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CANADIAN CENSUS OF AGRICULTURE

Every five years, Statistics Canada releases a census of agriculture. The report gives a snapshot of who is farming, what they're growing and how they're doing. Here are some of the figures from the latest census.

THE TOTAL NUMBER OF FARMS DECLINED FROM 2011 TO 2016 BY **5.9%**

BUT THE NUMBER OF FARMS WITH 3,520 ACRES OR MORE GREW BY **8%**



IN 2016, CANADIAN FARMERS RAISED

12.53 million
CATTLE

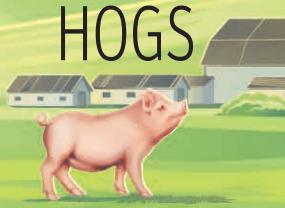
145.52 million
CHICKENS

THERE WERE **271,935** FARMERS IN CANADA IN 2016, A DECLINE OF

WHEAT
IS STILL THE MAJOR CROP GROWN IN CANADA, WITH **23.44** MILLION ACRES PLANTED IN 2016

CANOLA
IS THE SECOND LARGEST CROP AT **20.61** MILLION ACRES.

14.09 million
HOGS



7.5%
↓

AND THE AVERAGE CANADIAN FARMER AGE INCREASED TO

54
↑

Source: Statistics Canada 2016 Census of Agriculture | MICHELLE HOULDEN GRAPHICS



Related stories

Agriculture making smaller economic contributions | **P. 5**

Cropland acreage increases significantly | **P. 5**

OPINION: Government policy must respond to results | **P. 10**

CENSUS OF AGRICULTURE

Census offers glimpse into modern agriculture

BY SEAN PRATT & BRIAN CROSS
SASKATOON NEWSROOM

Prairie farmers are getting older — and younger.

More than half are 55 and older, according to the 2016 Census of Agriculture. The 55.5 percent in that category is up nearly seven percentage points from the 2011 census.

Bill Brown, head of the agricultural and resource economics department at the University of Saskatchewan, thinks the aging population has something to do with the love of the job.

"One of the main things is farmers don't like to retire and will continue to farm as long as they physically can," he said.

Erik Dorff, an analyst with Statistics Canada, believes it is simply a reflection of dynamics in the general population.

"The baby boomer cohort is aging, and that's reflected in the farm community as well," he said.

SEE CENSUS, PAGE 4 »



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On the Farm: Balancing work and family is important for this year's Manitoba Outstanding Young Farmers. See page 20. | ROBERT ARNASON PHOTO

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CORRECTIONS

An article on genetically modified apples on page 43 of the May 11 issue should have said only the Arctic Golden apple will be available as a bagged product.

The Sowing Seeds column on Page 19 of the May 11 issue should have said the Vineland Research and Innovation Centre is the originator of the Canadian Shield rose.

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WHAT'S HAPPENING



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FEATURES



GOING ORGANIC POLL

There are a number of stories, plus one opinion piece, in this week's WP about farming organically, or not. Does this potential market interest you?

100 YEARS SINCE VIMY

Saskatchewan students travel to France to get a first-hand look at the iconic battlefield, and the cost Canadians paid there 100 years ago.

PRE-SEEDING HARVEST

Photos from across the Prairies have captured images of this unusual activity. Have you got any pre-seeding harvest images you'd like to share?

► **PLUS:** Check out our extensive coverage of the recently released 2016 Census of Ag data. Our coverage begins here at //bit.ly/2qpa7kG.

Visit us at www.producer.com or chat with us on social media.

VIDEOS

RIFFIN' REGULATOR

Ed White talks to a D.C. futures market regulator who also plays a mean guitar.



HEALTHY PRICES

WP reporter Barb Glen attended a Livestock Markets Association of Canada meeting.



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TRANS-PACIFIC PARTNERSHIP

Effort made to revive TPP

BY SEAN PRATT
SASKATOON NEWSROOM

Reports of the death of the Trans-Pacific Partnership trade deal have been greatly exaggerated.

There was a plethora of stories following the withdrawal of the United States from the trade pact that suggested the agreement was dead.

However, trade ministers from the remaining 11 countries that formed the TPP as well as representatives from the U.S. and China met in Chile in March to talk about how to salvage the deal.

At that meeting, Canada offered to host the next gathering in Toronto, which occurred earlier this month under a veil of secrecy.

Canadian International Trade Minister Francois-Philippe Champagne was forced to speak to reporters about the gathering after Japanese media broke the story that the meeting was taking place.

"It shows that Canada is front and centre when it comes to trade in the Asia-Pacific region," he was quoted as saying in an iPolitics story.

"(We're) very happy that the talks are progressing."

Champagne said the next meeting will be held in Vietnam in November in conjunction with the 2017 Asia-Pacific Economic Cooperation summit.

Brian Innes, president of the Canadian Agri-Food Trade Alliance, is thrilled that there is an effort afoot to resuscitate the agreement because it would be beneficial for agricultural exporters.

"What I heard new out of the discussions in Toronto is that there is a real interest in charting a path forward with the 11 countries that are remaining in the Trans-Pacific Partnership agreement," he said.

"What we've seen is there has been a lot of positive momentum."

Innes is pleased that Canada is playing a leadership role in what has been dubbed TPP-11.

"(Champagne) has indicated clearly that it's Canada's interest to have a path forward to more open and stable trade in the Asia-Pacific," he said.

Innes said gaining unfettered access to Japan would be the big win for Canadian agricultural exporters in a revitalized TPP deal.

CAFTA would like to see the remaining 11 countries adopt the framework of the existing agreement that all TPP countries signed in February 2016.

"There was a lot of work that went into the agreement so, yes, the best way forward would be to adopt what has already been negotiated," said Innes.

Canada would be one of the biggest beneficiaries of TPP-11, according to a recent blog by the Canada West Foundation.

"Canada does better defensively in not having to worry about competitors gaining access to the U.S. market," it said. "Canada also appears to stand to gain the most from the TPP going ahead without the U.S. as its companies, but not American firms across the border, will have preferential access to the new bloc."

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PREPARING TO SHARE |

Coaldale Lethbridge Community Growing Project has been contributing to the foodgrains bank for several years. | BARB GLEN PHOTO

CHEMICAL DEVELOPMENT

Fungicide registration costs skyrocket

At up to \$300 million to bring a product to market, companies have to be confident of a return on investment

BY ROBERT ARNASON

BRANDON BUREAU

It's become a standard factoid at ag industry meetings in Canada: a new herbicide hasn't been released in years and new chemistries are not on the horizon.

There's a reason for that.

In fact, almost 300 million reasons.

A 2016 consultant's report, written for CropLife International, CropLife America and the European Crop Protection Agency, said it costs about US\$286 million to bring a crop protection product to market.

Phillips McDougall, a British consultancy, surveyed BASF, Bayer, Dow, DuPont, Syngenta, Monsanto and smaller firms in 2015.

The survey was intended to determine the discovery and development costs of crop protection products such as herbicides, insecticides and fungicides and identify how those costs have changed over time.

It found that research and development costs nearly doubled from 1995 to 2010-14 to \$286 million from \$152 million.

A Bayer CropScience spokesperson said costs vary, depending whether it's a fungicide, insecticide or herbicide, but the estimate is accurate.

With an average price tag of nearly \$300 million, the major crop protection firms now think long and hard about commercializing an active ingredient.

"The increasing costs of bringing a product through development

stages, companies need to satisfy themselves that potential commercial return can justify this expenditure," the report said.

"It is believed that a significant number of product leads do not pass into development stages as the potential returns may not justify these costs."

That means the chemical must be suitable for globally strategic crops. Otherwise it's not coming to market.

"You can't spend that kind of money and not end up with a product that is going to have a significant market opportunity," said Wayne Barton, manager of research and commercial development for BASF Canada.

"So ... corn, soybeans, cereals, rice, then canola (and) oilseed rape, we bundle those together."

Unfortunately for Canadian farmers, 20 million acres of canola isn't large enough to warrant a pest control product specific to Western Canada.

"Probably not on its own," Barton said.

Cost of registration

1995: \$152 million

2010-14: \$286 million

"Part of my job would be to communicate the needs and market opportunity here in Canada to stimulate investment in solutions that are going to fit here.... So we are always looking to similarities between solutions for Canada and Europe, Canada and the U.S., Can-

ada/Australia and in some cases Canada/China, to put together a project that's significant enough."

The Phillips McDougall report said crop science companies are still investing in research and development for new chemistries, despite the massive cost of developing a product.

Companies spent \$2.4 billion on R&D for new chemistries and biological products in 2014, based on responses from 11 firms. In 2019, they plan to spend \$2.9 billion.

Jeannette Gaultier, Manitoba Agriculture's weed specialist, said it's encouraging that investment is happening.

"(But) it takes longer and it's more costly," she said.

"Probably in the future ... at some point the advances in crop protection are not going to come just from chemistries. And I think we're already seeing a bit of that."

Barton said companies are definitely investing in alternatives to chemistry, such as biological products and genetics.

One nugget in the report is how long it takes to commercialize a new product: an average of 11.3 years in 2010-15 compared to 8.3 years in 1995.

So if a researcher discovered a new molecule this summer, it may take until 2029 to get that chemistry on the market. Because of the timelines, industry scientists must focus their efforts on the horizon, Barton said.

"Companies are working really hard, investing a lot of money, to try and find solutions to the challenges that they (growers) face

WHY THE HIKE IN COSTS?

There are three components to bringing a new ag chemistry to market: research, development and registration. The development piece includes field trials, toxicology studies and environmental chemistry studies. Costs associated with the development phase have increased the most from 2000 to 2010-14, partly because of regulatory expectations.

(US Millions)

	2000	2010-14
Research	\$94	\$107
Development	\$79	\$146
Registration	\$11	\$3
Total	\$184	\$286

Source: Phillips McDougall

now and that they will face in 10 to 15 years."

In the meantime, it's critical that growers use existing products wisely because the development pipeline is pumping out fewer products. Companies are committing people and money to research and development, but there are no guarantees that solutions will arrive quickly to solve problems with insects, fungi and weeds.

"They (growers) need to, I think, steward their land and their rotations and the use of technology carefully," Barton said. Because it (chemistry) is hard to come by."

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FOR A RELATED STORY, SEE PAGE 26.

FARM OPERATORS IN CANADA, BY AGE

MANITOBA	2011	2016	% change
Under 35 years	8.8%	10.8%	+2.0%
Age 35-54 years	45.7%	37.1%	-8.6%
Age 55 and older	45.6%	52.1%	+6.6%
Total farmers	22,315	20,140	-9.7%
Average farmer age	53.1	53.8	+1.3%

SASKATCHEWAN	2011	2016	% change
Under 35 years	8.8%	9.8%	+0.9%
Age 35-54 years	41.8%	34.4%	-7.5%
Age 55 and older	49.3%	55.9%	+6.5%
Total farmers	49,475	45,350	-8.3%
Average farmer age	54.2	55.0	+1.5%

ALBERTA	2011	2016	% change
Under 35 years	7.3%	8.5%	+1.2%
Age 35-54 years	43.1%	35.0%	-8.1%
Age 55 and older	49.6%	56.5%	+6.9%
Total farmers	62,050	57,605	-7.2%
Average farmer age	54.5	55.7	+2.2%

MAIN CROPS PLANTED IN CANADA

(million acres)	2011	2016	% change
All wheat	22.88	23.44	2.4%
» Spring wheat	16.86	15.69	-7.5%
» Durum	4.25	6.06	29.9%
» Winter wheat	1.76	1.68	-4.8%
Canola	19.37	20.61	6.0%
Barley	6.89	6.70	-2.8%
Soybeans	3.96	5.62	29.5%
Lentils	2.58	5.58	53.8%
Dry field peas	2.41	4.29	43.8%
Corn	3.30	3.61	8.6%
Oats	3.76	3.16	-19.0%
Flax	1.05	0.99	-6.1%
Mustard seed	0.30	0.52	42.3%
Rye	0.29	0.41	29.3%
Potatoes	0.36	0.34	-5.9%
Canaryseed	0.32	0.27	-18.5%
Chickpeas	0.10	0.20	50.0%
Triticale	0.10	0.12	20.7%
Dry white beans	0.09	0.10	10.0%
Sunflowers	0.08	0.09	11.1%
Sugar beets	0.044	0.038	-5.3%

F FARMS BY TOTAL GROSS RECEIPTS

MANITOBA	2011	2016	% change
\$100,000-\$249,999	37.8%	34.4%	-3.4%
\$250,000-\$499,999	28.0%	25.8%	-2.2%
\$500,000-\$999,999	19.6%	20.6%	+1.0%
\$1,000,000-\$1,999,999	9.3%	12.2%	+2.9%
\$2,000,000+	5.3%	7.1%	+1.8%
Number of farms with receipts of \$100,000+:	7,282		

SASKATCHEWAN	2016	% change
\$100,000-\$249,999	43.8%	35.4%
\$250,000-\$499,999	29.5%	25.9%
\$500,000-\$999,999	17.2%	21.1%
\$1,000,000-\$1,999,999	6.8%	11.9%
\$2,000,000+	2.7%	5.7%
Number of farms with receipts of \$100,000+:	17,181	

ALBERTA	2011	2016	% change
\$100,000-\$249,999	44.7%	38.9%	-5.9%
\$250,000-\$499,999	26.9%	24.8%	-2.1%
\$500,000-\$999,999	15.9%	18.5%	2.6%
\$1,000,000-\$1,999,999	7.5%	10.5%	3.0%
\$2,000,000+	5.0%	7.4%	2.3%
Number of farms with receipts of \$100,000+:	15,680		

LIVESTOCK ON CANADIAN FARMS

(million head)	2011	2016	% change
Total cattle & calves	12.79	12.53	-2.0%
» Beef cows	3.85	3.73	-3.1%
Total pigs	12.68	14.09	11.1%
» Breeding sows	1.14	1.21	6.1%
Total hens & chickens	133.03	145.52	9.4%
» Laying & broiler hens	5.54	6.63	19.7%
Turkeys	8.02	8.42	5.0%



Seeding was underway at the CPS Research & Development station at Rosebank, Man., May 1. The latest agricultural census from Statistics Canada showed wheat is still the dominant crop in Canada, but canola is a close second and gaining ground. | JEANNETTE GREAVES PHOTO

CENSUS OFFERS GLIMPSE INTO MODERN AGRICULTURE

» CONTINUED FROM PAGE 1

"The middle age range is sort of thinning out and they're progressing into the next age category."

The 35 to 54 category accounted for 35.1 percent of farm operators, down eight percentage points from 2011.

Meanwhile, the under 35 category rose for the first time since 1991 to 9.4 percent, up from 8.1 percent in 2011.

Brown chalks that up to the recent five-year stretch of profitability in the farm sector, whereas the period between 1991 and 2011 was full of doom and gloom.

"I talk to my students all the time, and there is much more going back to the farm now," he said.

Despite the growing number of farmers in the 55 and older category, only one in 12 farms has a succession plan.

Dorff said a succession plan is only one way to transition a farm from one generation to the next. Some handle the transition in a will, while others may plan to sell the operation to a neighbour.

"If you're incorporated, a corporation doesn't necessarily need a succession plan to continue operating," he said.

Brown said farm succession is a difficult conversation to have, and there are precious few succession planners to help farm families through the process.

However, he thinks there should be more than one in 12 farms doing that type of planning.



Todd Lewis agreed.

The fourth-generation farmer from Gray, Sask., said he was surprised by census data on succession planning.

But in general, the census data accurately reflected what Lewis and others have been observing in the ag industry over the past few years.

Farms with gross annual sales of \$499,000 or less are becoming less common, large farms with gross annual sales of \$500,000 or more are becoming more plentiful and the capital outlay required to operate a modern farm on the Prairies continues to rise.

"I don't think there were a lot of surprises there," said Lewis, who is also president of the Agricultural Producers Association of Saskatchewan.

"I think the census reflects what we've been seeing in the country: smaller producers are pulling out and retiring, but they're not being replaced on a one-to-one ratio by younger farmers."

"The smaller operations are being amalgamated and taken over ... but maybe three or four smaller farms are

getting taken over by one larger one."

Like any other industry, economies of scale are leading to industry consolidation and larger capital requirements for machinery, land and crop inputs.

According to census data, the market value of capital investments by Canadian farmers in 2016 was more than \$509 billion, up from \$330 billion in 2011.

Not surprisingly, broad-acre farmers on the Prairies are among the most heavily invested.

The cumulative value of farm capital in the prairie provinces was \$281 billion: \$144 billion in Alberta, \$95 billion in Saskatchewan and \$42 billion in Manitoba.

As prairie farms continue to get larger, the capital required to operate them also rises, placing more financial risk on operators.

"Operating costs are going up, so if we get into a period of lower commodity prices or weather related issues, things can become a big hurt a lot quicker than they used to," Lewis said.

"Certainly, the large amount of capital that's required for both land and equipment now is becoming a pretty big barrier to entry for anyone thinking about getting into the industry.... At the same time, if you can make financial arrangements or step into an established operation ... there's still plenty of opportunity in agriculture."

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FARMS BY TOTAL CROP SIZE

MANITOBA	2011	2016	% change
< 400 acres	51.9%	51.0%	-7.7%
400-559	9.3%	8.8%	-5.8%
560-759	8.0%	7.4%	-7.6%
760-1,119	9.6%	9.3%	-3.3%
1,120-1,999	10.9%	11.1%	1.1%
2,000-3,499	6.7%	7.5%	+12.1%
3,500+	3.6%	4.9%	+27.5%
Total farms	13,943	13,103	-6.0%

SASKATCHEWAN

CENSUS OF AGRICULTURE

Agriculture still has political clout

Census shows fewer farmers but still a critical contribution to the Canadian economy, say farm leaders

BY SEAN PRATT
SASKATOON NEWSROOM

Agriculture is steadily accounting for a smaller contribution to the Canadian economy, but it still has Ottawa's ear because of its vast potential, says a farm leader.

Primary agriculture accounted for 1.5 percent of national gross domestic product and 4.6 percent of total exports in 2013, according to the latest Census of Agriculture.

Fifty years earlier, the contributions were 5.8 percent and 10.6 percent, respectively. The numbers go up and down each year, but the long-term trend is a steady decline.

Bill Brown, head of agricultural and resource economics at the University of Saskatchewan, said agriculture may be losing some of its political clout as it becomes a smaller part of the overall economy. He said what's even more con-

cerning is the shrinking number of farmers. Statistics Canada counted 271,935 farm operators in 2016, which is down 44 percent from 25 years ago. It continues to drop with every census.

"We're going to be looking at a reduced political impact as time goes on," said Brown.

"We're going to get less and less MPs and MLAs from rural areas."

Ron Bonnett, president of the Canadian Federation of Agriculture, said the GDP statistics are deceiving.

He said agriculture is contributing more to the economy every year, but its share of GDP and exports is dropping because other industries such as oil have taken off since the 1960s.

"Figures lie and liars figure," he said.

Bonnett said agriculture is not losing political capital in Ottawa. Instead,

Although we're running with fewer farmers, a lot of the agricultural production has stayed the same.

RON BONNETT
CANADIAN FEDERATION OF AGRICULTURE

it is gaining, as evidenced by the recently released report by the Advisory Council on Economic Growth.

The council has a mandate to recommend to the federal government bold ideas that will significantly improve the economy. One of the key recommendations in the latest report released in February was to focus on agriculture.

"We have highlighted the agriculture and food sector as one example where Canada has the potential for

substantial growth and export improvement and the opportunity to become the trusted global leader in safe, nutritious and sustainable food in the 21st century," stated the report.

The council wants Canada to target an eight percent market share in global agricultural product exports by 2027, up from 5.7 percent in 2015, and a doubling in the share of agri-food exports over the same period to 5.6 percent.

Bonnett said reports like that have more sway with politicians than census numbers.

"Frankly, I think it was (this) report that likely loosened up a little funds, especially for the processing sector," he said.

As well, he disputed the notion that decisions in Ottawa would be influenced by the ever-shrinking farm population.

"Although we're running with fewer farmers, a lot of the agricul-

tural production has stayed the same," said Bonnett.

When he started farming in Bruce Mines, Ont., in 1975, it took 70 dairy farmers to produce the amount of milk that nine farmers are producing today. His cow-calf operation is doing the work of eight farmers in 1975.

However, Brown worries that farmers will continue to lose their voice in Ottawa as the rural population declines.

He said farmers in the United States don't face the same threat in at least one of the chambers of Congress because each of the 50 states elect two senators regardless of population.

"Of only 100 senators, you've probably got 30 or 40 from the farm belt that won't let anything get by unless they get something for their farmers," said Brown.

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YOU'RE NEXT

Eleven-year-old Colt Cross drags a calf to the crew to be vaccinated, tagged and branded at Trevor and Angie Cross's ranch near D'Arcy, Sask., May 6. | PAULA LARSON PHOTO

CENSUS OF AGRICULTURE

Prairie farmers using more land to grow crops – 610,000 more acres to be exact

BY BRIAN CROSS
SASKATOON NEWSROOM

When folk singer Stompin' Tom Connors sang about Canada's Poor, Poor Farmers back in 1973, he probably wouldn't have envisioned how modern agriculture would evolve over the next 40 years or so.

Today, grain and oilseed farmers on the Canadian Prairies are bigger, more productive and more heavily invested than ever.

However, based on the value of their capital investments in agriculture, they're anything but poor.

Erik Dorff, an analyst with the Census of Agriculture, said the 2016 farm census points to a con-

tinuation of a trend that began nearly 75 years ago.

Farm numbers are shrinking but the farms that remain are getting bigger.

"We've seen a long-term trend toward consolidation in farm numbers and that's been going on since 1941," he said.

Consolidation in the industry is illustrated by both the value of capital assets used by today's farmers, as well as gross annual receipts.

The value of farm assets in the prairie provinces was estimated at \$280 billion in 2016, up from \$171 billion in 2011. Those assets generated gross receipts of \$38.3 billion last year.

The amount of land used to pro-

duce crops also increased significantly between 2011 and 2016.

In Manitoba, the amount of land used to produce crops other than hay increased to 11.5 million acres, up from 10.7 million acres five years earlier.

In Saskatchewan, cropland area rose to 40.5 million acres, up from 36.4 million in 2011.

And in Alberta, the area dedicated to crop production rose to 25.3 million acres, up 24.1 million in 2011.

All told, the amount of prairie farmland that was used to grow crops rose to 77.3 million acres, up 8.6 percent from 2011 census.

Dorff said the increase in cropped area suggests that farmers are

dedicating less area to hay production, pasture and summer fallow.

"We saw cropland increase significantly within the Prairies and that came from a number of factors," he said.

"In 2011, when we had the last (ag) census, we caught the Prairies — particularly Manitoba and areas of Saskatchewan — in pretty wet conditions."

Alberta and British Columbia were the only provinces that saw an increase in cattle numbers over the past five years, he added.

Todd Lewis, a farmer from Gray, Sask., said prairie farmers are producing more grain than ever.

To some extent, that's because

less land is being dedicated to livestock production.

But other factors are also at play, such as continuous cropping, improved agronomic practices, better equipment and the adoption of new technologies.

"What used to be considered a huge crop is getting to be the new normal," Lewis said.

"I think that's proof that we are producing more, and certainly with the new technology that's available now ... some land that was deemed as marginal a few years ago maybe isn't considered marginal any more."

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MARKETS



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CATTLE PRICES

Stars align to bring good cattle prices

Low supplies, dollar and feed costs send prices up

BY BARB GLEN
LETHBRIDGE BUREAU

The laws of supply and demand have seen the gavel drop on good cattle prices of late in a rally that began about four months ago.

Live prices rose by US\$20 per hundredweight in the last four weeks, reaching a high not seen since last August.

Where the market will top, or whether it already has, given a price decline earlier this week, will be revealed in the next few weeks, cattle market analysts say.

Volatility can be a signal that the top has been reached, but analysts predict prices well above break-even at least through June and maybe longer.

There's demand for the tight supply calves in the cow-calf sector and feedlots are reacting to high packer demand by shipping slaughter cattle at lower weights.

Brian Perillat, senior market analyst with Canfax, said carcass weights are 81 pounds lighter, on average, than they were last October, when they reached an average high of 936 lb.

"Since then we've seen market-ready numbers tighten up," said Perillat. "We've seen carcass weights drop phenomenally. We've seen some of the biggest drops, from Jan. 1 to the end of April.... Canadian and U.S. carcass weights dropped dramatically."

Lighter weights mean less beef. Combine that with reasonable feed prices, a lower Canadian dollar, good export demand and seasonal retail promotions and it makes for a rosy picture in cattle production sectors.

"Overall I think the beef market, barring anything changing in the dollar, just the supply and international demand dynamics do bode well for cattle prices staying at these higher levels," said Perillat.

He speculated that the record-high cattle prices of 2014-15 may have pushed the trading range higher. Calves at \$2 per lb. used to be rare, but now that price isn't unusual.

Mike Murphy, analyst with Cat-



Analyst says lighter cattle are heading to market due to high packer demand and are bringing healthy prices. | BARB GLEN PHOTO

FED STEER PRICES RISE

The supply of market ready cattle this spring turned out smaller than expected in Canada and the United States, leading to rising fed cash prices. Feedlots have marketed cattle early and at lighter weights, which should mean a stronger summer pricing season than last year.

Alberta weekly fed steer prices (\$/cwt)



Source: Canfax | MICHELLE HOULDEN GRAPHIC

telefax, also cited lighter carcass weights in his analysis of current markets.

"It's the biggest price move from Jan. 1 into the spring that we've ever experienced," he said.

FEEDER CATTLE PRICES LIFT

The price rally associated with the tight fed cattle has also lifted feeder cattle prices.

Alberta weekly 500-600 lb. steer prices (\$/cwt)



Source: Canfax | MICHELLE HOULDEN GRAPHIC

"We've had perfect marketings from a cattle feeders perspective because of big profitability, the strong live cattle basis, so that's created a big drop in carcass weights," he said in an interview at a Livestock Markets Association of Canada meeting May 13.

CONTINUED ON NEXT PAGE »

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"We have, since the beginning of the year, the second biggest decline in steer carcass weights that we've ever experienced."

"This is going back since 1980. The signal has been very clear for producers to do what? Sell cattle."

In his presentation, he said the three "cardinal rules" affecting prices are all positive: cattle selling out of feedyards are profitable; futures markets are at a discount to the cash cattle market and there's a positive swap (fed price versus purchase breakeven) on replacement cattle.

"A profitable cattle feeder will add stability back to the feeder cattle and calf markets," said Murphy.

He predicted profits for the cow-calf sector for the remainder of the summer.

Auctioneers have also cited the carcass weight factor in the recent price rally and high demand.

"Some of the carcass weights have been a little bit lighter," said Rhett Parks of the livestock market in Whitewood, Sask.

"You take 20 or 25 lb. less per animal, it doesn't sound like much when you're talking one animal, but when you're talking millions of animals, that's a lot of beef."

Ryan Hurlburt of Saskatoon Livestock Sales said he's seen good interest among producers for replacement heifers, but market prices are too tempting for some to consider retention and expansion.

"We have seen some producers ... that would normally grass cattle, they have unloaded them. And that has a lot to do with the year before. They got scratched up so bad that they finally saw extra daylight."

Murphy said the U.S. domestic herd is in expansion mode because feed is expected to be abundant and reasonably priced, and producers want to capitalize on favourable beef demand.

U.S. beef exports are also expected to rise. Last week President Donald Trump announced a beef trade deal with China, although there are no details. Beyond that, Murphy said exports will rise if the global economy remains stable.

"Our expectation really is for exports to continue to grow right on into the end of the decade."

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DATA GATHERING

Statistics Canada takes heat on canola supply estimates

Agency says it takes 'every possible measure to ensure the accuracy' of survey

BY SEAN PRATT

SASKATOON NEWSROOM

Statistics Canada has come under fire by analysts for its canola production and stocks estimates but the agency remains confident in its numbers.

Todd Mulligan, senior crops analyst at Statistics Canada, said the November estimates of crop production are based on a survey covering 26,500 farms.

"We have a lot of confidence because that is an extremely large number of people to call," he said.

Statistics Canada consults with provincial agriculture officials to verify its estimates. For instance, if farmers in one area report poor yields due to wet conditions it checks to see if that is the case.

"It's really a validation for us to (ensure) what we're seeing, what we're getting, what we're computing and what we're compiling seems to be the way it is," said Mulligan. "We take every possible measure to ensure the accuracy."

Many analysts believe the 18.4 million tonne canola estimate for 2016-17 is too low because it does not take into account crop that remained to be harvested this spring.

But Mulligan said the November survey covers that. Every year farmers are asked how much canola came off their fields and how much more they will harvest down the road.

The question is phrased so it doesn't matter if what remains in the field will be harvested in a week, a month or six months, so it should provide accurate results even in strange conditions like last year when so much of the crop was still in fields at the time of the survey.

"The farmer heard the question and we have to trust that they answered it to the best of their ability," he said.

Larry Weber, analyst with Weber Commodities, is estimating 18.9 million tonnes of production in 2016-17 but he thinks that is extremely conservative.

He said Statistics Canada's report has a history of underestimating the size of the canola crop and this



year could be worse than usual.

In the past 10 years between the November and final production estimates, StatsCan has underestimated the size of the crop eight times, got it right once and overestimated it once.

On average, StatsCan has underestimated the crop by 634,700 tonnes over that period.

"You have to keep your own S & D's (supply and disposition reports) for Canada because they're so inaccurate," said Weber.

He puts more faith in the U.S. Department of Agriculture's numbers.

Looking ahead, the USDA forecasts 21 million tonnes of Cana-

dian canola production in 2017-18 versus Agriculture Canada's forecast of 18.5 million tonnes.

Statistics Canada recently released its March 31 stocks report based on a survey of 11,600 farmers.

It estimates there were 6.6 million tonnes of canola on farms and in the commercial grain handling system at that time, 23 percent below the previous year.

Weber noted that on-farm stocks were down 32 percent in Saskatchewan to 2.3 million tonnes and 25 percent in Alberta to 1.8 million tonnes.

He doesn't believe that takes into account what remains to be harvested from 2016, which

CROP ESTIMATES

Based on its November farmer survey and other data, Statistics Canada issues a crop size estimate that it believes is as accurate as possible at that point. At the end of the crop year it looks at exports, domestic use and year end stocks and revises its crop size estimate. In the past 10 years, the estimate was revised higher eight times.

Nov. survey	final report	percent difference
'06-07	9.11	9.00 -1.2%
'07-18	8.75	9.61 +9.8%
'08-09	12.64	12.65 0.0%
'09-10	11.83	12.90 +9.1%
'10-11	11.87	12.79 +7.8%
'11-12	14.17	14.61 +3.1%
'12-13	13.31	13.87 +4.2%
'13-14	17.96	18.55 +3.3%
'14-15	15.56	16.41 +5.5%
'15-16	17.23	18.38 +6.6%
'16-17	18.42	n/a --

Source: Statistics Canada | WP GRAPHIC

One analyst says Statistics Canada's report has a history of underestimating the size of the canola crop and this year could be worse than usual. | FILE PHOTO

could be up to 2.2 million tonnes based on conversations he had with farmers at dozens of meetings over the winter.

Mulligan said if that is the case, it will show up in the July 31 stocks report when they conduct a supply and disposition of how much canola was crushed, exported and used for other purposes.

"If there is something out of balance there, then we will know," he said.

"When we add up the different components, the deliveries and total dispositions, that will really tell the tale there."

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FEED GRAINS

Prairie feed wheat and barley at seasonal highs

BY DAVE SIMS
COMMODITY NEWS SERVICE CANADA

WINNIPEG — Feed barley and feed wheat appear to be settling into seasonal highs, says a market watcher in Alberta.

"Whether it goes up much more remains to be seen," said Jim Beusekom of Market Place Commodities in Lethbridge.

"Between Easter and May long weekend, we're probably at a high."

He says high vomitoxin (10 p.p.m.) wheat is trading at C\$170 to \$175 per tonne while low vomitoxin supplies that are suitable for hogs and poultry are coming in at \$185 to \$190.

Meanwhile, feed barley is trading at \$170 to \$175 per tonne.

"That's steady compared to last week but up over the last month by \$10 to \$15 per tonne on each commodity," he said.

He said those prices may taper off toward the end of May as more road bans come into effect, yards get muddy and farmers go planting.

"As those conditions change, grain becomes more available and the price comes back off," Beusekom said.

One other factor facing the market is the large volume of spring-threshed grains starting to come in from prairie fields.

"We're starting to notice it for sure," he said.

Beusekom said offerings have been fairly steady over the past 10 days, but it hasn't been overwhelming.

"The thing is, the spring-threshed grain has a high range of stuff in it too, so some of it is good and some of it is really bad," he said. "The poor quality isn't worth much."

There are ideas that barley acreage could also creep up if spring planting is delayed by additional rain.

The theory is farmers may switch from other crops if the season becomes too short.



Italy is Canada's third largest foreign buyer of durum at 522,000 tonnes this crop year. Italy has proposed that pasta packaging show where wheat was grown and milled and would require Italian pasta makers to segregate supplies by country. | REUTERS/CIRO DE LUCA PHOTO

IMPORT LABELLING

Italy's labelling request has durum sellers nervous

Cereals Canada president says country-of-origin labelling will increase cost of raw exports

WINNIPEG/ROME, Italy (Reuters) — Italy has formally asked the European Commission to allow it to require country-of-origin labels on pasta sold there, raising alarms for Canadian durum wheat exporters who fear the move will dampen sales.

Italian Agriculture Minister Maurizio Martina said on Twitter May 12 that Italy had sent a decree to Brussels spelling out proposals to label pasta and rice to show the origin of the raw materials. Rome had sent a draft decree of its intent in December, but had not taken the formal step until now.

Italy is proposing that pasta packaging show where the wheat was grown and milled.

Canadian exporters and farmers fear the move would reduce the amount of durum that Italy imports from Canada, the biggest global durum exporter. It would require Italian pasta makers to segregate supplies by country.

Italy's move comes as a Canada-Europe free trade deal moves to final stages of approval.

"It's something that causes us significant concern because it will increase the cost of moving durum into Italy," Cam Dahl,

president of industry group Cereals Canada, said.

Italy is Canada's second-biggest foreign buyer of durum so far in the 2016-17 crop year, buying 522,000 tonnes from August through March, according to Canadian Grain Commission data. Algeria is the top buyer this year.

In 2016, Canada's durum exports to Italy were valued at \$321.5 million and in 2015 they were \$447 million, according to Statistics Canada's Canadian International Merchandise Trade Database.

The European Commission said it had not yet received official

notification from Italy and that it would then have three months to make observations. If there are none, Italy would be free to proceed with its plans.

European lawmakers have shown an increasing appetite for labelling due to consumer demands for information about food. Italy has also said labelling would help its pasta industry compete with foreign competition.

Representatives of Cereals Canada plan to visit Italy this month to meet with pasta groups and Brussels to meet with European Union officials.

USDA REPORT

Global oilseed stock estimate hammers soybean prices

MARKET WATCH



D'ARCE McMILLAN

Prices and profitability for oilseeds have generally been stronger than for grain because soybeans, canola and other oil crops have not suffered burdensome global oversupply.

However, last week's U.S. Department of Agriculture monthly supply and demand report underlined that global soybean stocks are not as tight as they once were.

And that affects Canadian canola prices because they move within the context of the wider oilseed market.

The USDA raised its estimate of current global year ending stocks by 2.5 million tonnes to a record high 90.1 million tonnes.

That raised the global stocks-to-use ratio to 27.2 percent, the highest since 2010-11.

If you look at the U.S. by itself, its stocks-to-use for the current and 2017-18 crop years are in the 10 to 11 percent range, well up from the level of the previous five years when the ratio was around five percent or less.

Not surprisingly, soybean prices are the lowest in years.

The oversupply in 2010-11 melted away when sharply lower soybean yields in Brazil and the United

States reduced production and lifted prices. By the end of 2011-12, the global stocks-to-use ratio was a tight 20.5 percent.

Looking ahead to 2017-18, the USDA expects that with big production from South America and the U.S. there will be ample low cost supplies that will stimulate demand.

That demand should help to trim the oversupply but not by a lot.

It forecast the global 2017-18 carryout at 88.8 million tonnes for a stocks-to-use ratio of 25.8 percent.

The USDA report had a little better news for corn.

Its forecasts for U.S. domestic and global current year carryout were less than expected.

And it sees the domestic and global carryout falling in 2017-18, with the domestic ratio falling to

14.8 percent from 15.7 percent and global carryout falling to 18.4 percent from 21.3 percent.

The global carryout ratio would be the tightest in four years.

As for wheat, the U.S. has produced big crops in recent years and because of its strong dollar has had trouble competing on the export market. It wound up with an unusually large amount of global stocks.

Its stocks-to-use ratio in 2015-16 and 2016-17 was more than 50 percent. With a smaller crop in 2017-18, the USDA expects the carryout stocks to fall and the ratio to drop to 41.7 percent. Although better, that is still not considered tight.

Globally, the wheat surplus is expected to grow. The USDA forecast the 2017-18 stocks-to-use ratio at 35.1 percent, the highest since 2001.

However, there is always a caveat with the global wheat number because China holds so much of the world's stocks.

Its percentage of global stocks is forecast to rise to 49.6 percent, up from 43.4 percent at the end of the current crop year.

China will likely never put those stocks on the world market so I'd argue they are irrelevant in the supply-demand relationship.

However, I lose that argument because the mindset of the wheat trade is that global supply is more than ample and there is no reason to rally prices to encourage production.

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



Beijing supermarkets could see more imported beef and chicken products from the United States, thanks to a recent agreement to lift restrictions. | REUTERS/KIM KYUNG-HOON PHOTO

BILATERAL AGREEMENT

U.S. and China strike deal to expand agricultural trade

China has taken a tough stand on GM imports but will review its policy later this month

(Reuters) — The United States and China agreed last week on several issues affecting agricultural trade.

They agreed to take action to expand bilateral trade in beef and chicken.

China also promised to evaluate eight varieties of U.S. genetically modified crops by the end of this month.

China will allow U.S. imports of beef no later than July 16, and the U.S. will issue a proposed rule to allow Chinese cooked poultry to enter U.S. markets.

The U.S. also signalled that it was eager to export more liquefied natural gas to China.

Every new variety of GM crop has to win approval in export markets before it can be sold there.

China's review covers crops grown from seeds developed by major companies, including Monsanto, Dow Chemical and DuPont, the U.S. Commerce Department and the companies said May 12. They have been stuck in the Chinese approval process

for up to six years.

Dow AgroSciences said Chinese approval would be key to the roll out of its new Enlist corn and soybeans seeds in the U.S., where more than 90 percent of corn is genetically modified.

China has roiled markets and sent prices sliding in the past when it took a tough line on imports of certain GM products.

In November 2013, it began rejecting U.S. corn shipments because Chinese inspectors said they contained a GM corn variety made by Syngenta AG called Agri-sure Viptera. The variety was approved by the U.S. but not China.

A U.S. trial over the matter is set to start this summer with farmers suing Syngenta after corn prices allegedly fell because of the rejections, which cost the agriculture industry up to \$2.9 billion in lost sales and lower prices.

In 2016, China was the world's second largest beef consumer at 7.7 million tonnes and importer at 812,000 tonnes of beef, behind the U.S.

China has bought negligible amounts of U.S. beef products since imposing a ban in 2003 over concerns about BSE.

Asia remains the top market for U.S. beef shipments — at \$3.77 billion worth of beef cuts in 2016 — out of U.S. exporters' total \$6.34 billion. Japan (\$1.51 billion) and South Korea (\$1.06 billion) were the top buyers of U.S. beef exports.

Brazil was China's top beef supplier in 2016, shipping \$765.3 million dollars of frozen beef. Australia was the top fresh beef supplier valued at \$57.11 million.

China was the 21st largest market for U.S. poultry exports in 2016, purchasing only \$33 million out of a total \$3.875 billion of U.S. poultry exports.

In 2014, the U.S. exported about \$315 million worth of poultry products to China, including chicken feet, or paws, which are popular there.

China has banned U.S. poultry imports since the U.S. suffered its worst-ever outbreak of avian flu in 2015.

WP LIVESTOCK REPORT

HOGS RISE

Seasonal tightening of market-ready supply and strong pork exports have put hog prices on an upward trend.

The U.S. national live price average for barrows and gilts was US\$53.66 per cwt. May 12, up from \$48.75 May 5.

U.S. hogs averaged \$69.73 on a carcass basis May 12, up from \$64.20 May 5.

The U.S. pork cutout was \$83.29 per cwt. May 12, up from

\$77.74 May 5.

The estimated U.S. weekly slaughter for the week to May 13 was 2.258 million, down from 2.262 million the previous week.

Slaughter was 2.162 million last year at the same time.

In Canada, the average for the week to May 13 Signature Five price was C\$168.08 per 100 kilograms, up from \$151.95 the previous week.

On a per hundredweight basis, the average price was \$76.24, up from \$68.92 the previous week.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to C\$6.30-\$6.50 per pound hot hanging weight. U.S. buyers are offering US\$4.75 with returns dependent on exchange rates, quality and export costs. Grade A heifers sold up to C\$6-\$6.30. U.S. buyers are offering US\$4.50.

Animals outside the desirable buyer specifications may be discounted.

CANFAX REPORT

FED CATTLE FALL

The fed market gave back the gains from the previous week's sharp rally.

The Canfax fed steer weighted average was \$180.02, down \$11.49, while heifers were \$179.19, down \$5.33.

It is likely that the spring high is now behind us.

Terminal feedlots, background lots and farmer type feeders marketing their own calves all sold cattle in the past week.

Dressed sales for end of May delivery ranged from \$300-\$305 delivered. The price for June 5 delivery was \$296.

American packers bought a few Canadian cattle.

U.S. buyers were again looking for quick delivery cattle.

U.S. sales were at a slight premium to local sales, depending on freight and dressing percent.

U.S. bids worked back to the mid \$180s on a live basis.

Excluding the holiday-shortened week, western Canadian slaughter volumes have been consistent over the past seven weeks, ranging from 39,500-41,900.

With more fed cattle expected to go south in the next couple of weeks, one or possibly both major Alberta plants might reduce hours.

Cash-to-futures basis levels remain historically strong.

Alberta fed prices were +10.24 over the June Chicago live contract.

It may take time, but as cattle become available seasonally, packers will gain leverage.

As this leverage shift happens there will be more basis and price risk in the fed market.

In the U.S., dressed sales in the north were US\$220-\$224, down \$8-\$10 from previous week.

Southern regions traded at mostly \$138 live, down \$7.

U.S. steer carcass weights averaged 847 pounds, the lowest since May 2014.

NON-FED PRICES MIXED

D1, D2 cows ranged \$100-\$118 to average \$109.98, down 97 cents. D3 cows ranged \$90-\$105, down \$2.50.

The rail grade range was \$207-\$212 per cwt. delivered.

Bulls averaged \$127.11, up 65 cents.

Western Canadian non-fed slaughter for the week ending May 6 was down 16 percent at 5,453 head. For the year, slaughter is up seven percent.

Feeder cow and D1/2 prices should remain well supported.

Seasonally, slaughter cow sup-

ply is expected to tighten, helping to support prices.

FEEDERS RISE

Alberta feeder prices continued to rally, even with the seasonally large offering. On average, steers were up \$2.69 and heifers rose \$4.03.

There was broad based buyer interest on calves lighter than 600 pounds. The steer-heifer price spread tightened with fewer quality steer calves and more heifers on offer.

Feeders 600-800 lb. rose \$4-\$5.50, while feeders heavier than 800 lb. were steady to \$1 higher.

Eastern buyers focused on heavy bunk replacements.

Auction volumes were huge for this time of year, totalling more than 31,000 head.

North and central Alberta auction volumes swelled. Producers there have been battling muddy conditions through calving and have been distracted from marketing feeders because of delayed harvest and spring field work.

For the year, auction volume is up 18 percent at 548,047 head.

The strong prices are pulling feeders to market. Some backgrounders have flipped feeders and taken profits now rather than go to grass. This may have contributed to increased auction traffic.

Feeders heavier than 700 lb. continued to rise, tracking the seasonal trend.

Weekly exports to April 29 dipped to 5,396 head. For the year, exports are down 35 percent. As supplies tighten, feeder prices typically rise until yearlings begin to come off grass in late August.

Bred cows ranged \$1,450-\$2,000.

U.S. BEEF STRONG

Choice was US\$246.86 per cwt., up \$11.28, and Select was \$226.66, up \$9.82.

In the past month, Choice soared 19 percent and Select 15 percent and are now 10-15 percent higher than a year ago.

With the fed market coming off its highs, a softer tone may develop in the boxed beef market.

However, demand for grilling items for the coming spring and early summer holidays will support prices.

Canola prices were unavailable.

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.

were \$239-\$274, 70-85 lb. were \$220-\$250, 86-105 lb. were \$195-\$220 and 106 lb. and heavier were \$187-\$195.

Hair rams were \$80-\$185 per cwt. Cull ewes were \$90-\$191.

Ontario Stockyards Inc. reported that 887 sheep and lambs and 37 goats traded May 8. New crop lambs sold steady to slightly stronger. Heavy lambs traded \$5-\$7 per cwt. higher. Lean sheep sold steady, while thicker types were spotty.

Good goats were stronger.

SHEEP, LAMBS RECOVER

Beaver Hill Auction in Tofield, Alta., reported that 508 sheep and 54 goats sold May 8.

Wool lambs lighter than 54 lb. were \$235-\$275 per cwt., 55-69 lb. were \$249-\$300, 70-85 lb. were \$241-\$276, 86-105 lb. were \$204-\$241 and 106 lb. and heavier were \$199-\$210.

Wool rams were \$70-\$127 per cwt. Cull ewes were \$75-\$192.

Hair lambs lighter than 54 lb. were \$270-\$309 per cwt., 55-69 lb.

WP EDITORIAL

OPINION

AGRICULTURAL CENSUS

Gov't needs to consider ag incentives that attract youth

Farming in Canada is still profitable and farm receipts are growing. These are two observations from the recent Census of Agriculture that were known but are nonetheless welcome to see confirmed in the numbers.

Still, two other interesting observations to emerge out of the census are the continued aging of Canadian farmers and the increasing size of farms (which means fewer farms).

There are no imminent issues there. Indeed, the indication is that farmers want to keep going and that they are taking advantage of the economy of scale that is possible on the Prairies to expand. Yet these two trends deserve some attention sooner rather than later. For if it is determined that these trends have disconcerting longer-term implications, they will need to be addressed with a long lead time.

The census shows that 55 percent of farmers on the Prairies are now 55 or older, up from slightly less than 49 percent five years ago. That's a significant jump when you consider that the number of farmers younger than 35 increased by less than six percent across the Prairies, while the number of farmers from 35 to 54 decreased by 25 percent.

In short, where is the next generation of farmers? The entry point for farmers is almost always children of farmers — it's just too expensive for people who do not already own farmland to get into farming. But with the number of young farmers barely increasing, the future is murky.

These 55-plus boomers will eventually relinquish their farms, but to who? If young farmers aren't entering the industry in great enough numbers, it means aging farmers will be selling or renting large swaths of their land to those in their own generation, exacerbating the other trends of growing farm size and fewer farms.

The growth of farm size, on its own, isn't undesirable at the moment, because it

allows farmers to use technological improvements in seeds and machinery, which increase global competitiveness.

Still, extrapolated a decade and a half out, the concern is that a small number of elderly, wealthy farmers will control a vast amount of prairie farmland.

Such consolidation gives pause to consider: would that mean a continued migration out of beef farming as older farmers relinquish the labours associated with cattle — and potential distress of diseases such as BSE — to take advantage of more opportunities in grain farming? There are almost 13 percent fewer beef producers, while crop area has grown by more than 12 percent.

The emergence of alternative profitable crops that can be added into rotations — lentils, for example, are now the third largest crop in Saskatchewan with growing international demand — makes grain farming more reliable.

And it's worth noting that in the last decade or so, efforts at corporate grain farming on giant farms haven't gone well, so there is an economic argument for diversity in farming.

Then there is the larger societal issue, which, for better or for worse, tends to favour smaller family farms that are close to the consumer. That becomes important when the social licence in farming comes under more scrutiny.

Which is where government policy fits in. If governments and society are sensitive to the idea that a few large, wealthy farmers could eventually come to own much of the land, then younger farmers must be encouraged through such initiatives as tailored lending policies.

There is no emergency here. It's a slow trend, but one that should be considered.

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

CRAIG'S VIEW



WINTER WHEAT WINTERKILL IN MANITOBA

If it's dead it's dead, but if it's greening up, it could be OK. It fills in. What some people think is a bad winter wheat crop can still yield more than a good spring wheat crop.

JAKE DAVIDSON,
WINTER CEREALS CANADA, PAGE 16

CANADA, U.S. TRADE

New U.S. trade official has lots to consider in NAFTA negotiations

CAPITAL LETTERS



KELSEY JOHNSON

The United States finally has an official trade representative.

American lawyer and former deputy trade representative Robert Lighthizer was confirmed with a U.S. Senate vote of 82-12.

Here in Ottawa, his appointment is significant because it means the administration of U.S. President Donald Trump can move ahead with its promise to renegotiate the North American Free Trade Agreement.

Ottawa's line since Trump took office has been that Canada is prepared to renegotiate the deal, al-

though specifics around Canadian wishes have been largely muted with officials and cabinet ministers opting to take a wait-and-see approach.

That waiting period may soon be over.

Shortly after Lighthizer was confirmed, Trump promised that his administration would move quickly to notify Congress, which requires 90 days notice before any renegotiation can take place.

That notice period gives Congress a chance to draft its wish lists and set priorities before talks officially begin.

For Ottawa, that notice period is expected to provide greater insight into how the often unpredictable Trump administration plans to proceed.

International Trade Minister François-Philippe Champagne and Foreign Affairs Minister Chrystia Freeland have told reporters they expect the formal notification will come quickly now that Lighthizer is in place.

Trump's hatred of NAFTA is hard to miss. He's repeatedly called it the "worst trade deal" the U.S. has ever signed.

Reforming the trade deal is a critical part of promises he made during the presidential election campaign last year when he vowed repeatedly to stand up for the average American worker.

This despite pleas from industries such as agriculture that argue jobs in their sectors depend on trade.

Washington's vision of the trade deal hasn't stayed constant. Trump's plan for the renegotiated trade deal has evolved from what he initially called a "tweak" to "massive" changes.

With Washington in turmoil over Trump's firing of FBI director James Comey and allegations of Russian meddling in the U.S. election, Trump is desperate for a political win.

That desperation could work in Canada's favour, in part because

Trump could be running out of time. The 90-day notice period requirement means negotiations are unlikely to start until at least the autumn.

The timeline is complicated by the 2018 Mexican presidential election, an event that could delay negotiations. Mexico has said it wants most of the talks completed before the elections take place.

Combine that with U.S. midterm congressional elections and the number of available calendar days shrinks even more.

That timeline doesn't take into account the turmoil in Washington, where calls for Trump to be impeached are gaining steam.

A White House desperate for a deal could mean more leverage for Canada, even though trade negotiations with the U.S. don't have a reputation for being easy.

In the lead up to the NAFTA renegotiation, Canada's agriculture industry has started unveiling its desires.

The agriculture industry has made it clear that the current NAFTA works well for them, a position American farm groups agree with.

The beef industry is also asking for access to U.S. beef grades.

The CCA, along with the Canadian Pork Council, want the U.S. to eliminate a requirement for secondary inspections on meat at or near the border.

They told MPs that if both countries consider their food inspection systems as equivalent, that should mean inspections conducted at packing plants are enough.

Canada's red meat industry has also said any American efforts to reinstate mandatory country of origin labelling must be defeated.

On the grain front, Canada's wheat industry has said they are open to an American request for access to Canadian grain grading.

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

& OPEN FORUM

GRAIN INDUSTRY

Interswitching valuable pricing tool

BY WADE SOBKOWICH,
CHRIS VERVAET, GREG NORTHEY

For Canada's grain sector, the past three years have seen important initial results from competition at work in the movement of grain by rail.

It's all because of the government's (temporary) provision to extend the 30 kilometre interswitching radius to 160 km, giving many normally captive shippers competitive options when ordering cars and negotiating rates.

This is a trend that is only going to grow as more shippers find new ways to leverage extended interswitching.

According to Quorum Corp.'s grain monitor, the first three months of 2017 saw the use of extended interswitching more than triple over the same period last year.

That all means significant savings to shippers and ultimately farmers — \$12.6 million, in fact — since the extended interswitching provisions started to be monitored in August 2015.

What the grain monitor numbers don't show is what a small measure of competition can do for shippers without ever having to use an interswitch.

Even limited competition begins to change the conversation from what the service provider is willing to offer to a discussion about what the customer needs.

As a result, some shippers are extracting better offers on service from their carrier without ever having to physically take their business elsewhere.

This is particularly true for value-added processors.

For example, extended interswitching has proven all the more



Extending the interswitching radius to 160 kilometres saves shippers and farmers money. | FILE PHOTO

valuable to canola crushers when serving customers in all 48 lower American states.

Extended interswitching has allowed processors to leverage competition not only between Canadian National Railway and Canadian Pacific Railway, but also with other railways to compete for Canadian canola oil and meal travelling in the north-south corridor.

As the grain monitor numbers continue to show, processor shippers have been especially effective at leveraging this option.

Expanding the field of competitors can only serve as further motivation for Canada's Class 1 carriers to continue to look for ways to keep U.S.-bound traffic moving on their own lines, which means good news for farmers and shippers and Canada's western economy as a whole.

Expanded interswitching has

also made a big difference on inter-nationally bound grain.

The vast majority of elevators on the Prairies have historically been captive at origin to a single rail carrier. As shippers continue to build capacity and invest in elevators that can handle 100 car trains or more, the lack of competitive options has meant that new capacity is often wasted because efficiency for the customer is not always the railways' number one priority.

Where more competitive options are at play, these dynamics change. The provision to extend the interswitching limit has meant that the number of these larger capacity elevators with access to a unit-train interswitch has grown substantially.

If the government were to enact the extended interswitching provision into legislation permanently, as we hope it will, shippers could confidently invest in more large

capacity elevators, where they can predictably count on competitive options to drive efficiencies.

For the grain sector, the most exciting part of the extended interswitching story is the potential that it holds.

As interswitching options become more well known over time, their value as a powerful negotiating tool will only grow.

In our view, this simply would not happen without competitive forces being injected into the grain-by-rail logistics supply chain through important policies such as extended interswitching.

Wade Sobkowich is executive director of the Western Grain Elevator Association, Chris Vervaet is executive director of the Canadian Oilseed Processors Association and Greg Nortney is director of industry relations at Pulse Canada.

SKEPTICAL OF BENEFITS

Why I will never convert fully to organic production

HURSH ON AG



KEVIN HURSH

Have you ever contemplated converting to organic production?

With a relatively small grain operation growing a wide array of crops, there might be a good business case for switching our farm. From the outside at least, there seems to be a strong demand for many organically grown commodities at very attractive prices.

And just think: no more lumpy or clumpy fertilizer to fight with and no need to figure out two or three different weed killer combinations to avoid herbicide resistance. No more big bills with the crop protec-

tion dealers. No need to log hundreds of hours every year on the sprayer.

But as someone who vividly remembers the dust storms of the 1980s, I'm not a fan of tillage to control weeds. And organic producers still rack up bills using products that are deemed acceptable.

The three year transition time is a big hurdle for many considering a move to organic, but there are allowances so that you don't have to convert all your acres at once.

It would certainly be a big learning curve but for me, the biggest reason not to go organic is that I just don't believe. I don't believe organically produced crops are any safer than conventional, and I'm not sure the production practices are always better for the environment.

While the growth of the organic market is undeniable, there's also growth in the number of claims of fraud and misrepresentation, particularly with imported products. A recent investigative report in the

Washington Post cited specific cases where shiploads of grain destined for the United States magically became organic somewhere on the ocean voyage.

Among consumers, there's an increasing realization that organic food is not extensively tested to verify it is residue free. Rather, it's merely a certification system with an extensive paper trail. Proportionately, there are just as many or maybe more food recalls for food safety concerns with organic production.

Expect organic production to continue receiving some negative press, but its market share will probably continue growing.

Certainly, there are lessons that conventional producers can and should learn from the top organic farmers. Crop rotation, inter-cropping, green manure crops and selective tillage all have a place in conventional systems.

However, there will always be tension between the two sides. Growing the organic market share

is based on spreading fear about the production practices used by mainstream agriculture.

On the other side of the coin, conventional growers are sometimes all too happy to spread stories of organic fraud when they might not have the story straight.

While I can say with some certainty that I'll never convert my farm to organic, there is a possibility that somewhere down the line the farm could produce an organic crop or two.

It's possible to get organic certification on land that's been in long-term forage or pasture and hasn't received any inputs. While the land might not remain in organic production for more than a year or two, it can be quite lucrative if you're able to achieve decent yields.

It would be a way to benefit from the organic market without a full-scale conversion.

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

CONSUMER DEMANDS

Paying farmers what it's worth

EDITORIAL NOTEBOOK

MICHAEL RAINÉ
MANAGING EDITOR

Our neighbours to the south are looking for their administration to announce details, or trial balloons, on a new farm bill, which is due next year.

The U.S. farm bill covers everything from crop insurance and subsidy programs to food and nutrition programs for children and the poor.

The 2008 version was called the Food, Conservation and Energy Act, and the most recent was the Agricultural Act of 2014.

The next one's name has been suggested by producers in North Dakota as the Food Security Act. They feel it should exist outside the usual vagaries of underfunding and upper house amending.

Farmers from the largest general farm organization in that state — the North Dakota Farmers Union, representing about 45,000 farming families — feel the future of American agriculture should be focused on issues that their fellow taxpayers can get behind.

Farmers and ranchers would receive payments tied to the production of high-quality food that maintains the low disposable income U.S. consumers now spend on food. Payments would also be tied to sound environmental practices, land stewardship, family farm structures with easily transferred generational ownership and education of new-entrant farmers, according to *Starving Our Farmers*, an NDFU position paper on the subject.

It feels the American family farm system of agriculture has generated an over-abundance of food to the point that American consumers spend less than 10 percent of their income on it.

However, farmers have kept food prices low, based on wherever the globally lowest priced production is, while society has been asking more of them. Food must not just be cheap — it must also be sustainable, eliminate water and air pollution, improve soil health and develop the next generations of farmers, which all require additional investment.

To meet those ends, the greater society must find ways to compensate farmers using more than global market forces. The American farm bills are designed to provide some social engineering, but when they are reinvented every five years or so, they leave little time to create substantive change or a new relationship with fellow taxpayers. Our neighbours in North Dakota might be onto something, albeit kind of socialist sounding.

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OPEN FORUM

LETTERS POLICY:

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

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

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

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

COLLEGE OF AGRICULTURE

Dear Editor,

In your recent story on the College of Agriculture and Bioresources at the University of Saskatchewan (WP, April 20), your correspondent quotes critics who believe the university has unjustly penalized the college in its recent budget decisions. I want to emphasize three points.

First, no one should infer from these differential reductions that the university does not value the work of the College of Agriculture and Bioresources. It is, as the dean has described, a significant research engine. I won't enumerate all of the transformative work accomplished within the college,

but it is truly impressive.

Second, the university has been working for many years on a budgetary model that would take into account research excellence, teaching activity and the costs of program delivery.

We never dreamed that the first time we used the model it would be to allocate reductions in budgets, but your readers should know that our approach to the budget was to use all the evidence we could and that no college or school escaped the budget crunch.

The fact that Agriculture and Bioresources has reserves and alternate sources of funding allowed us to ask that this college bear a larger part of the burden than most, but please don't lose sight of the larger picture: this is the biggest reduc-

tion in the operating grant to the University of Saskatchewan since the Great Depression.

Finally, this is just one budget year and while Agriculture and Bioresources is being asked to do with less, this is a college with enormous assets, not the least of which is the ingenuity of its faculty and staff.

We will do everything we can to work with the college to ease the impact of these decisions and to help it plan for a bright future. The university is grateful to the college for the sacrifices it is making in helping all of us get through a very difficult period.

Peter Stoicheff,
President,
University of Saskatchewan

RISK MANAGEMENT

Ag policy seen as bigger risk than farm debt

BY KAREN BRIERE
REGINA BUREAU

Policy, particularly that from south of the border, is the biggest risk Canadian farmers face right now, says an agricultural economist from the University of Guelph.

Alan Ker from the Institute for Advanced Study of Food and Agricultural Policy told the House of Commons agriculture committee's study on farm debt that although debt is large, it isn't a significant risk because assets are far larger.

"That said, the complexity of managing debts as risk increases, and I expect risk to increase in the future," he said.

Risks include production, price, exchange rate and interest rates. Policy changes can dramatically affect producers' income and their ability to meet debt obligations. It can also quickly change the value of assets.

Ker said policy risk will remain high in the short to medium term.

"Currently, policy risk is at the forefront, given rhetoric regarding a NAFTA renegotiation and component pricing and supply management," Ker said, referring to U.S. President Donald Trump's comments.

"Sometimes rhetoric turns into reality, as in the case of the softwood lumber countervailing duty. As an agriculture sector that depends heavily on trade or protection from trade, policy is perhaps the biggest risk facing Canadian producers right now."

He said farmers can mitigate risk for some things, such as hedging to protect prices, but there isn't much they can do to prepare for policies that may or may not open or close borders to certain products.

The best protection is to be financially stable and better able to handle what comes, particularly with such uncertainty in the United States right now.

"If I was a producer, the thing I would be most concerned about is with our borders and whether they're going to be maintained or not."

As Canada's agriculture ministers and officials work on the next agricultural policy framework, Ker said the existing business risk management programs could be better at reducing price risk and protecting from policy shocks.

He said that could provide additional stabilization and reduce vulnerability when it comes to making debt payments.

"I almost think they could come in with more of a gross revenue insurance product like in the U.S. It might better serve producers."

Ker also said that because money is an issue for all governments right now, they could institute co-insurance in some business risk management programs.

"Right now there is no co-insurance component and that's just standard good practice in insurance markets," he said.

Co-insurance ensures that producers take on-farm action to mitigate risk because they are responsible to absorb some of the loss. AgriStability is one program that does incorporate co-insurance.

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AGRICULTURAL POLICY FRAMEWORK

BRM review suggested, but too late for next program

Farmers say AgriStability and AgriRecovery aren't working and new business risk management programs are needed

BY KAREN BRIERE
REGINA BUREAU

An agreement on the next agricultural policy framework, expected in July, could be in jeopardy, Saskatchewan Agriculture Minister Lyle Stewart suggested after a ministerial meeting last week.

"I think the possibility of that does loom," he said in an interview when asked if the five-year deal might not be signed.

"I don't want to get into the intricacies, but there were some pretty direct comments made yesterday, and responses, and as far as I'm concerned, we have a lot of work to do before there's the possibility of an agreement in July."

Ministers and officials met in Ottawa in advance of the annual meeting in St. John's this summer, where they are supposed to approve a suite of programs to take effect April 1, 2018.

Business risk management programs and money became sticking points during the discussion.

Stewart said he is putting faith in officials to find common ground over the next few weeks.

Ontario Agriculture Minister Jeff Leal proposed a comprehensive business risk management review after hearing from farm organizations in his province.

"I just want to be clear that Ontario's belief is that we should sign a framework agreement coming into the federal-provincial-territorial meeting in July," Leal said in an interview.

"Within that agreement we believe a provision for a BRM review should take place."

He said the review would begin this July, and the report would be delivered to ministers in July 2018.

In the meantime, the status quo would stay in place as far as BRM programs are concerned.

Alberta Agriculture Minister Oneil Carlier supports a review.

"Ontario approached me some months ago with this idea," he said.

"My own personal thought on it is I don't think that a review will necessarily hold up a signed agreement."

Farmers across the country have been asking for changes.

AgriStability in particular has been harshly criticized. Participation in the income stabilization program has dropped significantly after changes were made for the 2013-18 version.

Leal also said AgriRecovery doesn't work well. Regional disasters such as the drought that hit five counties in his region last year aren't covered.

"With climate change today, you can have a hailstorm in southwestern Ontario, you can have a drought in eastern Ontario and too much in northern Ontario, so we have to have programs that reflect current conditions," he said.

He said there is enough money in the existing envelope, but it has to be used more effectively.

However, others wonder how \$3 billion will accommodate issues such as climate change and food processing added to the framework last year.

Carlier said Alberta is adamant

that AgriInsurance must stay and suggested that more money could perhaps be found.

"If there's going to be any changes, buffering of (reference margin limiting) in AgriStability, for instance, there might be some more money," he said.

Stewart said Saskatchewan has asked for one specific change to AgriStability, but he won't discuss that publicly.

"But there are other suggestions on the table that we may have problems with," he said.

He also questioned the apparently large hammer Ontario wields in this round of negotiations.

We continue to hear from farmers across Canada that current business risk management programs are not providing the signals that support farmer decisions around investment and growth.

RON BONNETT, CANADIAN FEDERATION OF AGRICULTURE PRESIDENT

Federal Agriculture Minister Lawrence MacAulay has always maintained that each jurisdiction gets only one vote.

Deputy ministers are now working on how a review could be done and will report to the July meeting.

Meanwhile, the AgGrowth Coalition

which was formed earlier this year to make sure the next framework properly addresses BRM programs, said it was disappointed there was no clear commitment to a comprehensive review.

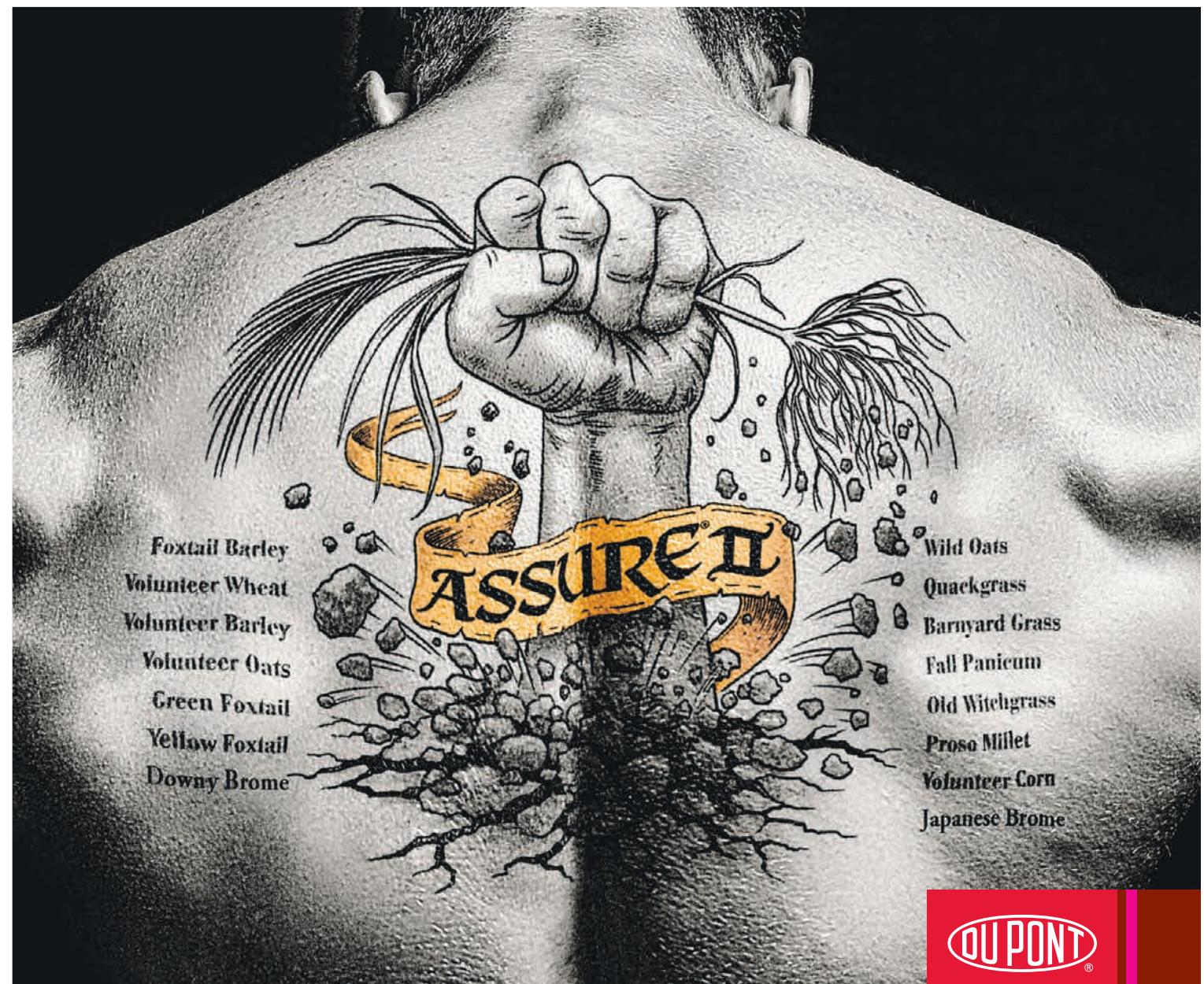
The coalition met with MacAulay the day before the ministerial

meeting to press its request.

"Farmers are frustrated with the current state of risk management and want to see government and industry work together to find the right fit," said Jack Froese, president of the Canadian Canola Growers Association.

"We continue to hear from farmers across Canada that current business risk management programs are not providing the signals that support farmer decisions around investment and growth," added Canadian Federation of Agriculture president Ron Bonnett.

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TIME PRESSURES

Wet, cool spring threatens prairie pea acres

Yields are optimal if planted before mid-May, but by May 8, Saskatchewan growers had 11% of the crop in, compared to 35% last year

BY BRIAN CROSS
SASKATOON NEWSROOM

Field pea plantings in Western Canada are likely to be lower this year than they were in 2016.

How much lower is the million dollar question.

Last month, Statistics Canada released its 2017 seeding estimates, suggesting that field pea plantings would drop by 250,000 acres this year.

The agency's projected pea area is 3.989 million acres for 2017, down from 4.239 million acres last year.

However, a late start to seeding could push the figure even lower.

Vicki Dutton, a pea producer and pedigree seed grower from Paynton, Sask., says a wet and delayed start to spring seeding could have a significant impact on Saskatchewan's pea plantings.

"Based on the lateness of this year, I'm not sure that we can predict pea acreage until it's actually in the ground," said Dutton.

"I think there's going to be a certain element of decision making that may happen just because of the weather."

Added Mark Olson, unit head for pulse crops at Alberta Agriculture: "It will be down for sure. It's just a matter of how much down.... I know initially Stats Canada had talked about a two percent de-

PULSES ON THE PRAIRIES

(million acres)	Crop	2013	2014	2015	2016	2017
Prairies	lentils	2.72	3.12	4.04	5.86	4.39
	peas	3.33	3.97	3.65	4.19	3.94
Manitoba	peas	0.06	0.07	0.07	0.17	0.04
Saskatchewan	lentils	2.60	3.01	3.75	5.29	3.90
	peas	2.27	2.60	2.14	2.18	2.09
Alberta	lentils	0.10	0.11	0.29	0.58	0.48
	peas	1.00	1.30	1.45	1.85	1.81

Source: Statistics Canada

crease in pea acreage for Alberta, but as it gets later and later, we know that some guys are thinking about switching to other crops."

Peas have become known over the past decade or two as the crop that goes in first. They are relatively tolerant to cold soil and spring frost damage.

Yields can usually be optimized if peas are planted before mid-May, and flowering begins in late June or early July.

Under normal conditions, most pea varieties will start to flower around 45 days after they've been planted. Many pea growers have come to appreciate the crop's early harvestability. They are typically in the bin before any other crop is ready to combine.

However, seeding progress in key pea producing regions is well behind schedule this year.

As of May 8, only 11 percent of Saskatchewan's 2017 crop had

been seeded, compared to 35 percent at the same time last year and 34 percent in 2015.

Progress was even further behind in the province's most important pea growing regions, ranging from one to four percent in Saskatchewan crop districts 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A and 9B after the first week of May.

Growers in northeastern Alberta will be particularly hard pressed to get pulse crops seeded in a timely fashion this year, said Olson.

Fababean acres will be down significantly, and the window for pea plantings is also closing quickly.

"What a lot of guys use as a guideline is a cutoff (date) around the 20th of May," he said.

"We do have the occasional grower that will seed peas later than that, but the research is very clear, and I think the farmers' experience is very clear — that is, you seed later ... you can run into

(problems) on the other end and lower yields for sure."

Dutton said some producers in her area said they might take peas out of the rotation if seeding operations run too far behind schedule.

She's been encouraging growers instead to consider the flexibility of peas and use it to their advantage.

"Peas are a 93-day crop," she said.

"They're actually one of the most versatile tools in your seeding toolbox when it comes to timing of seeding.



VICKI DUTTON
PEA PRODUCER

"On our farm, we find peas to be that crop that we can move around to suit the spring.... If the spring gets late, we will tend to put in our later maturing crops first and move our peas a little further out. Because of their early maturity, they will still come in in August, even if you seed them in the third week of May, as a rule."

Dale Risula, a special crops spe-

cialist with Saskatchewan Agriculture, said the optimal window for seeding peas is closing.

"Over the past few years ... we've come to realize that perhaps peas are best sown from mid-April to mid-May. That's the timing that's highly recommended," Risula said.

"When peas start to flower, often times that flowering takes place during the month of July when temperatures can get up to 29°C or higher, and because pea flowers are very, very sensitive to high heat, they will abort, so that can have a direct impact on yield."

Wet soil conditions that are prevalent across much of the northern grain belt could also have a bearing on pea plantings this year, Risula said.

Topsoil moisture conditions are rated as adequate to surplus across almost the entire Saskatchewan pea producing area.

Aphanomyces and other root diseases associated with wet soil conditions have taken a toll on pea productivity over the past few years. Both Risula and Dutton said pea growers should avoid planting peas into wet soil.

Fields that are wet should be given time to dry adequately.

"Certainly wet soil, as we see them right now, are a problem, so waiting for soils to dry out a bit may not be a bad idea for a pea producer."

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ALBERTA MODEL

Report that feds will copy Alta. carbon plan unconfirmed

Only Alberta, British Columbia, Ontario and Quebec have carbon tax plans in place despite Ottawa's Jan. 1 deadline

BY KAREN BRIERE
REGINA BUREAU

Ottawa was expected to release this week its draft plan for a carbon tax or cap-and-trade system in provinces that don't implement their own plans by Jan. 1.

Media reported last week that the plan will look like Alberta's, which applies a tax on heating and transportation fuel but not gas and diesel used on farms. Rebates are sent directly to individuals who qualify.

Saskatchewan Environment Minister Scott Moe said last week he had no official confirmation that the Alberta plan is the model for Ottawa's proposal, and he looked forward to the release of the technical paper from his federal counterpart's office.

The federal government will require all provinces to charge at least \$10 per tonne on carbon next year, which will rise to \$50 per tonne by 2022. It will also impose a plan in provinces that don't develop their own.

Saskatchewan has refused to consider a broad-based carbon tax, saying it prefers to focus on

ways to reduce emissions through practices such as carbon capture.

"Our intent is to not have that cost on Saskatchewan industries such as agriculture, mining, our energy industry, and ultimately the people of Saskatchewan," Moe said.

The Saskatchewan government is prepared to take Ottawa to court over the issue.

Manitoba Premier Brian Pallister has said his province will develop a carbon pricing system that will exempt farmers.

Moe said there are two conversations underway: one about the tax and one about reduction, and the second is more important.

He said the province is still part of the conversation about how to practically reduce emissions to meet targets. He points to industries that are conserving water and emitting less greenhouse gas as examples of real action.

"We want to do everything we can to support that type of an environmentally sustainable business here as opposed to forcing them to move somewhere else due to a carbon tax," he said.

In agriculture, work is underway to clarify how much carbon is stored by grasslands and practices such as zero-till, he said.

Moe said the federal timelines are

clear, and the province is aware of them.

Only Alberta, British Columbia, Ontario and Quebec have carbon plans in place.

The federal plan is part of Canada's commitment to cut greenhouse gas emissions to 30 percent below 2005 levels by 2030. That requires an annual reduction of about 200 million tonnes.

Although Ottawa has said the tax money would remain in the provinces, it is receiving GST on carbon taxes already being charged.

Alberta's tax, which is \$20 per tonne now and will be \$30 as of Jan. 1, is expected to raise \$5.4 billion

over the next three years.

Of that, \$1.5 billion will be returned through rebates and the remainder will be used for projects such as renewable energy and green infrastructure.

Low- and middle-income Albertans receive full rebates of \$200 per adult, \$100 per spouse and \$30 for each child younger than 18.

The rebates are automatic to residents who filed income tax and meet the income criteria: single residents earning \$47,500 or less, and couples, single parents and families who earn \$95,000 or less.

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PROCESSING PLANT

Fire destroys Sask. bale stack

SASKATOON NEWSROOM

More than 1,000 round hay bales were destroyed near Outlook, Sask., May 12 after overheated hay combusted. No one was injured.

The Outlook Fire Department responded to the call at the Ontario Dehy cube processing plant about 4:40 p.m.

The Macrorie and Conquest fire departments also responded with pumper and brush fire apparatus.

Crews worked throughout the night, and the fire was declared under control about noon May 13.

The fire was started by overheated hay, said Outlook Fire Chief Dallas King.

He said easterly gusting winds of 35 to 55 km/h quickly fueled the fire and prevented firefighters and machinery from getting close.

The wind forced King's crews to take a defensive stance and focus on saving surrounding infrastructure.

"Our biggest problem was the wind," he said. "It was pushing through the bale stack. One bale is easy to deal with, but this was 1,000 to 1,200 bales that were all in rows. To pull apart that many bales physically can't be done."

King said a storage shed was destroyed, and an electrical building was damaged.

"Our main concern was to protect the surrounding buildings and chemical shed and anhydrous vessel," he said.

Employees of the site are now using company equipment to move and spread the smoldering material, which is expected to smoke for the next few weeks.

King said damage is estimated at \$100,000, but that figure is expected to rise.

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DAMAGE ASSESSMENT

Man. growers told to give winter wheat recovery time

Warm temperatures in February saw plants sitting in water, which turned to ice when the mercury plummeted in March

BY ED WHITE
WINNIPEG BUREAU

Many eastern and southwestern Manitoba winter wheat growers are grimacing as they look at fields of dead crops, victims of freakish winter weather.

However, Jake Davidson, executive director of Winter Cereals Canada, cautioned growers to give damaged winter wheat crops a chance. If they're still alive, they can bounce back surprisingly well.

"If it's dead it's dead, but if it's greening up, it could be OK. It fills in," Davidson said May 11.

"What some people think is a bad winter wheat crop can still yield more than a good spring wheat crop."

Winterkill usually happens when fields lose their snow cover, crops become exposed and freezing reaches down into the soil and kills the dormant wheat plants.

That often happens in March, when snow cover is disappearing but cold snaps are still common.

However, this year most of the damage was caused by a different phenomenon, Davidson said. Warm snaps in January and February caused snow to melt, which

flooded the surface and saturated the root zone. Freezing temperatures then returned and killed plants.

"It's not the kind of winterkill we've been spending hundreds of thousands and millions of dollars in research... for winter hardiness," he said.

Industry and provincial government officials are guessing that 35 to 85 percent of crops were damaged in problem areas east of Winnipeg, depending on the field. It will be weeks before crop insurance assessors are able to get an accurate sense of the damage.

Davidson said farmers should turn their attention to seeding spring crops and give the winter wheat crops a chance. They can make the big decision about half-way through seeding spring crops on whether to re-seed.

This particular year of bad results for some farmers probably won't put them off, Davidson said. Winter wheat growers like the crop and know that winter occasionally causes a wipe-out.

The bigger concern these days is farmers abandoning small grains altogether to focus on corn and soybeans.

"We're returning into a bit of a corn-soybean economy," said Davidson. "We've got an Iowa syndrome."

He speculated that soybeans will eventually face their own problems with a September frost.

That might protect the acres dedicated to winter wheat on the Prairies and might even hand some back.

"Suddenly you'll see everybody panic and the following year's soybean acres will kerplunk and everybody will go back to something else," said Davidson.

ed.white@producer.com

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- Dan Strilchuk



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FARMLIVING

"BIRTH OF A NATION"

Saskatchewan schoolchildren were among the 25,000 Canadians in France in April to mark a major battle and victory for Canadian soldiers during the First World War. | **Page 19-20**



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



Young consumers want to know how products are made, what ingredients they contain and how to prepare them. | GETTY IMAGE

CATERING TO MARKETS

Shoppers armed with wants

Food makers and marketers urged to understand concerns of millennials and cater to their busy lifestyles

KAREN MORRISON
ATTENDED THE SIAL
INTERNATIONAL FOOD AND
TRADE SHOW IN TORONTO
AND FILED THESE REPORTS

TORONTO — Millennials are well travelled, have adventurous palates and are digitally connected, but they are also a generation with a social conscience.

Delegates at the SIAL show were told it's important to understand how these characteristics affect what they eat.

Dana McCauley, executive director of Food Starter, said millennials, who are generally defined as those born between 1980 and 1995, have young families and careers and currently represent one-quarter of the Canadian population.

"They are one of our most important shoppers," she said.

"This is a generation where social purpose is important to them," said Cheryl Grishkewich, vice-president of control brand marketing with Loblaw.

Citing the failure of Pepsi's latest advertising campaign mirroring the Black Lives Matter movement, she said the backlash was negative and immediate because of the social media networks this

generation inhabits.

Catering to a group commonly found posting their selfies and food shots, Grishkewich cited her company's push for new packaging that will have greater food appeal and the information they are seeking.

"Call out what is gluten free ... call out all ingredients of concern," she said.



JO-ANN MCARTHUR
NOURISH FOOD MARKETING

Jo-Ann McArthur, president of Nourish Food Marketing, said millennials are more conscious consumers, questioning how products are made and with what and how the food animals and workers were treated while making them.

"This group knows how to use social media. They're the most digital generation. It's where they do all their learning," said McArthur.

"If you have a story to tell, make sure you tell it."

Linda Fox, director of marketing with Sofina, called the millennials a collaborative generation.

"They're out there asking questions, testing things out. If they don't know, they reach out online to figure it out," she said.

McArthur called diapers "a gateway drug" to this generation of young parents, citing Amazon's success in giving them access to online purchasing and creating demand for other products.

Health and nutrition are also important along with convenience and portability.

McArthur cited cereal nuggets as an example of the eat-in-the-car lifestyle of young parents pushed for time and making the commute every day.

Snacking is the new normal with consumers reaching for prepared convenience products throughout the day.

Fox said lunch fixings are often a "flurry of snacks."

"Meals are snacks and snacks are meals," she said.

They also reach for less traditional weekday supper choices such as cereal or eggs.

The current generation of children have been introduced to a wider variety of flavours from an

early age so food offerings can reflect that.

Because new parents' lifestyles can be isolating due to the constraints of work and parenting, Loblaw created a restaurant experience for families.

The Babylicious campaign provided baby food to participating white table restaurants where parents enjoyed a night out with friends.

Fox and Grishkewich said millennials like to dabble in exotic food choices, but most lacked home economics education so they are seeking information about food and how to use it.

"This generation is about the food experience as much as the food itself," said Grishkewich.

"They may be experimental cooks on the weekend, but on weeknights, it's just, 'do it for me,'" she said, citing the need for purchases of freshly prepared family meals such as salads and lasagne.

Food suppliers were also told to consider the local marketplace.

Quebecers are more likely to have sit down family meals, halal purchasers have larger families to feed and young millennials live in smaller urban spaces with limited food storage.

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SIAL TRADE AND FOOD SHOW

Food retailers must adjust to changing diversity

More Canadian immigrants are coming from the Philippines and fewer from China

BY KAREN MORRISON
SASKATOON NEWSROOM

TORONTO — The Canadian population has more than doubled in the last 60 years with most growth happening in the West and coming mainly from newcomers.

"If we didn't have immigration, we'd start to stagnate," said Joshua Levi, director of business development with Environics Analytics.

He said Canada is one of the few G8 countries showing growth.

In Alberta, growth rates are more than double the Canadian average, while the East is below average.



JOSHUA LEVI
ENVIRONICS ANALYTICS

During a presentation at the SIAL international food and trade show, he said understanding such data and what's behind the growth can help decide where to open a store, sell products or offer services in the coming years.

The majority live in Canada's largest cities with most growth coming in cities such as Regina, Saskatoon, Calgary and Edmonton, although smaller western cities are also growing.

Canadians are also aging and living longer lives, said Levi, citing a more youthful profile for the Prairies than for Quebec and the Maritimes. The North has the largest concentrations of young children.

"There are a few more seniors than children. This is the first year where this is the case in Canada," said Levi.

As well, he said neighbourhoods are changing. Younger generations are often choosing downtown settings and baby boomers and retirees are in the suburbs.

"If you want to get ahead of the curve, you need to understand this."

CONTINUED ON NEXT PAGE »



Aging customers may shop at off-peak times or require home delivery options. | GETTY PHOTO

» CONTINUED FROM PREVIOUS PAGE

Levi stressed the need to offer different products within the same ethnic profile, noting vast food differences for a black Jamaican and black Ethiopian consumer.

Separate meat counters offering halal at one and omitting beef at another were suggested, along with store shelves offering a wide range of rice for different ethnic groups.

"Recognize diversity within diversity," he said.

Europeans once accounted for most of the immigration, but today the fastest growing immigrant population hails from the Philippines. Indian and Iranian immigration continue to grow, while there are fewer Chinese.

Needs will change as younger generations and immigrant women gain more education than their parents' generation, which will

increase incomes in the family.

Aging boomers may shop at different times of the week in retirement, when mobility could become a problem. Home delivery options may present new opportunities for retailers.

Two-career millennial families with small children will reach for prepared, ready-to-eat and heat-up meals at the end of a workday.

Baby boomers account for the lion's share of the population, but millennials are growing in number.

"Millennials are important," Levi said. "If you're not marketing to them, you better start."

They shop differently and are digitally savvy, so marketers need to address their quest for more information about food purchases.

"Technology drives a lot of their decisions," said Levi.

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SIAL TRADE AND FOOD SHOW

Artificial intelligence may help reduce food waste

Retailers could use predictive data to adjust food supply with expected demand

BY KAREN MORRISON

SASKATOON NEWSROOM

TORONTO — Artificial intelligence will allow food producers to process a host of data from fuel prices to weather patterns to make better decisions.

"It's designing a model that allows us to learn from the past to predict the future," said Sylvain Charlebois, dean of the faculty of management at Dalhousie University.

"Over time, you see patterns."

At Dalhousie, this cognitive technology is currently being used to predict food prices for the next 12 months based on relevant variables.

"The industry is about to embark into a new era of high tech," said Charlebois. "With cognitive technology, you can better predict what is likely to happen."

Grocers could be guided on when to drop food prices or when to ramp up supplies, he added.

For farmers, it will guide planting times and input choices and

amounts," he said.

"Farmers will benefit from big data to predict the effect of climate change."

For retailers, it means reducing food waste through price optimization and pricing strategies adapted with demand and supply.



SYLVAIN CHARLEBOIS
DALHOUSIE UNIVERSITY

"Less waste means more money for the entire food chain," said Charlebois.

"Some machine will tell the grocer of a market for (cauliflower) in the morning. A machine will tell him to drop the price by noon."

He said it can make sense of a dizzying array of information and help food networks with planning.

That includes the current strong growth in food service as compared to food retailing.

"Food service is winning the war because customers are looking for convenience," he said. "People are longing for convenience and that affects food retailing."

Charlebois cited confused consumers facing cases of food fraud and information through social media that's not always valid.

"That affects the psyche of consumers," he said.

Models could also predict the impact on future markets from generational, gender and income level differences and a strong ethnic mix in Canada.

"Our palates are changing. We are attracted to different food from all over the world," he said.

"The best way to understand this is with artificial intelligence."

karen.morrison@producer.com

GARDEN OFFERINGS

Fresh asparagus the first offering as new season begins

TEAM RESOURCES



JODIE MIROSOVSKY, BSHEc

In May, we experience the warming of the weather, working in the freshly stirred soil and watching a small seed sprout into a lush green plant. There is such a sense of accomplishment when we grow our own food and prepare it for our tables.

Recently, I toured Costa Rica with a local school group. Highlights included the green countryside, tropical plants, volcanoes, beaches and people.

Particularly intriguing was the consumption of local food as the staple, with few condiments other than salsa on the side. I enjoyed a diet of rice and black beans, ground coffee from the farm, freshly processed cocoa powder and vast selections of fruits and vegetables.

Along with trying to eat what is in season and easily accessible, I think it is important to plan meals efficiently. The best advice is to prepare big portions that will last many meals to save on preparation time and still allow time to enjoy spring evenings.

Suggestions include roasting a large portion of beef, a whole chicken or turkey or a pan of seasoned chicken breasts or salmon fillets.

Prepared lentils, chickpeas and black beans can be added to a salad or stir fry can, saving time and



Lettuce bean salad makes a healthy meal. | JODIE MIROSOVSKY PHOTO

boosting nutrition.

Rice and potatoes make good leftovers, while fresh fruits and vegetables complete any meal.

BLACK BEAN SALSA

Serve with corn chips and a slice of cheese.

1 c. salsa 250 mL
1/4 c. black beans, 60 mL
rinsed and drained
1/4 c. corn, drained 60 mL
(like niblets)

Combine the ingredients in a small serving bowl. Serves two.

Source: *Prairie Pooches & Friends* cookbook.

LETTUCE BEAN SALAD

Incorporating black beans into the main course is easy with this colourful and filling salad.

1 yellow pepper, diced
3 green onions, chopped fine
1 c. canned black beans, 250 mL
rinsed and drained
8 cherry tomatoes, halved
1/2 cucumber, sliced and
chopped
1/2 c. chopped or
shredded carrot 125 mL

1 large romaine heart, washed
and chopped
a few slivers of red onion,
optional

Dressing:

2 c. plain Greek yogurt 500 mL
dry ranch seasoning package
dry taco seasoning package
salt and pepper to your
personal taste

In a large mixing bowl, toss salad ingredients together. In a small bowl, stir dressing ingredients together until smooth. Dress the salad just before serving or serve on the side. Top with crushed tortilla chips and shredded cheese if desired.

Prepare ahead and toss with dressing just before serving. Serve with your favourite protein such as sliced beef or chicken, served warm or cold.

Source: Adapted from www.laurenslatest.com.

Fresh asparagus

I often serve a few sprigs of asparagus as a side dish at this time of year. You can either gently steam the freshly picked asparagus in a steamer or with a small amount of water in a skillet or roast in the oven at 425 F (220 C).

Toss the asparagus in either olive oil or melted butter, season with salt and pepper and lay out on a parchment paper lined baking dish or pan. Bake for 10 to 12 minutes depending on the size of the spear. For additional taste, sprinkle with lemon juice.

RHUBARB CRUNCH CAKE

Fresh rhubarb is popping through the warmed soil already. This cake

is good for a potluck dessert or served at a picnic in the park or at the beach.

1/3 c. oil	75 mL
(or 1/2 c. butter or margarine)	125 mL
1 1/2 c. sugar	375 mL
1 tsp. vanilla	5 mL
1 egg	
1 c. sour milk	250 mL
1 tsp. baking soda	5 mL
2 c. flour	500 mL
2 c. fresh rhubarb, cut fine	500 mL

Crumb topping

1/2 c. chopped walnuts	125 mL
or pecans	
1/2 c. brown sugar	125 mL
1 tsp. cinnamon	5 mL

Preheat oven to 350 F (180 C). Mix oil and sugar, add vanilla, egg and sour milk. In a mixing bowl, combine soda, salt and flour. Add to sugar mixture and stir until combined. Fold in rhubarb and pour into a nine x 13 inch (22 x 33 cm) pan. Mix topping and sprinkle over the top of the batter. Bake in heated oven for 35 to 40 minutes.

Source: *Our Favourite Recipes Rosetown Chapter 64 Order of The Eastern Star*.

FAIR TRADE

Issues like poor wages and child labour are concerns in many parts of the world. Look for the Fair Trade seal on items such as coffee and chocolate to take a progressive stand on food production.

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



ABOVE: Canadian Vickers machine-gun teams dig into the mud on Vimy Ridge and prepare to hold it against an enemy counterattack. The Canadian core of 100,000 strong suffered 10,602 casualties in four days.

RIGHT: Canadian infantry advance past a knocked-out tank in the 2nd Division's front. | TIM COOK PHOTO COLLECTION

100TH ANNIVERSARY

Canadians mark importance of Battle of Vimy Ridge

The victory at Vimy evokes a sense of pride, but it came at a terrible cost

BY WILLIAM DEKAY
SASKATOON NEWSROOM

In April, about 25,000 Canadians came together at the Canadian National Vimy Memorial in northern France to honour the 100th anniversary of the Battle of Vimy Ridge.

Tim Cook, an author and military historian of the First World War at the Canadian War Museum in Ottawa, was on hand for the moving memorial.

Of particular significance for Cook were the young Canadians in attendance.

"I knew the 100th anniversary would matter, but I didn't anticipate 25,000 Canadians going back to Vimy Ridge as they did April 9. That's really incredible — 12,000 to 14,000 teenagers," he said.

"What I saw on the 100th was this sense of mourning and grief and loss and these young people talking about the terrible tragedy of it and how this generation of young people sacrificed. But then also pride and this idea of victory and how the Vimy attack and probably the larger war itself changed us in some way."

Cook was in Saskatoon recently promoting his book, *Vimy: The Battle and the Legend*, and giving a presentation at the University of Saskatchewan as part of the ongoing commemoration of the First World War, in conjunction with the university's Great War Committee.

The book discusses the battle of 1917, in which Canadians earn the reputation as the most effective fighting machine of the Western Front.

It also describes the 1936 towering monument designed by Canadian architect and sculptor Walter Allward, as well as national and global events leading up to the current day.

Cook said Gen. Alexander Ross, a battalion commander at Vimy Ridge and later head of the Canadian Legion,

coined the well-known phrase, "the birth of a nation."

"It was Canada from the Atlantic to the Pacific on parade. I thought then ... that in those few minutes, I witnessed the birth of a nation," said Ross.

Prime Minister Lester B. Pearson later used the phrase during Canada's centennial in 1967 and 50th anniversary of Vimy.

It would be wrong to claim that Vimy gave birth to our country. Instead I think it would be right to say that Canadians gave birth to Vimy and all that has meant to us as a people over 100 years.

TIM COOK
AUTHOR, MILITARY HISTORIAN

"It was the birth of a nation and it is appropriate as we celebrate the centennial anniversary of the creation of our country we should recognize the one event, which above all others leadeth a nation half a century later," said Pearson.

Cook said Canadians look back on the First World War and Vimy and realize it has become a key event.

"There's a built-in unity story there because Canadians from across the country were fighting at Vimy for the first time," he said.

Cook said the quotation provides an opportunity to think about the idea of Vimy as it unfolds over time.

"What does Vimy as the birth of a nation mean and what does it represent?"

Capturing Vimy was an important battle for the First World War and without a doubt for Canada as a nation, which in 1917 was a young dominion of

the British Empire.

Canadians won the meticulously planned battle where all other Allied offensives had failed, albeit with high casualties.

The battle was the first and only time during the war that all four divisions of the Canadian Expeditionary Force participated on a battlefield as a cohesive formation.

The Canadian Corps, 100,000 strong, suffered 10,602 casualties during the four-day battle. One in 10 soldiers was killed or wounded.

"In fact, the ninth of April, the first day of the battle where we captured most of the ridge, is the single bloodiest day in Canadian military history (3,600 dead)," said Cook.

"We captured it at a terrible cost. That victory was important, but victories don't always lead to monuments and commemorations. And it wasn't simply the victory at Vimy that led to this idea of a birth of a nation."

"Vimy becomes the synthesis for the larger war and if you need to point to something, it's where we built our monument," he said. "So the monument is crucial to the Vimy story. It's this anchor in the Vimy story. It's the place we go to. It's the place we return to."

"It would be wrong to claim that Vimy gave birth to our country. Instead I think it would be right to say that Canadians gave birth to Vimy and all that has meant to us as a people over 100 years."

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The University of Saskatchewan's Great War Commemoration committee will hold a next of kin memorial walk and tour in Saskatoon's Woodlawn Cemetery June 24. The next of kin memorial lane is the only surviving example of that commemoration in Canada.



TIME LINE

- **October 1916:** The Canadians start to arrive on the Vimy sector from the Somme battlefields in the south and load up on artillery and rations. For the coming battle a total of 42,609 tonnes of ammunition and 2,465 tonnes of daily rations are put together for the Canadian Corps. The Canadians also have access to 245 heavy guns, four 12-inch howitzers and the Royal Naval divisions' naval guns among other heavy artillery. For many it is their first glimpse of the devastated landscape.
- **December 1916:** All four Canadian divisions are now together for the first time, with a total numbering 100,000 men. For the rest of 1916 and into early 1917, the Canadians settle into the front line and continue the underground war by blowing up mines. While the Canadian military is meticulously planning the coming attack, the front lines continue to probe the German lines, raiding their trenches to gain intelligence.
- **March 1, 1917:** The 4th Division launches the largest of all the Canadian raids against the German positions between the Pimple and Hill 145. This has devastating effects with 687 Canadians lost. Indeed, many men and officers lose their lives during the many raids preceding April 9.
- **April 9, 1917:** The 1st Division's plan is to attack from its position west of the Arras-Lens road and capture the main German trench in front of Thelus, carry through to capture positions south of Thelus and push east to capture Farbus. The plan goes well; the front line falls quickly but resistance stiffens as they reach the second line. By the end of the day, the 1st Division has achieved its objectives.
- **April 9, 1917:** Positioned north of the 1st Division, the 2nd Division will also attack Thelus. Its objectives are similar to the 1st Division's, to capture the main German trench position in front of Thelus. By the end of the day, the 2nd Division has also achieved all its objectives.
- **April 9, 1917:** The 3rd Division is to attack on a front of 1.2 kilometres opposite La Folie Wood. Its objective is to reach the eastern slope of Vimy Ridge. The terrain here, unlike to the south, is rife with shell holes, mine craters, and old and new trenches. In the face of these obstacles, they manage to capture La Folie Farm, push through La Folie Wood and capture positions south of Hill 145. German resistance is stiff for the 3rd Division and sniping is a particular German strength, resulting in many deaths.
- **April 9, 1917:** The 4th Division is to attack from Bradmarsh Crater to Givenchy. Its objective is Hill 145 and the eastern slopes of the ridge. This is the most heavily defended part of the ridge and their northern flank is open to fire from the strong German position of the Pimple. It is also the most steep and destroyed landscape in the area. While the north and south part of the division do well, the centre is annihilated. By late in the day they manage to capture Hill 145, although German trenches east of the hill are still active.
- **April 10, 1917:** The 4th Division attacks the remaining German positions on the ridge just east of Hill 145 and quickly captures them. Vimy Ridge is now in Canadian hands.
- **April 12, 1917:** The 4th Division attacks the Pimple. After a short fight they capture it and push toward the village of Givenchy-en-Gohelle. While the Allies expect a counterattack, none appears, and a day later the Germans withdraw from Givenchy and pull back onto the Douai Plain. The meticulous planning and rehearsing of the Canadian Corps pay off and their reputation as the most effective fighting machine of the Western Front, and of Canada itself, is sealed.

Source: www.canadaatwar.ca.

FOR A RELATED STORY, SEE NEXT PAGE

ON THE FARM

Couple passionate about agriculture, family

Balancing work and family is important for Manitoba Outstanding Young Farmers

BY ROBERT ARNASON

BRANDON BUREAU

STEINBACH, Man. — Sitting at her round, oak kitchen table, Kirsty Oswald pulled off a trick that she's likely used before to amuse a visitor to her home.

In a matter of seconds Kirsty transformed, seemingly, into a different person because she switched from a neutral Canadian accent to a genuine Scottish burr.

"When I ever talk to my mom or my brothers, I can stih-ill tawk with a Scawtish accent," she said, grinning at her husband, Brent, also seated at the table. "But Brehnt doesn't lih-ike it."

Kirsty can easily switch between Canadian and Scottish accents because at age 11, in 1996, she moved with her family from a farm in Scotland to a dairy farm near Mitchell, Man. They left Scotland when land rents became so expensive that farming wasn't financially viable.

In the 2000s, Kirsty met Brent through her brothers.

The Oswalds now live and work on Brent's family farm near Steinbach, known as Cottonwood Holsteins, and have two school-aged children, Taylor and Brenden.

The couple, who are in their 30s, were recognized this spring for their commitment to agriculture. They were honoured as Manitoba's Outstanding Young Farmers of 2017.

They will represent Manitoba this fall at the group's national event in Penticton, B.C.

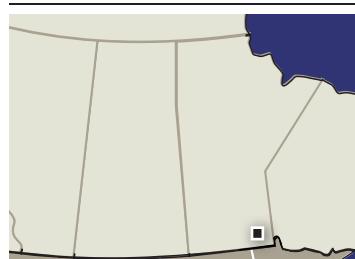
Kirsty said the provincial event, held in March, was more intense



Kirsty and Brent Oswald are always looking for ways to improve production on their mixed farm.

| ROBERT ARNASON PHOTO

ON THE FARM



KIRSTY & BRENT OSWALD
Steinbach, Man.

than she expected, with participants expected to assess themselves and their farm. Nonetheless, she liked the process and hearing the stories of optimistic young farmers.

"It was all about what was the next step to make themselves better,"

Brent said.

His parents, Gwen and Ed, ran the farm for 40 years until Brent took over in 2008. Ed continued to work on the farm until he passed away last fall.

With the help of three employees, Brent and Kirsty milk 135 cows with Delaval robots and farm about 2,500 acres. Corn and soybeans occupy more than half of the acres.

Brent is always focused on getting better at farming.

"Where's the extra two bushels?... Does this make sense, does that make sense? Same thing in the barn. How do we get the extra half litre (of milk)?"

"We're just never satisfied. Good isn't good enough," he said.

Last year, one soybean variety yielded 66.9 bushels per acre. He regularly tops 200 bu. per acre corn

and one of his cows produced 90 litres of milk per day for a period of three weeks.

"If you (come) back five years from now and the farm looked identical to what it is today, I would feel like I failed. To me, the excitement is what's the next addition to the barn. The next piece of land, the next piece of equipment that will speed up seeding by 20 percent."

Brent's passion for agriculture was instilled at a young age but he was interested in more than just farming. Brent wanted to be a lawyer and also considered becoming an accountant.

He realized that those interests could be applied to managing a farm.

Those professions couldn't duplicate the feeling he gets from

farming.

"That total sense of feeling that you accomplished this. There (is) not a better feeling in the world than backing (into) the shed and hearing the pitter patter of a few rain drops."

Kirsty is largely responsible for their active children. Taylor is on a cheerleading team that competes across Manitoba and Brenden plays hockey.

In recent years, Brent has made an effort to find a better balance between running the farm and family life. The Oswalds took a vacation to Scotland to see where Kirsty grew up and they recently travelled to San Antonio, Texas.

But they would rather spend time together on the farm.

"Harvesting a bumper corn crop this last fall... that was better than any amusement park ride or any sports car," Brent said.

"And I shared that with my dad and my brother, when he was still at the farm. That was our family time."

In addition to balancing family and running a farm, Brent is also involved with Dairy Farmers of Manitoba.

Brent takes the kids with him for crop scouting and as they get older, he hopes they will become more involved in the farm.

Until then, Brent is planning to build an indoor swimming pool behind the house.

"So we have our little oasis at home. Because it is hard to go the lake ... especially with a dairy," he said.

"My dream is to come off the field... and the kids will be in there playing. And I'll walk (directly in) and splash into the pool. And have my hour of release."

Brent wants to avoid the "next year" trap.

"I don't want to run out of next years."

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100TH ANNIVERSARY

Vimy gives students a history lesson

Saskatchewan students learn about the sacrifices of Canadian soldiers

BY CHRISTALEE FROESE

FREELANCE WRITER

The past is sometimes repeated, and that's why Saskatchewan history teacher Brenda Doud has been taking students overseas for more than a decade.

With one eye on the world's war history and the other on current-day political turmoil, Doud led a group of 62 rural parents and high school students to France to mark the 100th anniversary of the First World War's Battle of Vimy Ridge.

The Education First tour, which included a group of Kipling, Montmartre and Whitewood high school students, teachers and parents, was among the crowd at the Canadian National Vimy Memorial on April 9.

"You just have to look at current events to see how important it is to make them (our students) understand that history isn't just in their past, but there are connections to today," said Doud, who sees paral-

lels between the robust nationalist sentiment rising in the U.S. today and that of European nationalism in the world war eras.

"When the kids make connections between what happened then and what is happening now, that's when it becomes real," said Doud, who is also principal of the Whitewood School.

Lasting impression

Over the years, the teacher has witnessed inexperienced students turn into world travellers and she has observed the direct impact that European history, particularly war history, has had on her students.

The group's visit to execution square and torture chambers in Breendonk Concentration Camp in Belgium was the most sobering experience of the 12-day trip that took the rural Saskatchewan group to Belgium, France, Netherlands and England.

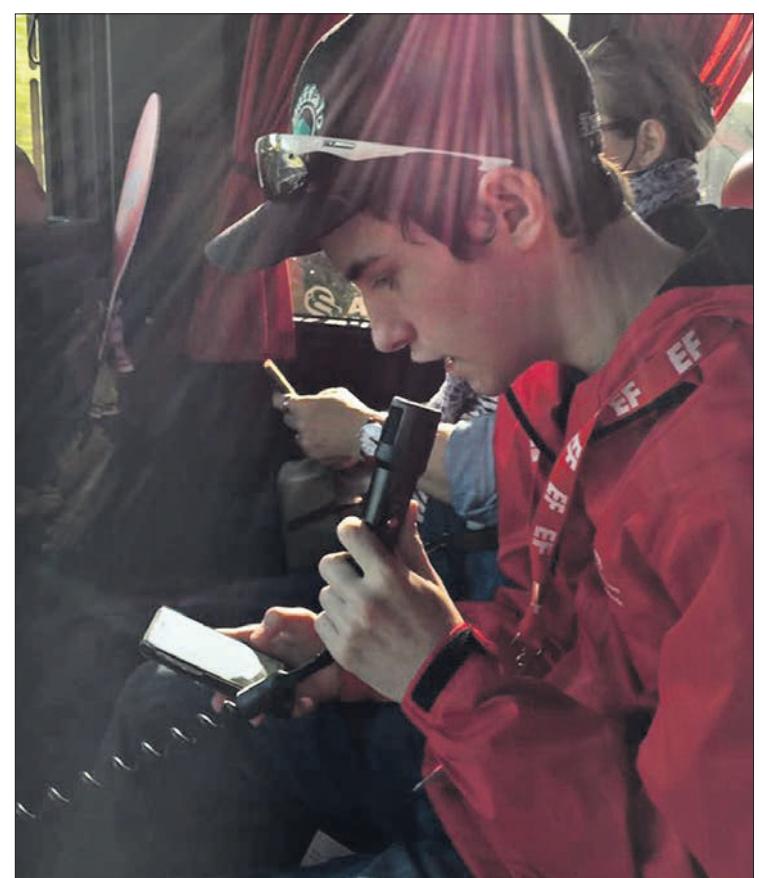
Prior to leaving on their European trip, the high school students each prepared profiles of Canadian soldiers who had served overseas at Vimy Ridge. Doud's daughter, Cheyanne, was moved by the story of her young soldier.

"Knowing his name and then seeing it on the monument or on a headstone, or hearing his name called out over the loud speaker at the ceremony, hits you in the gut," said the Grade 12 student.

The students read their soldier profiles on the bus as they made their way to the Vimy 100 event attended by Prime Minister Justin Trudeau and Prince William and Harry.

Doud's Grade 9 son, Kurtis, said the loss of 3,598 Canadian Corps lives at Vimy Ridge is hard to fathom.

"I can't imagine that we would allow that many people to be sacrificed in one day. It just wouldn't happen these days. So it's very important to not get to this point ever again," he said.



Grade 9 student Curtis Doud reads the profile of his Vimy Ridge soldier while on the bus to the 100th anniversary ceremony in Belgium. | BRENDA DOUD PHOTO

WEED MONITORING

Conventional, organic systems see different weeds

Survey shows conventional system has more varieties to deal with

BY KAREN BRIERE

REGINA BUREAU

SWIFT CURRENT, Sask. — Green foxtail is the most common weed in both organic and conventional fields in Saskatchewan, but that's where the two systems part ways.

Julia Leeson, weed monitoring biologist at Agriculture Canada in Saskatoon, told an organic workshop in Swift Current that an average of eight weed species exist in an organic field, compared to 5.5 in a conventional field.

Her data is based on the 2015 weed survey conducted in the moist and mixed moist grassland ecological regions. Of 2,242 fields surveyed, 53 were organic.

While wild oats and wild buckwheat were second and third in the top 12 in conventional fields, organic producers more often deal with lamb's quarters and stinkweed, then wild oats, wild buckwheat, wild mustard, Canada thistle, Russian thistle, cow cockle, dandelion, redroot pigweed and prostrate knotweed.

Leeson said 27 species have significantly decreased since the last survey in 2003, and that includes 10 of the top 12 in organic fields.

However, 36 species have significantly increased.

Eight of the top 12 species were significantly more likely to be found in organic fields, but they are the only species out of 130 that follow that pattern, said Leeson.

"Most species are equally likely to

be found in organic and non-organic fields," she said.

Canada thistle, for example, can turn up in both systems. Its presence is increasing, particularly in the grassland, she said.

"It is doing better down there than it has ever done in the past."

Wetter conditions and reduced tillage are the likely reasons, she said.

Leeson encouraged producers to learn how to identify weeds they haven't yet seen because many are likely to appear. Some are benefiting from zero till, such as foxtail barley, and others like the wet conditions of the past few years.

For example, there are both native and introduced species of barnyard grass that like moist conditions.

"It's definitely becoming a more widespread problem in particularly the dark brown soil zone, but a little bit in the brown soil zone," Leeson said. "Most of what we're looking at in Saskatchewan is western barnyard grass."

The survey found that 89 percent

**IN SASKATCHEWAN,
11%
OF GRASS SPECIES
WERE INTRODUCED,
WHILE IN MANITOBA
IT WAS UP TO
50%**



of the species were native, but she warned not to be complacent about the 11 percent of introduced grass.

"Surveys in Manitoba are up to 50 percent," she said. "It's certainly something we should watch for."

Narrow-leaved hawk's beard is one of two species that appear more in conventional fields in the grasslands.

"It's come from the northwest corner and in the last 10 years it kind of almost has the whole province covered. If it hasn't popped up in your fields yet, I suspect it will. It's a wind blown seed."

The other is marsh yellow cress, which likes the wet ground.

Leeson said there are many other weeds that haven't yet been recorded in organic fields, but the survey only examined a small number of them.

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USDA PHOTO



Foxtail, above, is the most common weed found in both conventional and organic farming systems.

Wild oats, left, and stinkweed, far left, above, are more common in organic fields.

| FILE PHOTOS

ORGANIC ECONOMICS

Organic farming gains momentum, but do homework first

Farmer says strong rotations and good soil building programs are needed, along with research and marketing skills

BY KAREN BRIERE

REGINA BUREAU

SWIFT CURRENT, Sask. — Denis Brisebois liked the economic edge that organic farming could give him.

So when he left a career in the oil patch three years ago and began farming near McCord, Sask., he decided to go that route.

"In less than two years the shift has gone from 'you're one of those' to 'Denis, what's that wheat worth?'" he said, referring to the perception some have of organic farmers.

He said conventional farmers are starting to see the opportunities, particularly when he could, for example, sell organic feed wheat for \$8 a bushel and Number One non-organic wheat was worth \$6.75.

The paperwork and cost to start up in organics is a pain, Brisebois told an organic producers' workshop, but organic farming is the way to go.

According to SaskOrganics, there are 842 certified producers in the

province, 28 certified livestock producers and 89 certified processors. Those numbers are likely to change with the release of the 2016 census data.

They farm 500,000 acres of field crops, 361,000 acres of pasture and forage, 700 acres of fruits and vegetables and 11,700 acres of wild rice.

Organic field crop acreage in Canada is about 789,000 acres.

Mark Gimby has worked in the organic industry for 40 years and is a buyer for Growers International Organic Sales.

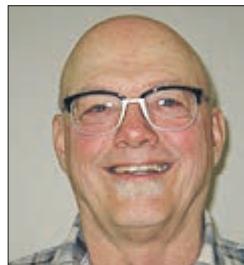
He told the workshop that when he was first hired as a research technologist to compare energy use on Saskatchewan organic farms with non-organic farms, he could find only six self-declared producers.

That was before premiums prices were offered for organic products. Farmers operating organically were philosophically opposed to using chemicals, he said.

"The concept of growing crops without chemical inputs was

intriguing, but most of all I was immediately struck by the courage and the creativity and the delightful eccentricity, in some cases, of these people," Gimby said.

They put up with scorn and were ignored by researchers, he said.



MARK GIMBY
GROWERS INTERNATIONAL ORGANIC SALES

Organic agriculture is now much more mainstream, with strong demand and potential, he said.

Farmers like Brisebois say they are able to take advantage of work by the early adopters.

Dwayne Smith began farming organically in Alberta in 1987, expanded into processing and

moved to Saskatchewan in 2001. He said there is no single prescription for success. Risk tolerance, soil, weeds and weather patterns differ too much for a one-size-fits-all plan, he said.

But he did offer advice.

"First and foremost, you have to have a strong rotation," Smith said.

Early seeded, late-seeded, fall-seeded, broad-leaved and grassy-leaved crops with different root structures are all important.

Seeding rates should be not less than 125 percent of conventional and as much as 200 percent.

"You want to have some strategic tillage," he said. "Make sure you have some purpose and know what it is you're doing out there."

Strong soil building programs, including legume plow downs, are critical, and Smith said weeds that get out of control should not be considered a plow down.

"Don't deceive yourself."

Smith said farmers should have a good idea of where they will sell their crops before they seed them because it isn't as easy as loading

CERTIFIED ORGANIC ACRES IN SASKATCHEWAN

Field crops	500,000
Pasture/forage	361,000
Fruit and vegetables	700
Wild Rice	11,700
Total Acres	873,400

Source: SaskOrganics

the truck and dumping it at the elevator.

He also said producers should be aware of the differences in certifiers because services and prices vary. He found that some certifiers charge four times as much as others.

Finally, he encouraged farmers to stay informed, learn as much as possible and pursue quality.

"Organic farming will not make poor farmers out of good farmers and vice versa," he said. "Up your game as much as you can."

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FOR RELATED STORY, SEE PAGE 22

BEGINNING AT GROUND ZERO



Members of the Evergreen Hutterite colony near Somerset, Man., were making good progress on seeding. The wind turbines seen in the distance were also getting a good workout with winds of 30 km-h gusting to 50 km-h. | JEANNETTE GREAVES PHOTO

VARIETY APPROVAL

Researchers continue quest for organic oats

Weather issues plagued Oravena crop trials, with the first year being wet, the second suffering drought, then a wet fall last year

BY KAREN BRIERE

REGINA BUREAU

SWIFT CURRENT, Sask. — Four years after the first organically bred oat variety was registered in Canada commercial seed is still not available.

Terry Tyson, procurement manager for Grain Millers in Yorkton, Sask., said it's been a long haul to get Oravena to market.

In the meantime, a second variety, OT8006, was approved for registration in March.

Both varieties were developed through the organic oat breeding program at Agriculture Canada in Brandon, with support from Grain Millers, Clif Bar and the federal organic science cluster.

All research is conducted under organic conditions until the varieties reach co-op trials.

Tyson said that's important because all the selections are made without inputs.

"The story of Oravena has been a story of weather issues," he told an organic workshop.

Grain Millers sublicensed the variety to Fedoruk Seeds, which in turn subcontracted to organic farmers for seed production.

Tyson said the first year was "super wet" and 7.5 acres of breeder seed was sown on alfalfa breaking, land seeded to its first crop following alfalfa.

"It yielded phenomenally but it fell over flat," he said.

The quality was still decent, but high nitrogen and moisture laid down the crop.

The second year was the opposite. Bone-dry conditions resulted in yields of only 40 bushels per acre on grass breaking, although the



TERRY TYSON
GRAIN MILLERS

crop didn't lodge. Quality was strong.

"Year three was last year and we had quite a bit of acreage going into the ground to the point where we should have had commercial seed available this spring," Tyson said.

"But then the fall weather hit. A good chunk of the acres didn't get harvested."

Yields at Swift Current were about 80 bushels per acre, but too much rain ruined the germ.

Seed producers will try again this year.

Four cultivars have advanced to the co-op trials since the first crosses were made in 2005 and Tyson said selection focuses on yield, lodging resistance, milling characteristics, nutrition, disease resistance and early maturity.

"And we want leafiness. We want competitiveness to outcompete the weeds."

Cultivars have to be in the trials for two years before they can be proposed for registration.

Tyson said OT8006, which will get a new name likely through a contest, is later maturing, at 94 days, and later heading, at 58 days, than they would like.

However, it has very high yield

potential and is similar to Morgan in yield and standability.

Tall and leafy, it has average groat-to-hull percentage and high oil levels.

Tyson said three years ago, the variety would have had to be tossed out based on the oil level but increasing acceptance of plant-based oils has changed the market.

Like most varieties, it is moderately resistant to moderately susceptible to crown and stem rust.

"It's got high test weight, high thousand kernel weight, high protein and good beta glucan," he added.

Tyson encouraged organic growers to help increase seed. It has to be done on clean, breaking land and will involve roguing, he said.

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SEASON'S GREETINGS



Farmers wait in line for fertilizer at the Pembina Agro site at Notre Dame, Man., May 4. | JEANNETTE GREAVES PHOTO

AG NOTES

GRAIN SAFETY PRACTICES STRENGTHENED

The federal government is investing up to \$375,000 for the Canadian Agricultural Safety Association to implement the Grain Safety Program.

The program aims to educate Canadians and reduce injuries and deaths due to grain handling. Increased awareness, training for farmers and grain workers will help reduce grain-related injuries and fatalities. The funding will enable the association to provide training modules and demonstrations to raise public awareness.

Program activities will include:

- a mobile grain safety demonstration and training unit
- an interactive trade show display
- table displays for youth aged eight to 12
- on-site training for grain producers
- rescue training for volunteer first responders

The agricultural industry is one of the top three most hazardous sectors in which to work. On average, 84 Canadians are killed each year in ag related incidents.

PROBIOTICS MARKETING GETS FUNDING

Bio-K Plus International Inc. in Laval, Que., was approved by the federal government for up to \$50,000 to market probiotic capsules and beverages in the United States. The project aims to raise consumer awareness about the health benefits of probiotic products and increase Bio-K Plus exports to the U.S.

The probiotic line is recognized by Health Canada for the primary prevention of clostridium difficile infections to reduce infections.

FEDS FUND JOBS FOR YOUTH

Ottawa plans to invest up to \$5.2 million over two years for the Agricultural Youth Green Jobs Initiative, which is designed to attract young Canadians to green jobs within the agriculture sector.

Funding is available to support youth internships, on farms and with organizations engaged in the agriculture and agri-food sector for environmentally beneficial activities. The funding is planned for two streams.

- The Green Farms stream provides matching funds of up to \$10,000 to help a farmer hire high school or college students to support environmentally beneficial activities on the farm.

- The Green Internships stream provides matching funds of up to \$16,000 to help organizations involved in the agricultural industry hire young graduates to pursue environmental activities, services or research that benefit the agriculture sector.

More information is available at www.agr.gc.ca

ORGANIC REPORT AVAILABLE

The Prairie Organic Report has been released by the Prairie Organic Grain Initiative. It is designed to help farmers increase yields and improve grain quality. It was compiled from information supplied by organic certification bodies across Canada to the Canada Organic Trade Association in 2015.

It details organic producers, processors and handlers; organic acreage and crop types; and province-specific trends and statistics.

The report is available at [www.pivotandgrow.com](http://pivotandgrow.com).

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MONITORING RESULTS

Research finds most Alberta rivers healthy

However, 23 percent of riparian sites monitored were found not to be functioning properly

BY BARBARA DUCKWORTH
CALGARY BUREAU

A three-year project monitoring riparian sites in the Bow River and Oldman River basins show more than half are healthy ecosystems.

"We found that over 50 percent of the sites within the Bow and the Oldman were in really good shape," said Michael Wagner, Alberta Agriculture and Forestry.

The department worked with fRI Research, formerly the Foothills Research Institute, a private company that works on land management in Western Canada.

About 250 sites were selected on forested public land in the Eastern Slopes of the Rocky Mountains.

When a site was in poorer condi-

tion, half the time it was due to the southern Alberta flood of 2013, which tore away banks and left behind debris, he said at the Bow River Basin Council science forum held recently in Calgary.

However, when an area has been changed due to flood, it is considered a natural event.

Riparian areas were ranked as properly functioning, properly functioning but at low or high risk or not functioning properly.

The streams were ranked according to 120 measurements with 60 indicators that included evaluating the size of rocks, amount of bare soil, depth of stream, stream channels, condition of banks and wildlife diversity.

Teams collected invertebrates as well as assessed larger forms of wildlife and plants.

"In streams that have poorer water quality you see more snails, black flies, leeches and very small worms," he said.

While many sites were considered healthy, 23 percent of the riparian sites that were physically assessed were not properly functioning.

"The Bow had more not properly functioning riparian areas than the Oldman," he said.

Reassessments have started this spring and further work is planned for the Castle River and Ghost River watersheds.

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Streams were evaluated according to depth, condition of the banks, water quality and wildlife diversity. | FILE PHOTO

WEATHER PREDICTIONS

Climate forecasts improve with new programs, technology

BY BARBARA DUCKWORTH
CALGARY BUREAU

Data collection and top notch equipment to help collect and analyze it is necessary if Canada is to properly monitor climate change and improve forecasting of extreme weather events.

"There is two weeks lead time that is credible and that is what we have been using to drive these models," said John Pomeroy, Canada research chair in water resources and climate change at the University of Saskatchewan in Saskatoon.

Uncertainty still exists around

forecasts but with better information and earlier warnings, government and communities could improve how they manage structures like dams to move water or prepare for a pending emergency.

"We live in dangerous times. For many reasons it is an era of global water threats," Pomeroy said at the

Bow River Basin Council science forum held May 3 in Calgary.

Severe events can be costly, both emotionally for the people involved and financially. The Fort McMurray wildfire of 2016 cost nearly \$9 billion.

The southern Alberta floods of 2013 caused more than \$6 billion in damages.

They are the two biggest weather-related disasters in Canadian history.

Improvements to climate data collection and analysis were set in motion with a major grant from the 2014 Canada First Research Executive fund, which offered \$1.5 billion to universities for various projects.

A consortium of universities, research institutes, provincial and federal governments, First Nations, private companies and international researchers received \$78 million over seven years.

The universities added more funds, increasing the amount to \$143 million to hire new people and pay for improved research on floods, droughts and other climate-related changes.

The goal is to establish Canada as the global leader in water science for cold regions, as well as address strategic needs of the economy in adapting to climate change and risks to the water supply.

Part of the research is dedicated to improved disaster warnings, predicting water quality and quantity in the future, as well as better risk management related to water and climate change.

Researchers also want to better forecast changes in cold-weather regions, collect more data and



The Fort McMurray wildfire cost nearly \$9 billion

improve modelling to predict future water supplies and quality, as well as improve how water is managed.

They are also trying to learn how climate change will affect water quality for agricultural activities, industrial developments, land-use changes and water management.

This spring, a large amount of snow exists in the Rocky Mountains, information gathered by high powered drones capable of gathering vast amounts of data from the Rockies in Alberta and British Columbia.

A portion of the consortium funds also helped pay for the Canadian Rockies Hydrological Observatory and Coldwater Laboratory in Canmore, Alta.

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FOR RELATED STORY, SEE PAGE 29

FLOOD AND EMERGENCY PREPARATION

The Alberta government has developed a list of websites:

- Alberta Rivers Data and Advisories App: open.alberta.ca/interact/alberta-rivers-data-and-advisories
- Alberta Emergency Alert App: www.emergencyalert.alberta.ca/content/about/signup.html
- A Guide to Protecting Your Family and Property Flood Readiness Guide: bit.ly/2qsMxqc
- Alberta River Basins Website (<https://rivers.alberta.ca/>)
- Alberta Emergency Alert Website: www.emergencyalert.alberta.ca/

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50 YEARS AGO

European Common Market move worried grain official

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: MAY 14, 1942

The U.S. government banned grain shipments on Great Lakes freighters that were capable of carrying iron ore unless they had a permit from the office of defence transportation. The order was similar to action already taken by the Canadian government.

Alberta Wheat Pool planned to pay \$600,000 in patronage dividends to its members.

50 YEARS AGO: MAY 18, 1967

The federal government said it was forming a task force to examine problems in the agriculture industry, determine where the industry should be going and make recommendations on how to get there.

The task force had been prom-



Marilyn and Bob Sharp repaired a stack mover on their farm near Lacombe, Alta., in 1985. | FILE PHOTO

ised earlier in the month in the speech from the throne.

Canadian farmers were warned that they would soon face tougher competition in world wheat markets. G.N. Irvine of the Board of Grain Commissioners said Canada was assured of maintaining record

wheat exports for the next two years, "but after that we will have to scratch." The United States and Australia were expected to provide the most competition, but Irvine was also worried that Canada's exports to Great Britain might suffer if that country joined the European Common Market.

25 YEARS AGO: MAY 14, 1992

Federal Agriculture Minister Bill McKnight lashed out at Saskatchewan for not participating in talks to change how the Crop Benefit was paid, saying the province would be unable to derail the process by refusing to discuss the

issue. "I don't think any province has a veto in the process," he said.

However, a farm leader in Quebec, which was also not at the talks, warned Ottawa not to consider changing the policy without compliance from Saskatchewan and Quebec.

The federal government promised to defend Canada's stabilization payments to cattle producers, which were prompting threats of retaliation in the U.S. Some Canadian politicians were suggesting phasing out the program because of the U.S. threats.

10 YEARS AGO: MAY 17, 2007

Saskatchewan Wheat Pool won the bidding war with James Richardson International over Agricore United.

The purchase would cost the pool \$1.8 billion and result in a new name for the new company, although one hadn't yet been announced.

The new name, of course, would be Viterra.

Former Reform party leader Preston Manning and former Ontario Progressive Conservative Premier Mike Harris called on the federal Conservative government to get rid of supply management. They made their comments in a report written for the Fraser Institute.

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PRODUCTION

WEED OF THE WEEK

A wide range of options are available to control wild oats, but the weed doesn't seem to be going away. | **Page 28**



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FUNGICIDE RESEARCH

Is fungicide resistance on the horizon?

Will fungicides follow the same immunity path as herbicides?

BY RON LYSENKO

WINNIPEG BUREAU

Fungicide application has become routine. It's every crop, every year in order to extract every last bushel. But with only three main modes of action, responsible rotations are somewhat limited.

On paper at least, routine fungicide spray pencils out pretty well in all the main crops. The expected yield bump and quality benefit outweigh the cost. But are we painting ourselves into a corner by pursuing those last few bushels?

The agriculture industry as a whole concedes that our current problem with herbicide resistance is a result of mismanaging weed control programs decades ago.

Glyphosate is an example of how over-dependence got the industry into trouble in some cases. It was too easy to do a burn-down that killed all weeds and most volunteer crops. But when the "do-all" weed killer doesn't "do it all" anymore, where do farmers turn?

Until ascochyta in peas came along, most people didn't think fungicide immunity was in the cards. However, producers are now asking if they're risking the same kind of immunity in all crops by over-dependence on fungicides?

When there is herbicide immunity in a field, producers can see the resistant weeds that herbicides can't kill. That's easy. But farmers cannot visually identify fungicide resistance. To compound the situation, nobody tests for fungicide resistance.

"There isn't anyone actively testing for fungicide resistance in most pathogens," said Manitoba Agriculture plant pathologist Holly Derksen.

"Fungicide insensitivity could be building up slowly over time, but since we aren't looking for it, there's potential for it to catch us by surprise. Granted, it might be a long time from now."

Western Canada is still relatively safe, but it could be throwing away its enviable position if the industry doesn't grasp the hard take-home message learned from our herbicide experience, said Bayer's Jared Venes.

"We're getting more and more questions about fungicide resistance," he said. "Nobody wants to be in the situation in the future with fungicides that we're in right now with herbicides."

Venes said wet weather in recent years has been more conducive to fungal outbreaks and thus promotes fungicide use.



Fungicide insensitivity could be building up slowly over time, but since we aren't looking for it, there's potential for it to catch us by surprise.

HOLLY DERKSEN, MANITOBA AGRICULTURE PLANT PATHOLOGIST

"But also, there's been a shift in thinking. When the new active ingredients came on board, guys realized they were leaving bushels on the table by not using fungicides. The math justifies the added expense of routine fungicide."

Venes said there's one big difference between fungicide resistance and herbicide resistance: disease needs a host.

Weeds don't need a host, just soil. The progeny of a resistant weed will be in the same field in the same spot the following year. If left unchecked, it will continue to drop seed, and the population of resistant weeds will grow.

He points out that producers are in a different situation with disease. Depending on the disease, eliminating the host plant for a year or two can eliminate the disease temporarily.

"If you had fusarium head blight in your wheat, you can put canola on that field the next year and eliminate the fusarium host. Fusarium won't affect your canola. Or if you had sclerotinia in your canola, you can put wheat on that

field the next year and eliminate the sclerotinia host. Sclerotinia won't affect your wheat."

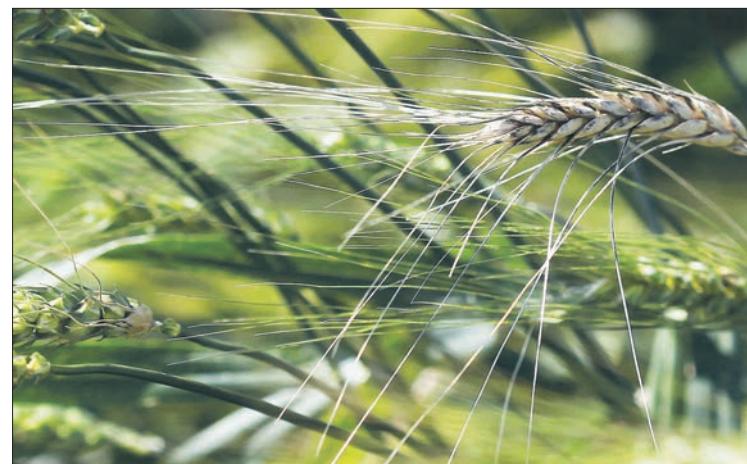
He said the factor working against farmers is that there's essentially only three modes of action in foliar fungicides:

- Group 3 triazoles are demethylation inhibitors, also called sterol biosynthesis inhibitors.
- Group 7 is succinate dehydrogenase inhibitors (SDHI).
- Group 11 is strobilurin.

"Our options are more limited in fungicides compared to herbicides, so fighting disease requires a higher level of management. All the different fungicides have a different propensity to develop resistance," Venes said.

"The riskiest mode of action fungicides are the Group 11 strobilurins. Somewhat less risky are the Group 7 SDHI fungicides. The least risky are the Group 3 triazoles. This is what we have to work with right now because it's becoming more and more difficult to get a new mode of action registered."

"The first mode of action to break down are strobilurins, so they're



Discovering resistance to fungicides is not as easy as it is for herbicide resistant weeds. No testing is done by producers and surviving fungal-affected plants don't generally stick out in a field as well as weeds that are herbicide resistant. | FILE PHOTOS

risky right from the start. That's why they're supposed to be used in mixtures with other modes of action."

He said fusarium, sclerotinia and rust are the pathogens of most concern to western Canadian farmers. However, these are considered to be low risk pathogens, he added, based on the number of life cycles per growing season and experience from around the globe.

"Zero till has provided a nice winter environment for pathogens," he said. "Fusarium head blight in wheat, for example. If you could burn that inoculum every year, you'd reduce your disease problem for the following year. But something like rust, there's no risk mitigation strategy to fight rust because about 99 percent of the inoculum is blown up here from the U.S."

"However, there are a number of things you can do agronomically to reduce your risk by half. Use disease resistant cultivars. Use the registered rates instead of cutting your rates. Herbicide resistance is a result of guys cutting their herbicide rates to save money."

He said farmers didn't kill all the weeds when they cut herbicide rates. The weeds that survived were the ones that tolerated the herbicide, so growers inadvertently selected the resistant weeds, and those were the weeds that grew the next year.

In effect, it was a plant-breeding program that produced disastrous results. Venes emphasized that reducing fungicide rates will also allow some pathogens to escape.

"The three high-risk pathogens prominent in western Canada are alternaria, grey mould and powdery mildew. For those, you would avoid a straight high-risk fungicide like strobilurin multiple times in the same year."

"We've already experienced fungicide resistance in Western Canada. That was ascochyta in chickpeas."

He said in early 2000, when strobi-

lurin chemistry came on board, it was exactly what chickpea growers needed because there were very few varieties with disease resistance.

"The growers started spraying their chickpeas three, four, even five times a year with straight strobilurin. Most of the chickpea growers were in the same geographic areas. Ascochyta is a medium to high risk pathogen and the spores are wind borne. It was a worst case scenario."

On the bright side, Venes said cereal crops generally get just one application, canola averages less than one application and pulses get one or maybe two applications targeting different pathogens in the same year.

"Comparing Western Canada to the rest of the world, we're in a pretty good situation in terms of fungicide use, resistant cultivars and a small number of high risk pathogens," he said.

When you rotate from one type of crop to another, you're eliminating the host. Crop rotation is every bit as important as rotating your mode of action.

JARED VENES
BAYER

"One thing we can do is to spray preventatively. Try to eliminate the pathogen before it gets a strong hold in your crop. That's better than going into a disaster and trying to fix it."

"Always keep disease in mind when designing your rotation. When you rotate from one type of crop to another, you're eliminating the host. Crop rotation is every bit as important as rotating your mode of action."

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PLANTERS

Little planter busts record

Planting corn at 13 m.p.h. amounts to 1,240 acres in 24 hours — with a hopper fill system

BY RON LYSENKO
WINNIPEG BUREAU

A 16-row Vaderstad Tempo corn planter set a new world record putting down 1,240 acres in 24 hours, breaking the old record of 1,108 acres set with a 24-row planter.

The record run of the Tempo L 16 averaged more than 13 m.p.h., including stops for the crew to manually fill the hoppers. At the same time, the planter also put down fertilizer and pesticides on the entire 1,240 acres.

The 24-row planter that set the previous record had a central hopper delivery system. The L 16 is solely gravity delivery with individual hoppers for seed and pesticide. Fertilizer is placed separately with knives or coulters.

Vaderstad spokesperson Lars Ethylene said speed is good, but it's of no value unless the seed is precisely placed.

"It's one thing to plant with high speed, but to do so with high precision is something very different," he said.

Thanks to the patented seed metering technology, which benefits from a pressurized system blowing the seed down the seed tube, Tempo is able to combine a very high speed and exceptional precision very successfully."

Godollo University monitored the planting, measured precision seed placement and will follow up with results on crop performance. The event was held in Hungary April 11-12. The tractor was a Case IH Magnum CVX 380.

Ethylene said the ability to precisely place seed at speeds higher than 13 m.p.h. is dependent on the company's unique metering system. A seed drops from the hopper



The 16-row Tempo corn planter with hopper delivery kept the pit crew busy for the 24-hour world record run last month in Hungary. Godollo University will monitor the performance of the 1,240 acre corn field to ensure that seed placement was up to Vaderstad's claims.

A seed drops from the hopper into the top of the metering unit where three singular arms ensure there is only one seed per hole. Overpressure from the meter shoots the seed down into the airflow coming from the upper right hand side of the illustration. The seed travels down the pipe at 50 km-h. A sensor measures the distance between seeds in the pipe, which translates to plant spacing and plant population in the field.

into the meter and is held in the hole by air pressure.

Three singulators at the top of the circle kick out extra seeds if two seeds try to occupy the same hole, thus preventing doubles in the field. The singulators are in the 11 o'clock, noon and 1 o'clock positions.

As the seed plate rotates to the 2 o'clock position, an open orifice in the meter cover releases the air pressure holding the seed.

Rather than simply allowing gravity to drop the seed into the airflow coming from the corrugated hose at the two o'clock position, overpressure in the meter shoots the seed down into the seed pipe. Vaderstad calls this power-shooting.

As the seed drops into the top of the seed pipe, an electronic sensor detects its position in relation to the seed before it and the seed after it.

The spacing between seeds at the top of the pipe determines the spacing within the row. The E-con-



trol allows the operator to fine tune that spacing to any desired distance between plants, thus determining plant population.

When each seed hole rotates into the 4 o'clock position, a small knockout wheel clears it of any debris to ensure it will be clean and ready when it once again approaches the 9 o'clock position to pick up the next seed.

The seed travels down the pipe at 50 km-h. The soft rubber packer wheel gently catches the seed and presses it into the soil before it has a chance to bounce out of the seed trench or roll along in the trench.

Seed Hawk, which is now owned by Vaderstad, has sold 11 Tempo corn planters in Western Canada. The Tempo models available in Canada use all the same components as the machine that set the world record.

ron.lyseng@producer.com

Seed and pesticide are delivered through the system of conventional hoppers. Fertilizer from the front air tank goes down through separate openers. All this at more than 13 m.p.h. | VADERSTAD PHOTOS

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Ellie Desgranges, AAT
Environmental Technician
KBM Resources Group
Prince Albert, SK

Ellie works in the natural resources sector, for which she provides environmental consulting, GIS, and 3D photo interpretation services. She also writes and compiles manuals and reports on various environmental and safety topics, such as forest operations and climate change.

"Being an Agricultural Technologist (AAT) holds me to a high level of professionalism and adds credibility to the consulting services I provide."

Ellie was born and raised near Montreal, QC. She has a Diploma in Environmental Conservation and Reclamation from Lakeland College in Vermilion, AB, and is currently completing a BA in Sustainable Development with Royal Roads University, BC. Ellie has experience in wellsite reclamation, erosion control, vegetation management, and revegetation.



Hayley Senkowski, AAg
Sales & Marketing
Sharpe's Soil Services
Moosomin, SK

Hayley works alongside her team to provide agronomic advice and services such as product information, crop inputs, field scouting, and customer sales

"Being registered as an agrologist (AAg) provides the public and producers with assurance that my science-based recommendations are credible, accountable and recognized."

Hayley grew up on a cattle farm near Alonsa, MB. She received a BSc in Agribusiness from the University of Manitoba. Hayley previously worked for Parrish and Heimbecker before joining Sharpe's Soil Services in 2017.

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SEEDING ECONOMICS

Time pressures may see more fertilizer, seed applied together

Controlled-release fertilizer may help save valuable time, says Agrium official

BY BARB GLEN
LETHBRIDGE BUREAU

Time is of the essence for farmers who must finish harvesting the 2016 crop before fertilizing and seeding this year's acreage.

Applying fertilizer and seed in one pass speeds up the process, and for those without equipment for side or mid-row banding, this might be the ideal year for a controlled release fertilizer applied with the seed.

Ray Dowbenko of Agrium is a developer of ESN, the polymer-coated urea that has been in use for several years.

In a year when seeding is delayed, as this one might be in some regions, the product is a consideration that depends on cost, crop choice and soil type.

"With farmers who don't have that equipment, are pressed for time, have regular drills or seeding equipment and are looking to put seed and fertilizer in the same place, this is the benefit of the one pass," said Dowbenko.

"It's a compressed spring situation. It's wet. Farmers don't have a lot of time. We want them to be safe, not rushed. We want to provide them a tool to use to increase

their efficiency and their economics of seeding in the spring. If they're setup to put fertilizer down with the seed, this product will allow them to go at much higher rates."

Dowbenko said research indi-

limits the amount of nutrient taken up by weeds.

"We can improve nutrient use efficiency because again we're controlling release to match what the crop is requiring, so the weeds aren't getting it."

A slow release product also limits nitrogen losses through leaching or denitrification, Dowbenko added.

Canola and wheat most require nitrogen at three to four weeks after seeding, so a controlled release prevents loss after the fertilizer sits in the ground for a month. Though ESN needs some moisture to activate, a drenching doesn't speed its release, he said.

Conversely, if a drought occurs on the Prairies this year, as some forecasters predict, it has to be extremely dry to halt ESN release.

If plants reach the permanent wilt point, the granules will also dry and retain their nitrogen for release when conditions improve.

More information can be found at bit.ly/2q6uyVv.

The Alberta and Saskatchewan agriculture departments also have information on their websites about recommended seed-placed fertilizer rates.

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We can improve nutrient use efficiency because again we're controlling release to match what the crop is requiring, so the weeds aren't getting it.

RAY DOWBENKO
AGRIUM

cates ESN can be applied at three times the recommended nitrogen fertilizer rate at seeding. Its coating creates a barrier between granules and seed, reducing the risk of seed damage that might occur with other forms of urea. The nitrogen is then slowly released for crop use.

Because that release depends on temperature, nitrogen is released at the same time as plants are actively growing. Slow release also



WEED OF THE WEEK: WILD OATS

BY MICHAEL RAINÉ
SASKATOON NEWSROOM

They are everywhere, and in some cases they are getting hard to kill.

Wild oats, formally known as *avena fatua*, cost farmers an estimated \$500 million dollars a year, and despite a wide range of tools to control the pest, some of the best are the old-school ones.

Despite being a problem for most of the past 100 years, prairie producers are still losing yield and spending more on controlling the weed than ever. Due to herbicide resistance, prairie farmers' fight with the pest isn't likely to end any time soon.

Hugh Beckie of Agriculture Canada's research centre in Saskatoon has said wild oats remain among the 10 worst annual weeds that cereal producers must contend with worldwide.

More than 10 million acres in Western Canada are affected by herbicide resistant weeds, and most of those incidents are wild oats.

A recent, large-scale study has shown that 20 percent of the fields that were tested contained herbicide resistant wild oats.

The 10 year study found that of the 1,000 wild oat samples that were examined, herbicide Group 1 resistance was present in 68 percent, and five percent also had Group 2 resistance. As well, Group 8 resistance is showing up prairie wide.

Over half of the cultivated fields in Alberta have Group 1 resistant wild oats. Group 1 resistant wild oats were found in 11 percent of fields in 2001, rising to 30 percent in 2007 and more than 50 percent by 2015, according to Agriculture Canada researcher Neil Harker in Lacombe, Alta.

Reduced tillage and continuous cropping have aided wild oats. Flooding that allows weeds to reach seed maturity have created other problems. The need for chemical control in place of steel and diesel fuel has selected for resistant genetics in wild oats, especially for those herbicides with a single mode of action.

Wild oat seeds persist in the soil

for up to a decade, but 85 to 95 percent germinate in the first two years. Warm, dry fall seasons will promote dormancy in the seed. Nitrates from urea applications in the spring can cause dormancy to end.

Yields can be reduced by 15 percent if the weed is present at the one leaf stage ahead of a wheat crop and 16 wild oats are found per sq. metre. This would cut yields by about six bushels on a 40 bu. crop.

Yields drop by nine percent in wheat if the weed is at the same stage as the crop and by five percent if the weed is a leaf stage behind the crop.

In flax, 10 weeds per sq. metre can cut yields by up to 20 percent.

Wild oats often emerge along with the crop, which can limit herbicide choices if the crop is a cereal.

The pest remains abundant despite effective herbicide options introduced in the 1970s and 1980s. Canola and other herbicide tolerant crops are effective against the weed.

Several grassy weed herbicides can be effective in broadleaf crops, but control often requires application at the right time in the weed's development.

Reduced tillage can control germination and significantly cut infestations. Diverse crop rotations are beneficial.

Producers can delay seeding, providing time to catch wild oats with spring applications of herbicides such as glyphosate ahead of the crop. Harrowing can also kill newly sprouted oats, which are more susceptible to light tillage than wheat.

Higher seeding rates of cropped cereals make fields less hospitable for wild oats, but the rapidly growing weed can often outpace its crop host.

Avadex, a soil applied Group 8 herbicide, has been used for decades to control the pest, but its separate application and moderate cost encourage some producers to use the option sparingly.

Harker said producers should avoid becoming too dependent on it because of resistance concerns.

michael.raine@producer.com



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Cost: \$195

Medicine Hat Field Day – July 6
Farming Smarter Cypress County Site
9am - 3pm (includes lunch)
Cost: \$95

Wheat Stalk – July 20
Farming Smarter Lethbridge Site
9am - 4pm (includes lunch)
Cost: \$95

Open Farm Days – August 20
Farming Smarter Lethbridge Site
11am - 4pm (BBQ)

Cypress Conference – Oct 26
Medicine Hat – venue TBD
9am - 4pm (Includes lunch)
Cost: \$195

Farming Smarter Conference – December 5 & 6
Coast Hotel Lethbridge
8am - 4pm
Includes meals, snacks & refreshments
Cost: \$295 full conference; \$195 one day

watch for details on
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KEEPING AN EYE ON THE SKY

A farmer applies anhydrous ammonia May 2 to a field west of Cayley, Alta., as clouds loom in the distance.

| MIKE STURK PHOTO

HEALTH CONCERN

Warming climate may speed algae spread

Blue-green algae can cause skin irritations and poison livestock and pets

BY BARBARA DUCKWORTH
CALGARY BUREAU

Blue-green algae growth is a spreading threat to major water bodies around the world.

Last summer, 32 blue-green algae warnings were issued for recreational lakes in Alberta because of health risks to people and animals.

However, one University of Calgary student assessed algae prevalence in small prairie lakes. As the climate grows warmer and drier, the risk could increase in shallow lakes, ponds and sloughs.

"There are questions as to whether the Prairies will be more and more dominated with blue green algae growth," said graduate student Susan Anderson at the May 3 Bow River Basin Council science forum held in Calgary.

However, as temperatures increase, more evaporation is anticipated, which could make shallow water bodies saltier. The higher levels of sulfate could inhibit algae growth.

Algae is a problem when warm conditions promote rapid growth and eventual decomposition.

Products are available to get rid of it but must be used with care.

Blue-green algae can produce toxins that cause skin irritations and nausea and can poison livestock or pets. Algae removes oxygen from the water and can kill aquatic life, disrupting ecosystems.

Algae need warm water and light for photosynthesis. They also need the right ratio of phosphorus and nitrogen, as well as trace elements like molybdenum.

Most Alberta lakes have higher levels of sulfates and when these salts are present, fewer cells multiply and form algae.

Anderson sampled 25 lakes and ponds east of Calgary four times from June to September. Back in the lab, she measured pH, temperature, sulfate levels, turbidity, chlorophyll, molybdenum, nitrogen, phosphorus and other elements in water samples.

Algae was easy to find and had



FILE PHOTO

THIRTY-TWO BLUE-GREEN ALGAE WARNINGS WERE ISSUED FOR RECREATIONAL LAKES IN 2016

higher growth when nitrogen was limited. Higher growth was also noted where molybdenum was available.

Blue-green algae refers to the bacteria called cyanobacteria found in surface waters, including dugouts. The algae can be blue-green or greenish-brown and often smell musty or grassy.

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ECONOMIC FORECAST

U.S. farmers expect troubled times

The USDA is predicting farm profitability to be flat for up to the next 10 years

BY ED WHITE

WINNIPEG BUREAU

WASHINGTON, D.C. — Just how close are American farmers to a 1980s-style financial crisis?

The answer to that question that might surprise Canadian farmers, who are enduring an uninspiring period, but hardly one of the darkest times in prairie farming history.

But in the United States, a far larger proportion of farmers are believed to be in financial trouble. Many analysts say more years of low crop prices and continuing high costs may worsen the situation.

In speeches leading up to the Senate confirmation vote for Agriculture Secretary Sonny Perdue, one senator described the "tough economic times" being experienced by American farmers. It is a perception that appears to be shared across the spectrum of Washington politicians and farm group officials.

However, U.S. Department of Agriculture chief economist Robert Johansson said U.S. farmers are still far from a 1980s-like situation since their debts are lower and their interest payments are easier.

"The trend is something that we're watching, but the level right now is nothing that we're all that concerned about," said Johansson last month.

ficulty for U.S. producers is cash rent. It has stayed consistently high and hasn't come down as much as we might expect," Johansson said.

In some areas, land prices have fallen about 10 percent, but rent rates have stayed closer to peak values.

The saving grace for U.S. farmers is and will probably remain low interest rates, Johansson said.

Not only are most U.S. farmers carrying far lower amounts of debt than farmers did during the 1980s crisis, but interest payments are not nearly as onerous.

In the 1980s, U.S. farmers had a debt-to-assets ratio of 22 percent,

but today it is 14 percent. Farmers then faced double-digit interest rates, but today are paying low single-digits.

Established farmers are probably facing the present low price period in a comfortable position, with the boom years of 2007-13 giving them a chance to pay down debt, buy equipment and improve their equity.

But Johansson said beginning farmers are looking at a bleaker situation, with no easy way to quickly build equity.

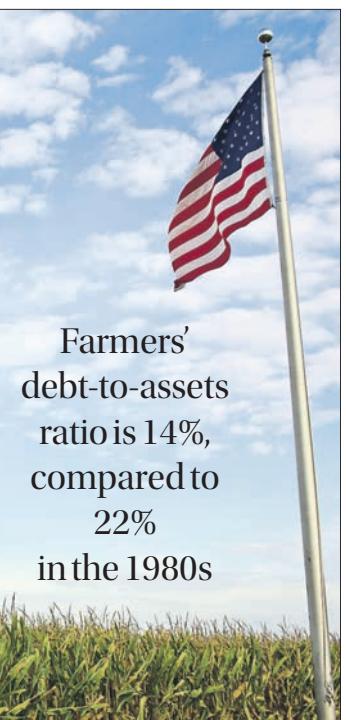
"I think their worry is justified," said Johansson.

The USDA is predicting farm

profitability to be flat for up to 10 years.

In 2012-13, the congressional wrangling leading up to the 2014 farm bill were influenced by a feeling from some that farmers were making big money and that government money shouldn't be going toward them in good years. But Johansson said he expects the lead-up to the 2018 farm bill to be focused on ensuring farm program money is not reduced, since few are now arguing that farmers are doing well.

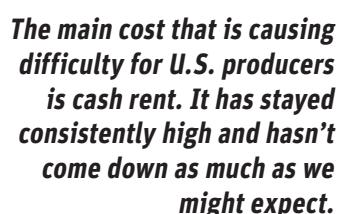
"Where we were in the last farm bill ... is very different from where we are today," said Johansson.



Farmers' debt-to-assets ratio is 14%, compared to 22% in the 1980s



GET IT UNDER



The main cost that is causing difficulty for U.S. producers is cash rent. It has stayed consistently high and hasn't come down as much as we might expect.

ROBERT JOHANSSON
USDA CHIEF ECONOMIST

Most corn and soybean growers are getting by, but farmers who depend on wheat, cotton, hogs and poultry are under considerable strain, with about 20 percent "in a tough situation."

Overall, about 10 percent of U.S. farmers are in financial trouble, Johansson said.

The specific commodities causing problems have been hit by low prices. Wheat has been a money loser for most American farmers for a number of years.

But American farmers are also grappling with a high U.S. dollar, making their goods more expensive for buyers to purchase.

Land rents haven't helped. U.S. farmers tend to rent a higher proportion of their land than Canadian farmers, so that can be a considerable factor.

Johansson said the slump in crop prices since 2013 has not had a similar affect on rents.

"The main cost that is causing dif-

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GRAIN INDUSTRY

Cargill, Dreyfus expand global operations

Louis Dreyfus builds its first export terminal in Russia, while Cargill opens an oilseed processing plant in China

SASKATOON NEWSROOM

Louis Dreyfus Co. is expanding its global grain handling network with a new terminal in Russia's Rostov region.

The terminal was built in partnership with the European Bank for Reconstruction and Development and is located on the Don River, not far from Russia's southern-most border with Ukraine.

It includes two berths and 10 silos with a total storage capacity of 50,000 tonnes.

It will be used to transload grain on sea-river vessels.



MARGARITA LOUIS-DREYFUS
CHAIR

Initial export capacity is estimated at 800,000 tonnes, eventually increasing to one million tonnes.

"Historically, Russia has been a

country of particular significance for our group, which has been active here since 1864," Louis Dreyfus chair Margarita Louis-Dreyfus said in a May 2 news release.

"With its grains production now exceeding 100 million tonnes annually, it is one of the leading producers and exporters of wheat and barley globally, with excellent potential for further growth. We are convinced that Russia will remain a dominant player in the global agricultural markets, and we have been reinforcing our presence through continuous investment in several grain assets over

the past 10 years."

The export terminal is Louis Dreyfus's first in Russia.

Louis Dreyfus also has five offices in Russia, and 10 inland silos, and total storage capacity in Russia of more than one million tonnes.

Cargill expands crushing

Cargill, in collaboration with New Hope Group and Hebei Bohai Investment Group, has launched a US\$100 million oilseeds processing plant in China's Hebei Province. It is expected to have annual processing capacity of 1.32 million

tonnes and will help meet the growing demand for quality food products in northern China, Cargill said in an April 24 news release.

The Hebei Jiahao Grain & Oil Co. plant will produce high quality oil and animal feed, which will be marketed in northern China, including in the Beijing-Tianjin-Hebei region.

The announcement of the processing plant coincides with the opening of Hebei Jihai Port Co. Ltd. (Jihai Port), which manages bulk and general cargoes.

Jihai Port will serve the transportation and storage needs of the new plant for both domestic and international trade.



DAVID MACLENNAN
CARGILL

"These investments in the new oilseeds plant and Jihai Port reinforce Cargill's strong commitment to China, a strategic market for us," said Cargill chair and chief executive officer David MacLennan.

Cargill already has three oilseed processing plants in China, all situated in southern China and the Yangtze River delta.

This new plant will help it to better meet the growing demands of customers in northern China, a market of 300 million people.

Organics growing, says USDA

The U.S. Department of Agriculture published new data in April indicating continued growth in organic industry, domestically and globally.

The USDA data released April 19 says there were 24,650 certified organic operations in the United States in 2016, and 37,032 around the world.

The 2016 count of U.S. certified organic farms and businesses reflects a 13 percent increase between the end of 2015 and 2016, continuing the trend of double digit growth in the organic sector. The number of certified operations has increased every year since the count began in 2002.

The 2016 numbers represent the highest year-over-year growth rate since 2008.

The USDA accredits and oversees about 80 businesses and state governments that directly certify organic farms and businesses.

A complete list of certified organic farms and businesses recognized by the USDA is available through the Organic Integrity Database at organic.ams.usda.gov/integrity/.

Launched in 2015, the database discourages fraud by providing more accurate and timely information about operations certified to use the USDA organic seal.

The database also supports supply chain connections between buyers and sellers of organic goods.



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CROP REPORT

ALL CONDITIONS AS OF MAY 12. VISIT WWW.PRODUCER.COM REGULARLY FOR UPDATED CROP REPORTS

MANITOBA

SOUTHWEST

- Precipitation varied from five to ten millimetres, and parts of fields remain too wet for harrowing and cultivation.

- Seeding is 10 to 15 percent complete and most are cereals, field peas and some canola.

- Winter wheat and fall rye are regrowing well in most areas.

NORTHWEST

- Rainfall ranged from 13 to 22 mm with high winds.

- Field operations are just beginning, which include field peas and spring wheat, but many producers are also managing unharvested canola, peas and corn.

- Pastures are saturated. Some cows have been moved to drier ground but continue to receive supplemented feed.

CENTRAL

- Rainfall was minimal with high winds, but many areas have wet conditions as a carryover from

last fall's precipitation.

- Many rutted fields need to have more than one harrow pass.

- Seeding ranges from 30 to 60 percent complete, while pasture conditions range from poor to good.

EASTERN

- Rainfall accumulation was minimal. Soil temperatures at five centimetres were 8 to 10 C.

- Seventy-five to 95 percent of winter wheat was winterkilled, and most fields will be reseeded to another crop.

- Seeding is estimated to be 30 percent complete with spring wheat and corn nearing completion.

INTERLAKE

- Rainfall amounts were minimal and soil temperatures are 5 to 9 C at five cm.

- Seeding progress averages 35 percent complete in the south and five percent in the north.

- Most hayfields and pastures are at or near field capacity for soil moisture.

SASKATCHEWAN

SOUTHEAST

- Last year's harvest continues, and flax is being burned.

- Seeding is 30 percent complete, up significantly from three percent the previous week. The five year average is 21 percent.

- Precipitation ranged from trace amounts to 24 millimetres.

- Topsoil moisture conditions for cropland, hayland and pastures are about 71 percent adequate.

SOUTHWEST

- Harvest continues and seeding is advancing quickly with 18 percent of the crop in the ground compared to the five year average of 31 percent.

- Precipitation ranged from small amounts to 20 mm.

- Cropland, hayland and pasture topsoil moisture has an average rating of 90 percent adequate.

EAST-CENTRAL

- Two percent of the crop is in the ground, but many fields remain



Ed and Chris Grenier's tractor sits idle after 20 millimetres of rain fell near St. Leon, Sask., May 8. | JEANNETTE GREAVES

ALBERTA

SOUTH

- Seeding is 40 percent complete, and about six percent of crops have emerged.

- Moisture ratings are 60 percent good or excellent.

CENTRAL

- Ten percent of the crop is seeded with no emergence to date.

- Soil moisture declined to 84 percent rated good or excellent.

- Seventy percent of unharvested acres have been taken off, but about 41,000 acres remain.

NORTHEAST

- Harvest is completed on 35 percent of overwintered crops, and about 340,000 acres remain.

- Seeding progress is at two percent complete compared to the five year average of 18 percent.

- Surface soil moisture ratings improved to 62 percent good or excellent.

NORTHWEST

- Saturated fields cannot accommodate seeding or harvesting equipment with 20 percent of unharvested crops taken off and one percent planted.

- Excessive soil moisture ratings declined to 38 percent, while 57 percent is rated excellent.

PEACE

- Less than one percent is seeded compared to the five year average of 15 percent.

- Thirteen percent, or 37,000 acres, of last year's crop have been harvested, with 251,000 acres remaining.

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- The Western Producer, while assuming no responsibility for advertisements appearing in its columns, endeavors to restrict advertising to wholly reliable firms or individuals.
- Buyers are advised to request shipment C.O.D. when purchasing from an unknown advertiser, thus minimizing the chances of fraud and eliminating the necessity of refund if the goods have already been sold.
- Ads may be cancelled or changed at any time in accordance with the deadlines. Ads ordered on the term rates, which are cancelled or changed lose their special term rates.
- The Western Producer accepts no responsibility for errors in advertisements after one insertion.
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- Advertisers using only a post office box number or street address must submit their name to this office before such an advertisement is accepted for this publication. Their name will be kept confidential and will not appear in any advertisement unless requested.
- Box holders names are not given out.
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JANSEN & DISTRICT Homecoming 2017, June 30-July 2, 2017. For info. and registration go to www.jansen.ca or Jansen Homecoming on Facebook. Deadline to register May 28th.PROFITABLE PAINTING, SANDBLASTING & foam business for sale in Shaunavon, SK. Owner retiring. Profitable location in oil & agricultural. Good mobile equipment, \$650,000. 306-526-9382, 306-297-7299, Larryhesterman@myaccess.ca**ALARMS/SECURITY SYSTEMS 0500**

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ANTIQUES**ANTIQUE AUCTIONS 0701**ANTIQUES & COLLECTIBLES Consignment Auction, Saturday May 20, 10:00 AM, 801 Buxton St, Indian Head, SK. Viewing: 5-7, Friday, May 19. Visit website for items coming in daily. To consign, call Brad at 306-551-9411, www.2sauctioneers.ca PL#33133LARGE ANTIQUE, COLLECTOR CAR & TRACTOR AUCTION. Friday June 9th & Sunday June 11th - Redwater, AB. Over 100 Vehicles & Tractors booked. View online at: www.prodaniukauCTIONS.com**Classifieds
SELL IT FAST! 1-800-667-7770****ANTIQUE AUCTIONS 0701**WESTERN ANTIQUES & Collectibles Estate Auction for Val Rothenburger & Prairie Moon Marketing. 9:00 AM, Saturday June 10th, Pasqua Hall, Pasqua, SK. 2 miles South of Junction #1 and #39 Highways. Viewing: 5:7:00 PM, Friday, June 9th. Saddles, tack, shoulder mounted bison, hall tree, Lincoln Coke truck, Coca-Cola collectibles including signs; Granite ware; Occupied Japan items, furniture, unused western bedding and decor, movie props & much, much more! www.2sauctioneers.ca PL# 33133.**ANTIQUE EQUIPMENT 0703**

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

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1952 JOHN DEERE 60 Good running condition. High boy model, asking \$3200. Email: mehall.hall5@gmail.com Eyebrow, SK.

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ANTIQUE VEHICLES 0705

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WHAT'S in the barn or out back in the bush? Wanted: 1969 Coronet 500, 2 door that hasn't been used in a long time. Call 306-536-6693, Sedley, SK.

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WANTED: VOLKSWAGEN van/truck, pre-1967; Also antique signs, gas pumps, oil cans etc. 306-222-7376, Warman, SK.

ANTIQUE MISC. 0710

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AUCTION SALES 0900

SAT., JUNE 3, 2017 - 10:00A.M.
Farm Auction for Marlo & Lynda Iverson, Outlook, Sk. 10 m. N. of Junction of Hwy. 15 & 219, 1/2 m. W. on Sask River Church Road. Full line of older farm equipment, haying equipment, tools & shop items.

SAT., JUNE 10, 2017 - 10:00A.M.
Farm Auction for Brian & Betty Latsay, 5 m. E. of Milden, Sk. on Hwy. 15, 4 m. S. on Pump Station Road, 1 m. W., 1/2 m. S. 1977 JD4630 tractor w/2500 original hours, JD3010 w/FEL, 1979 Case 2290, full line of older equipment, livestock equipment, tools.

SAT., JUNE 17, 2017 - 10:00A.M.
Annual Equipment Consignment Auction, 1/2 m. W. of Davidson, Sk. Tractors, trucks, farm equipment, tools & shop items. Open to consignments.

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AUCTION SALES 0900

FARM MACHINERY AUCTION for Mervin and Terri Albus, Bethune, SK, Sunday May 28, 2017 at 12:00 PM. Directions: From the east side of Bethune, south 1 mile on Grid #642, GPS: 50.697-105.190. IH 1566 tractor w/Allied 795 FEL and 8' QA bucket, 18.4x38" factory duals (front and inside back tires like new), newer injector pump, newer TA, newer clutch, 5400 hrs; White 2-155 tractor, 20.8x38" factory duals, 5500 hours; MF 1100 tractor, cab, 18.4x34" rear tires like new, new batteries, runs good, 6900 hrs; IH W6 antique tractor w/hand crank; 1984 Ford 150 farm truck; 1968 Chevy C50 grain truck, 57,000 miles; ~1950 Mercury M350 grain truck, not running; 2008 Fleetwood Wilderness 28' travel trailer, rear bunks, washroom door access, large slide-out, alum, alloy wheels, very low mileage; 2005 Outback Sydney Edition 30' 5th wheel trailer, new holding tanks, new tires, large slide-out; 2009 MF 16' 1476 haybine, PREMIUM CONDITION; 2005 Hesston 814 soft-core round baler, bale command w/auto tie; 2010 Real Industries 22' 5th wheel stock trailer; MF 124 sq. baler; IH 1460 SP combine, new auger fingers, many new parts, hyd. drive Sund PU, tires like new, new batteries, well maintained; White 27' air seeder with Prado Bandit air tank, PTO fan; MelCam 24' cult., MTH; White #249 24' cultivator, MIH; 2 JD 12' cult.; Cockshutt 'Tiller Combine' One-way on steel; JD 65 combine; Twisted 5-ring bin on wood floor, ladder; 2-Westeel 5-ring bins on steel, ladder; Westeel 5-ring bin on wood; Sakundiak 7"x32' auger w/Honda 13HP ES motor; Carraro Series II 3PTH 7' heavy-duty rototiller; Series I 3PTH 6' DD; New Heinrich water bowl; Various shop tools, hardware, supplies. More pictures and details at www.johnstoneauction.ca. For specific info call Mervin at 306-531-6239. PL#914447

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MACK AUCTION COMPANY presents a Large Collector Car - RV - Vehicle Auction Sunday June 18, 2017 @ 12 Noon for Derrick Big Eagle and guest consigner's. Directions from Carlyle, SK: 12 km East of Carlyle on Hwy 13. Open House Saturday Jun 17th to pre-register and view. Unbelievable collection of muscle cars and recreational vehicles. 1971 Plymouth Satellite Road Runner; 1970 Plymouth Valiant Duster; 1965 Ford Galaxie 500 XL; 1973 Plymouth Cuda; 1968 Chevrolet Camaro SS Coupe; 1970 Ford Mustang Fastback Boss 302 Tribute; 1968 Ford Mustang Coupe Survivor; 1965 Plymouth Valiant Barracuda; 2007 Ford Shelby GTH Mustang Convertible, 8700 mi.; 1991 Volare Street Legal NASCAR; 1951 Hudson Hornet; 1931 Essex Rat Rod; 1974 Chevy Camaro Z-28 Street Legal Drag Car; 2006 Jim Nasciom Chopper; 2000 Harley Davidson Road King, 3300 mi.; 2014 Custom Chopper; 1967 Chevy C-10 Step Side Resto-Mod truck; 1987 Jaguar XJS Coupé; 1964 Oldsmobile 98 Custom Sport; 1962 Ford Thunderbird 2-door; 2008 Cadillac CTS 4-door Sedan; 1973 Cadillac Fleetwood Brougham 4-door car w/36,000 mi.; 1994 Chevrolet Corvette Convertible; 1975 Firebird Trans-Am; 1946 Dodge Custom 1 ton truck; 1995 Ford Mustang GT; 2001 Harley Davidson Deuce; 2004 Freightliner S/A Highway Tractor toy hauler; 2015 Polaris 800 Switchback ProX sled w/400 mi.; 2010 Ski-Doo TNT 500; 1998 21' Larson 206SEI fish & ski boat; 2011 Rainbow Excursion 14' dump trailer; 1995 Dodge 2500 12 valve Cummins truck w/flatbed; 2012 Arctic Cat 700 Prowler side by side w/931 mi.; 2013 Arctic Cat Wildcat side by side; 2006 Arctic Cat 650 side by side; 1975 Pontiac Grand Prix; 1997 Hurricane 34' motor home; 2015 Canadian Hauler enclosed sled trailer; 1996 Cajun Tournament Edition bass boat; 2 - 2008 Arctic Cat 700 EFI 4x4 quad; 2008 Arctic Cat 700 EFI 4x4 quad; 2015 Polaris 800 Pro RMK; 2009 Arctic Cat M8 Snow Pro; Ski-Doo Elite 2 seater snow machine; 2006 Arctic Cat 400 4x4 quad; 6 - unused Road Racer go karts; Camoplast T4Q quad tracks; 2006 Ford F150 King Ranch truck; NASCAR/dirt track race car video simulator; Master Spas 4-person hot tub & Michael Phelps Signature Series swim spa; 1979 Dodge Power Wagon; 1980 Chevy Camaro Z-28 w/no eng.; 1990 Chevy 1500 reg cab; 1983 Ford Mustang; 1999 Ford F250 7.3 Powerstroke dsl.; 1987 Chevy Custom Deluxe truck; 1995 Chevy 1500 4WD Step-side truck; 1990 GMC 4WD Suburban; 1986 Chevy 1500 reg cab 4WD truck; 1979 GMC 3 ton flat deck truck; 1975 GMC C-65 fire truck; 2002 Dodge 1500 4WD truck. The following are parts cars: 1957 Chevy 4 door; 1974 Trans Am Hobby Stock chassis; 1975 Trans Am chassis; 1973 & 1977 Camaro chassis; 1972 Satellite Sebring chassis; 1976 Chevelle Hobby Stock chassis; large selection of race car parts; 4 - used Shaw race car chassis; modified race engines 383-412 CID; Hoosier & American Racer 15" tires; race blocks & heads; MSD ignition boxes; 9" rear ends; race seats, springs & suspension parts; shopbuilt 30' TA gooseneck flatdeck trailer; race pit tool boxes; shopbuilt S/A utility trailer; S/A bumper pull horse trailer; Cytech 4-post mobile car lift; Model DP-7 2000 lbs. lift; Homak 2-pc. upright tool cabinet; Hot Rod Grills BBQ; Eagle upright air compressor; CIH 4690 4WD tractor; CIH 885 2WD tractor; CIH 2255 FEL; Vers. 500 4WD tractor; Husqvarna YTH 2448 lawn tractor; FarmKing 3PTH 6' mower; Craftsman PT roto-tiller; UTV dozer blade; Remington 12 gauge double barrel shotgun; Husqvarna Vapenfabrik double barrel shotgun; plus much more! For new items and cars every day, visit www.mackauctioncompany.com. Or join 'Mack Auction Co.' on Facebook. Call 306-421-2928 or 306-487-7815 for more information. PL #311962

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2017 BISON TR

MISC. TRAILERS 1515

2004 LODELINE gravel trailer \$30,000; 2001 Doepper grain trailer \$27,000; 2009 Doepper end dump gravel trailer \$40,000; 2011 Doepper step deck trailer \$37,000. 306-487-7799 306-487-2633 Lampman SK



1995 BEDARD 8000 gal. 3 compartment tanker, 3" pump, air ride, new MB safety, \$22,000, can deliver. Call 204-743-2324, Cypress River, MB.

100 MISC. SEMI TRAILER FLATDECKS/stepdecks, \$2500 - \$30,000. 10 heavy lowbeds, \$10,000 - \$70,000; Belly & end dumps and alum. tankers. 306-222-2413, Saskatoon, SK. www.trailerguy.ca

DOEPPER 32x32' HI-BOY Super B's completely refurbished, over dimensional lights. Beacons, safetied, w/wo IH Eagle. Ph Hay Vern 204-729-7297 Brandon, MB.

BEHNKE DROP DECK semi style and pintle hitch sprayer trailers. Air ride, tandem and tri-axles. Contact SK: 306-398-8000; AB: 403-350-0336.



NEW 2017 GERMANIC R20-3500 tri-axle end dump, 36'x102", air ride, 11R22.5 tires, alum. outside wheels, manual flip tarp, new MB safety, can deliver, \$56,000. 204-743-2324, Cypress River, MB.



NEW 2017 GERMANIC R20-2800 tandem scissor frame tub style end dump, 28'x102", air ride, hyd. lift gate, 11R22.5 tires, steel wheels, electric tarp, new Manitoba safety, can deliver. \$48,000. 204-743-2324, Cypress River, MB.

3 TRIAXLES, 3 TANDEM stepdecks; Tandem, tri-axle and Super B highboys; 28' to 53' van trailers. **Tanker**: tandem alum. 8000 gallon; S/A and tandem converters. Ron Brown Imp. 306-493-9393, Delisle, SK. DL #905231 www.rbisk.ca

TRUCKS**NEWEST TO OLDEST 1595**

SUMMER CLEAROUT SALES EVENT. Up to \$16,914 in Savings on select models, OAC. 1-866-944-9024. www.dodgecityauto.com DL #911673.

2017 GMC CANYON CC 4x4, 3.6L V6, loaded, all-terrain pkg., starting \$41,795. 6 in stock, #H1592. 1-800-667-0490 DL #907173 www.watrousmainline.com

2017 GMC 1/2 ton Denali, 6.2L V8, loaded, NAV, sunroof, leather, #H1320, starting at \$62,995. 4 in stock! 1-800-667-0490 www.watrousmainline.com DL #907173

2017 CHEV COLORADO Crewcab 4x4, 3.6L V6, loaded, NAV, heated leather, #H1492, starting at \$43,695. 1-800-667-0490, www.watrousmainline.com DL #907173

2017 CHEV AND GMC Crewcab Diesels, 6.6L V8 Duramax, loaded, leather, #H1503, 10 in stock. 1-800-667-0490 www.watrousmainline.com DL #907173

2017 CHEV AND GMC 1 ton Crewcab Dually, 6.6L V8 dsl, loaded, cloth, #H1566, call 1-800-667-0490 for pricing! Or visit www.watrousmainline.com DL #907173

2017 CHEV AND GMC 1/2 ton Crewcab w/cloth, 5.3L V8, loaded, #H189, starting at \$46,995. 5 in stock. 1-800-667-0490, www.watrousmainline.com DL #907173

2017 CHEV AND GMC 1/2 ton CC, 5.3 L V8, loaded, leather, #H1276, starting at \$50,195. 45 in stock. 1-800-667-0490 www.watrousmainline.com DL #907173

2016 GMC SIERRA 2500 HD Denali diesel, fully loaded, \$74,995. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2016 GMC 1/2 ton Crewcab SLT, 5.3L V8, loaded, #M7283, \$56,995. 1-800-667-0490 www.watrousmainline.com DL #907173

2016 GMC 1/2 TON CREWCAB SLT, 4x4, 5.3L V8, loaded, 57,915 km, st#H1140A, \$48,395, DL #907173. 1-800-667-0490 www.watrousmainline.com

2016 FORD F-250 LARIAT diesel, shadow black, \$59,995. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2015 SILVERADO 1500, heated/cooled seats, 6.2L, \$45,995. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2015 RAM 3500 Laramie, diesel, fully loaded, \$64,995. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2015 GMC 1/2 ton Crewcab SLT, 4WD, 5.3L V8, loaded, NAV, silver, 64,790 km., #M7273, \$41,995. Call 1-800-667-0490 www.watrousmainline.com DL #907173

NEWEST TO OLDEST 1595

2015 FORD F-350 King Ranch, dsl, dually, \$66,995. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2015 FORD F-250 LARIAT diesel, sunroof, nav, \$58,995. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2013 GMC SIERRA 2500HD Denali diesel, fully loaded, \$52,995 Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2012 RAM 3500, Laramie diesel, 4 to choose from. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2012 FORD F-350 XLT extended cab, diesel, dually, \$35,995. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2012 RAM 3500, Laramie diesel, 4 to choose from. Greenlight Truck and Auto, Saskatoon, SK., 306-934-1455, www.GreenlightAuto.ca DL #311430.

2009 F250 SUPER CAB 6.4 dsl, A/T/C, only 180,000 kms, vg fleet unit \$20,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK

2004 FORD F-350 Super Duty, 1 ton, diesel, standard, longbox, 297,000 kms, vg cond., \$6595 OBO. 306-526-3810, Regina, SK.

1997 CHEV 1500, 3 door, 4x4, runs good, some rust, 465,000 kms, asking \$3495 OBO. Gary 306-823-4493, Neillburg, SK.

2000 VOLVO WG64F, 14' gravel box, Volvo VED12-345 HP, 10 spd, 18,500 frts, 46 rears, 4-way lock up, 495,000 kms, \$12,900. Norm 204-761-7797 Brandon MB

ATTENTION GRAVEL HAULERS: 6 tandems in stock, 1998-2007; 2013 Canade tri-axle end dump; Tri-axle 18' dump. Yellowhead Sales 306-783-2899, Yorkton, SK

GRAVEL TRUCKS 1676

2000 VOLVO WG64F, 14' gravel box, Volvo VED12-345 HP, 10 spd, 18,500 frts, 46 rears, 4-way lock up, 495,000 kms, \$12,900. Norm 204-761-7797 Brandon MB

SLEEPERS AND DAY CABS. New and used. Huge inventory across Western Canada at www.Maximinc.Com or call Maxim Truck & Trailer 1-888-986-2946.

SPECIALIZED TRUCKS 1680

DECKS, DRY VANS, reefers and storage trailers at: www.Maximinc.Com or call Maxim Truck & Trailer 1-888-986-2946.

1999 FREIGHTLINER FL60, Mercedes Allison auto., crew cab, ex-Vancouver Emergency Response Unit, 104,000 kms, 6800 hrs, \$14,000 OBO. 780-983-0936, Clyde AB

1997 MACK RD688, 100 barrel water tank, pump, etc., 40 Mack, 24.5 wheels, white, \$16,500. 306-960-3000 St. Louis SK

WANTED: 17 BALE PICKER DECK for semi truck or trade for 32x32' hay trailers and IH semi truck. Ph/tx Hay Vern 204-727-4683, Brandon, MB.

2002 PETERBILT SINGLE AXLE, van body with power end gate, \$8500 OBO. Call Randy 780-983-0936, Clyde, AB.

2006 WESTERN STAR, Series 60 Detroit, 18 spd. trans., 46 rears, 450,000 kms, \$7,000 work order, fresh CVIP, \$39,000. 780-983-0936, Clyde, AB

2001 PETERBILT 378 Tandem, 18 spd., Eaton 40 rears, alum. front bumper, 478,000 kms, \$30,000 OBO. 780-983-0936, Clyde, AB

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CUSTOM WORK 3560

NEUFELD ENT. CORRAL CLEANING, payloader, Bobcat with rubber tracks and vertical beater spreaders. Phone 306-220-5013, 306-467-5013, Hague, SK.
REGULATION DUGOUTS: 120x60x14', \$2000; 160x60x14', \$2950; 180x60x14', \$3450; 200x60x14', \$3950; Larger sizes available. Travel incl. in Sask. Gov't grants available. 306-222-8054, Saskatoon, SK.

CONSTRUCTION EQUIPMENT 3600

CAT 320B L EXCAVATOR w/hyd. thumb, QA, UC approx 80%, 12,750 hrs., \$50,000; 2008 JD 850J crawler dozer, c/w ROPS, 12' 6-way blade, SBG pads, 8700 hrs., \$105,000. 204-871-0925, MacGregor, MB.

CAT 980C LOG grapple fork, bucket, new tires; Case 2870, Degelman dozer 4x4; 1988 C65 w/factory 22' flat deck. 306-236-8023, Goodsoil, SK.



HYDRAULIC PULL SCRAPERS 10 to 25 yds., exc. cond.; Loader and scraper tires, custom conversions available. Looking for Cat cable scrapers. Quick Drain Sales Ltd., 306-231-7318, 306-682-4520 Muenster, SK
 1974 CAT D7F, 14' angle dozer, 26" pads, 3306 eng., 60% UC, vg cond., \$38,000 OBO. 204-467-2109, Stonewall, MB.

WANTED: Rails for a D8 Cat 14A or D8H Cat. Phone 780-632-5557, Vegreville, AB.

NORDBERG GRAVEL CRUSHER conveyor, \$150,000; Ford F700 tow truck, fully equipped, \$22,900. Pro AG Sales, 306-441-2030, North Battleford, SK.

KELLO DISC BLADES and bearings: 22" to 42" notched. Parts: oil bath and greaseable bearings to service all makes of heavy construction discs. Call: 1-888-500-2646, Red Deer, AB. www.kellows.com

RECLAMATION CONTRACTORS: Bigham 3 and 4 leg mechanical trip 3 pt. hitch Paratills in stock; parts for Bigham and Tye Paratills. Call Kelloggs: 1-888-500-2646.

JOHN DEERE 772BH grader, with snow wing, good running condition. Call 306-238-4411, Goodsoil, SK.

EQUIPMENT BLOWOUT! Cat D2-5U w/loader, \$3900; Cat D2-5U w/PTO, \$2900; Cat D2-5U w/Hyster winch, \$2900; Cat D2 J Series w/dozer, \$2900. All four units w/attachments, \$11,900; 3 Cat D4-7U w/dozers, all for \$11,900; 1H TD6 w/dozer and equip. trailer, \$5900; IH TD9 92 Series w/loader, \$5900; IH 175-C crawler w/loader, \$6900; A/C HD6 loader w/blade, \$6900; A/C HD6 crawler dozer, \$5900; 2 Cat 955K crawler loaders, \$6900 each; Cat D7-13T hyd. dozer and rake, \$8900; IH TD-15 crawler w/dozer, \$6900; 2 MF crawler loaders, \$7900 for both; Cat D8H Hi-Horse, hyd. setup for scraper, \$12,900; 2 Cat 463 cable scrapers, \$21,900 for both 3 Ditch Witch trenchers, \$17,900 for all; Volvo L-320 loader, \$19,900; GD 750 air compressor, \$5900; Vermeer DX711 directional drill, \$5900; IH 574 tractor loader, rear 3PT blade, \$5700; Work ready graders: JD, Champion, Galion, starting at \$8900; 10 cranes and draglines; 2 Case JCB and Pettibone telescopic forklifts; 2 Case 1085-C rubber tire excavators, \$12,900; JD 190E excavator, \$19,900; New and used culverts, many types and sizes; Skidsteer QA post pounder, new over \$11,000, our low price \$4900; Hundreds of attachments and useable pieces of equipment not listed. Central Canada's largest wreckers of used construction equip. New and used parts for most models of heavy equip. Cambrian Equipment Sales Ltd. Call 204-667-2867 or fax 204-667-2932, Winnipeg, MB.

2008 CAT 980H wheel loader, w/QA, buckets, forks, \$165,000. 2013 CAT 930K wheel loader, like new condition, \$170,000. Call Brian 780-213-1101, Arborfield, SK.

HYDRAULIC SCRAPERS: LEVER 60, 70, 80, and 435, 4 to 30 yd. available. Rebuilt for years of trouble-free service. Lever Holdings Inc. 306-682-3332 Muenster, SK.

2004 CAT D6N dozer with 6-way blade and ripper, \$78,000. Call 204-871-0925, MacGregor, MB.

EQUIPMENT AND PARTS: 2007 Komatsu D85EX-15E tier 3 dozer, straight blade, double tilt, ripper 3 shank, AC, 3030 hrs., \$320,000; 2007 Komatsu PC300LC-7 track hoe c/w 12.5' stick and 60' stick, 2 buckets, trigger switch, AC, 3632 hrs., \$205,000; 2009 Volvo G970 grader, 16 blade, ripper, AC, new engine, 6250 hrs., \$135,000; 2009 Case SV212 vibratory packer, cab, AC c/w shell kit installed, 1694 hrs., \$85,000; Dismantling 1997 PC300-6 excavator and TS24 1981 scraper. Pictures available on request. Call 306-634-9911, Estevan, SK.

SKIDSTEER ATTACHMENTS: Buckets, rock buckets, grapples, weld-on plates, hyd. augers, brush cutters and more large stock. Top quality equipment, quality welding and sales. Call Darcy at 306-731-3009, 306-731-8195, Craven, SK.

LANDMASTER DOZER: Professionally Engineered & Manufactured. Lease to own. Zero down. Semi-annual payments. Lease term up to 72 months. Call for details and pricing. Sask - Neil 306-231-8300 or Alta. Gord, 780-913-7353. landmaster.ca

ROAD GRADERS CONVERTED to pull behind large 4 WD tractors, 14' and 16' blade widths available. 306-682-3367, CWK Ent. Humboldt, SK. www.cwkeenterprises.ca

2012 CAT D3K very low hrs., 6-way dozer, cab, AC, heated cab, \$120,000. Call 780-983-0936, Clyde, AB.

CONSTRUCTION EQUIPMENT 3600

AIR COMPRESSORS: 185D Grimmer Schmidt; 185 Ingersoll-Rand 4 cyl.; 250 Jaeger; 375 4 cyl. Cummins; 750 Leroy; Two 750 Gardner-Denver 6-71 Detroit; 15 HP 200/400 V 3 phase 3 electric; Many others to choose from - gas, diesel, electric available, many different sizes and types. Central Canada's largest wreckers of older construction equipment, Cambrian Equipment Sales Ltd. Ph: 204-667-2867 or fax: 204-667-2932, Winnipeg, MB.



2013 JCB 550-140 TELEHANDLER, bought new in 2013, 1825 hrs., diesel power, PS trans., 4 WD, 4-way steering, very good tires, 10,000 lb. capacity, 45' reach height, hydraulic outriggers, full cab w/heat and A/C, c/w 1.8 yard bucket and pallet forks. 3 yd. bucket optional, Andrew, AB. Call Bill, 780-365-2020, 780-210-0800.



2015 TM320 JCB, 938 hrs., diesel power, PS, 4WD articulating steering, excellent condition, 7500 lb lift, 17' lift, full cab with heat & AC, c/w 3 yard bucket. Warranty Expires Oct 27, 2017. Andrew, AB. Call Bill, 780-365-2020 or 780-210-0800.

2010 CAT 950H WHEEL LOADER, 27,417 hrs., w/Cat quick coupler bucket, 3-3/4 cu. yards, 23.5x25 tires, F.O.B. \$75,000. 204-795-9192, Plum Coulee, MB

2005 LINKBELT 290LX hoe; and Cat D6H dozer, ripper, cab, with new undercarriage. 306-236-8023, Goodsoil, SK.



CLIFF'S USED CRAWLER PARTS: Some older Cats, IH and Allis Chalmers. 780-755-2295, Edgerton, AB.

CAT 435 HYD. Scraper, 12-14 yards, vg cond., \$34,000; Fiat-Allis FL14-B Crawler, vg cond., \$14,000, 204-638-1722, Dauphin

HERE WE ARE AGAIN! Low low prices! Over 45 gencets from 3 to 193 KW. Over 25 loaders and dozers. FA 605B loader; Clark 35C loader; Attachments of all types; Over 20,000' of new and used cable; 1000 new and used track rollers; 400 new and used hydraulic cylinders; 500 new and used buckets and blades; 75 sets of new and used pallet forks; tires- new and used mostly construction sizes; 2 large scales and others; Linkbelt LS98 dragline; 7 draglines and cranes; 2- Cat 70 and 463 scrapers; sawmill 50'; complete; several packers PT and SP; over 25 graders being parted out; AC M065 grader, work ready; wheel loaders 4x4, 1 to 9 yard; Blaw Knox SP110 and PF180H pavers; Barber Green asphalt track paver; 2 Bomag MPH 100 pulverizers, Detroit diesel power; 2 Cat PR275 asphalt grinders; crushers; conveyors; hoppers; 1986 GMC fuel truck, TA, 2-1986 Ford LT9000 trucks; 1986 GMC tandem gravel truck; 1995 Ford flatdeck truck, safetied. 2 yards, over 50 acres. Central Canada's largest wreckers of older construction equipment. Call Cambrian Equipment Sales Ltd., Winnipeg, MB. Phone 204-667-2867, fax 204-667-2932.

CAT HYDRAULIC PULL SCRAPERS: 463, 435, 40 and 70, all vg condition, new conversion. Also new and used scraper tires. Can deliver. 204-793-0098, Stony Mountain, MB.

2005 LINK-BELT 290 hoe; D7G PS dozer ripper, \$56,500; Smooth mouth planer w/Detroit eng. 306-236-8023, Goodsoil SK

ALLIS CHALMERS ROAD GRADER, 14', moldboard, \$6000. Phone 306-642-8111, Assiniboia, SK.

1980 D8K CRAWLER, dirt tilt blade, bush sweepers, good undercarriage, \$38,000. 204-525-4521, Minto, MB. Website: www.waltersequipment.com

EXCAVATOR BUCKETS, various shapes and sizes for different excavators. Call 204-871-0925, MacGregor, MB.

24"x48" PARKER GRAVEL screener, 48x120' screen deck plus several different screen sizes. Call 306-482-5121, Carduff, SK.

2010 JD 870 GP grader, 6612 hrs., new transmission 700 hrs. ago, new batteries and windshield, near new front tires, good condition, \$130,000. Call 306-372-4502, 306-372-7336, Luseland, SK.

KUBOTA EXCAVATOR KX080-3, 10 ton, 2011, 1800 hrs, CAH, wrist-o-twist bucket, \$58,000. 306-940-6835, Prince Albert, SK.

DIESEL ENGINES 3700

USED, REBUILT or NEW engines. Specializing in Cummins, have all makes, large inventory of parts, re-powering is our specialty. 1-877-557-3797, Ponoka, AB.

2012 CAT D3K very low hrs., 6-way dozer, cab, AC, heated cab, \$120,000. Call 780-983-0936, Clyde, AB.

DIESEL ENGINES 3700

3406B, N14, SERIES 60, running engines and parts. Call Yellowhead Traders, 306-899-2882, Churchbridge, SK.

WANTED DIESEL CORES: ISX and N14 Cummins, C15 Cats, Detroit's Ddec 3, 4, DD15. Can-Am truck 1-800-938-3323. GREAT PRICES ON new, used and remanufactured engines, parts and accessories for diesel pickups. Large inventory, engines can be shipped or installed. Give us a call or check: www.thickettenginererebuilding.ca Thickett Engine Rebuilding. 204-532-2187, Russell, MB.

ELECTRICAL MOTORS 3825

FARM AND INDUSTRIAL ELECTRICAL motor sales, service and parts. Also sale of, and repairs to, all makes and sizes of pumps and phase converters, etc. Tisdale Motor Rewinding 1984 Ltd., 306-873-2881, fax 306-873-4788, 1005A-11th Ave., Tisdale, SK. tmr@sasktel.net Website: www.tisdmrewind.com

FARM BUILDINGS 4000

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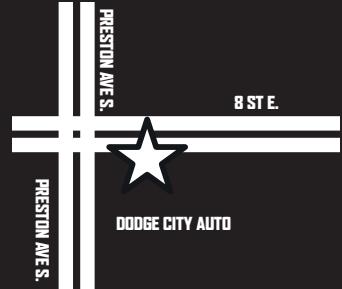
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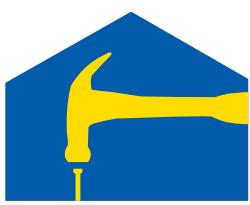
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2001 INGERSOLL-RAND SD70F

Padfoot packer, 2902 hrs,
3.9L Cummins,
66" Drum

\$32,800



1978 CHAMPION 740

2568 hrs, cab, 6 cyl Detroit diesel,
scarifier, NEW rear 14.00 x 24 tires, 14' moldboard.....

\$19,900

SCHULTE BAT WING MOWER & FLEX ARM

10' mower,
good blades,
6000 lb capacity hubs

\$13,900

TRACTORS



2004 JD 9620T
500 HP, 36" tracks in 70% cond, 4 hyds,
3PH, 9798 hrs, clean & well maintained.....

\$109,800

2008 CIH MAGNUM 275
MFWD, 3182 hrs, PTO, LH rev,
powershift, weights, rear duals.....

\$112,800



1998 NH TV140 BI-DI
140 HP, FEL w/ grapple, 6153 hours,
5 hyds, 3PH, 540/1000 PTO.....

\$46,800

1998 NH TV140 BI-DI
Bi-directional, FEL w/ grapple,
PTO, 3 PH, 8627 hrs.....

\$29,800

SEEDING



1998 JD 1900
350 bu, 6 run, dbl shoot,
tow behind, 8" auger,
clean unit.....

\$17,900

2011 WISHEK 842N
14' disc, hyd level & depth control,
28-29" discs, excellent condition

\$33,800



2007 BOURGAULT 5725 SERIES II
47", coulter drill,
9.8" spacing, sgl shoot, MRB, NH3.....

\$29,800

2013 SUMMERS 2510DT
18' tandem diamond disc,
23" notched discs, very good condition

\$18,900

COMBINES



2010 JD 9870 STS
1715 hours, Contour Master, bullet rotor,
nice condition, pickups available.....

\$148,800

2011 JD 615P
16', header and pickup, nice belts, auger &
floor 80%, overall very good condition

\$19,800



2009 NH CX8080
1556 hours, AHHC, lat tilt, Intelliview 3, long
auger, very good cond, pickups available

\$147,800

2000 CAT LEXION 465
2542 hours, tracks 75%, RWA, Cebis,
AHHC, 2 spd cyl, pickups available

\$64,800

HEADERS



2010 HB 88C
Flex draper, 36', UII PUR, DKD, hyd F/A,
runs well

\$29,800

2011 MD D60-D
45', factory transport, AHHC, hyd tilt, DKD, good adapter
auger

\$34,800



NEW MD PW8
16' pickups for CNH & JD, trades wanted!

\$29,800

2011 AGCO 4200
16' header \$11,900 or \$19,800 with
Swathmaster pickup, header height control,
very good condition

\$19,800

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MSRP:
\$41,185

2017 CHEV COLORADO & GMC CANYON DIESELS

CASH PRICE
\$44,295
2.8L DIESEL,
LOADED, NAV,
HEATED LEATHER.
#H1612

OR \$296 BI-WEEKLY @ 2.49% for 84 MONTHS



MSRP:
\$78,215

2017 CHEV TAHOE PREMIER

CASH PRICE
\$71,295
6.0L V8, LOADED,
CLOTH.
#H1765

OR \$521 BI-WEEKLY @ 0% for 72 MONTHS



MSRP:
\$45,235

2017 CHEV & GMC 1500 CREW CAB CLOTH

CASH PRICE
\$36,195
5.3L V8,
LOADED, CLOTH.
#H1615

OR \$271 BI-WEEKLY @ 0% for 72 MONTHS



MSRP:
\$44,035

2017 GMC CANYON CREW CAB 4X4

CASH PRICE
\$41,795
3.6L V6, LOADED,
ALL TERRAIN
PKG., NAV, HEATED
CLOTH. #H1502

OR \$275 BI-WEEKLY @ 2.49% for 84 MONTHS



MSRP:
\$84,880

2017 CHEV & GMC 2500 CREW CAB DIESELS

10 IN STOCK CALL DEALER!
6.6L V8, DURAMAX,
LOADED, NAV, HEATED
LEATHER, SUNROOF,
20" WHEELS. #H1737



0% Financing

12 IN STOCK!

MSRP:
\$50,645

2017 CHEV & GMC 1/2 TON DOUBLE CABS

Sale Price
\$38,995
5.3L V8, LOADED,
TRAILER PKG.
HEATED CLOTH.
#H1650

OR \$330 BI-WEEKLY @ 1.99% for 84 MONTHS



0% Financing

3 IN STOCK!

MSRP:
\$64,325

2017 CHEV SUBURBAN

Cash Price
\$58,695
5.3L V8,
LOADED, CLOTH.
#H1624

OR \$432 BI-WEEKLY @ 0% for 72 MONTHS



MSRP:
\$43,405

2017 CHEV COLORADO CREW CAB 4X4

Cash Price
\$40,995
3.6L V6,
LOADED,
HEATED LEATHER.
#H1503

OR \$270 BI-WEEKLY @ 2.49% for 84 MONTHS



MSRP:
\$86,380

2017 CHEV 1 TON CREW CAB DUALY LTZ

Call Dealer
For Pricing!
6.6L V8, DIESEL,
LOADED,
SUNROOF, NAV, HEATED
& COOLED LEATHER.
#H1560



0% Financing

45 IN STOCK!

MSRP:
\$60,180

2017 CHEV & GMC 1/2 TON CREW CAB LEATHER

Cash Price
\$49,595
5.3L V8, LOADED,
HEATED &
COOLED LEATHER.
#H1726

OR \$364 BI-WEEKLY @ 0% for 72 MONTHS



0% Financing

5 IN STOCK!

MSRP:
\$74,525

2017 GMC YUKON

Cash Price
\$67,895
5.3L V8, LOADED,
NAV, HEATED &
COOLED LEATHER.
#H1553

OR \$497 BI-WEEKLY @ 0% for 72 MONTHS



0% Financing

365 IN STOCK!

MSRP:
\$55,545

2017 BUICK ENCLAVE LEATHER

Cash Price
\$50,195
3.6L V6, LOADED,
HEATED LEATHER.
#H1312

OR \$365 BI-WEEKLY

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2017 SUBARU WRX
Sports Car

2017 SUBARU CROSSTREK
Subcompact Utility Vehicle

2017 SUBARU OUTBACK
Midsize Utility Vehicle (2 row)



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2017 SUBARU CROSSTREK

Canadian Black Book

2017 Best Retained Value Award - Compact Car



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2017 Canadian Black Book Best Retained Value Award winner Compact Car category. Based on value retained from original MSRP for 2013 model year vehicles as published by CBB as of January 1, 2017. See www.CanadianBlackBook.com for complete details.



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\$76,500

Stock #0608-06R

2006 International 9400i 6x4
Tandem Axle Grain Truck, Cummins ISX engine (435) HP, Eaton Fuller Ultra Shift transmission (10 speed), Air brakes, 813753km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, Diff Lock rear lockup, A/C, getting debunked and painted red c/w new box. Winnipeg, MB



\$29,500

Stock #5224-03A

2003 Mack CH613
Tandem Axle Cab & Chassis, Mack 460 engine (460) HP, Eaton Fuller D/O transmission (13 speed), Air brakes, 1281000km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 2-Way rear lockup. Regina, SK



\$45,900

Stock #1452-09A

2009 Freightliner Cascadia
Tandem Axle Day Cab Tractor, Detroit Diesel engine (455/475) HP, Eaton Fuller D/O transmission (13 speed), Air brakes, 940000km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C, sleeper converted to day cab. Saskatoon, SK



\$47,900 USD

Stock #FB9304

2015 Timpte Tridem Grain Hopper
Grain, 3 hopper, Air suspension, Tridem axle, Aluminum (polished out) rims, 20 king pin, Tarp: Rollover Black, Hoppers: Ag Hopper w/3rd Hopper Black w/Interior Access steps, Width: 102in, Length: 45ft, PRICE GOOD FOR A LIMITED TIME ONLY. Calgary, AB

TOLL FREE: 1.888.986.2946



\$85,000

Stock #: V412864

2011 International 8600 SBA 6x4
Tandem Axle Grain Truck, MaxxForce 13 engine (430) HP, Eaton Fuller O/D transmission (10 speed), Air brakes, 400232km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, 20 FOOT NEW CANADE SILAGE BOX. Regina, SK



\$69,900

Stock #7038-09A

2009 Freightliner Cascadia
Tandem Axle Grain Truck, Detroit Diesel engine (455/475) HP, Eaton Fuller D/O transmission (13 speed), Air brakes, 838546km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C. Regina, SK



\$52,500

Stock #V211230

2011 International 7600 6x4
Tandem Axle Cab & Chassis, MaxxForce 11 engine (330/330) HP, Eaton Fuller transmission (10 speed), Air brakes, 623207km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C, heavy front end. Winnipeg, MB



\$64,500

Stock #V221275

2012 International 7600 6x4
Tandem Axle Cab & Chassis, MaxxForce 11 engine (370/370) HP, Eaton Fuller transmission (10 speed), 370437km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 3-Way rear lockup, local SK reefer delivery truck. Winnipeg, MB



\$89,900 USD

Stock #FB149593

2015 Timpte Super B Grain
Grain, Super B, Air suspension, Tridem axle, Aluminum rims, 24" king pin, Tarp: Shurco Shur-loc Black, Hoppers: Split tub - 24" clearance Black w/Interior Access, 5 Steps steps, Width: 102in, Length: 29ft, Lead Unit, PRICE GOOD FOR A LIMITED TIME ONLY. Winnipeg, MB



\$29,900

Stock #9RH43695U

2009 East Drop Platform
Deck, Stepdeck, Air suspension, Tandem axle, Aluminum rims, Alum Floor w/ 3 Nailing Strips floor, 18 king pin, Winches: 20 Sliding 3-Bar, Width: 102in, Length: 48ft. Winnipeg, MB

AS FEATURED ON

AGDealer.com

2009 BOURGAULT 3310

\$139,000

75', 10" Space, MRB's, 3/4" Carbide Tips, Dbl Shoot Air Kit

KINISTINO, SK
306-864-2200**2015 JOHN DEERE S670**

\$544,700

Premium Cab, Leather, Hid Lights & Extremity, Small Wire Concave, Autotrac W/ HM SF, Gs3 2630 Mntd On Arm Rest, Jdlk Ultimate Rda Promo

SOUTH COUNTRY EQUIPMENT MOSSBANK, SK
306-354-2411**2013 JOHN DEERE 4830**

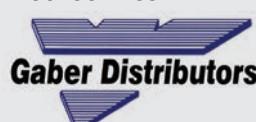
\$246,995

100' Boom, Stainless Steel Tank, 2 Sets of Tires, Autotrac, 2630 Display, Section Control

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780-753-2278**NEW BALDEN CIR**

\$31,800

14ft, 28" Notched, Oil Bath Bearings, 400x60 Tires

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204-937-4321**2015 JOHN DEERE R4045**

\$480,000

120' Boom, 4 Tridekon Dividers w/Air, 5 Sensor Boomtrac, 620/70R46 Floaters, AMS: SF3000

LLOYDMINSTER, AB
780-875-3531**2015 HORSCH JOKER RT370**

\$110,000

Vertical Tillage

NORTH BATTLEFORD, SK
306-445-8010**2013 CASE IH STEIGER 450HD**

\$269,500

1885 Hrs, IF710/70R42, PTO, GPS w/RTK Enable \$2500 Trucking Credit

CROSSFIELD, AB
888-895-0669**BOURGAULT 4700**

\$49,500

with 4300 Tank,
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STK# SK-S3761A
6 Speed Auto, 5.3L V8,
Grey with Dark Grey interior,
49,369 Kms

\$35,995

2014 Ford F150 FX4 Crew Cab



STK# SK-S3939A
6 Speed Auto, 5.0L V8,
Grey with Dark Grey interior,
21,762 Kms

\$40,995

2014 Ford F150 XLT Super Crew



STK# SK-S4359A
6 Speed Auto, 5.0L V8,
Silver with Black interior,
35,674 Kms

\$34,995

2012 Ram 1500 SLT 4x4 Crew Cab



STK# SK-U01834
6 Speed Auto, 5.7L V8,
White with Grey interior,
43,441 Kms

\$26,995

2014 Ram 1500 Outdoorsman



STK# SK-S3976A
8 Speed Auto, 5.7L V8,
Blue with Black interior,
37,614 Kms

\$33,495

2013 Honda Ridgeline VP



STK# SK-U02224
5 Speed Auto, 3.5L V6,
White with Black interior,
76,330 Kms

\$28,995

2011 Jeep Grand Cherokee Laredo



STK# SK-S3936A
5 Speed Auto, 3.6L V6,
Black with Black interior,
134,744 Kms

\$19,995

2014 Ford F-150 FX4



STK# SK-S4427A
6 Speed Auto, 3.5L V6,
Black with Black interior,
58,907 Kms

\$39,995



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Stock# GL3887
6.7L 4X4 LOCAL PST
PD DIESEL LEATHER
**\$375
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2015 DODGE RAM 3500 SLT



Stock# GL3883
LOADED 4X4 DIESEL
JUST IN 74KM
**JUST PAY ONE TAX
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WHEN TRADING**

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IN STOCK**

2012 FORD F350 XLT DUALLY



Stock# GL3860B
6.7L AUTO LOADED
NEW TIRES THRU SHOP
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Stock# GL3878
40KM LOADED
**\$175
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PST PD!!! 34KM 4X4
6.7L DIESEL
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Stock# GL3902
18KM LIKE NEW
SAVE THE TAX
FULLY LOADED PST PD!!!
**DURAMAX
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TRANSMISSION**

2015 FORD F350 DUALLY



Stock# GL3904
KING RANCH DIESEL PST PD
FULLY LOADED LOCAL
ZERO DOWN
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2014 DODGE GRAND CARAVAN



Stock# GL3891A
LOADED 37KM
GREAT FOR THE
NEW FAMILY
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Stock# GL3890A
ALL TERRAIN LOADED
140KM MUST SEE
LOCAL PST PD 5.3L
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Now \$24,995**

2011 DODGE RAM 2500
OUTDOORSMAN

Stock# GL3907
6.7L DIESEL 4X4
PST PD! 121KM
**SALE PRICE
\$37,995**

2008 DODGE RAM 3500
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MEGA CAB LOADED
LEATHER DIESEL
**DIESELS
DIESELS**

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AIR DRILLS**4250**

2005 57 FLEXI-COIL 5000 HD, 12" spacing, w/3850 mechanical cart, dual shoot, \$39,000 OBO. 306-423-5444, Domremy, SK.

2008 59' BOURGAULT 5710, 12.6" new Dutch Precision 5" w/NH3, 5.5" pneu, Raven NH3, MRB 25, full blockage, 6450 TBH, 591, shedded, nice rebuilt unit, \$149,000. 780-662-2614, Tofield, AB.



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2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, DS, rear hitch, tandem axles, low acres, \$140,000. 2002 49' Morris Maxim air drill, 12" space, w/7240 grain cart, \$45,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2011 JD 1870, 56', blockage, w/1910 TBH air cart, 430 bu., 520/85R42 duals, conveyor, excellent condition, asking \$195,000. 306-260-8969, Turtleford, SK.

2007 JD 1830 50', single shoot, 10" space, c/w 5" rubber packers, \$59,000; JD 1910 270 bu. TBT cart, single shoot, exc., \$24,000. 780-679-7795, Camrose, AB.

JD 1830, 61', 10" spacing, 4" pneumatic packers, Atom Jet 3-1/2" paired row openers w/NH3, Raven controller, section control, c/w 1910 430 cart with conveyor, cameras in tanks, very nice, \$79,000 OBO. 306-743-7622, Langenburg, SK.

54' BOURGAULT 5710, w/5350 air tank, DS w/dutch openers, steel or rubber packers, shedded, \$55,000. 306-876-4517 Goodeve

2002 FLEXI-COIL 2340, TBH, var. rate, 4 rollers, SS, dual fans, exc. cond., \$15,000, 403-882-3349, 403-741-5716, Castor, AB.

2003 FLEXI-COIL 3450 air tank, TBH, 10" auger, good cond., \$19,500 OBO. 306-861-4592, 306-722-3228 Fillmore, SK.

2010 BOURGAULT 3310 and 6350 tank, 65', liquid, single shoot, \$145,000, Young, SK. 306-917-7980.

2008 BOURGAULT 5710, 54', 9.8" spacing, new MRB's, carbide tips, 3.5" packers, new NH3 w/2004 5350 air tank, cab rate adj., 3 tanks, 1 fan, \$41,000. Call 306-862-7138 or 306-862-5993, Nipawin, SK.

2010 MORRIS 8370, 3 tank, variable rate, TBT, 440 bu., \$69,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2008 JD 1890 36' air drill, w/1910 cart, DS tank, var. rate, all-run blockage, 7.5" spacing, 340 bu., done 9800 acres, shedded, vg condition. Ph. 204-745-7445, Carman, MB.

2009 BOURGAULT 3310 PHD 75, 10", single shoot, MRB, 4.5" pneumatic packers, block sensor, exc. cond., \$85,000 OBO. 306-861-4592, 306-722-3228 Fillmore, SK.

FLEXI-COIL 6000 disc drill, 40', DS, lots of repairs done w/ lots extra parts to go with it. Call John 780-765-2280 or Warren 780-402-0922, Rycroft, AB.

1999 FLEXI-COIL 5000 27', 1330 TBT tank, 9" spacing, 2" spread tips, 3.5" steel packers, \$10,500. 306-372-7604, Luseland, SK.

AIR DRILLS**4250**

2008 60' SEEDMASTER, 12" spacing DS, low acres, very nice tips, new manifold, new hoses, exc. cond., \$75,000 OBO. 306-861-4592, 306-722-3228, Fillmore, SK.

2008 SEEDMASTER SXL 2100 50', 12", 300 bu. seed, 2100 gallon fert. all on-board. Smart Hitch, 4 cameras, 1 owner \$100,000. Must sell. Call 306-591-1133, Pense, SK.

2000 FLEXI-COIL 6000 air disc drill w/Flexi-Coil 2320 tank, 40", 10" spacing, Barton II openers, new tires on main frame, \$32,000. 306-279-4325, Wakaw SK.

FLEXI-COIL 5000, 33', 12" spacing, all recapped steel packers, new front tires on drill, 3" Stealth openers, c/w Flexi-Coil 1720 TBH tank, new front tires on cart, cameras in tank, metering area good, \$27,000 OBO. 306-726-7516, Earl Grey, SK.

2000 SERIES BOURGAULT air seeder model 2155 w/Valmar. Call 306-868-4615, Truxx, SK.

JD 737 40' Air Drill w/787 tank; Bourgault 9200 42' NH3 applicator. Both field ready, for more info 306-594-7459, Norquay, SK.

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AIR SEEDERS**4253**

BOURGAULT 8800 with 3225 tank, mid row NH3, poly packers, nice clean unit, \$29,900. Corner Equipment SL 1-888-689-3837 Carroll, 1-888-626-3215.

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PRICED TO SELL! Gandy Air Spread 5424, fert., grass, clover, canola and chem. spreader, mtd. on 50' Flexi-Coil harrow drawbar, good tine harrows, new hoses & clamps. 306-642-5740, 306-642-8060

RITE-WAY HARROW PACKER 50', P20 packers, good shape, \$2500. 306-344-4568, St. Walburg, SK.

56' WILL CAR harrows, hydraulic, recent new tires, \$1600. Phone 306-567-8614, Davidson, SK.

NEW 2017 70' DEGELMAN Strawmaster w/Endura tips, hydraulic tine adjustment Odessa Rockpiper Sales, 306-957-4403, Odessa, SK.

MORRIS WRANGLER III packer harrow, 40', wing up, good shape, \$7500. 780-679-7795, Camrose, AB.

2013 RITE-WAY HEAVY HARROW, 90', approx. 20" harrows, adjustable pressure and angle, \$35,900. 306-948-7223, Biggar, SK.

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience, Call Bob Davidson, Drumheller, AB. 403-823-0746.

2009 50' SEEDMASTER, 10", 5-plex, narrow transport, DS, seed brakes, Devloos sprayers, new fert. knives and primary hoses, \$75,000. 306-628-8181, Sceptre, SK.

2003 SEED HAWK 48', 357 onboard tank, new seed knives, c/w new fert. knives, 12", w/Alpine tank. Paul. 306-538-4666; Don 306-538-4528, Langbank, SK.

37' ASSIZ ROLLER, 42" wing up, \$20,000. During the day, please call 403-932-2131, Cochrane, AB.

SEEDING VARIOUS

SEEDING VARIOUS**4259**

2001 CASE FLOATER: FLX4300 w/Flex-Air 810 box, 4461 hrs, 69,818 kms, foam markers. Cleaned, calibrated & serviced, ready to go!. AM/FM & AC, \$55,000. Mallaig, AB, 780-635-3966. TopGroAgro@gmail.com

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ALLIS/DEUTZ**4277**

1982 ALLIS 7010, c/w 795 Allied loader, very good condition. Call 306-865-3927, Hudson Bay, SK.

WHITE

4280

8310, CAB, FEL, Cummins engine, 3800 hrs, last 7 years yard work only, new clutch, \$48,000. Call Morris - evenings, 306-697-3545, Grenfell, SK.

CASE/IH

4286

CASE/IH 9150, powershift, new tires 2 yrs. ago, 8250 hrs., return line, no PTO, \$40,000. 780-608-9024, Tofield, AB.

NEW UNDERCARRIAGE REPLACEMENT parts for CIH Quadtracs, JD 9000T, Challenger MT. Bogey \$798 & seal \$189. More shipments arriving. Call 1-800-667-4515. www.combineworld.com

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.

1998 STEIGER 9370, 3695 hrs., standard 12 spd., 360 HP, always shedded, \$90,000. Call 780-943-2039, Heinsburg, AB.

CASE 2594, 20.8x42 duals, \$14,500. Call 306-246-4970, Spencers, SK.

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 CASE/IH MX435, Outback guidance, 710/70 tires, rear weights, std. trans., 4 hyds., 3100 hrs., shedded, \$183,000. Nipawin, SK. 306-862-5993

2011 CIH 500 HD, full load without PTO, 1527 hrs., twin pumps, 800 Michelin, \$285,000. Ron 306-648-5394, Ferland, SK.

1984 IH 5088, 130 HP 8920 hours, triple hydraulics, dual PTO, 20.8x38 radials, \$17,500. 204-525-4521, Minitonas, MB. www.waltersequipment.com

1983 CASE 2290 w/Leon 707 FEL, 4700 hrs., rebuilt PS and diff., 4 remotes, dual PTO, good tires, duals, \$18,000. Prince Albert, SK. 306-922-8155, 306-960-2320.

CIH 1486, 8100 hrs., \$10,000 work order last fall, vg cond., \$18,000. 780-819-7193, Redwater, AB. danespride@aol.com

CASE/IH STEIGER 450 HD, 3PTH, 2012, 1820 hrs., PS, 800 Firestone's, loaded, no PTO, 35 month - 1500 hr. extended PowerTrain warranty, Pro 700/372 Auto-Steer, \$278,000 OBO. Call 306-960-3230 or 306-981-3281, Prince Albert, SK.

2006 CIH STX375, powershift, PTO, 1917 hrs.; 2009 STX335, c/w 6-way Degelman blade/guard, 1281 hrs; Two 2013 Magnum 260, FWA, deluxe cab, leather, 320 hrs.; 2015 Magnum 280, FWA, CVT, deluxe cab, leather, 608 hrs.; 2014 Versatile 250, FWA, GPS, etc. Ph Dave 403-556-3992, Olds, AB.

1466 IHC, duals, new sleeves and pistons, 5500 hrs.; Also 2001 Dodge Adventurer SLT 4x4, auto., 5.9L, 187,000 kms.; Ford 3 ton F700, 301 HD engine, 45,000 miles. 403-304-9217, Hoosier, SK.

1984 2094, 1000 hrs. since major motor, rad and torque convert OH, \$16,000 OBO. 306-221-8461 or 306-544-2707, Hanley

STEIGER

4289

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4292

2006 CHALLENGER MT765, 6500 hrs., 3 PTH, PTO, very nice, cond. Delivery avail. \$115,000 Cdn OBO. Call 218-779-1710.

JOHN DEERE

4295

UTILITY TRACTORS: John Deere 6200, 4400 hrs; JD 6310 w/640 loader, 4500 hrs. Call 204-522-6333, Melita, MB.

JOHN DEERE 4430 w/JD 148 loader, QuadShift, 18.4x38 singles, 2 hyds, exc. cond. 306-283-4747, Langham, SK.

JD 4560, 4 hyds., plus return line, Auto-Steer GPS - Outback S2, very good cond., good tires, very clean tractor, \$38,000. 306-861-4592, Filmore, SK.

2010 JD 7730, MFD, 620x42 rear tires, Powerquad trans., 746 loader and grapple, 3350 hrs. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2- 2012 JD 9510R 4WD, 930 hrs. and 1622 hrs., St. hyd., 5 remotes, weight pkg, Firestone 800/70R38's, \$121,500 USD and \$194,500. 320-848-2496, 320-894-6560, Fairfax, MN. www.mms-diversified.com

JD 8850, 4 hyds., plus return line, Auto-Steer GPS - Outback S2, very good cond., good tires, very clean tractor, \$38,000. 306-861-4592, Filmore, SK.

KUBOTA

4298

2016 KUBOTA M5-111, 105 HP c/w

NEW HOLLAND 4304

2014 NEW HOLLAND T8.330, MFWD, Only 920 hrs., 50 km/AutoCommand/CVT, Megaflow 68 gal. pump, 5 remotes, dynamic front fenders, factory installed, front 3 PTH, HID light package, deluxe cab w/leather seats, full GPS w/IntelliView 4 monitor (Pro 700), 800/70R38 rear tires w/3000 lb. wheel weights, 600/70R30 front tires, 540/1000 big 1000 PTO, front axle susp., HD cab susp., many more options. Mint! Exc. cond., \$155,000 OBO. 306-861-2500, Weyburn, SK. kruitenprises@gmail.com

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2009 FENDT 936 4000 hrs., 800 rubber, \$169,500. Corner Equipment SL 1-888-689-3837 Carroll, 1-888-626-3215.

FORD 4307

1993 FORD 8730, FWA, CAHR, triple hyd., 12,000 hrs., c/w 894 Allied FEL, bucket, grapple, joystick, \$19,500. 306-238-4590, Goodsoil, SK.

1995 9680, approx. 7000 hrs., manual transmission, 20.8x42 tires, \$10,000 work order, \$59,000. 306-948-7223, Biggar, SK.

VERSATILE 4310

946 FORD/VERS., 1992, 20.8x42 duals, 6020 hrs, always shedded, just serviced, exc. cond., \$52,500 OBO. 306-634-7416, Estevan, SK.

1988 VERS. 846, 18.4x38 tires- 50%, 7400 hrs., good working cond. Asking \$28,500. Call Tom 306-747-3292, Shellbrook, SK.

VERSATILE 550 DT 2016

500 hrs., 110 GPM PTO, GPS full load, \$415,000. Corner Equipment SL 1-888-689-3837 Carroll, MB, 1-888-626-3215.

TWO 1979 VERS. 855 4WD, 1 with Atom Jet hyd. kit. For details 306-483-8257, Oxbow, SK. coldridge@sasktel.net

1992 FORD/VERSATILE 946, 20.8x42 duals, AutoSteer JD Globe and monitor, very nice, \$48,000 Cdn OBO. Delivery available. Call 218-779-1710.

LOADERS/DOZERS 4322

2010 NEW HOLLAND W130B wheel loader, 5200 hrs, 2.75 yard bucket with Grabtech grapple, 20 ply tractor tread tires, excellent condition. Can send pictures, \$85,000 OBO. Please call 306-768-8541, Carrot River, SK. russellwiens2@gmail.com

LEON 707 LOADER, 5' bucket with heavy duty grapple and valve controls, \$4000. 306-795-2800, Ituna, SK.

DEGELMAN BLADES: 14', 2-way hyd. control, fits CNH 275-335 HP 4 WD's, exc. cond., \$7900; 12' 2-way blade, manual tilt, good cutting edge, mounts fit 30" tractor frames, \$4980. 1-800-667-4515 www.combineworld.com

DEGELMAN 9' DOZER BLADE, Model 9STD, \$2500. 306-867-6511, Conquest, SK.

2012 VERSATILE 435, powershift, 80 GPM, PTO, 710 Michelin, 6 remotes, GPS, very nice, \$229,000. Corner Equipment SL 1-888-689-3837, Carroll, 1-888-626-3215.

2006 VERSATILE 210 HP, FWA, w/duals and Ajo front end loader and grapple, \$94,000. 306-728-9033, Melville, SK.

VERSATILE 836, POWERSHIFT, PTO, 4 new tires, very clean unit. Call 403-823-1894, Drumheller, AB.

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WANTED 4328

WANTED: USED, BURNT, old or ugly tractors. Newer models too! Smith's Tractor Wrecking, 1-888-676-4847.

WANTED: 35' LANDROLLER (or wider); Also 22 Rabbit gun. Call 306-236-8023, Goodsoil, SK.

WANTED: FLEXI-COIL SYSTEM 75 hyd. folding coil packers. Regina, SK. area. Phone 306-488-2109 or 306-526-8882. Email: jomitch@westnet.com.au

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MISCELLANEOUS 4325

2 - JD 9-BOLT RIMS w/tires, 18.4x38; 2 - JD 10-bolt rims only, fits 20.8x38 tire; 1 Case 8-bolt rim only, fits 18.4x38 tire; PTO shaft for JD 7721 combine, fits small 1000 PTO. 306-867-6511, Conquest, SK.

ODESSA ROCKPICKER SALES: New Delgemal equipment, land rollers, Strawmaster, rockpickers, protill, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

2010 CNH 7120 combine, 830 hrs.; 2011 CNH 2142 header, 2500 ac.; 2010 CNH WD1203, .30', 350 hrs.; 1996 Tyler Patriot sprayer, 90', 2920 hrs.; 2004 Freightliner Columbia, 20' box, new rubber; 1996 Freightliner tandem, 20' box; Westfield 10', 60' PTO swing auger. Call Fred at 204-773-6703, Birtle, MB.

NH CHAIN BALER, \$2500; Neuer grain vac, \$3000; 34' factory drill mower, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. IHC Model 252 forklift, gas, \$5000. 306-238-4411, Goodsoil, SK.

FORD 750 w/18' B&H, rollover tarp, \$8500; Case/IH 2870 4 WD, Delgemal blade, \$17,000; Vac tank, 1800 gal. and pump \$8000; IHC Model 252 forklift, gas, \$5000. 306-238-4411, Goodsoil, SK.

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RETIRING: 30' BOURGAULT 2630VM cult. and harrows; Flexi-Coil System 92 harrow packer; 50' Flexi-Coil System 62 hyd. harrows, 60'; Bourgault 540 PT sprayer, 80'; 5' yd. Ashland scraper; 1977 Ford F600 grain truck, steel B&H; 1979 F600, steel B&H. 306-944-4325, 306-231-8355, Bruno, SK.

FOR POST-EMERGENCE WEED management: Harrison 60' tire weeder, excellent condition. 306-382-9024, Saskatoon, SK.

1998 JD 556 round baler; 2004 Brandt bale processor. Both in very good cond. Would make an excellent starter package. Rick 306-221-7595, Perdue, SK.

WANTED: SLIDE-IN TRUCK SPRAYER. 306-640-8034 cel., 306-266-2016 res, Wood Mountain, SK. gm93@nsasktel.net

20' SHOP BILT roller for hayland/peas, 9/16" side wall, 22" diameter, \$1500. Call 306-746-7307, Semans, SK.

SUNFLOWER HARVEST SYSTEMS. Call for literature. 1-800-735-5848. Lucke Mfg., www.luckemanufacturing.com

FLAX STRAW BUNCHER and land levelers. Building now. Place orders and don't delay! Two straw bunchers available for sale. 306-957-4279, Odessa, SK.

BOBCAT 943 SKIDSTEER, \$14,900; NH LX85 skidsteer, \$12,900; Gehl 500 cu. ft. 4 auger feed cart, \$10,000; Ashland 4.5, 6, 8 yd. scrapers, Phoenix rotary harrow 35', 42', and 53'; Knight 3 auger feed cart, \$5,000; 8RN JD 7000 planter, \$6000. 1-866-938-8537.

WESTILE BINS, various sizes, 30¢/bu.; 33' Eze-On cult., slide slide markers, w/Chinook air tank, \$7500; 1974 Dodge

BLACK ANGUS 5010

BLACK ANGUS 2 year old bulls, semen tested and guaranteed. Call Andy 306-697-7897, Grenfell, SK.

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BLACK MEADOW'S ANGUS offers for sale: High quality Black Angus bulls, bunk fed alfalfa based ration, fertility tested, full vaccination program. Free delivery. Complete CAA info available. Contact Bill 204-567-3782, Minotia, MB.

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REGISTERED YEARLING ANGUS bulls. Good quality, semen tested Black Angus and Red Angus bulls. Suitable for heifers or cows. Wilbar Cattle Co., Dundurn, SK, Bryan 306-492-7504, wilbarcattle@gmail.com

QUIET TOP QUALITY 2 yr. old and yearling Purebred Black Angus bulls. Call Spruce Acres, 306-272-3997, Foam Lake, SK.

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BLACK ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK, www.skinnerfarms.ca

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ANGUS BULLS for sale, tested for rate of gain, feed conversion, semen, many suitable for heifers. Breeding Angus since 1981. Blue Gentian Angus, call Norman Bednar 204-380-2551, Vita, MB.

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RED ANGUS YEARLING bull, AI sired by LSF Conqueror, 67 lbs. birthweight, sure calving ease. Blue Gentian Angus, Norman Bednar 204-380-2551, Vita, MB.

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YEARLING AND 2 YR. OLD bulls for sale. Balance of BW and performance, semen tested. KC Cattle Co. Call 306-290-8431, Saskatoon, SK. www.kccattleco.com

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YEARLING AND 2 YR. OLD bulls, sired by Silver Bullet and Roundup, semen tested. Martens Charolais & Seed, Boissevain, MB, Phone 204-534-8370, 204-534-6952

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CREEK'S EDGE PUREBRED Charolais yearling bulls for sale, off the farm. We will come to you to our bull pen anytime. Call Stephen 306-279-2033 or 306-279-7709, Yellow Creek, SK. View all our bulls online: www.creekedgecharolais.ca

DEXTER 5065

OLDER DEXTER COWS, bred Speckle Park due April; Polled Red Dexter 2 yr. old bull; Speckle Park/Dexter cross 2 year old bull; 403-845-5763, Rocky Mountain House, AB.

GELBVIEH 5075

GELBVIEH BULLS Reg. 2 yr. old and yearling polled bulls from our 38 year breeding program. Reds and blacks. 780-672-9950, Camrose, AB. Email: gwinder@sybanet.net

PUREBRED YEARLING BLACK and Red Gelbvieh bulls. Semen tested, vaccinations up to date, docile, EPD's and pics available. Double JL Gelbvieh, Dinsmore, SK. Call Jim at 306-846-4733 or 306-846-7199.

POLLED YEARLING and 2 year old bulls, quiet, good haired. Call Selin's Gelbvieh 306-793-4568, Stockholm, SK.

HEREFORD 5090

3 QUALITY POLLED yearling bulls, heifer approved, sired by SSAL Altitude 3A and the grandsons is NJW 51U Duramax 8X. Indexing: 3A weaning weight 875 lbs - 61, yearling 1475 lbs - 109. From heavy milk ing cows. 3A sire stood 3rd in his class at Agribition. 204-745-7894, Elm Creek, MB.

THE BEST IN POLLED Hereford bulls. Great disposition. Semen tested. Flewelling Cattle Co., Bowden, AB. 403-224-2111. Check out our website: flewellingcattleco.com

2 YEAR OLD & yearling bulls, semen tested, some suitable for heifers. Call 306-773-6633, Swift Current, SK.

2 YEAR OLD & yearling bulls, semen tested & delivered. Call Guy Sampson, Davidson, SK, 306-567-4207 or 306-561-7665.

MANCHESTER POLLED HEREFORDS

Yearlings and 2 yr olds. All bulls semen tested, guaranteed sound. Bulls sired by MPH 521X Action 106A and Glenlees 68Y Indeed 39A. Call Darren 306-228-7462 or Kari-Rae 306-893-8148, Senlac, SK.

ROSELAWN POLLED HEREFORDS have a good selection of yearling and two year old bulls for sale at the farm. Good thick bulls bred for calving ease and performance. semen tested, delivery available. Hereford bulls and black cows is a super cross. Also have a group of black baldie open yearling heifers for sale. Call Wally at home, 204-523-8713 or 204-534-8204. Killarney, MB. For pictures and details check out our website: roselawnfarms.com

2 YR OLD polled Hereford bulls. Crittenden Bros. 306-963-7880, 306-963-2414, Imperial, SK. Email h.s.crittenden@sasktel.net www.crittendenbros.com

EXCELLENT SELECTION of 2 yr old bulls. Fed for service not for show; 2 herdsires. Polled Herefords since 1950. Call Erwin Lehmann 306-232-4712, Rosethorn, SK.

ELK **5760**

NORTHFORK- INDUSTRY LEADER for over 15 years, is looking for Elk. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

ELK WANTED! If you have elk to supply to market let AWAPCO be your first choice. For pricing call our office today, 780-980-7589, info@waptiriver.com

LIVESTOCK VARIOUS **5785**

DUNDURN GRAZING Association has room for cattle in the non-breeding field for the 2017 season. Call Fred at 306-381-6070.

WHEELER'S STOCK FARM: Quality yearling & 2 yr. old bulls. Semen tested, delivery available. 306-382-9324, Saskatoon, SK.

LIVESTOCK EQUIPMENT **5790**

NH 195 MANURE SPREADER, flotation tires, hydro. drive, double apron, end gate, upper beater and splash guard, exc. cond., \$18,000. 780-819-7193, Redwater, AB. danespride@aol.com

INTERMEDIATE WHEAT/GRASS & Slender wheat grass seed for sale, \$3/lb, minimum order 1000 lbs. 204-792-7274, Cartier, MB. E-mail: bquality@mymts.net

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ACE ENTERPRISES: ELIMINATE DUST WITH ACE DUST SUPPRESSANT! Safe alternative to chemicals. We use canola oil, great source of energy with Omega 3, 6 & 12! Excellent dust control when mixing livestock feed. Saskatoon, SK. Call toll free 1-844-291-6582, jkelsey@sasktel.net

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FREESTANDING PANELS: 30' windbreak panels; 6-bar 24' and 30' panels; 10', 20' and 30' feed troughs; Bale shredder bunks; Silage bunks; Feeder panels; HD bale feeders; All metal 16' and 24' calf shelters. Will custom build. 306-424-2094, Kendal, SK.

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MCKEE 18' MANURE SPREADER with tandem axles and hydraulic end gate, \$35,000 OBO. Call 403-321-2105, Blackie, AB.

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FROSTFREE NOSEPUMPS: Fully sustainable livestock watering. No power required to heat or pump. Prevents contamination. Grants available. 1-866-843-6744. www.frostfreenosepumps.com

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PAYSEN LIVESTOCK EQUIPMENT INC. We manufacture an extensive line of cattle handling and feeding equipment including squeeze chutes, adj. width alleys, crowding tubs, calf tip tables, maternity pens, gates and panels, bale feeders, Bison equipment, Texas gates, steel water troughs, rodeo equipment and garbage incinerators. Distributors for El-Toro electric branders and twine cutters. Our squeeze chutes and headgates are now avail. with a neck extender. Ph 306-796-4508, email: ple@sasktel.net Web: www.paysen.com

20' LIFTOFF CATTLE TRAILER; Two horse trailer; 16' 5th wheel cattle trailer; Post pounder on MF tractor. 306-283-4747, 306-291-9395, Langham, SK.

2007 KUHN 2044 manure spreader with vertical beaters, big tires, \$22,000. 204-851-0284, Kenton, MB.

SHEEP SUPPLIES: Grinders for shearing equipment; (2) 14" alum. discs; (2) 13" steel discs; Various sandpapers. Must sell! 306-480-8089, North Battleford, SK. Email: possibilities78@gmail.com

2002 521DXT CASE payloader w/grapple fork. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

LIVESTOCK EQUIPMENT **5790****ATTENTION**

FFS- FUCHS FARM SUPPLY is proud to announce that we are the new Farm Aid Manufacturing Dealer for Sask. Stocking mix wagons and a full supply of parts. 306-762-2125, Vibian, SK. www.fuchs.ca

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ORGANIC PRODUCTS**CERTIFICATION SERVICES** **5943**

WANT THE ORGANIC ADVANTAGE? Contact an organic Agrologist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or info@pro-cert.org

findit **THE WESTERN PRODUCER CLASSIFIEDS**

GRAINS **5947**

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK, 306-640-8600, 306-640-8437.



ORGANIC SEED FOR SALE: Organic Alfalfa, Sweet Clover, Red Clover, Alsike Clover. Organic innoculated. Free delivery. Please call 306-921-9942, Star City, SK. Email: ivanaudrey@sasktel.net

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(from the 2016 crop year)

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or email crops@bioriginal.com

**PERSONAL** **5950**

PERSONAL ADS
Personal Advertisements will not be accepted over the telephone. Only those advertisements carrying the written signature of the advertiser will be published. (Although name and address will not appear in one's ad, we must have this information for our files.) Full payment must also accompany Personal Ads.

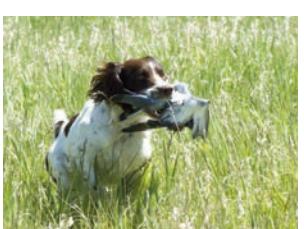
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SENIOR GENTLEMAN WISHES to meet senior lady who is affectionate, pleasant personality, likes to talk, laugh, travel, have fun. Box 5606, c/o The Western Producer, Box 2500, Saskatoon, SK. S7K 2C4

PERSONAL VARIOUS **5952**

DO YOU KNOW an amazing single guy who shouldn't be? Camelot Introductions has been successfully matching people for over 22 years. In-person interviews by Intuitive Matchmaker in MB and SK. www.camelotintroductions.com or phone 306-978-LOVE (5683).

AGE 40 PLUS Singles Dance, Albert Community Hall, 610 Clarence Avenue South, Saskatoon, SK., June 10, 2017 at 8:00 PM. Price/ticket \$40 (at door only).

PEST CONTROL **5960**

WANTED: BARN PIGEONS for dog training within 200 kms of Okotoks, AB. Will come catch and remove them! Call 403-620-7682

PETS

THE ANIMAL PEDIGREE ACT
No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

WORKING DOGS **5973**

TRUE BLUE HEELERS has a new litter. From great working parents. 1st shots and de-wormed, \$400. 306-492-2447, 306-290-3339, Clavet, SK.

BONAFIDE REGISTERED AUSTRALIAN KELPIE pups. Australian bred. Parents make a living on cow/calf operation at community pasture. Also started working Kelpies. Call Watkinson Working Kelpies, 306-692-2573, Moose Jaw, SK.

PUMPS **6010**

3 VERTICAL TURBINE pumps w/60 HP US motors discharge heads and packing. Overhauled from KPM approx. 5 yrs., running fine when removed from service. 1750 RPM, 870 GPM, 278 TDH. 2 National Bowl Assy E 12L XMC 4 stage. 1 Peerless Bowl Assy 12LD, 3/60/575, good condition, \$1500/ea. Call 250-828-8708, Kamloops, BC. dgwynnekpm@gmail.com

REAL ESTATE**B.C. PROPERTIES** **6110**

CRESTON: 19 acres. 1500 sq. ft. house, 3 bdrms, 1-1/2 baths. Nice yard w/garden, fruit and berry trees. 850 sq. ft. trailer, w/garden area is presently rented. Also includes barn, tool and chicken houses. Property is on Lister water. 3 acres set to grass, remaining 15 acres being grain farmed. 250-402-8178 or 250-402-8142.

HOUSES/LOTS **6126**

TIMBER FRAMES, LOG STRUCTURES and Vertical Log Cabins. Log home refinishing and chinking. Certified Log Builder with 38 years experience. Log & Timber Works, Delisle, SK., 306-717-5161, Email info@logandtimberworks.com Website at www.logandtimberworks.com

PUMPS **6010**

TO BE MOVED: 1977 27x40' bungalow on farm, 2 bdrms, 1 bath, 16x24' wrap around deck, new hardwood floors, windows and doors, siding and insulation 5 yrs. old, new never used fridge/stove microwave, built-in dishwasher. Would make a perfect cabin or starter home. Have mover's quote. Asking \$60,000. 780-205-4423, Lashburn, SK.

MOBILE HOMES **6127**

2011 MODULINE MODULAR 20x76, 1,520 sq. ft. 3 bdrm, 2 bath, excellent shape! \$105,000. Contact Deleee 403-396-8509. FOB. Thorsby, AB.

DILKE, SK: \$169,500, 1400 sq. ft. 3 bdrm, 2 bath home. 98x27' lot. Large dbl garage, appliances incl. Enquire now! Angelo and Jennifer Coppola, Sutton Group Results Realty. MLS 589359. 306-536-6944.

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THE WESTERN PRODUCER CLASSIFIEDS**B.C. PROPERTIES** **6110**

RV LOT FOR SALE BY OWNER: located in Riverside RV Park Resort. Year round gated community 10 minutes from Keremeos along the Similkameen River. Amenities include indoor pool, hot tub, sauna, fitness room, laundry, guest rooms, lodge w/library, games room, multi-purpose area. Low monthly maintenance fees. Pets allowed. Serviced site w/paved pad and shed. 204-826-2082 linoz@goinet.ca

CONDOS/TOWN HOUSES **6120**

NW REGINA, SK. CONDO for sale: 2 storey, unfinished bsmt., 1 car att. garage, A/C, gas fireplace, 2 bdrm., 1.5 bath., \$275,000 OBO. 306-537-8118 or frankh@sasktel.net

MOOSE JAW CONDO - Lynbrook Place, 1255 sq. ft. NW/Sunningdale, 3 bdrm, 3 bath, walkout bungalow style condo in gated community across from Lynbrook Golf Course. Backs open greenspace. Amazing sunset views and wildlife. For sale by owner, \$459,000 OBO. Please call 306-692-4216, 306-630-5325, Moose Jaw, SK. Email: n.forsyth@sasktel.net
PERSONAL VARIOUS **6125**

WE MANUFACTURE MACHINED profiled logs in cedar and pine. We also have log siding, wood flooring, cedar T&G, live edge counter and mantel tops, kiln dried. We are one of Canada's most innovated craft sawmills. Rouche Bros., Lumby, BC., 1-800-960-3388 or Rouchebros.com

COTTAGE/LOTS **6125**

WE MANUFACTURE MACHINED profiled logs in cedar and pine. We also have log siding, wood flooring, cedar T&G, live edge counter and mantel tops, kiln dried. We are one of Canada's most innovated craft sawmills. Rouche Bros., Lumby, BC., 1-800-960-3388 or Rouchebros.com

MOOSE JAW CONDO - Lynbrook Place, 1255 sq. ft. NW/Sunningdale, 3 bdrm, 3 bath, walkout bungalow style condo in gated community across from Lynbrook Golf Course. Backs open greenspace. Amazing sunset views and wildlife. For sale by owner, \$459,000 OBO. Please call 306-692-4216, 306-630-5325, Moose Jaw, SK. Email: n.forsyth@sasktel.net
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MOOSE JAW CONDO - Lynbrook Place, 1255 sq. ft. NW/Sunningdale, 3 bdrm, 3 bath, walkout bungalow style condo in

ALBERTA 6132

INVESTMENT OPPORTUNITY! 1200 acres north of Cereal, AB. Land is rented for this current year. Oil and gas revenue of approx. \$11,000. Custom built 3 bdrm, 2.5 bath home. Can be sold separately. www.bigsyrealestate.com Information call 403-854-4444.

SASKATCHEWAN 6133

URGENTLY NEEDED approx. 15,000 acres of farmland. For more info. ph 306-221-2208.

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acres 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.

DWEIN TRASK REALTY INC. Delisle/Swanson 600 ac. ranch. Very good corrals, well equipped horse barn, workshop, storage shed and solid 960 sq. ft. home. Check web to view! Call Dwein at 306-221-1035.

RM OF LEASK: 3 quarters adjoining pasture 1092 sq. ft. bungalow home, 40x60' steel quonset, 28x40' quonset style barn. Fair fences, good water, plus small lake stocked w/trout. MLS #580974. For spring possession call Lloyd Ledinski, RE/MAX of the Battlefords, 306-446-8800, 306-441-0512. Lloyd needs farm listing in most districts.

34 QUARTER SECTIONS (5419.16 Acres). Probably the best grassland around. Numerous sloughs, dugouts and an UG river run through the property. Some of it could be farmed. Yardsite with home, corrals and quonset and another w/1978 bungalow and well. ID#1100380 Bengough MLS® Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com

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WANTED 5,000 to 20,000 ACRES OF GOOD CROP PRODUCTION LAND IN SASKATCHEWAN AND ALBERTA

Please call Marcel at 1-403-350-6868
Marcel LeBlanc Real Estate Inc.

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DWEIN TRASK REALTY INC. Langham, SK. full quarter of land with 143 acres cultivated, FMV = 56,000. Just 2 1/2 miles south of Langham and 1/4 mile west. Priced to sell! \$279,900. Call Dwein today at 306-221-1035.

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HammondRealty.ca

SASKATCHEWAN 6133

DAIRY BARN, potential startup or cow/calf operation. Barn, quonsets, house, etc. Viscount, SK. \$419,900. MLS® 604848. Art Urbanowski, Royal LePage Hallmark, 306-222-2206, Saskatoon, SK.

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SASKATCHEWAN 6133

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COUNTRY HOME ON an acreage: 49.04 acres, 2976 sq. ft. bi-level 5 bdrm, 2 bath, energy efficient home, dbl att. garage, 2 sheds (12'x18' and 6'x8'), 2 large organic veggie gardens. Completely renovated lower level, \$349,000 OBO. 204-886-2500, RM of Rockwood, MB. hbond@mts.net

PASTURES 6136

WANTED: PASTURE FOR 50 - 60 yearling Bison heifers. Contact MFL Ranches, 403-747-2500, Alix, AB.

FOR RENT PASTURE for cow/calf pairs or yearlings, cultivated land seeded to oats and native grass with river running through it. 306-734-2997, Aylesbury, SK.

PASTURE LAND RM 271, 6 quarters, 940 acres in block, fenced, good water source, gravel pockets, close to Duck Mtn. Park. \$600,000. 306-542-3250, Kamsack, SK.

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

LOOKING FOR PASTURE to rent within 300 kms. of Provost, AB. for 60 cow/calf pairs. Call Kelly Sutherland 780-814-4008 or Darcy 780-704-0300.

ACREAGES 6139

PROPOSAL FOR PARTNERSHIP or sale to farming family for livestock/grain operation in central Sask. 19 quarters, farmstead located 3 miles from large town w/resort nearby. Silage based capacity for 700 or more cows and backgrounding. Contains grain, hayland and pasture. Lots of buildings. Requires family w/latest Ag technology, carpentry skills, ambition and some equity. Most equipment avail. Bring your own cattle or work with us. Cropland to seed in 2017. Text 639-471-4380.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: krassacs@sasktel.net

MANITOBA 6134

LAND FOR SALE: Two quarters West of Plumas, MB. 319 acres (224 cultivated). NE 1/4 14-16-13 and NW 1/4 14-16-13. Contact Tom 204-803-7128.

\$1,000,000 FOR SALE BY OWNERS. 12 quarters - ranch in a block, can be sold in parcels. 1200 sq. ft. home, garage, out-buildings, good well. Call 204-742-3354, Elkhert, MB.

3 QUARTERS WITH YARDSITE: 477 acres in a block. Mixed farm, 300 arable acres. Fenced and cross fenced, 2 shallow wells., 40'x60' machine shed, 34'x44' pole shed, barn, corrals, hay fence. 24'x32' bungalow, w/double attached garage. Located beside the Riding Mtn. National Park. Contact Karen Gorak-Salesperson, 204-773-6797, NorthStar Insurance & Real Estate. MLS #1701622. www.north-star.ca

PRICE REDUCED: Manitoba Ste. Rose Ranch (Ste. Amelie), 14 quarters 2,234.85 fenced land in 1 block, 240 of Class 3 land under cultivation. 2 mi. to paved highway. Golden Plains Realty Ltd, 204-745-3677.

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CATTLE FARM - 11 quarters and 2 Crown quarters in a block. Near Roblin, MB. along the Duck Mtn. Prov. Park. Approx. 1100 workable acres, majority is hay. Fenced. Dugouts. May consider selling parcels. Scenic area. Yardsite has a 30'x66' pole shed/work shop, 2 cattle shelters. Corrals. MLS #1627477, Karen Gorak-Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

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SEE COMPLETE LISTING under 6485: Forage Seeds. Phone Richard Walcer, 306-752-3983 anytime. Melfort, SK.

CERTIFIED CANADA #1 MF5301 alfalfa seed, pre-inoculated, \$3.50/lb. Volume discounts. Delivery available. Phone 204-642-2572, Riverton, MB.

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CERTIFIED CDC SORREL. Van Burck Seeds, 306-863-4377, Star City, SK. www.vanburckseeds.ca

CERTIFIED AND REGISTERED AAC Bravo, CDC Sanctuary. Call Palmer Seed Farms, Lafleche, SK, 306-472-7824.

CERTIFIED #1 CDC SANCTUARY flax, high germination. Don Schmeling, Riceton, SK, 306-530-1052.

REG. AND CERT. #1 BETHUNE flax, 98% germ. Trifid-free. Sandercock Seed Farm, 306-334-2958, Balcarres, SK.

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NORCAN restores grain farm profitability. Buy from Norcan and keep your own Glyphosphate 1 soybean seed. Norcan farmers have reported yields over 60 bu./acre. Call/text Nate, 204-280-1202 or Norcan Seeds 204-372-6552, Fisher Branch, MB.

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CY	Product (Dry)	Gde	\$/mt	c/lb
16	Extra Small Red	2C	580	26.31
		X3C	510	23.13
		3C	435	19.73
16	Small Red	2C	580	26.31
		X3C	510	23.13
		3C	435	19.73
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CERT. #1 CDC Maxim red, 98% germ., CDC Improve green, 96% germ. Don Schmeling, Riceton, SK, 306-530-1052.

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ALFALFA, GRASSES, CLOVERS / GRASSES, hay blends and pasture blends. Custom blends no charge. Free delivery. Dyck Forages & Grasses Ltd., Elie, MB, 1-888-204-1000. Visit us at www.dyckseeds.com

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CONSTRUCTION 8004

RM OF EAGLE CREEK NO. 376 requires a Full-Time Grader Operator. Employment to commence June 7, 2017. The applicant must have well developed interpersonal, motivational and team skills, and be able to take direction and work independently. The applicant must have a valid driver's license w/preference for 1A. Experience on a back hoe is an asset. Work to include grading municipal roads (JD 870G), installing culverts, signage and repairs and other duties as required. Mechanical experience to perform general maintenance and equipment repair as required. The RM provides the S.A.R.M. benefits package. Interested applicants please submit a detailed resume including qualifications, past and present work experience, salary expectations, and three work related references by 4:00 PM May 23, 2017. We thank all applicants but only those selected for an interview will be contacted. RM of Eagle Creek No. 376, Box 278, Asquith, SK, S0K 0J0. Ph: 306-237-4424, Fax: 306-237-4294. Email: rm376eaglecreek@xplornet.ca

FARM/RANCH 8016

SPUDWKY FARMS LTD. grows baby potatoes for the Canadian & US market. Located in Broderick, SK, we are looking for a Full-Time Assistant Farm Manager(s). Successful candidates must have min. valid Class 5 driver's license, own transportation and accommodation, strong leadership skills to deal with varying competencies of co-workers. This position requires having excellent organizational ability, communication skills, and decision making. Ag/ potato production experience is an asset, operation of all types of farm equipment in/out of the field/warehouse, basic mechanical/electrical troubleshooting and minor repairs, forklift operation, Pesticide Handling Certificate. Wage negotiable. Please email resume, contact info. and references to: spudwykfarms@gmail.com

COMBINE OPERATORS AND TRUCK DRIVERS wanted: Come and be part of our 2017 Harvest Crew! Prior experience is an asset. Truck Drivers - Must have Class 1 license, be able to provide drivers abstract and pass drug test. All applicants must have a valid passport and be allowed entry into USA. Start May, 2017 in Texas work in Oklahoma, Kansas, Montana, Alberta and finish in Colorado in November. Accommodations and food provided. Call 303-345-5028.

POSITION AVAILABLE, Cypress Hills, SK area. Background yearling grasser operation and cow/calf. Modern facilities and equipment. Good working environment. Class 1 preferred. Wages negotiable depending on experience. Ph. 306-295-7473.

FARM LABOURER REQUIRED for livestock operation. Duties include operating, maintaining seeding & harvesting equip. Smoke free enviro., \$17/hr. Housing avail. Lyle Lumax, 204-525-2263, Swan River, MB.

HELPER WANTED ON mixed farm. Steady job for right person. Room and board avail. 403-631-2373, 403-994-0581, Olds, AB.

2ND FARM AND RANCH HAND WANTED IMMEDIATELY. Located in Southern SK. Able to work cattle w/horse. To start as soon possible. Room and board available. Call 306-537-2624, Assiniboia, SK.

FARM LABOURER REQUIRED for mixed farm to operate machinery, cattle handling and general farm duties. Driver's license required. Single or family accommodations including utilities. Ph. 403-575-0712 or fax resume 403-577-2263, Consort, AB.

COMBINE OPERATORS AUSTRALIA: Positions available in our 2017/2018 harvest crew. Operating JD S series combines w/40' headers, AutoSteer and 900 bu. grain carts. Travelling eastern states of Australia starting mid October. Must be experienced. Knowledge of GPS an asset. Barclay Ag Services Pty Ltd. Contact Mick +61-428-532-266, email: mbarclay@bigpond.com

2 SEASONAL FARM MACHINERY operators required. Must be able to operate grain cart, tandem grain truck, FWA tractor w/rockpicker, 4 WD tractor for harrowing. Also manual labour for upkeep of leafcutter bees and general servicing of equipment. May 1 to October 31. \$15-\$18/hr. 101008187 SK Ltd., 303 Frontier Trail, Box 372, Wadena, SK, S0A 4J0. Fax: 306-338-3733, phone: 306-338-7561 or email: cfehr9860@hotail.com

LOOKING FOR COMBINE OPERATOR for 2017 harvest season. Wanting self-motivated, responsible individual with experience in running harvest equipment. We offer competitive wages and modern farm equipment. Located approx. 45 mins SE of Regina, SK. Call or text 306-861-7856.

CAMP ASSISTANT. OUR wilderness resort requires a dynamic, self-starting base camp crew member to look after the housekeeping duties, laundry, dishes and grocery packing for our 2017 season. The job is located at our base camp at Scoop Lake, and goes from July to mid Oct. Contact us via email: info@scooplake.com Call 250-491-1885. www.scooplake.com

HELP WANTED 8024

DAIRY ROUTE TRUCK Driver/Salesman. West Country Dairy Supply Inc. of Olds, AB is currently looking for a full-time salesman/route truck driver. This position entails some physical labour and is on a 6 week rotation with some overnights. A farm background with dairy experience is an asset but not required. Call 403-556-6833.

SOUTH SASK FARMER looking for female to cook and maintain modern home. Text/call for more details. 306-313-4981.

AGRICULTURAL HELICOPTER PILOT Jet Ranger: Duties of position are to make agricultural aerial application with helicopter on farms in western Canada. Basic supervising and record keeping of jobs, loading helicopter and spraying jobs. Provincial pesticide licence will be required but can be obtained in house prior to commencement of work. 400 hrs minimum required, with 200 hrs min. experience performing agricultural row crop spraying. Turbine time is an asset. Experience operating SatLock or AgNav GPS required. Must be insurable through our insurance company. This is a season position based in Leask SK, working in the northern Saskatchewan agricultural areas. Duration of work from approximately June 10th to October 5th. Dates may fluctuate slightly. Training and familiarization required prior to commencement of these start and end dates. English language proficiency required. This is a full time seasonal position working 40 hours per week, minimum of \$50/hr plus holiday pay. Bonuses based on performance. Workers compensation provided. Accommodations and vehicle provided. Please contact by sending resume and hrs of experience breakdown by email to: [provjobs@provincialhelicopters.com](#) Suitable candidates will be contacted back by email or by phone, so please include that information in your resume.

COOK FOR BACK COUNTRY Lodge at Jasper National Park, July to mid-September, room and board supplied. 780-852-4215.

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CAMP ASSISTANT. OUR wilderness resort requires a dynamic, self-starting base camp crew member to look after the housekeeping duties, laundry, dishes and grocery packing for our 2017 season. The job is located at our base camp at Scoop Lake, and goes from July to mid Oct. Contact us via email: info@scooplake.com Call 250-491-1885. www.scooplake.com

WHEAT FARM MANAGER - EU

Owner/operator of diversified Agribusiness company is desirous of retaining the services of a highly-qualified wheat farm Manager for their 20,000-cultivated acre farm. The successful candidate will report to the owner and lead a team of agronomists and other disciplines. This post will carry responsibility for the development and implementation of efficient processes through a wider team of up to 100 people. See website - [www.agrotime.com](#)

Compensation and Benefits

Remuneration commensurate with successful candidate's qualifications. Benefits include housing, vehicle and liberal vacation including travel expenses.

 Apply to [grains@ronan.net](#) with full resume and work experience. Reply's held in confidence.

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FULL-TIME FARM LABOURER HELP. Applicants should have previous farm experience and mechanical ability. Duties include operation of machinery, including tractors and other farm equip., as well as general farm laborer duties. \$25/hour depending on experience. Must be able to cross US border. Location: Pierson, MB/Gainsborough, SK. Feland Bros. Farms, Greg Feland and Wade Feland, Box 284, Pierson, MB. ROM 1SO. 701-756-6954.

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AUCTIONEERING 101

Rhythmic chant and charm bring in bids

Auctioneer effort before and after the actual sale are a vital part of being successful in the job

BY BARB GLEN

LETHBRIDGE BUREAU

Cattle auctioneering involves much more than the chant, although that's the most common aspect associated with the skill.

Thirty cattle auctioneers were put to the test in the auction ring May 12 when Perlich Brothers Auction Mart in Lethbridge hosted the 20th annual Canadian Livestock Auctioneer Championship.

What's the secret to success in the cattle auction ring?

"To be a good auctioneer, you've got to be very well balanced," said Ryan Konynenbelt of the Southern Alberta Livestock Exchange in Fort Macleod, Alta. He was flushed but feeling relieved after his turn at the gavel.

"You've got to have salesmanship. You've got to have that personality that you can connect with people and your clients and buyers."

The chant is only part of it.

"There's so much more behind the scenes," he said.

"It takes a lot more than just sitting there and chanting away all day."

That includes talking with consignors, getting their business and then ensuring the animals are sorted into suitable lots attractive to order buyers.

"Especially in the fall, when you're selling a consignor's calves, it is pretty much their only pay-cheque they're getting for the year so you try to do your best for the consigner every single time as well as work hand in hand with your buyers."

Ryan Hurlburt, head auctioneer for Saskatoon Livestock Sales, was the 2016 winner of the champion title and one of seven judges at this year's event.

"It was a tremendously tough field," he said.

"As a past contestant, I can tell you that they're not easy. Those guys, they probably didn't sleep the night before, or didn't sleep very well."

Clarity is job one for auctioneers in the ring, he added. Bid spotting is next on the list and then there's attitude.

"If you don't conduct yourself in a professional manner, you lose the confidence of the buyers and if you lose the confidence of the buyers, it's tough to have an auction sale," he said.

"The biggest thing about being an auctioneer is you're a representative of your community. You represent your stockyard, your firm, and so a very important part of that is your professionalism, how you conduct yourself."

Rhett Parks of Whitewood, Sask., drew the number 13 spot in the



Rob Bergevin of Foothills Auctioneers Inc. based in Stavely, Alta., takes bids on cattle May 12 as he competes in the Canadian Livestock Auctioneer Championship held May 11-14 at Perlich Brothers Auction Market in Lethbridge. | BARB GLEN PHOTO

order that contestants showed their skills. Whitewood Livestock Sales is slated to hold the competition in 2018.

"There's lots of things that the judges are looking for here today," he said.

"Rhythm and chant, are you clear and easily understood, professionalism, knowledge of cattle. Do you know to start them at \$2 if they're worth \$2.25 or do you start them at 50 cents when they're worth \$2? That's a lot more work if you start too low. It makes for a long day in the sale barn."

The number 13 also figured in the event for Rob Bergevin of Foothills Auctioneers Inc. in Stavely, Alta. This was his 13th competition, and enjoyment of the event hasn't faded during his 30 years in the business.

He said interest in auctions as a method of selling and as a career is stronger than ever before, in part because of television shows that regularly show auctions of various items.

Bergevin is a believer in open bidding as a method of true price discovery. A simple listing of price by electronic or other means will never draw a bid higher than that list

price, he said.

"But it happens in our markets every week," he said.

"It can go either way, there's no doubt about it, but it's a true price discovery."

"(The auction is) the only place that you can get more than you're asking for. It doesn't always happen but it's the only place it can ever happen."

And what about that chant?

"No one seems to know for certain when or where the rhythmic chant used by most North American auctioneers originated," writes Darrell Johnston on the Auctioneers Association of Alberta website.

"It just seems to have evolved of necessity as auctioneers saw the need to sell items in a more rapid manner. The chant is a tool the auctioneer uses to hold the audience's attention and to keep the auction moving at a steady pace."

barb.glen@producer.com



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COMPETITION WINNERS

In the winners' circle at auctioneer competition

SASKATOON BUREAU

Darren Rebalkin of Meadow Lake Stockyards at Meadow Lake, Sask., has been selected champion auctioneer for 2017.

Rebalkin won the award during the Canadian Livestock Auctioneering Championships held May 11-14 in Lethbridge.

Other winners include:

- Ryan Konynenbelt of Nobleford, Alta., representing the Southern Alberta Livestock Exchange won reserve champion.
- Albert Carroll of Omemee, Ont., with Ontario Stockyards Inc., placed third.
- Tyler Slawinski of McCreary, Man., with Gladstone Auction Mart placed fourth.
- Donnie Peacock of Heartland Livestock Services in Swift Current, Sask., placed fifth.
- Jordie Waters of Nanton, Alta., from Foothills Auctioneers/VJV Ponoka, was named rookie of the year.
- Ken McDonald was selected as most congenial auctioneer. McDonald from Indian Head, Sask., works at the Weyburn Livestock Exchange.
- William Haalstra of Dunnville, Ont., with the Ontario Livestock Exchange was named most improved auctioneer.
- The people's choice award was won by Joe Perlich with Perlich Bros. Auction Mart at Lethbridge.
- The LMAC industry champion award went to Danny Skeels of Rimley, Alta.
- The Canadian Angus Association stockyard of the year award went to Heartland Livestock Services at Swift Current, Sask.

DISEASE RESEARCH

Getting to the guts of the problem

Study of intestinal bacteria points way to fighting disease

BY BARB GLEN
LETHBRIDGE BUREAU

What is the most complex organ in the human body? Most people would likely say the brain.

But a team of researchers at the Agriculture Canada Lethbridge Research Centre says it is the intestines, and that's true of livestock as well as humans.

That's why they are studying various aspects of bacteria interactions in the gut, and what they learn is expected to benefit the livestock industry and human medicine.

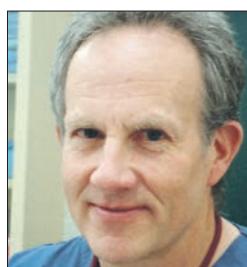
"Nothing is simple in the intestines," said Doug Inglis, a senior research scientist at the centre.

"It is the most complicated organ in your body. I'd say it's just as complicated, if not more, than the brain."

A healthy intestine relies on bacteria and the body's response to those bacteria, but that simple statement hides a complex interaction of mechanisms that Inglis and his team continue to explore.

"Our research takes what we call a biorationale based approach, so we really focus on the use of models to understand mechanisms and achieve innovations.

"We're focused on intestinal health, so looking at control of enteric pathogens, as well as enteric inflammatory diseases, and ultimately we're looking at developing efficacious non-antibiotic mitigation strategies."



DOUG INGLIS
RESEARCH SCIENTIST

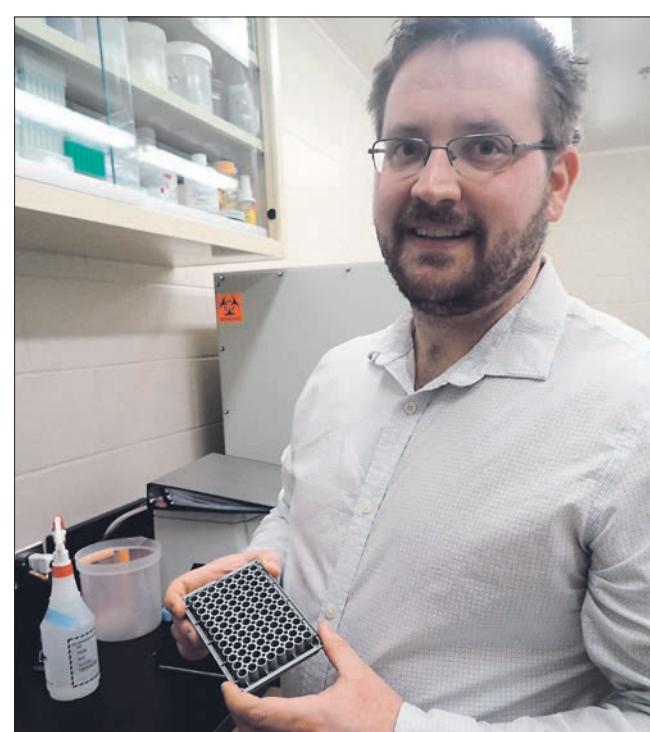
Those studies involve mice, chickens and pigs. An understanding of the complexities of those intestinal systems, and how they react to different bacteria, could also apply to humans.

Of course, humans often seek a simple cure for intestinal problems. Witness the popularity of foods containing probiotics, touted to improve or protect gut health. Inglis has a reaction to commercials for such products.

"I don't laugh. I cringe. People are making a lot of money on products that really, there's no proven efficacy. Nothing is simple in the intestine, and so when there is efficacy ... the placebo effect can have profound impacts."

Part of the research program in Lethbridge is focused on mitigating food-borne pathogens that also exist in animals. That requires researchers to work with clinicians to evaluate the significance of various illnesses in people.

The bacteria that gets the most media attention is E. coli O157:H7,



Paul Moote, enteric microbiology specialist, is studying how bacteria behave in pig intestines with the goal of finding treatments for illnesses such as porcine epidemic diarrhea. Studying intestinal bacteria is difficult, in part because many types are hard to culture for direct study, but Moote has found ways to overcome that challenge. | BARB GLEN PHOTOS

which exists without apparent effect in cattle, but can be fatal to humans. However, this nasty pathogen is not the biggest culprit in terms of public health.

That title belongs to campylobacter jejuni.

"It's orders of magnitude (greater)," said Inglis. "More people get infected with campylobacter jejuni than E. coli and salmonella. It's under the radar. It doesn't cause recalls, so that's a big thing ... and also it doesn't cause as severe morbidity in children."

To put it in perspective, Inglis said more than 200 people are likely infected with C. jejuni each year, compared to 20 with salmonella and five with E. coli O157.

But just how C. jejuni works within the intestine remains to be discovered. Researchers aim to develop strategies that can better protect public health against it "and also show that the industry is proactively addressing this issue," Inglis said, in reference to livestock.

Where does the investigation begin? With a chicken.

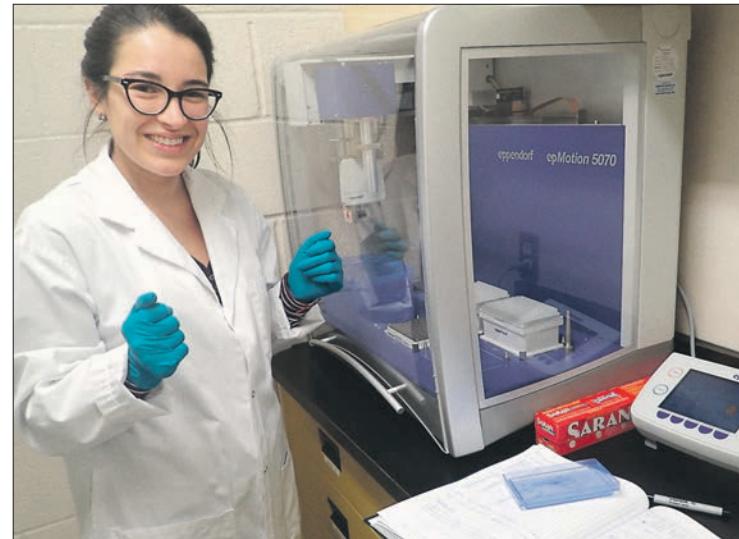
Chickens and C. jejuni

Chickens are considered to be a reservoir for C. jejuni and rates of campylobacteriosis are considered high in southern Alberta. About half the cases occur in rural dwellers.

Nahal Ramezani, a veterinary microbiologist, is studying the pathogen at all points in the food chain. Over a one year period, she collected fecal samples from poultry in three southern Alberta broiler barns and a cattle operation, and skin samples from chicken at a processor and at a retail store.

She also collected bacteria from human diarrhoea samples at Chinook Regional Hospital in Lethbridge.

Among the 11,240 total samples collected, she found campylobacter in about 5,000 of them. Not all types of campylobacter are pathogenic, so that result doesn't



Danisa Bescucci is studying the way bacteria in a pig's intestine respond to inflammation.

necessarily ring alarm bells.

However, Ramezani's tests show there is little diversity of C. jejuni among the chicken operations, and that bacteria from human diarrhea shared similarities with those in cattle and retail chicken samples. C. jejuni from chicken farms were not the same as that in human samples, indicating it was spread in another way.

Paul Moote, an enteric microbiology specialist, said most research looks at campylobacter as a species but Ramezani is examining it at the subspecies level.

**Each year, 10 times
as many people are
affected by
campylobacter jejuni
than the more well-
known E. coli O157**

"It's important to know how the strains dominate the chicken because if you know the strains that dominate the chicken, you can figure out where those strains link to human health," said Moote.

"You can figure out when are

human pathogenic strains dominating chickens and how are they dominating chickens."

Ramezani is also exploring the possibility that cattle are a reservoir of C. jejuni for chickens, so she is sampling cattle living next to a broiler site. The research could lead to mitigation strategies for disease prevention and control.

Chicken stress and illness

What causes stress in a chicken? There are many answers to that question, but one answer is Sarah Zaytsoff. She is studying the effects of stress on enteric diseases in chickens.

Starting with chickens that are as germ-free as possible, she puts a stress hormone called corticosterone in their drinking water to see how it affects the onset of illness and the composition of the birds' intestinal bacteria.

"I'm specifically looking at *Clostridium perfringens*. It causes necrotic enteritis in chickens, which is quite impactful and often results in sudden death," said Zaytsoff.

To determine the effects, she examines the metabolic genes in

the birds' liver and also analyzes their intestinal tissue to see if there is a change in nutrient uptake.

She found that stress significantly increases the amount of C. perfringens in chickens, affects their immune response and likely has an impact on feed efficiency, which has implications for producers.

"Notably, all of the birds that received stress treatments showed significant reduction in weight gain, which can be relatable to production setting where many runty birds can be found," she wrote in a summary of her research.

C. perfringens can infect humans, though its effects are limited. In chickens, however, it damages the small intestine and can be fatal.

How do you get a germ-free chicken, or at least one that is as germ-free as possible?

That is Kaylie Graham's area of expertise.

The University of Lethbridge student and research assistant is developing ways to rear chicks that have simple microbial communities. Limiting the types of bacteria present in the chicken, and knowing what types those are, allows researchers to study those types and how they interact with bacteria they may want to introduce.

"It allows clearer observation of colonization and interactions between bacteria species," said Graham.

What about mammals?

It is a challenge to study specific bacteria when there are so many types in the intestine and their precise relationship to one another is unknown.

That makes it impractical to work with large mammals at the bacterial level.

Maximo Lange uses germ-free mice, which were initially raised elsewhere, delivered by caesarean section and then put into sterile environments so exposure to particular bacteria can be isolated and monitored.

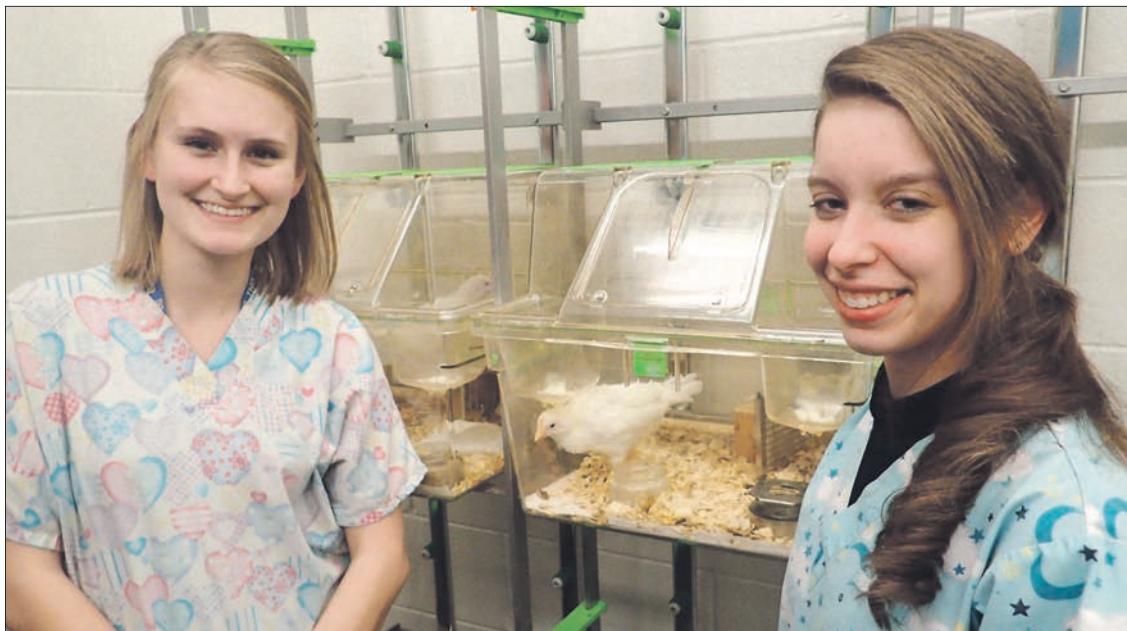
"These are excellent models to study mechanisms. Since you don't have any other bacteria, you can introduce the bacteria you are studying and you will only isolate or analyze or study that one bacteria in the mouse," said Lange.

His research focuses on E. coli O157:H7, a pathogen that has forced food recalls because it can cause severe human illness. Cattle are the main reservoir, although it causes them no apparent health effects.

"We're trying to study how it colonizes cattle, what actually happens in there and why it colonizes, how can it survive, what kind of mechanisms it uses to survive. By using these simple models of germ-free mice, we're trying to see exactly how it behaves," said Lange.

"The intestinal location of this bacteria in ruminants is still debatable and unclear, as well as the colonization mechanisms.... The aim of our project is to use germ-free mice as a ruminant intestinal model in order to study in detail the different mechanisms that this organism utilizes to survive in the intestine."

CONTINUED ON NEXT PAGE »



» CONTINUED FROM PREVIOUS PAGE

There are many different types of E. coli in the normal ruminant intestine, so unless researchers can start with either bacteria-free or known types of bacteria, it is impossible to isolate and study E. coli 0157:H7.

Inglis said there are no effective strategies for mitigating the deadly bacteria in cattle. A vaccine has been designed to combat it but it is costly and not completely effective. That indicates the need for further research.

"There's some stuff out there that says (E. coli 0157:H7) is in the very distal colon/rectum, but I don't think it's that simple. I think it's going to be colonizing other components of the intestine and that's what these models allow us to do."

Using mice as a substitute for cattle or pigs has been criticized, said Inglis, but he doesn't see a problem.

"This is the exact strategy people use for human medicine," he said.

"If you can use a mouse for a human model, why can't we use it

for a pig model? We've spent a lot of time convincing the producers that our strategy is valid, and now I think they've come around to accepting it."

Pigs and their parts

Porcine epidemic diarrhea (PED) has killed millions of piglets in the United States and Canada in the last three years. The disease harms the pigs' intestines so they cannot properly absorb nutrients, and they die of starvation and malnutrition.

Moote's research could lead to creation of probiotics tailored to colonize and protect injured intestinal tissue and suppress viral and bacterial infection.

But first, Moote must learn how and why certain bacteria cause intestinal inflammation and then identify other bacteria that mitigate or heal that same inflammation.

"My work would look at finding bacteria that are associated with the inflammation associated with PED. If you can have less harmful bacteria that can colonize that

inflamed tissue and assist in the redevelopment of non-inflamed tissue, you could potentially prevent PED because PED requires a certain amount of inflammation to exist," said Moote.

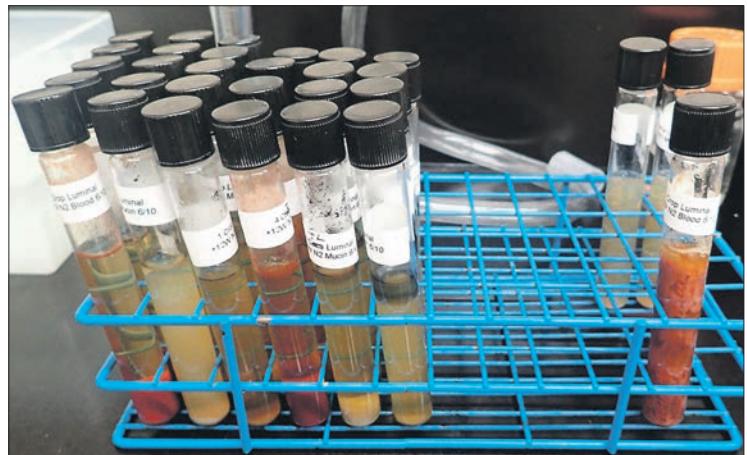
"If you can take an organism that can go into the piglets that can suppress the inflammation, even if there is stress, you could hopefully reduce the availability of tissues for these viruses and other pathogenic bacteria to colonize."

Salmonella infection is another example where Moote's research could apply.

Those bacteria can dominate the microbiota in a pig's intestine. Tissue becomes inflamed and the salmonella feeds on that tissue. If that salmonella could be blocked, "you could potentially reduce the risk of enteritis in piglets and in hogs," said Moote.

"And that's really critical because enteritis in piglets is a big issue, a big, big issue. So we're hoping to find bacteria that can help displace salmonella."

He has created a collection of bacteria, some isolated in the pres-



LEFT: Kaylie Graham, left, and Sarah Zaytsoff are studying how chickens respond to the stress of enteric diseases.

ABOVE: Test tubes of various bacteria await testing and analysis.
| BARB GLEN PHOTOS

How long are small intestines?

Humans:	20 feet
Pigs:	12 feet
Cows:	130 feet
Sheep:	80 feet
Chickens:	4.5 feet
Mice:	1.4 feet

ed with displacing salmonella because they are either displacing it by competing with the actual bacteria, or they are assisting the host. Those are two different, distinct mechanisms."

While Moote studies changes in microbiota, Danisa Bescucci is studying the way bacteria in the host, in this case a pig, respond to inflammation in the intestine.

"If you were to stimulate a host response that's not going to hurt the host but prepare it, then when you go to wean or you lose that maternal antibody, then you can have your treatment," said Bescucci.

For example, there might be a protein that can stimulate certain cell growth and prevent or fight inflammation.

Bescucci hypothesizes that the cecum, a part of the pig's intestinal tract between the small and large intestines, produces short chain fatty acids that resist harmful bacteria. If that proves out, research specific to the cecum could lead to reduced bacterial infection.

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DIAGNOSIS AND TREATMENT

Clostridium difficile a major cause of diarrhea in animals

ANIMAL HEALTH



JAMIE ROTHENBURGER, DVM

Like many other bacterial species, Clostridium difficile, often referred to as C. diff, lurks in the guts of animals waiting for the chance to strike.

It lives peacefully amid a teeming community of other types of bacteria until something puts the gut ecosystem into disarray.

Usually the disruptor is a blast of antibiotics that kill large numbers of so-called healthy bacteria. It is in this chaos that C. diff thrives.

In many ways, C. diff behaves like an invasive weed that overgrows in disturbed environments. Imagine Russian thistle in a gravel pit.

Unleashed from the constraints that other bacteria normally impose on it, C. diff multiplies quickly and attaches to the gut lining where it secretes a slew of potent toxins.

C. diff is one of the most important bacterial infections to occur in



Clostridium difficile is associated in farm animals with variably severe diarrhea, particularly in young animals, including piglets.

| BARB GLEN PHOTO

hospitalized people and it is also an important cause of disease in animals.

In farm animals, C. diff is associated with variably severe diarrhea, particularly in young animals. Piglets usually become infected within the first few days of life. Not all piglets with the bacteria develop disease.

Affected pigs have diarrhea with colitis (colon inflammation) and edema, leading to dehydration,

poor weight gain and possibly death. Ostrich chicks are also susceptible to C. diff diarrhea.

The role of C. diff in calf diarrhea is less clear, with several studies finding no association between infection and disease.

Animals like horses, rabbits and guinea pigs that ferment fibrous food in their colon (so-called hind-gut fermenters) are highly susceptible to severe C. diff associated colitis.

There is evidence that in some cases, people may acquire C. diff

Foals and adult horses infected with C. diff can develop severe colon inflammation, edema and diarrhea. Similar to the disease in people, C. diff in horses is frequently associated with antibiotic treatments.

About three percent of horses carry C. diff in their guts without showing signs of disease. These horses can spread C. diff in the environment. It is also thought that antibiotic treatment in these carriers sets up a perfect storm for C. diff to overgrow.

C. diff is diagnosed by identifying the bacteria and its toxins in feces. It is important to rule out other common causes of diarrhea such as E. coli, rotavirus, coronavirus, salmonella and cryptosporidium.

There are no vaccines available to prevent C. diff associated disease.

Animals become infected by ingesting the bacteria, which can persist in feces, soil and on environmental surfaces. C. diff forms highly resistant spores that can survive in the environment for months, so cleaning and disinfection may be helpful to reduce the amount of C. diff in animal environments.

Dr. Jamie Rothenburger is a veterinarian who practices pathology and a PhD student at the Ontario Veterinary College. Twitter: @JRothenburger

from animals. A study of C. diff in pigs and pig farmers found that they were carrying identical strains.

More research is needed to fully understand the direction of transmission, which is challenging to uncover, even with modern molecular tests.

A healthy community of gut bacteria is needed for growth and production. The gut is a complex place. When things disrupt the bacterial community, like antibiotics, stress, transportation, mixing groups of animals and feed changes, pathogens like C. diff can take over.

Under a microscope, C. diff looks similar to the shape of a hot dog. It is tiny: about 100 will fit into the size of a grain of sand. Its only distinguishing feature is a pale spore offset at one end.

Difficult is Latin for difficult. C. diff was so named because it was difficult to identify and culture using traditional laboratory techniques.

Lately, one may be tempted to think the name also applies to its ability to cause disease and the difficulty in treating those conditions.

NORTH AMERICAN AGRICULTURAL JOURNALISTS

When end of day trading bell rings, music begins

Futures market regulator relaxes with a good banjo

BY ED WHITE
WINNIPEG BUREAU

WASHINGTON, D.C.—By day he confidently oversees the world's most important futures markets, ensuring that they function fairly for farmers and the countless others depending on public markets.

But on one recent evening, J. Christopher Giancarlo admitted he had been feeling a little anxious, being put to a test that he hoped he was good enough to pass.

"It's really great to play with a good band," said Giancarlo, acting chair of the Commodities Futures Trading Commission, moments after his first live performance with The Second Amendments had concluded at the National Press Club in Washington.

"I'm looking forward to doing more with them."

Giancarlo was looking relaxed after his successful performance with the group, a band fronted by Democratic Representative Collin Peterson from Minnesota that has, over the years, contained a number of members of Congress and politi-

cal staff. Like the Blind Boys of Alabama, members come and go, but the soul remains true.

It plays rock and roll gigs around the Washington, D.C. area and has been a bipartisan musical endeavour.

This evening it played at the annual awards banquet for the North American Agricultural Journalists, performing in front of an audience of Washington agricultural policy staffers, lobbyists, foreign embassy staff (including at least one from Canada), at least one former U.S. secretary of agriculture and numerous agricultural journalists from across the United States.

The band played its music beneath a live televised feed of the vote in the U.S. Senate to approve President Donald Trump's nominee for secretary of agriculture, Sonny Perdue, where many NAAJ members were sitting in the Senate press gallery before piling into taxis to get to the banquet in time to catch the last few numbers by The Second Amendments.

One wag noted that this was



J. Christopher Giancarlo, centre, recently joined The Second Amendments to entertain agricultural journalists at the National Press Club in Washington, D.C. | ED WHITE PHOTO

probably the first rock and roll concert in history performed with a light show provided by C-Span.

Giancarlo said he wasn't sure if many people realized he plays banjo and guitar.

"It's gotten around. It's not that I keep it a secret, but work's work and if you mix the two then the one is not a release any longer."

He doesn't keep a banjo at the office, but at home there's always an instrument close at hand.

"It's my release. It's how I relax," said Giancarlo, whose agency over-

sees billions of dollars of derivatives markets trading and has been intimately involved in the post-2008 financial crisis recovery and restructuring.

"When I'm playing, every other thought is out of my head other than keeping up with the band."

Giancarlo's father was a doctor but also a passionate violinist, so combining a hardcore profession and having a musical passion is not unprecedented in the family. His brother is a talented guitar player.

Combining public service and playing music has also been previously seen around Washington.

"Bill Clinton played the sax," noted Giancarlo as he helped pack up the band's gear.

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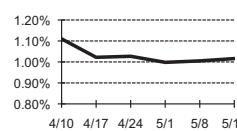
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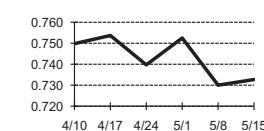
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May 15



Real Tetrault, president of Emerson Milling Inc. and developer of Mid Canada Transload Services Ltd., feels there is a lot of opportunity to ship products to the United States and Mexico. | PHOTO COURTESY OF MID CANADA TRANSLOAD SERVICES LTD.

GRAIN TRANSPORTATION

Transload facility set for Man.

Access to two railways and proximity to the border was the deciding factor in location selection

BY BRIAN CROSS
SASKATOON NEWSROOM

Agricultural shippers in southern Manitoba will soon have access to a new transload terminal that offers direct rail access to markets in Canada, the United States and Mexico.

Mid Canada Transload Services Ltd. is building a new inland port and rail siding near Letellier, Man., 11 kilometres north of the Canada-U.S. border.

The facility will be one of the largest privately owned inland ports in the province, says project proponent Real Tetrault.

It will be located beside Highway 75, which is the Manitoba trucking industry's busiest export corridor.

It will also have access to Canadian National Railway and Burlington Northern Santa Fe and will offer daily rail service to and from the U.S. and Mexico.

"We're planning one mile of rail siding," said Tetrault, who is also president of Emerson Milling,

located just a few kilometres away at Emerson, Man.

"At this point, we're going to put up hopper bins and grain legs and scales," he said.

"We feel that there's lots of opportunity south of the border (to U.S. destinations and Mexico)."

The facility will initially include a few hundred thousand bushels of storage.

Services will be offered to individual producer car loaders as well as other shippers, both agricultural and non-agricultural.

"We're looking at a modular type of development that can be expanded over time," Tetrault said. "As business comes, we will develop the site more and more."

Tetrault said Emerson Milling will also relocate its operations to the site.

A firm date for relocation has not been established, but Tetrault hopes the move will take place within the next two years or so.

Emerson Milling current plant doesn't have its own rail siding.

Oats are trucked to the plant, processed and trucked out 15 kilometres to Letellier, where they are loaded onto rail cars.

Relocating operations to the new Mid Canada site will allow Emerson to load oat products directly onto rail, reducing handling costs and increasing load-out efficiency.

"We've been looking for a new location for quite some time now where we could expand our plant and have direct rail access," Tetrault said.

"We were looking at locations in Saskatchewan and elsewhere in Manitoba, but we eventually decided that the best place for us was right here at Emerson, where we have a rail interchange with BNSF and CN."

Tetrault said Emerson had considered moving to Humboldt, Sask., but disruptions to rail service during the winter of 2013-14 reinforced the importance of operating near a rail interswitch location.

"That rail car shortage (in 2013-14) showed us that we can't be

limited to one railway," Tetrault said.

"With the interswitch location at Emerson, that opens the door to having more shipping options, and that's the key to our future."

Tetrault also plans to expand into "identity preserved" grain markets, a niche he believes large grain handling companies are less inclined to get involved in.

Manitoba Growth, Enterprise and Trade Minister Cliff Cullen welcomed the new investment.

"Cross-border trade is vital to the growth and prosperity of Manitoba's economy," said Cullen in a news release.

"This development is strategically positioned with direct links to international markets. Manitoba producers, processors and small and mid-size shippers will benefit from the opportunities this new inland port will provide."

Mid Canada Transload is expected to start operating in October.

brian.cross@producer.com

AG STOCKS MAY 8-12

A surprise drawdown in U.S. crude stocks lifted oil prices. Poor quarterly results at U.S. department store chains weighed down U.S. stock markets. For the week, the TSX composite fell 0.3 percent, the Dow fell 0.5 percent, the S&P 500 lost 0.4 percent and the Nasdaq rose 0.3 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	41.96	42.43
AGT Food	TSX	25.31	30.21
Bunge Ltd.	NY	69.93	69.53

RAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	1.18	1.26
Cervus Equip.	TSX	12.00	12.80
Input Capital	TSXV	1.91	2.13
Rocky Mtn D'ship	TSX	9.86	9.30

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	37.46	37.74
Hormel Foods	NY	34.41	34.75
Lamb Weston	NY	42.20	41.57
Maple Leaf	TSX	33.79	34.27
Premium Brands	TSX	85.28	86.32
Tyson Foods	NY	58.24	63.33

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	58.82	55.85
AGCO Corp.	NY	63.74	64.00
Buhler Ind.	TSX	4.51	4.65
Caterpillar Inc.	NY	100.71	99.64
CNH Industrial	NY	10.72	11.03
Deere and Co.	NY	113.11	113.11

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrum	TSX	124.67	124.96
BASF	OTC	98.10	99.65
Bayer Ag	OTC	127.54	127.39
Dow Chemical	NY	62.04	63.09
Dupont	NY	79.30	81.14
BioSynt Inc.	TSXV	7.86	7.80
Monsanto	NY	116.22	116.20
Mosaic	NY	22.91	23.45
PotashCorp	TSX	22.37	22.49
Syngenta	ADR	92.81	93.50

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	101.66	101.87
CPR	TSX	213.10	211.27

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.

STORAGE LACKING

New potash player K+S will face warehouse squeeze

WINNIPEG (Reuters) — Germany's K+S AG will crack into the U.S. fertilizer market this spring when it opens the first new western Canadian potash mine in nearly five decades.

However, the fifth-largest global potash seller faces a stiff challenge before it makes a single delivery: where to store the pink granular nutrient until farmers need it.

PotashCorp, Agrium and Mosaic already dominate the U.S. market for potash. It's also saturated: pot-

ash prices are near nine-year lows.

Not only do these market leaders have an ample supply of potash, they also boast a string of warehouses built strategically across the Midwest, where they can quickly distribute their product to U.S. farmers, who have a narrow window every spring to fertilize.

K+S, which opened its Legacy mine this month in Saskatchewan, said it is still in the "planning phase" of a warehouse network with Koch Industries Inc., which

will sell K+S potash in the United States under a marketing agreement.

K+S spokesperson Michael Wudonig said the company is confident it will find sufficient storage.

Investors don't have a clear understanding of K+S's missing warehouse link as it opens Legacy, according to analyst Charles Neivert, who covers the fertilizer industry at Cowen.

"How are they going to get into a U.S. market that effectively is

grossly over-supplied already and isn't growing? Where are they going to find room to put the (potash)?" Neivert said.

K+S's success in distributing potash has big market implications, given there is already a glut of global capacity. Even more potash from Legacy will threaten a modest price recovery seen so far this year.

Since K+S broke ground on Legacy, U.S. potash prices have fallen roughly in half to around \$250 per

tonne, according to data published by BMO.

Potash Corp, Agrium and other potash players dominate the U.S. market by leveraging their own warehouses and longtime leases with others to position potash for just-in-time application by farmers.

The alternative is relying on the 10-to-14-day railway trip for potash to move from mines in Saskatchewan to buyers in the Midwest and northern Plains.

FARM MANAGEMENT

Mixing family and farm business can be tricky

PERSPECTIVES ON MANAGEMENT



TERRY BETKER

Family can be a wonderful thing. When I ask farm families to list what they value most, "family" usually makes the top three, if not the top.

However, mixing family and business can be tricky. It can be a strength and a weakness.

- The strength is the support family can give individuals and the business to help it through difficult and stressful times. Family resources can help to capitalize on opportunities that arise.
- The weakness can arise when there is too much focus on family and not enough on the business. There's a saying that comes to mind: farming as a way of life can make a poor business, whereas farming as a business can make for a great life.

Farm businesses are becoming more complex in the way ownership is structured, who the owners are and how they are managed. Management needs the most attention.

It's important to understand how the business is managed, who does what, who's responsible for what and how decisions are made.

Families can benefit by coming to a consensus on what management is needed for the future. This is tricky because there is no single correct way of doing it, and family members sometimes have differing opinions.

As well, businesses, including farms, typically outgrow management.

For farms, growth usually is operationally driven, such as more acres or more animals. At some point though, managing growth needs to extend beyond an operation's focus and integrate finance, marketing and human resource management.

And there's the challenge: finding the balance between the need to apply a more rigid and business-like approach to integrated management and family interests that may extend beyond "business."

Family can be described as a system with a primary purpose of developing and promoting self-esteem and sharing common values. Each family operates with its own style, role relationships, rules and ways of dealing with challenges that come from managing relationships.

In extended farm families, there are more and different relationships to manage. In fact, for many farm families, there are, or soon will be, structures where cousins and nephews or nieces are involved.

In contrast, a business system's primary purpose is to use resources to make a profit. Combining a family with a business blurs the lines that distinguish one system from the other.

The accompanying illustration is adapted from work done by John L. Ward, who has written several

books on families in business. They are easy to read, not long and have application to farm families.

Ward presents a continuum to bring understanding to the challenges families face in trying to balance business and family interests.

The business will eventually fail when too much focus is placed on family. Conversely, an extreme focus on the business will eventually result in its sale as family members choose not to be in "business" together. The challenge is finding and maintaining the balance somewhere between the extremes.

For most farms, the balance is not static. Circumstances change, situations evolve and challenges and opportunities arise.

A farm family in business works through life cycles that affect the balance. The focus will need to swing more to one focus or the other at different points in time.

Finding and maintaining a healthy balance is key, but not easy.

A good first step is working within the family to agree on where people think they currently sit on the continuum.

A logical next step is to determine the balance that the family should work toward.

This needs commitment and actual work on the issue. Understanding and consensus will not happen by itself.

It helps to separate business from emotion, but this can be challenging, depending on the business

issues or situations at hand.

It is powerful to have written and shared personal, family and business goals and to have a written common purpose or vision that defines what the farm and family are working toward.

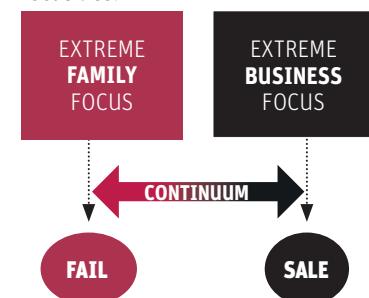
This is extremely important work for many farm families, especially those with visions of generations being in business together into the future.

Finding and maintaining the right balance will enhance the likelihood of achieving successful outcomes.

Terry Betker is a farm management consultant based in Winnipeg. He can be reached at 204-782-8200 or terry.betker@backswath.com.

WHERE'S THE FOCUS?

Most family businesses fall on a continuum based on values, vision, life cycles, lifestyles and other factors. The success of the family business depends on where the focus lies:



Source: John L. Ward | WP GRAPHIC

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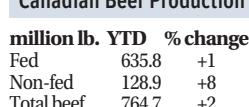
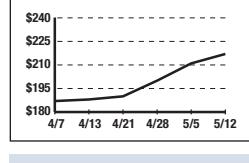
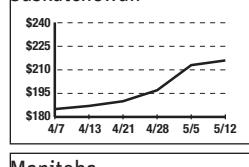
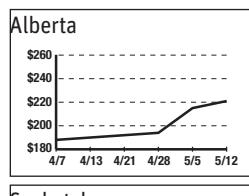
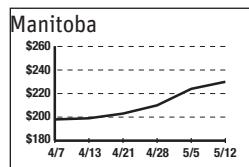
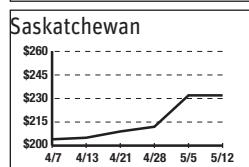
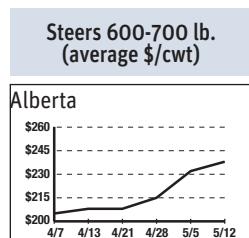
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INNOVATION COLLABORATION EDUCATION

CATTLE & SHEEP



Slaughter Cattle (\$/cwt)					
Grade A	Live May 5-11	Previous Apr 28 - May 4	Year ago	Rail May 5-11	Previous Apr 28 - May 4
Steers					
Alta.	178.50-185.00	187.25-198.50	n/a	294.50-305.00	302.50-308.50
Ont.	164.91-184.67	159.65-176.46	139.79-156.27	290.00-300.00	280.00-286.00
Heifers					
Alta.	178.50-185.00	195.00	n/a	294.50-305.00	302.50-307.00
Ont.	162.81-181.79	156.03-177.09	143.91-160.38	289.00-299.00	279.00-285.00

*Live f.o.b. feedlot, rail f.o.b. plant.

Feeder Cattle (\$/cwt)			
	Sask.	Man.	Alta.
Steers			
900-1000	170-190	162-188	180-191
800-900	183-209	185-210	191-208
700-800	205-225	204-227	207-229
600-700	223-249	217-244	227-251
500-600	236-264	230-266	237-262
400-500	238-269	240-279	243-266
Heifers			
800-900	173-194	170-188	178-191
700-800	191-210	182-203	190-207
600-700	197-219	192-215	201-224
500-600	207-231	200-234	210-233
400-500	211-235	217-242	219-245
Bulls	1,085	986	1,057

Cattle Slaughter					
To May 6	Fed. inspections only	Canada	U.S.		
To date 2017		901,221	11,233,000		
To date 2016		847,379	10,620,000		
% Change 17/16	+6		+5.8		

Chicago Futures (\$US/cwt)					
Close May 12	Close May 8	Trend	Year ago		
Live Cattle					
Jun	125.18	127.78	-2.60	123.43	
Aug	121.78	123.25	-1.47	118.73	
Oct	118.13	119.08	-0.95	117.98	
Dec	118.38	118.70	-0.32	116.93	
Feb	118.20	118.90	-0.70	115.65	
Feeder Cattle					
May	144.55	156.65	-12.1	147.05	
Aug	151.83	155.95	-4.12	146.25	
Sep	151.93	154.18	-2.25	144.23	
Oct	151.13	151.45	-0.32	142.38	
Nov	149.18	151.45	-2.27	138.75	

Beef Cutout (\$/cwt)					
May 11	May 4	Yr. ago	May 11	May 4	Yr. ago
US Choice (U.S.)	246.86	235.58	214.46		
Cdn AAA (C.S.)	n/a	n/a	n/a		

Sheep (\$/lb.) & Goats (\$/head)					
May 8	Apr 24		May 8	May 1	
Wool sheep	2.49-3.00	2.40-2.70			
55-69 lb	2.41-2.76	2.31-2.70			
70-85 lb	2.04-2.41	2.03-2.30			
86-105 lb	1.99-2.10	-			
> 106 lb	-	-			
Beaver Hill Auction Services Ltd.					
New lambs	3.00-3.20	2.90-3.13			
65-80 lb	2.92-3.14	2.70-2.90			
80-95 lb	2.94-3.14	2.60-3.00			
> 95 lb	2.93-3.10	2.80-2.90			
> 110 lb	2.40-3.00	1.40-2.10			
Feeder lambs	2.40-3.00	2.70-3.00			
Sheep	1.10-1.20	1.15-1.25			
Rams	1.10-1.20	1.10-1.20			
Kids (head)	95-170	90-165			
Ontario Stockyards Inc.					
Wool lambs <80 lb	-	2.50			
Wool lambs 81-95 lb	-	2			

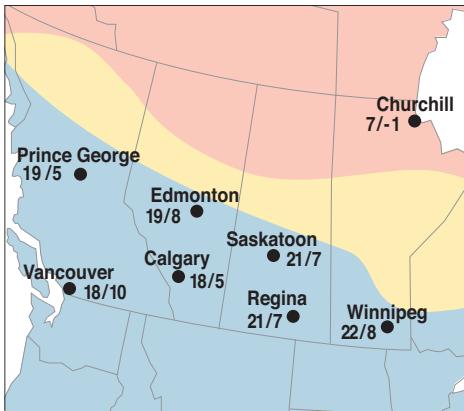
SPRING DANCE

Male sharp-tailed grouse, Saskatchewan's provincial bird, perform their mating dance to attract females. |
MICKEY WATKINS PHOTO



TEMPERATURE FORECAST

May 18 - 24 (in °C)



TEMP. MAP

Much above normal
Above normal
Normal
Below normal
Much below normal

PRECIP. MAP



PRECIPITATION FORECAST

May 18 - 24 (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)

LAST WEEK'S WEATHER SUMMARY ENDING MAY 14

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	26.8	2.1	6.4	39.9	93
Broadview	20.3	-0.5	6.3	25.4	53
Coronach	28.8	-1.5	4.7	45.1	94
Eastend Cypress	27.8	1.1	2.2	45.0	100
Estevan	23.7	1.2	12.4	35.2	74
Maple Creek	27.0	3.0	5.2	49.5	118
Meadow Lake	20.3	3.0	27.5	85.5	233
Melfort	14.5	-0.4	23.1	62.8	159
Nipawin	13.6	-1.2	31.7	74.5	197
North Battleford	20.8	-1.4	22.8	60.6	163
Prince Albert	17.7	0.5	33.9	75.6	184
Regina	24.0	-1.3	3.0	23.9	58
Rockglen	27.6	2.2	2.6	37.3	85
Saskatoon	20.4	0.7	24.1	62.9	166
Swift Current	26.5	2.8	2.2	32.5	84
Val Marie	29.5	-1.5	0.0	36.3	94
Wynyard	17.6	-0.8	5.0	28.0	71
Yorkton	20.6	-1.6	3.8	32.6	77

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	27.1	1.5	7.4	37.1	92
Calgary	22.8	2.5	4.0	60.3	126
Cold Lake	20.5	2.2	29.7	106.9	271
Coronation	24.1	0.0	3.0	36.1	96
Edmonton	24.7	-1.3	8.0	63.9	134
Grande Prairie	23.2	-2.1	26.8	82.1	234
High Level	20.3	-1.0	15.1	19.5	74
Lethbridge	27.2	-0.3	10.3	54.4	119
Lloydminster	21.4	1.3	30.8	86.1	205
Medicine Hat	28.0	2.8	22.9	71.5	184
Milk River	28.1	-1.3	3.7	67.0	127
Peace River	21.3	-1.4	55.7	87.3	262
Pincher Creek	23.0	-0.2	0.2	77.2	116
Red Deer	23.7	-2.4	8.5	38.9	80
Stavely	21.7	1.0	0.6	95.1	185
Vegreville	24.4	3.3	33.9	103.8	245

All data provided by Agriculture and Agri-Food Canada's National Agroclimate Information Service: www.agr.gc.ca/drought. Data has undergone only preliminary quality checking. Maps provided by WeatherTec Services Inc.: www.weathertec.mb.ca

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brandon	23.7	-1.4	6.6	26.7	52
Dauphin	17.0	-3.0	20.3	31.2	60
Gimli	19.9	-2.5	10.2	63.3	138
Melita	23.9	2.5	2.8	27.7	57
Morden	24.7	-0.6	4.1	14.4	25
Portage La Prairie	23.5	0.1	13.3	48.8	84
Swan River	14.2	-3.7	15.3	41.1	82
Winnipeg	23.1	-3.8	3.0	34.7	65

BRITISH COLUMBIA

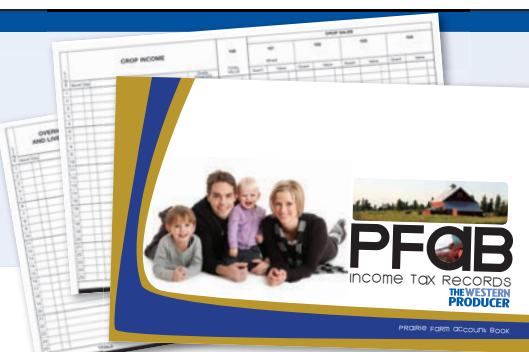
	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	22.1	-2.2	7.2	59.8	137
Fort St. John	18.4	0.0	57.3	135.0	409
Kamloops	22.4	2.1	8.8	37.8	146
Kelowna	20.9	-0.3	17.3	74.9	189
Prince George	17.3	0.2	21.1	133.5	256

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