamental biological process, researchers may discover new ways to treat disease and infections.

Dr. Jamie Rothenburger is a veterinarian who practices pathology and a PhD student at the Ontario Veterinary College. Twitter: @JRothenburger

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Matthew Braun, PAg
Conservation Science & Natural Area Manager
Nature Conservancy of Canada
Regina, SK

Matthew works closely with conservation groups in Saskatchewan to conserve biodiversity in the province. He provides broad scale planning for operations and on-ground implementation of the planning results.

"The professional agrologist (PAg) designation allows me to grow my social and professional network

with others in the industry, and it assures the public that agrologists provide accountable and professional advice."

Matthew was raised on a grain farm in Osler, SK. He received a BSc in agriculture and an MSc from the University of Saskatchewan. Matthew previously worked in the ranching and farming industry for the BC Provincial Government before joining NCC in 2014.



Jennifer Kreway, PAg
Crop Inputs Manager
Richardson Pioneer Limited
Balgonie, SK

Jennifer provides one-on-one field and crop planning for producers in the Balgonie, SK area. She provides advice, guidance and overall management of crop inputs at the location.

"The professional agrologist (PAg) designation gives growers the confidence that my advice is ethical and trustworthy."

Jennifer grew up in Cornwall, England on a dairy farm then moved in 1999 with her family to Ituna, SK to a grain farm. She received a BSc in Agronomy and a minor in Agribusiness from the University of Saskatchewan. Jennifer was previously employed by independent companies before joining Richardson Pioneer in 2009.

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FEED EFFICIENCY

Impact of cattle selection on feed use studied

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Lakeland College emphasizes learning by doing through student-managed farms.

In keeping with that mission, this year the college at Vermilion, Alta., started a student-managed livestock applied research team.

The project involves a herd of 50 Angus replacement heifers, which

will be part of feed efficiency projects and will be involved in future studies to provide information to cow-calf and feedlot operators.

"I am hoping we can tie that feed efficiency in with the grazing site," said Geoff Brown, program head of animal science technology.

Working with Dr. Susan Markus from Alberta Agriculture, the students will help evaluate the impact of selecting cattle for feed efficiency.

The cattle will be placed into an extensive grazing program and over time the genotyped heifers will be ranked for low, medium and high feed efficiency. This is a commercial herd and they have been bred to genotyped bulls.

Researchers want to see how accurate genotyping is when compared to physical data, such as weaning weights, calving and reproduction.

"In the crossbred cattle, (genotyping) is not translating over as well as it does with purebreds. There is still some work to be done in terms of getting accurate numbers," Brown said.

The animals have grazed corn and grass with a plan to keep them on pasture year round. The difficulty will be figuring out how much grass the animals are eating and how much they are gaining, said Brown.

The cattle were on display at Farmfair International, which was held Nov. 9-13 in Edmonton.

The college has student-managed divisions that include purebred, commercial, dairy, sheep and research.

barbara.duckworth@producer.com

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cattle call



MCDONALD'S LAUNCHES CANADIAN SUSTAINABLE BEEF PILOT PROGRAM

BY ANNEMARIE PEDERSEN
FREELANCE WRITER

WHEN MCDONALD'S Canada announced the successful conclusion this summer of its Verified Sustainable Beef Pilot, it was an industry first. The pilot marked a major milestone in the McDonald's collaborative partnership with the Canadian beef industry.

Over 30 months, McDonald's worked to advance more sustainable beef practices and support the global company's broader aspirational goals to source all of its food and packaging sustainably.

"As a progressive burger company, we are changing the way we source and serve food in our restaurants. We have an important role in helping build a more sustainable food system globally through initiatives such as the sustainable beef pilot in Canada and we're committed to continuing this important work around the world," says Steve Eastbrook, President and CEO, McDonald's Corporation.

The pilot successfully demonstrated that not only can sustainable practices and outcomes be verified through the entire Canadian beef supply chain (from farm to processing), but cattle from verified sustainable beef operations can also be

tracked through these operations.

Canada leading the way

The Verified Sustainable Beef Pilot Project in Canada is the first program ever to bring the Global Roundtable for Sustainable Beef (GRSB) principles and criteria to life and make them actionable across the entire beef value chain.

Canada was selected as the testing grounds for the pilot for a number of reasons.

First and foremost was the leadership the Canadian beef industry was showing, from regional associations and other stakeholder organizations to the Canadian Roundtable for Sustainable Beef (CRSB), which



was already in place.

Additionally, Canada had in existence a number of programs and tools such as the Beef InfoXchange System (BIXS), the Verified Beef Program (VBP), the Code of Practice for the Care and Handling of

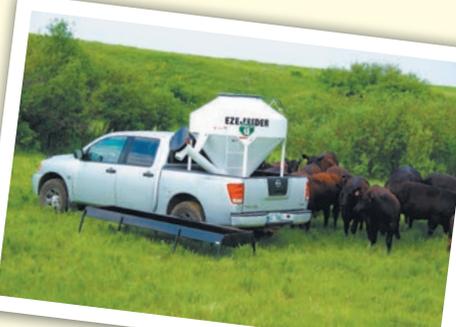
Beef Cattle, Environmental Farm Plans and mentorship programs like the Cattlemen's Young Leaders. Many of these programs were critical to the work of the pilot.

continued on page 64 >>



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SUSTAINABLE BEEF

» continued from page 63

Finally, McDonald's existing commitment to Canadian beef and the streamlined value chain – two major packers feeding into a single patty plant that served all Canadian restaurants – made the logistics of the pilot much simpler.

Global criteria, Canadian solutions

The GRBS's principles and criteria created the foundation for the pilot. The indicators developed by the pilot team underwent over 150 edits, with input from beef producers, feeders and packers as well as industry stakeholder groups from all parts of the value chain.

The five indicator categories or principles, on which pilot participants were measured, encompass:

- Natural resources, such as ensuring soil health, water supply, and wildlife and plant biodiversity.
- People and community, including ensuring a safe work environment and commitment to supporting the local community.
- Animal health and welfare, such as adequate feed and drinking water and minimizing animal stress and pain.
- Food, such as ensuring food safety and beef quality, including training and registration in the Verified Beef Production (VBP) program.
- Efficiency and innovation, such as recycling and energy efficiency programs.

Two separate sets of indicators were created for cow-calf operations and feeders, as well as a separate set of indicators for the packers. Each set had over 30 criteria divided among the five principles and were all scored and ranked individually.

All verifications were done in-person with a verifier on the farm and all participants received their report as well as a benchmark report to show how they aligned with the industry. All results were confidential.

Just the numbers

In a little over one year, 182 operations (121 ranches, 34 backgrounding operations, 24 feedlots, two beef processors and one patty plant) completed the third-party process to verify their beef operations as sustainable under the Pilot project.

Through that verification, 8,967 head of Canadian cattle spent their entire lives, from "birth to burger," raised on or handled by verified sustainable operations, which equated to approximately 2.4 million patties or 300,000 pounds of beef.

The chain of custody throughout the system was enabled by enrolment of all participants in the BIXS program.

As one of the country's largest Canadian beef purchasers McDonald's Canada sourced about 65 million pounds of beef from Canadian beef farmers to produce its 100 per cent Canadian beef patties last year.



The New Rosedale Feedmill now sells complete feeds, cattle minerals, and premixes. | NEW ROSEDALE FEEDMILL PHOTO

SMALL COLONY

BY ANNEMARIE PEDERSEN
FREELANCE WRITER

THE NEW ROSEDALE, Man., Hutterite colony built its feed mill in 1998 with no other plans than to fill the need for livestock feed on the farm.

"No sooner had we built the mill than we had demand from other livestock producers asking us to make feed for them," says Stanley Baer, mill manager.

Keeping up with demand

As demand for their feed grew, they made the decision to become a commercial operation. The mill be-

came a member of the Animal Nutrition Association of Canada (ANAC) and passed all the qualifications required for legal trade scale including hiring nutrition consultants.

The small mill continued to grow from there. "We started making our own pre-mix about five years later, and then started making premix and complete feed in one plant. We outgrew that plant – we were just too busy," says Baer. By 2003 they had built a very small pre-mix plant, and now have expanded to a plant where about 60 ingredients automatically run through four scales operated by the latest software.



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A federal-provincial-territorial initiative

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Canada

MILL EXPANDS ACROSS THE PRAIRIES

As well, they increased the complete feed plant's capacity from about three tonnes per hour to their current capacity of 14 tonnes per hour.

Another part of the expansion was the certifications needed to continue growing the business. They were HACCP (Hazard Analysis Critical Control Point) certified in 2007. The international food safety standard requires daily tracking of all movement in and out of the mill, taking and retaining samples to allow for full traceability. Their certification is audited annually through a third party with ANAC.

In 2013, they built a bigger ware-

house, about 17,000 square feet, to accommodate a lot of the vitamins and minerals being bought through brokers in container lots from across North America and around the world.

A new net weight bagger and palletizer were added in 2014, transitioning to more automated work and reducing the manual labour needed to keep up with the growing business.

"We are often competing for labour with the rest of the farm operations, so this is an important addition," says Baer.

New Rosedale Feedmill now sells complete feeds, cattle minerals, and

“

We have grown the business without advertising or sales up until now — just word of mouth. The feed mill is a large part of the business on the colony.

STANLEY BAER | MILL MANAGER

premises – as well as the base ingredients needed by other commercial feed mills for their mixes, which has opened up another part of the business. They have customers in all corners of Manitoba, as well as through-

out Saskatchewan and Alberta.

The business continues to grow. "We have grown the business without advertising or sales up until now – just word of mouth. The feed mill is a large part of the business on

the colony," says Baer. New Rosedale Colony also grows crops and raises hogs and chickens.

One of only a few off-colony staff members is John Wright, a retired animal health sales rep who worked with the colony in his former career. He sees the potential and is helping to expand their reach.

Baer credits Wright with making significant strides in their bag sales through dealers in small towns. "This is where our growth is thanks to John – we never used to sell much here but the backyard farmers are the ones really growing this business," says Baer.

Wright sees that New Rosedale Feedmill is filling a need in the sector.

"Many of the smaller privately owned feed mills in western Canada are being bought out by large corporations and this is definitely changing the landscape across the prairies. New Rosedale is still, at its core, a family-based business that also farms and understands the importance of good feed for their livestock," says Wright.

The future looks bright

The numbers speak for themselves. When one ton of premix can make up to 300 tonnes of complete feed – depending on the inclusion of their premix – New Rosedale Feedmill roughly represents about 200,000 tonnes of complete feed equivalent in the market place annually.

"Our annual throughput in tonnes of complete feed, premix and product through the mill is about 38,800 tonnes per year," says Baer.

With those kinds of volumes it is no surprise what Baer would like to see when asked what is on the horizon for the New Rosedale Feedmill. He sees the gaps.

"We have modified the original mill from three tonnes to 14 tonnes per hour capacity and now that isn't enough. Most days we are running two long shifts. The dream is to build a new complete feed mill from the ground up including provisions for a pellet mill, and double our capacity."

Other expansion efforts include manufacturing cattle lick tubs in the near future and they have bought and dismantled an existing plant and plan on having it up and running within a year.

Cost advantage

The biggest advantage Stanley Baer sees for New Rosedale is the cost advantage. "We don't have some of the same cost issues and bureaucracy that other commercial feed mills have and while of course we still need to make a profit, it is a little simpler here," he says. As more automation is added, the more cost effective it becomes.

Tim Baer, pre-mix plant manager at New Rosedale, sees another benefit. "There is a great deal of pride in this business – anyone who walks through our mill comments on how clean it is. Even truck drivers when they show up comment that they have never seen a mill like this."

He adds, "That it is spotless from one end to the other I think is because everyone feels ownership in its success...they aren't punching a time clock."

VBP+ Verification Audit WHAT IS INVOLVED?

The dairy, pork and poultry industries have all implemented some type of Quality Assurance program similar to ours. Retailers and consumers are looking for it and this is our opportunity to use an industry created program to enhance our social license to produce beef by gaining consumer trust. There is strong potential to increase local consumption and global exports of Canadian beef. VBP+ validates sustainable production practices, on-farm. Let's show the world why Canadian beef is the safest, highest quality protein product on the planet!

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CANADIAN BEEF IS BACK ON CHINESE MENU

BY THE CANADIAN CATTLEMEN'S ASSOCIATION STAFF

CCA PAST-PRESIDENT Dave Solverson participated in Agriculture Minister Lawrence MacAulay's trade mission to China recently as part of Canada's largest-ever agriculture delegation.

More than 100 officials from across Canada participated in the trade mission including agriculture ministers from Alberta, Prince Edward Island, Nova Scotia, and Newfoundland and Labrador along with industry representatives from agricultural, seafood and horticultural groups.

Solverson had positive interactions with Canadian and Chinese government officials and industry representatives during the stop in Beijing. The Chinese industry counterparts expressed tremendous interest in expanding trade, particularly in Canadian beef, he said.

Industry feels the bone-in access will be a big improvement and will lead to more commercially viable

trade, Solverson said. There seemed to be a desire to progress to chilled beef as well, he said. Importers and exporters he met with expressed a

keen interest in boosting supplies of Canadian beef.

In September, Chinese Premier Li Keqiang announced in Ottawa that China will begin to allow bone-in Canadian beef from cattle under 30 months of age (UTM) effective immediately. During the trade mission, Solverson took the opportunity to personally thank Minister MacAulay for achieving this important threshold in the staged access pro-



dian beef in stages. The first stage was boneless beef from UTM cattle. In 2013, China approved additional Canadian beef export facilities to increase our capacity to serve Chinese beef importers. In June 2014, China announced it would begin to consider the importation of bone-in UTM beef products. The September announcement represents the successful conclusion of that step.

The addition of bone-in UTM access is expected to add an additional \$10 million per year in exports to China in the short term while the Canadian beef cattle herd remains contracted. In 2015 China stepped in as a major buyer while Canadian beef was temporarily shut out of Korea and Taiwan and the Canadian dollar was weak, purchasing \$256 million that year.

Through July 2016, Canadian beef sales to China have returned to being comparable with the first seven months of 2014.

Solverson said the mission was of tremendous value. It's important to participate in such missions to show support for the government's efforts to increase access for Canadian beef. Another benefit is meeting and interacting with both Chinese officials and food service and retail representatives through food events linked to the trade missions.

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2017 CALENDAR OF EVENTS

SASKATCHEWAN BEEF INDUSTRY CONFERENCE**TUESDAY, JAN. 24**

- 8:00 a.m.** Registration and Trade Show
- 8:45 a.m.** Welcome and opening remarks
Greetings from Lyle Stewart, Minister of Agriculture
- 9:00 a.m.** **Consumer marketing: What they want, how you can provide it** — Trevor Carlson, Director of Sustainability with Federated Co-operative Ltd.
- 10:00 a.m.** **Manage your forage: Tips for producers** — Dr. Paul Jefferson
- 10:30 a.m.** Break
Saskatchewan Verified Beef Production AGM
- 11:00 a.m.** **Promoting C-sequestration with grazing management** — Dr. Alan Iwaasa, Agriculture & AgriFood Canada
- 11:30 a.m.** **Best barley varieties for silage** — Dr. John McKinnon, University of Saskatchewan
- 12:00 p.m.** **Silage Variety Selection: hits and misses** — Speaker to be announced
- 12:30 p.m.** Lunch
Saskatchewan Cattle Feeders Association AGM

**- CONCURRENT SESSIONS -
Session A:**

- 1:30 p.m.** **Nasal vaccinations for beef cattle** — Dr. Phil Griebel, University of Saskatchewan
- 2:00 p.m.** **Antimicrobial use in cow-calf herds** — Dr. Cheryl Waldner, Western College of Veterinary Medicine
- 2:30 p.m.** **Effective disease management strategies** — Dr. Craig Dorin, Veterinary Agri-Health Services

Session B:

- 1:30 p.m.** **Lipid supplementation implications on calf growth and reproductive efficiency** — Dr. Bart Lardner, Western Beef Development Centre
- 2:00 p.m.** **How many calves do your bulls produce?** — Stacey Domolewski
- 2:30 p.m.** **Managing reproductive efficiency: A producer perspective** — Presenter to be announced
- 3:00 p.m.** Break
- 3:30 p.m.** **Market outlook** — Ethan Oberst, CattleFax
- 4:00 p.m.** **Marketing Bear Pit Session: Volatile markets and consumer trends require exceptional marketing strategy.** Members of the beef value chain will discuss key areas of focus that deliver wins for their business.
Panelists include market analyst Ethan Oberst, producer Pat Hayes, retailer Trevor Carlson and a buyer, to be named.
- 5:00 p.m.** Cocktails
- 6:00 p.m.** Dinner, with guest speaker Rick Burton, Deputy Minister, Saskatchewan Ministry of Agriculture
SBIC Scholarship presentation: Fund-raising in support of the SBIC Scholarship Fund

WEDNESDAY, JAN. 25

- 7:00 a.m.** Breakfast and registration
- 8:00 a.m.** **Tolerance of beef cattle to ergot alkaloids** — Dr. Jaswant Singh, Western College of Veterinary Medicine

- 8:30 a.m.** **Toe-tip necrosis in beef cattle** — Dr. Murray Jelinski, Western College of Veterinary Medicine
- 9:00 a.m.** **Prevalence & impact of parasites on beef cattle production** — Dr. Fabienne Uhringer, Western College of Veterinary Medicine
SSGA semi-annual meeting
- 9:30 a.m.** **Cost-effective replacement heifers** — Dr. Kathy Larson, Western Beef Development Centre
- 10:00 a.m.** Coffee Break
Saskatchewan Angus Association Board of Directors' meeting

- 10:30 a.m.** **Saskatchewan Cattlemen's Association AGM**
Industry updates from CCA and BCRC
Competitive cuts: meat cutting demonstration by Canada Beef
- 12:00 p.m.** Lunch
- 12:30 p.m.** Keynote speaker **Warren Meyer**, self-proclaimed climate skeptic, coyoteblog.com
- 1:30 p.m.** **SCA annual general meeting**
- 1:30 p.m.** **Saskatchewan Simmental Association board meeting**
- 5:30 p.m.** Cocktails
- 6:30 p.m.** **SBIC Awards Banquet**

- 6:30 p.m.** Saskatchewan Livestock Association **Honour Scroll** presentations

THURSDAY, JAN. 26

All industry meetings scheduled at the Ramada Plaza Hotel:

- Livestock Marketers of Saskatchewan (members only)
- Saskatchewan Livestock Association
- Saskatchewan Cattle Breeders Assoc.
- Saskatchewan Angus Association AGM
- Saskatchewan Hereford Association board meeting
- Saskatchewan Limousin Association board meeting

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IN THE NEWS

BIXS IMPROVES TRACEABILITY

BIXS is a voluntary national internet database designed to store and exchange data linked to an individual animal's unique CCIA/ATQ ID tag number.

It is a collaboration between the Canadian Cattlemen's Association and Canadian packers. Carcass information for individual animals is made available to producers in the BIXS database. The current requirement to view carcass information for a specific animal is registration

in the Beef InfoXchange System (BIXS) as well as ownership of that animal at some point in its life.

Once the CCIA ID is recorded in the BIXS database, a producer will be able to view carcass information for that animal when it becomes available.



GETTY STOCK IMAGE

OPINION

PROPER ANIMAL CARE IS IN EVERYONE'S BEST INTEREST

It is our responsibility to reduce as much stress on our livestock as possible with things we can control and prepare for the ones we can't

BY TOM LYNCH-STANTON

PEOPLE ALREADY KNOW that stress can trigger many health problems.

In livestock production, increased stress can compromise immune function in animals, resulting in sicknesses or even mortality. Stress can also increase incidents of animals or humans getting injured, and can compromise eating and weight gain.

It can even affect the meat quality and result in what's called dark cutting at the packing plant. This meat has an unacceptable colour and shorter shelf life which means lost productivity.

Stress can compound other problems like increasing the need for antibiotics, both on an individual animal, and possibly the entire herd. As Dr. Reynold Bergen of the Beef Cattle Research Council noted in his recent article, available on its website at www.beefresearch.ca/blog/antibiotic-alternatives, on antibiotic alternatives, reducing stress on an individual animal can also reduce the need and amount of antibiotics used in a herd.

Even though many stressors are beyond a producer's control like weather or predators, it is our responsibility to try to reduce as much stress as possible with things we can control, and prepare for the ones we can't.

It is important to remember that much of the stress in cattle is caused by interaction with humans, whether it is intentional or not. Activities such as weaning, vaccinating, loading for transport, or moving animals from one pasture to another, could be creating stress in cattle, depending on how these actions are carried out. That is why cattle handling is so important for the overall health of our cattle, and the resulting viability of our ranches and feedlots.

When I was still living and working on the family ranch, we heard about Bud Williams' stockmanship schools, which teach low stress cattle handling techniques.

As third and fourth generation ranchers, my family and I thought we knew just about everything there was to know about handling cattle, having been taught through experience and succession.

However, we were still curious and thought that this stockmanship school may be worthwhile if we could learn some small tricks like getting cattle through that one hard gate, or over that bridge that they never will cross.

We were convinced that other than learning these few tricks, Bud wouldn't teach us anything new about general cattle handling.

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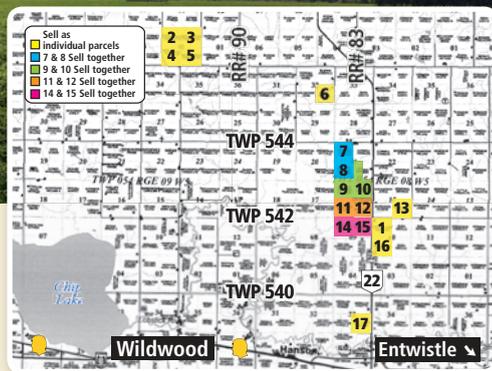
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Luckily, he was even more stubborn than we were and his teachings significantly changed the way we move cattle and interact with them for the better.

He broke our bad habits and taught us about using simple movement techniques like when to apply and release pressure, moving back and forth, and positioning yourself so the animal can see you.

He also taught us how to do this quietly without whistling or yelling, and we discovered for ourselves that quiet handling can be more efficient than the old ways. We were incredibly humbled by his knowledge.

Looking back at the way we previously moved cattle — total old fashioned western movie cattle drive stuff, usually with a lot of noise, yelling and whistling (at the cattle and at each other) — it was stressful for the cattle, and for ourselves.

Today, using the techniques taught to us by the late Bud Williams, it is far less stressful and much more quiet and enjoyable — even if there isn't as much excitement as there used to be. Shoot, my family and I don't even get to yell at each other anymore!

Don't get me wrong, there will always be stressful situations and problems when dealing with livestock, but now we know how to respond to them, so they occur much less frequently. I'm sure we still don't deploy these techniques as well as Bud did, but we are much more aware of how our cattle react to the way we handle them and the outcome is healthier animals.

There are other times in our cattle's lives where handling can induce stress.

Probably the most stressful situations for animals are weaning and transporting. Preconditioning and low-stress weaning techniques (nose flaps and fence line weaning) are very important ways to reduce overall stress to both the calves and the mother cows, which will result in fewer animals getting sick.

The Code of Practice for the Care and Handling of Beef Cattle and Canada's Livestock Transport regulations contain many protocols designed to reduce stress for all classes of animals in transit (cows, calves, yearlings, etc.)

It is in nobody's best interest if an animal gets sick or injured en route, or at their final destination. Like Canada's animal cruelty laws, animal transport laws are under scrutiny. We need to make sure that any changes to the regulations result in reduced overall stress for the animal.

For example, we know that unloading and loading animals creates stress for cattle. If the science shows that a longer haul is less stressful than breaking it up with a rest stop, we must make sure this is considered in new regulations.

How we handle our cattle is becoming increasingly scrutinized, including by the public.

Like us, the public wants to know that animals are treated well, and that they are healthy and content. It is important to understand stressors for the animals in our care, and seek ways that we can try to reduce or mitigate those stressors, further demonstrating the importance producers place on animal care and welfare.

Cattle producers are genuinely motivated to ensure their livestock are well cared for. When our cattle are healthy and happy, so are we.

Tom Lynch-Staunton works with the Canadian Cattlemen's Association.



IN THE NEWS

USING COMPUTER VISION SYSTEMS FOR BEEF GRADING

The beef grading system uses multiple criteria to determine quality grade for youthful cattle.

In the past, a grader working at a larger plant with a moving carcass rail would have approximately 15 seconds to complete the quality assessment using specific criteria as well as make a yield grade determination.

With sufficient experience a reasonably accurate grade could be assigned although it would be difficult to take actual measurements of the fat depth or ribeye dimensions to most accurately estimate lean yield percentage.

A computer vision system (CVS) utilizes a camera with special lighting to photograph the rib eye at the grading site between the 12th and 13th rib. The photograph is then analyzed by a computer to determine marbling levels as well as accurate rib eye measurements.

The CVS also allows the grader to input additional information or to manually assess a grade when a carcass is missplit and accurate analysis by the camera is currently not possible.

As CVS equipment continues to become more sophisticated, the ability to predict meat quality and yield will be further enhanced.

An additional benefit of CVS is the ability to capture carcass information electronically and to store the information in the BIXS database for later retrieval by producers.

The chart at right shows the criteria for Canadian grades.

GRADE	MUSCLING	RIBEYE	MARBLING**	FAT COLOUR & TEXTURE	FAT DEPTH
Prime, AAA, AA or A	good to excellent with some deficiencies	firm, bright red	Prime: slightly abundant; AAA: small; AA: slight; A: trace	firm, white or amber	2 mm or more
B1	good to excellent with some deficiencies	firm, bright red	not specified	firm, white or amber	< 2mm
B2	deficient to excellent	bright red	not specified	yellow	not specified
B3	deficient to good	bright red	not specified	white or amber	not specified
B4	deficient to excellent	dark red	not specified	not specified	not specified
E	pronounced masculinity				

* E grade cattle may be youthful or mature ** minimum marbling requirement for each grade

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CLIMATE CHANGE

WTO says record heat over last five years suggests human cause

MARRAKESH, Morocco (Reuters) — The past five years were the hottest on record with mounting evidence that heat waves, floods and rising sea levels are stoked by man-made climate change, the United Nations weather agency has said.

Some freak weather events would have happened naturally but the World Meteorological Organization said greenhouse gas emissions had raised the risks of extreme events, sometimes by a factor of 10 or more.

"We just had the hottest five-year period on record, with 2015 claiming the title of hottest individual year. Even that record is likely to be beaten in 2016," WMO secretary-general Petteri Taalas said in a written statement.

Superstorm Sandy caused \$67 billion of damage in 2012, mostly in the United States, it said in a report issued to a meeting of almost 200 nations in Morocco tasked with implementing a 2015 global agreement to combat climate change.

The last five-year period beat

2006-10 as the warmest such period since records began in the 19th century.

The heat was accompanied by a gradual rise in sea levels spurred by melting glaciers and ice sheets. The changes "confirmed the long-term warming trend caused by greenhouse gases," the WMO said of the report.

In 2015, the amount of carbon dioxide, the main greenhouse gas, reached 400 parts per million in the atmosphere for the first time in records, it said.

Last year was the first in which temperatures were 1 C above pre-industrial times, partly because of an El Nino weather event that warmed the Pacific.

The 2015 Paris Agreement set an overriding target of limiting warming to "well below" 2 C above pre-industrial times, ideally just 1.5 C.

But pledges to curb greenhouse gas emissions are too weak and put the globe on target for about 3 C, UN data show.

The Marrakesh meeting is looking to step up actions.

THE 2011 DROUGHT AND FAMINE IN THE HORN OF AFRICA KILLED

250,000

WEATHER PATTERNS

La Nina conditions likely: expert

NEW YORK, N.Y. (Reuters) — A U.S. government weather forecaster has said that previously predicted La Nina conditions have arrived and are slightly favoured to persist into the Northern Hemisphere for the coming winter.

The Climate Prediction Center, an agency of the National Weather Service, said in a monthly forecast that it observed La Nina conditions during October and sees a 55 percent chance they will persist through the winter.

Last month, the agency pegged

the chance of La Nina developing this fall at 70 percent.

If it occurs, it will likely cause a traditional cold winter on the Canadian Prairies and raise temperatures and reduce precipitation in the southern United States.

Typically less damaging than El Nino, La Nina is characterized by unusually cold ocean temperatures in the equatorial Pacific Ocean and tends to occur unpredictably every two to seven years. Severe occurrences have been linked to floods and droughts.

UNCONTROLLED ELECTRICITY

Stray current issue unresolved

'Rapid response team is a 1-800 number to nothing,' says farmer

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

THAMESVILLE, Ont. — Many of the stray current issues affecting Ontario farmers remain unresolved, but the MPP for Chatham-Kent-Essex maintains a glimmer of hope.

"I've determined to allow Hydro One to proceed, and I'm waiting to hear back with their findings," Nicholls said.

Nichol's optimism is linked to Hydro One's formation of the Farm Rapid Response Team announced Sept. 20.

President Mayo Schmidt said the province's largest utility is committed to "finding a fast and effective solution" to the uncontrolled electricity that has plagued rural livestock farms for years.

Nicholls introduced Bill 161 in the spring, which would have required utilities to quickly respond to and address stray current complaints.

The bill received unanimous, second reading support, but it was wiped from the legislative slate when Premier Kathleen Wynne later prorogued the legislature.

Dairy farmers Pete Stern and Pat Herbert remain skeptical of Hydro One's intent. Both say they have struggled with stray current for years.

Stern said it's led to human and animal health issues and financial struggles on his farm near Drumbo.

His banker and accountant have advised him to sell his milk quota, which would end his participation in the industry.

"The rapid response team is a 1-800 number to nothing," said Stern, who is a member of the working group put together by Hydro One and the Ontario Federation of Agriculture to help address the issue.

He expects Hydro One will receive more calls with the announcement of the rapid response team.

What's needed, he added, are changes to Appendix H of Ontario's Distribution System Code, the



Pat Herbert and his family continue to struggle with stray current issues on their Ontario dairy farm, but there was good news on the corn front. Three varieties yielded around 250 bushels per acre, and a fourth, a Pioneer variety, came in at 292 bu. per acre.

| JEFFREY CARTER PHOTO

Farm Stray Voltage Distributor Investigation Procedure, which he hopes the OFA will soon push for.

Hydro One had received 130 calls about on-farm electricity issues in the first seven months of the year, of which 105 came from dairy farmers.

Herbert, who milks 30 cows near Thamesville, said he's recently lost another animal to stray current, which makes 45 since the problem first appeared in 2008.

One year later

Hydro One conducted a day-long investigation last year, but Herbert said the problem has yet to be fixed.

He feels the issue isn't linked to the electrical hookup on his farm, so there must be a leak in the area's distribution system that's making its way to his barn.

A recent lightning storm appears to have confirmed that suspicion. When power was knocked out in the area, stray voltage in his barn was temporarily absent, even though he was operating a generator.

Herbert recognizes that not everyone, even fellow farmers, believe the stray current issue at his farm is real.

"We hear that all the time. Hydro One doesn't come out and say it. They just imply it. They don't believe or don't want to believe you have a problem," he said.

"I've called the fast response team four or five or six times to get my name on the top of the list. They seem to think they can fix the problem on the phone."

The Herberts were routinely awarded certificates for the high quality of their milk before 2008.

Hydro One said in a statement that it has been communicating with farmers about the new service.

"Hydro One has seen an increase in calls related to on-farm electrical issues and are working with each customer to find appropriate solutions," it said.

"The majority of calls are coming from southwestern Ontario."

Nicholls is working on a second private member's bill to address on-farm stray voltage. He's hoping Hydro One will support his effort.

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ERGOT TOLERANCE

CGC outlines grading changes for wheat, fababeans, chickpeas

BY BRIAN CROSS
SASKATOON NEWSROOM

The Canadian Grain Commission has announced grading changes that affect wheat, chickpeas and fababeans produced in Western Canada.

As of Aug. 1, 2017, all grades of chickpeas and fababeans grown in Western Canada will have an ergot

tolerance of .05 percent, the CGC has announced.

Ergot is a cereal disease that is toxic to people and animals. It does not occur naturally in chickpeas and fababeans, but contamination can occur during handling.

Adding an ergot tolerance for the two crops will help guarantee the safety of Canadian grain, the CGC said in a Nov. 16 news release.

An ergot tolerance of .05 percent is consistent with other pulse crops in the Official Grain Grading Guide.

The commission has also tightened the tolerance for grasshopper and armyworm damage in No. 3 Canada Western Red Spring (CWRS), No. 3 Canada Western Hard White Spring (CWHWS) and No. 3 Canada Northern Hard Red

(CNHR) wheat.

The tolerance in those three commodities will be tightened to six percent from eight percent, effective August 1, 2017.

The tolerances for grasshopper and armyworm damage were tightened after research showed that eight percent damage can affect end-use functionality.

The changes are based on recom-

mendations made to the grain commission by the Western Standards Committee at its annual meeting in November.

The commission also reiterated its commitment to continuing to evaluate new technologies for objectively assessing grain for factors such as deoxynivalenol.

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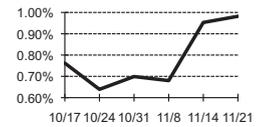
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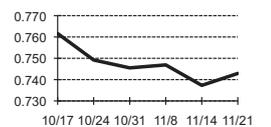
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FOREIGN LABOURERS

Hog firm hopes for TFWP reform

Hylife Foods confident review of the Temporary Foreign Workers Program will restore length of stay

 BY ROBERT ARNASON
BRANDON BUREAU

The leaders of Hylife Foods feel optimistic about the Temporary Foreign Worker Program.

In October, Hylife announced plans to invest \$125 million in its hog barns and Neepawa slaughter and processing plant in Manitoba.

The investment is expected to create 165 jobs, increasing Hylife's workforce to nearly 2,000.

It made the investment announcement while the federal government is amending the TFWP.

Hylife and most meat processors are highly dependent on foreign workers because the industry can't attract enough Canadians to work at slaughter plants.

Hylife president Claude Vielfaure said he's confident the government is on the right path.

"We feel there might be some positive steps in making the program work for rural-based agricultural companies."

The Liberal government began reviewing the TFWP last spring after complaints from business leaders, particularly those from the agri-food industry.

The former Conservative government amended the program in 2011 and 2014. One key change was the amount of time that foreigners can remain in Canada. Now, foreign workers in most industries can stay here for only two years: a one-year work permit plus a one-year extension. Previously they could stay four years: a two-year permit plus a two-year extension.

Primary agriculture was exempt from this change.

Maple Leaf Foods and others in the meat sector say the new rule has "broken" the path for foreign workers to become permanent residents because there isn't enough time to learn English.

Vielfaure said restoring the two-year permit and two-year extension is critical for Hylife, but the company also needs flexibility on the



Meat processors say they can't attract Canadian labourers and are dependent on foreign workers. | FILE PHOTO

number of foreign workers it can employ.

The Conservative government capped the percentage of foreign workers a company could employ. It was scheduled to drop from 30 to 20 and then 10 percent. The 10 percent cap was to take effect July 1, but the Liberals over-ruled that and froze the cap at 20 percent.

Vielfaure hopes the Liberals will relax the cap when it is appropriate to do so.

"(We're) hoping there is leeway for proven companies... if you can prove there is a need to be higher (percentage)," he said.

"We are in an area of low unemployment, (but) we try to recruit as much locally as we can. But it (the region) just doesn't have enough population."

Hylife currently has enough workers because it has a low rate of employee turnover, Vielfaure said.

It has recruited hundreds of

employees from countries such as South Korea, the Philippines and Ukraine. Many of them are now residents of Neepawa, a community of about 5,000.

However, the company will soon need more employees and additional foreign workers.

"It's going to be a concern for us in the next one to two years," Vielfaure said.

Federal government policy

Mark Wales, chair of the Canadian Agricultural Human Resource Council, which focuses on the labour shortage in Canada's agri-food industry, said the federal government wants to attract more immigrants.

If that's the case, Wales said it's illogical to kick a temporary foreign worker, a person with a job, out of the country before he or she has an opportunity to become a permanent resident of Canada.

Wales and many others in the agri-food industry continue to lobby politicians and federal bureaucrats as they wait for a decision on the TFWP.

Vielfaure may be optimistic about the government's plans, but an Ottawa lobbyist isn't so sure. The lobbyist, who isn't authorized to speak for her organization, said federal officials don't comprehend the size of the agriculture sector and huge number of jobs in the industry.

Consequently, it's been a struggle to explain why temporary foreign workers are needed.

MaryAnn Mihychuk, federal minister of employment, workforce development and labour, is expected to release the government's plan for temporary foreign workers in December.

robert.arnason@producer.com

AG STOCKS NOV. 14-18

Stocks rose on President-elect Donald Trump's promises to cut taxes and spend on infrastructure. Signs of American economic growth raised expectations of an interest rate hike in December. For the week, the TSX composite was up 0.8 percent, the Dow rose 0.1 percent, the S&P 500 climbed by 0.8 percent and the Nasdaq jumped 1.6 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	43.49	41.73
AGT Food	TSX	35.51	35.84
Bunge Ltd.	NY	67.35	64.30

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	1.48	1.52
Cervus Equip.	TSX	15.50	15.35
Input Capital	TSXV	1.60	1.59
Rocky Mtn D'ship	TSX	9.14	9.30

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra	NY	36.80	34.93
Hormel Foods	NY	35.58	34.78
Lamb Weston	NY	32.68	28.85
Maple Leaf	TSX	28.92	28.51
Premium Brands	TSX	67.55	65.05
Tyson Foods	NY	67.36	66.54

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
Ag Growth Int'l	TSX	52.64	52.29
AGCO Corp.	NY	52.71	52.22
Buhler Ind.	TSX	4.69	4.69
Caterpillar Inc.	NY	92.34	93.01
CNH Industrial	NY	7.86	7.94
Deere and Co.	NY	91.96	91.10
Agrium	TSX	132.93	132.55

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
BASF	OTC	85.11	87.88
Bayer Ag	OTC	96.89	101.80
Dow Chemical	NY	53.23	53.65
Dupont	NY	68.84	69.21
BioSynt Inc.	TSXV	7.75	7.94
Monsanto	NY	101.21	97.90
Mosaic	NY	28.26	27.41
PotashCorp	TSX	24.05	23.84
Syngenta	ADR	77.13	77.00

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	87.00	85.67
CPR	TSX	196.79	194.44

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.

AGRICULTURAL SALES

Ritchie Bros. expands ag presence with purchase of Kramer Auctions

SASKATOON NEWSROOM

International auctioneer Ritchie Bros. has bought Kramer Auctions of North Battleford, Sask.

The four key leaders of Kramer Auctions — Neil Kramer, Kim Kramer, Brendan Kramer and Michael Higgs — have all joined Ritchie Bros. and will continue overseeing auctions on the Prairies under the Kramer Auctions brand,

a company news release said.

All full-time employees have also been offered continued employment with Kramer Auctions, through Ritchie Bros.

Ritchie Bros. intends to lease Kramer Auctions' permanent auction site in North Battleford for the foreseeable future.

The acquisition is expected to strengthen Ritchie Bros.' penetration of Canada's agricultural sector

and add key talent to the sales and operations team, the release said.

"For more than six decades, Kramer Auctions has developed strong, trusted farming relationships and deep community roots across the Canadian Prairies, which has positioned the business as a leading agricultural auctioneer in Western Canada," Ravi Saligram, chief executive officer of Ritchie Bros., said in a news release.

Operating for more than 65 years, Kramer Auctions has offered both on-the-farm and on-site live auctions for customers selling equipment, livestock and real estate in the agricultural sector.

The business operates about 75 on-the-farm auctions, four on-site auctions and eight livestock auctions (mainly bison) a year.

It sold more than \$60 million worth of agricultural equipment,

real estate and other assets in the last year.

Kramer Trailer Sales was not acquired by Ritchie Bros. and remains owned by the Kramer family.

All other terms of the transaction are confidential.

Ritchie Bros., with headquarters in Vancouver, has operations in 19 countries, including 44 auction sites worldwide.

FACTORS TO CONSIDER

Will land prices continue to rise?

MANAGING THE FARM



STUART PERSON

We have seen a significant surge in the value of prairie farmland over the past 10 years. In fact, land values have tripled in many areas from 2005-15.

Several key factors have played a role in this and will no doubt affect any future movements in the price.

Low interest rates

Low interest rates have made it easier for more producers and investors to cash flow the larger price tags.

Rates have been low for so long that there is an entire generation that is not old enough to remember when interest rates were much higher.

Members of this generation would be among the more aggressive buyers, and they carry a much higher risk tolerance. There doesn't appear to be a clear indication that interest rates are going to rise significantly any time soon. If rates stay low, it will further fuel the rise in land prices.

Commodity prices

Some commodity prices have settled, such as wheat, canola, oats and peas, while others remain very strong, such as lentils and chickpeas. Depending on where the land is located, we may see some stabilization in land prices.

Land prices in some areas of the United States have fallen, but I wouldn't expect a decrease in Canada, although some stabilizing may occur. Areas strong in pulse crops will likely retain strong and perhaps rising prices.

Economics

Economics is driving a lot of expansion as farms look to get bigger to become more profitable.

The recent increase in profitability has seen a resurgence of young people returning to the farm to take over.

As such, the farm needs to be larger to generate enough return to provide a living for the new generation and a retirement for the older generation.

Large expansions take a lot of cash. The recent surge in expansions has pushed many farms to their borrowing limits, which might cool expansion plans for awhile and stabilize land prices in some areas.

Speculation

It's interesting to see that more investors are interested in farmland.

Farmland seems to offer a stable return because of low interest rates and less predictable financial markets. It's also tangible. Speculation is no doubt one factor for this outside interest in land. What do they know that we don't?

Urban sprawl

Urban sprawl continues to occur on the Prairies as people look to move out of the cities and into the country.

There is significant demand for acreages and quarter sections for people to build their estates. Farmland is a relatively cheap option compared to the rising cost of property inside the city.

Weather

The weather is virtually impossible to forecast with any accuracy, but advances in technology in genetics and machinery have resulted in an ever increasing resiliency in the overall prairie crop.

If producers continue to experience plentiful harvests, it will likely push the price of land higher.

It's also worth noting that farmland on the Prairies is undervalued because of political restraints placed on ownership.

There are pros and cons to this, but the fact is we may be only scratching the surface if you compare the value of farmland on the Canadian Prairies to that of B.C., Central Canada, the United States or even Europe, where ownership is less restrictive.

It's hard to know where values go from here, but the current fundamentals would signal that upward pressure will remain.

One thing is for sure: while increases in the value of land may frustrate



While young farmers find rising land prices a hardship, those aiming to retire are benefitting from the windfall. | GETTY PHOTO

many young or aggressively expanding farmers, it has created an enormous amount of wealth for long-term land owners and made retirement a lot more comfortable

for the outgoing generation.

Stuart Person, CPA, CA, is national director of primary producers with MNP's agriculture services. Contact him at 855-667-3301 or stuart.person@mnp.ca

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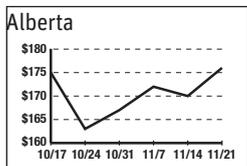
Farm Credit Canada
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Canada

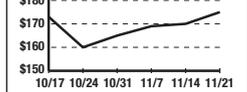


CATTLE & SHEEP

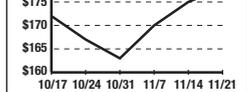
Steers 600-700 lb. (average \$/cwt)



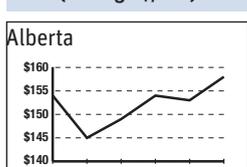
Saskatchewan



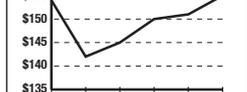
Manitoba



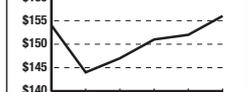
Heifers 500-600 lb. (average \$/cwt)



Saskatchewan



Manitoba



Canadian Beef Production

million lb.	YTD	% change
Fed	1,762.5	+9
Non-fed	254.8	+16
Total beef	2,017.3	+10

Canfax

EXCHANGE RATE NOV. 21

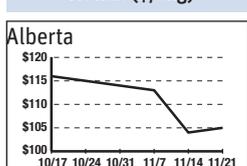
\$1 Cdn. = \$0.7429 U.S.

\$1 U.S. = \$1.3461 Cdn.

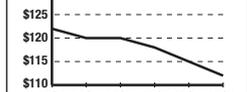
HOGS

Due to wide reporting and collection methods, it is misleading to compare hog prices between provinces.

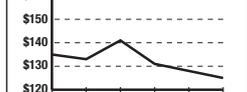
Index 100 Hog Price Trends (\$/c/kg)



Saskatchewan Sig. 5



Manitoba



ELEVATOR SHIPMENTS

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous	Year ago	Rail		Previous
	Nov 11 - Nov 17	Nov 4 - Nov 10			Nov 11 - Nov 17	Nov 4 - Nov 10	
Steers							
Alta.	142.00	n/a	n/a	n/a	233.50-240.50	n/a	n/a
Ont.	119.25-130.98	115.77-128.73		153.64	212.00-216.00	212.00-216.00	
Heifers							
Alta.	n/a	n/a	n/a	n/a	233.50-238.00	n/a	n/a
Ont.	114.16-130.76	114.96-127.58		152.77	213.00-215.00	213.00-215.00	

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.				Man.				Alta.				B.C.			
	900-1000	800-900	700-800	600-700	500-600	400-500	800-900	700-800	600-700	500-600	400-500	800-900	700-800	600-700	500-600	400-500
Steers	150-163	149-164	156-167	141-155	156-167	141-155	156-167	141-155	156-167	141-155	156-167	141-155	156-167	141-155	156-167	141-155
Heifers	142-153	138-158	143-157	138-155	143-157	138-155	143-157	138-155	143-157	138-155	143-157	138-155	143-157	138-155	143-157	138-155

Canfax

Average Carcass Weight

	Nov 12/16		Nov 5/15		YTD 16		YTD 15	
	Steers	Heifers	Steers	Heifers	Steers	Heifers	Steers	Heifers
Canfax	933	848	936	859	918	818	889	818
Steers	710	711	756	724				
Heifers	1,058	979	1,017	1,006				

U.S. Cash cattle (\$/cwt)

	Slaughter cattle (35-65% choice)		Steers		Heifers	
	National	Kansas	National	Kansas	National	Kansas
National	108.59	108.85	108.85	108.85	108.85	108.85
Kansas	108.32	108.63	108.32	108.63	108.32	108.63
Nebraska	107.84	n/a	107.84	n/a	107.84	n/a
Nebraska (dressed)	170.00	n/a	170.00	n/a	170.00	n/a

	Feeders No. 1 (800-900 lb)		Steers		Trend	
	South Dakota	Billings	South Dakota	Billings	South Dakota	Billings
South Dakota	121.50-134.75	121.00	121.50-134.75	121.00	Steady/-3	n/a
Billings	127.00-132.00	127.00-132.00	127.00-132.00	127.00-132.00	firm/+2	n/a

USDA

Cattle / Beef Trade

	Exports		% from 2015	
	Sltr. cattle to U.S. (head)	Feeder C&C to U.S. (head)	Total beef to U.S. (tonnes)	Total beef, all nations (tonnes)
Sltr. cattle to U.S. (head)	485,262 (1)	172,229 (1)	+16.2	-38.3
Feeder C&C to U.S. (head)	203,003 (3)	264,259 (3)	+16.5	+11.8
Total beef to U.S. (tonnes)				
Total beef, all nations (tonnes)				

(1) to Nov 5/16 (2) to Sept 30/16 (3) to Sept 30/16 (4) to Nov 12/16

	Imports		% from 2015	
	Sltr. cattle from U.S. (head)	Feeder C&C from U.S. (head)	Total beef from U.S. (tonnes)	Total beef, all nations (tonnes)
Sltr. cattle from U.S. (head)	14,495 (2)	103,932 (4)	-46.9	-4.9
Feeder C&C from U.S. (head)	162,112 (4)	162,112 (4)	-8.1	-8.1

Agriculture Canada

	Fixed contract \$/c/kg		Hog Slaughter	
	(Hams Marketing)	Maple Leaf Sig 5	Thunder Creek Pork	Week ending
Week ending	Nov 18	Nov 18	Nov 18	Nov 18
Jan 07-Jan 14	106.78-106.78	107.19-108.15	107.19-108.15	107.19-108.15
Jan 21-Jan 28	111.22-114.09	114.11-117.60	114.11-117.60	114.11-117.60
Feb 04-Feb 11	119.70-122.55	123.75-123.80	123.75-123.80	123.75-123.80
Feb 18-Feb 25	124.82-125.43	122.84-131.24	122.84-131.24	122.84-131.24
Mar 04-Mar 11	126.48-127.57	130.92-133.36	130.92-133.36	130.92-133.36
Mar 18-Mar 25	128.18-130.86	131.83-134.87	131.83-134.87	131.83-134.87
Apr 01-Apr 08	134.69-138.10	135.34-136.47	135.34-136.47	135.34-136.47
Apr 15-Apr 22	142.72-144.14	137.26-138.08	137.26-138.08	137.26-138.08
Apr 29-May 06	146.82-153.85	148.62-153.83	148.62-153.83	148.62-153.83
May 13-May 20	158.85-164.40	159.14-160.82	159.14-160.82	159.14-160.82

	Hogs \$/c/kg		Hogs / Pork Trade	
	Alta. Index 100	Sask. Sig. 5	Export	% from 2015
Alta. Index 100	105.10	112.29	836,581 (1)	-10.6
Sask. Sig. 5			296,949 (2)	-10.1
Man. Index 100	125.00		915,976 (2)	+6.9
Que. Index 100	120.30			

(1) to Nov 5/16 (2) to Sep 30/16 (3) to Nov 12/16

	Chicago Hogs Lean (\$/cwt)				Chicago Hogs Lean (\$/cwt)			
	Close	Close	Trend	Year ago	Close	Close	Trend	Year ago
Dec	47.80	47.13	+0.67	57.45	73.25	73.73	-0.48	74.13
Feb	54.18	54.35	-0.17	58.33	73.98	74.85	-0.87	74.63
Apr	61.13	61.75	-0.62	63.53	73.80	75.30	-1.50	74.28
May	68.63	69.13	-0.50	69.90	62.55	63.85	-1.30	64.45

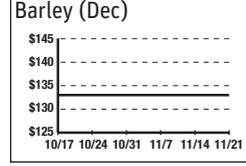
	Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)	
	Close	Close	Trend	Year ago	Close	Close	Trend	Year ago
Dec	47.80	47.13	+0.67	57.45	73.25	73.73	-0.48	74.13
Feb	54.18	54.35	-0.17	58.33	73.98	74.85	-0.87	74.63
Apr	61.13	61.75	-0.62	63.53	73.80	75.30	-1.50	74.28
May	68.63	69.13	-0.50	69.90	62.55	63.85	-1.30	64.45

	Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)	
	Close	Close	Trend	Year ago	Close	Close	Trend	Year ago
Dec	47.80	47.13	+0.67	57.45	73.25	73.73	-0.48	74.13
Feb	54.18	54.35	-0.17	58.33	73.98	74.85	-0.87	74.63
Apr	61.13	61.75	-0.62	63.53	73.80	75.30	-1.50	74.28
May	68.63	69.13	-0.50	69.90	62.55	63.85	-1.30	64.45

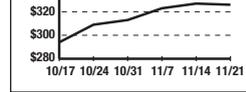
	Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)		Chicago Hogs Lean (\$/cwt)	
	Close	Close	Trend	Year ago	Close	Close	Trend	Year ago
Dec	47.80	47.13	+0.67	57.45	73.25	73.73	-0.48	74.13
Feb	54.18	54.35	-0.17	58.33	73.98	74.85	-0.87	74.63
Apr	61.13	61.75	-0.62	63.53	73.80	75.30	-1.50	74.28
May	68.63	69.13	-0.50	69.90	62.55	63.85	-1.30	64.45

GRAINS

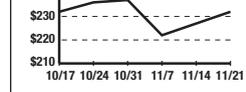
ICE Futures Canada



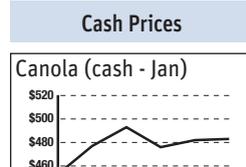
Durum (Dec)



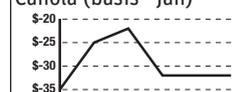
Milling Wheat (Dec)



Cash Prices



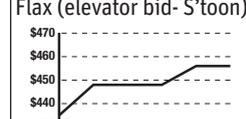
Canola (basis - Jan)



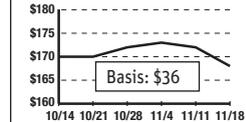
Feed Wheat (Lethbridge)



Flax (elevator bid - S'toon)



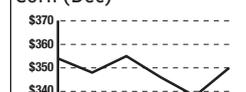
Barley (cash - Dec)



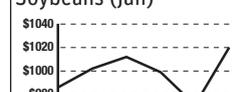
Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

Chicago Nearby Futures (\$/100 bu.)

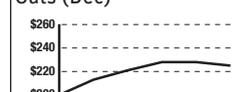
Corn (Dec)



Soybeans (Jan)



Oats (Dec)



Minneapolis Nearby Futures (\$/100bu.)

Spring Wheat (Dec)



Pulse and Special Crops

Source: STAT Publishing, which solicits bids from Maviga N.A., Legumex Walker, CGF Brokerage, Parrish & Heimbecker, Simpson Seeds and Alliance Grain Traders. Prices paid for dressed product at plant.

	Nov 18	Nov 11	Oct 21
Laird lentils, No. 1 (c/lb)	66.00	63.00	57.00
Laird lentils, Xtra 3 (c/lb)	46.00	46.00	43.00
Richlea lentils, No. 1 (c/lb)	55.00	53.00	48.00
Eston lentils, No. 1 (c/lb)	64.00	60.00	43.50
Eston lentils, Xtra 3 (c/lb)	44.00	46.00	35.00
Sm. Red lentils, No. 2 (c/lb)	35.00	36.00	33.00
Sm. Red lentils, Xtra 3 (c/lb)	31.00	31.00	27.00
Peas, green No. 1 (\$/bu)	9.00	9.00	8.00
Peas, large, yellow No. 1 (\$/bu)	8.50	8.50	7.50
Peas, sm. yellow No. 2 (\$/bu)	8.50	8.50	7.50
Feed peas (\$/bu)	6.35	6.35	6.35
Maple peas (\$/bu)	14.50	15.00	12.50
Mustard, yellow, No. 1 (c/lb)	28.00	29.00	29.00
Mustard, Oriental, No. 1 (c/lb)	29.00	29.00	31.00
Mustard, Brown, No. 1 (c/lb)	31.00	33.00	29.00
Canaryseed (c/lb)	25.00	26.00	22.00
Desi chickpeas (c/lb)	31.00	31.00	31.00
Kabuli, 8mm, No. 1 (\$/mt)	1,322.80	1,322.80	1,

DIRTY DIGGER | A badger digs for a meal of ground squirrel in a harvested lentil field near Chamberlain, Sask. | MICKEY WATKINS PHOTO



THE WESTERN PRODUCER

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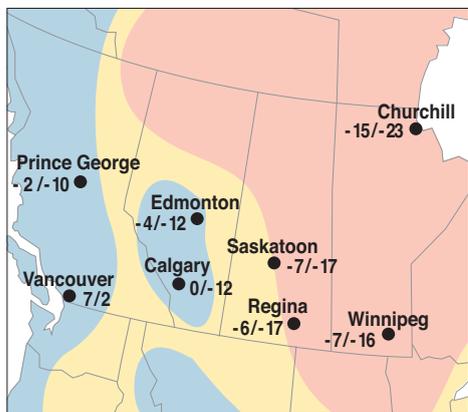
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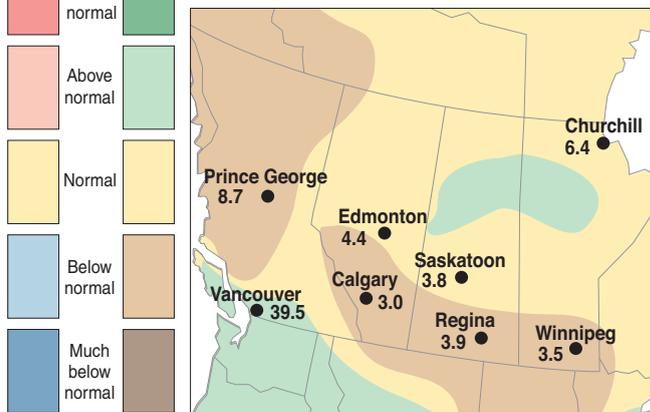
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TEMPERATURE FORECAST
 Nov. 24 - 30 (in °C)



PRECIPITATION FORECAST
 Nov. 24 - 30 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

WEATHER DATA WAS UNAVAILABLE THIS WEEK DUE TO TECHNICAL DIFFICULTIES.

MARKET ACCESS SECRETARIAT

Market access, technical barriers called impediments to trade

BY KAREN BRIERE
 REGINA BUREAU

Witnesses at recent federal agriculture committee meetings say they need more help with market access and technical barriers to trade.

They said the Market Access Secretariat lacks the resources to handle a lengthy list of concerns and would benefit from more funding through the next policy framework.

Troy Warren, chair of the Canadian Meat Council, told the committee the livestock and meat sectors can't be competitive without

export markets, and gaining and retaining access to markets is the government's role.

"Unfortunately as technical barriers become ever more complex and as new international trade agreements are negotiated, government resources allocated to overcoming trade barriers have been reduced," he said.

"There are in excess of 300 foreign market access barriers on the priority list maintained by the Market Access Secretariat. Given the characteristics of the prioritization mechanism, it seems many items will never be actioned."

He said there are unresolved technical barriers for red meat under the Canada-Europe trade deal and while the industry supports the deal, access has to be meaningful.

Both he and Mike Dugate, executive director of Chicken Farmers of Canada, said there should be a method within the APF for the government to take the lead on policy and trade challenges.

"It really does take a whole of government approach," Dugate said, noting that agencies like the Canadian Food Inspection Canada Border Services and Agency and also

need to be involved.

Carla Ventin, vice-president of federal government affairs for Food and Consumer Products of Canada, said industry has similar concerns about the secretariat's resources.

"The current funding framework is light on helping companies sell their value added products in the global market," she said. "More resources and a shift in focus is needed."

Food manufacturing employs more workers than the automotive and aerospace industries combined, she said, and the industry

welcomes a commitment to move beyond the reliance on commodities.

"We are hopeful this recognition will be reflected in the next APF," Ventin said. "Only about five percent of Agriculture and Agri-Food's overall departmental spending is allocated for the food manufacturing sector."

She said the industry supports a food innovation fund to help modernize the sector. Most public research funding projects exclude food manufacturing, she said.

karen.briere@producer.com

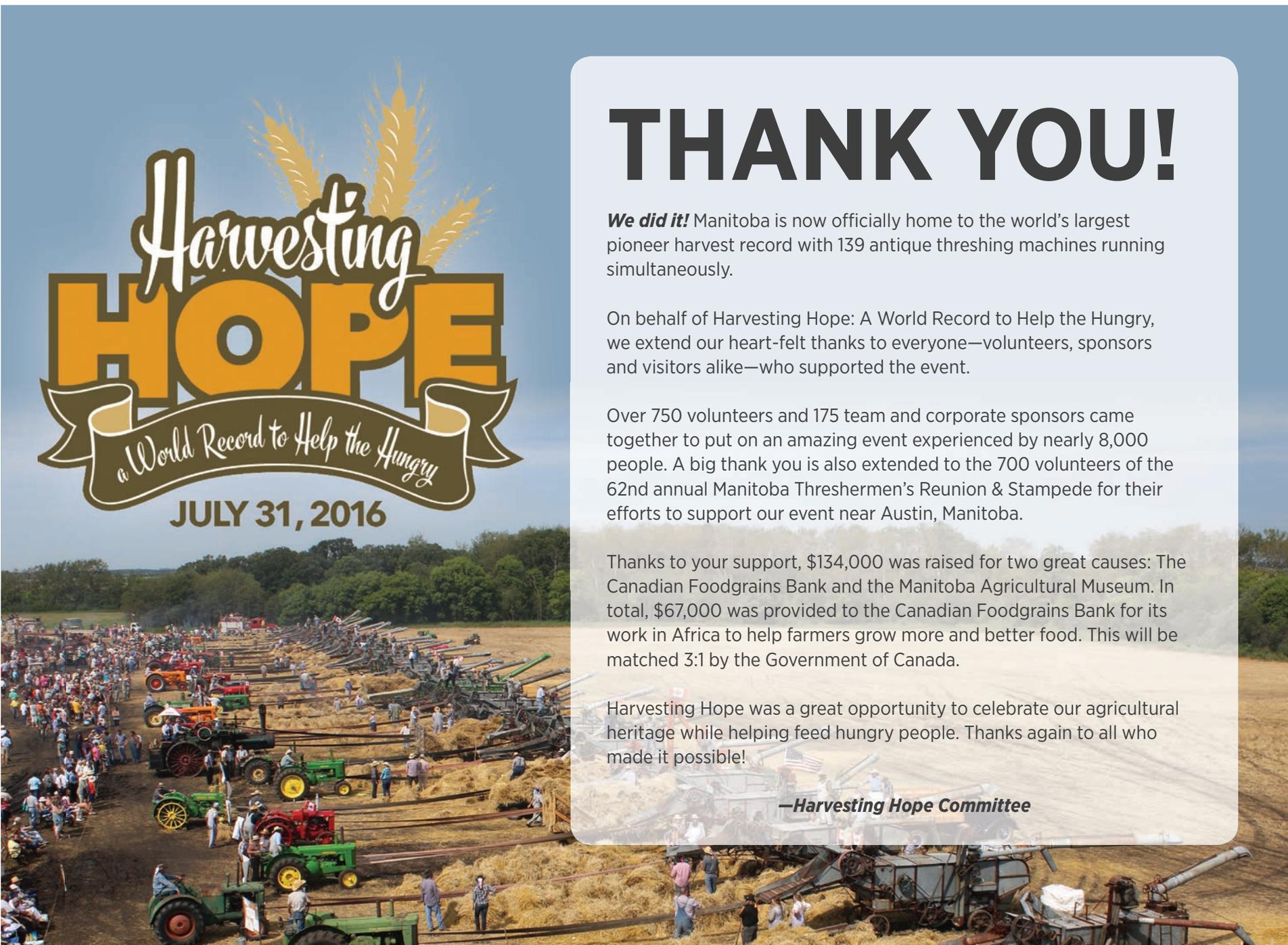
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Harvesting HOPE

a World Record to Help the Hungry

JULY 31, 2016

THANK YOU!

We did it! Manitoba is now officially home to the world's largest pioneer harvest record with 139 antique threshing machines running simultaneously.

On behalf of Harvesting Hope: A World Record to Help the Hungry, we extend our heart-felt thanks to everyone—volunteers, sponsors and visitors alike—who supported the event.

Over 750 volunteers and 175 team and corporate sponsors came together to put on an amazing event experienced by nearly 8,000 people. A big thank you is also extended to the 700 volunteers of the 62nd annual Manitoba Threshermen's Reunion & Stampede for their efforts to support our event near Austin, Manitoba.

Thanks to your support, \$134,000 was raised for two great causes: The Canadian Foodgrains Bank and the Manitoba Agricultural Museum. In total, \$67,000 was provided to the Canadian Foodgrains Bank for its work in Africa to help farmers grow more and better food. This will be matched 3:1 by the Government of Canada.

Harvesting Hope was a great opportunity to celebrate our agricultural heritage while helping feed hungry people. Thanks again to all who made it possible!

—Harvesting Hope Committee

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Thanks also to Western Producer for their generous support for Harvesting Hope.



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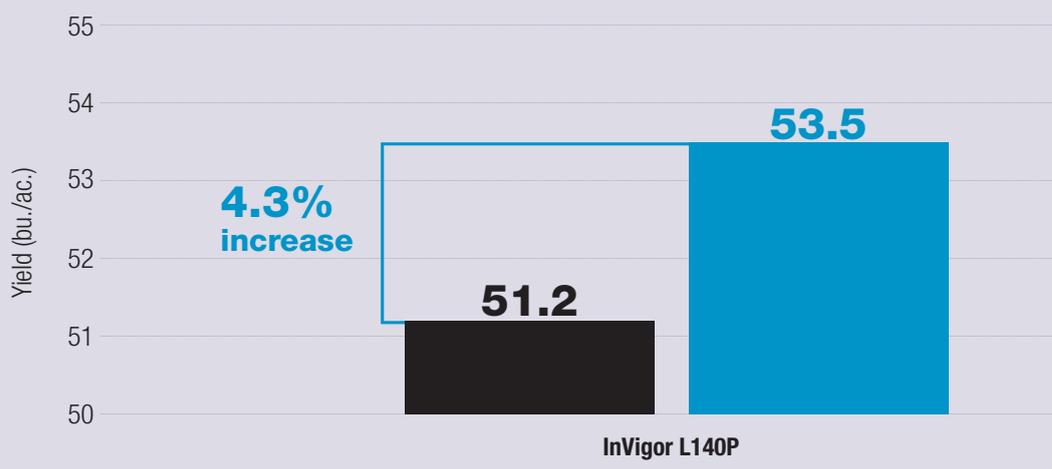
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In Demonstration Strip Trials (DSTs) for the past three years, InVigor® L140P, using the same agronomic practices, has shown a 4.3%* yield increase when straight cut over normal swath timing.

To see how InVigor L140P performed, check out yield results at InVigorResults.ca

Harvest Management DST Yield Summary

■ Normal Swath ■ Straight Cut



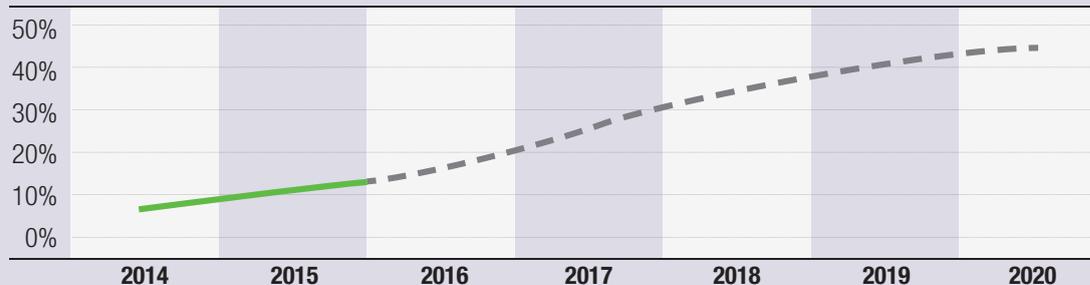
* Source: 64 Bayer DSTs (2013–2015). Results may vary on your farm due to environmental factors and preferred management practices.

MAKING THE CUT

Big changes are coming to the way growers approach their canola harvest. Bayer is predicting that by 2020, as much as 40% to 50% of canola in Western Canada will be straight cut.

Percentage of Market Straight Cutting

■ Actual* ■ Bayer Forecast



Source: Bayer straight cutting canola forecast prediction. * Stratus Market Research

The game-changing pod shatter reduction technology of InVigor L140P and NEW InVigor L233P offers growers excellent yield protection from adverse conditions at harvest and the ability to straight cut canola. Stronger pod seams and stems firmly adhere to the plant longer and enable seeds to more fully mature safely within the pod until harvested.

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Average maturity in days versus the average maturity in days of InVigor 5440 from the Bayer internal trials.

Lodging Resistance

