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PRAIRIE WEATHER

Windy spring blows in trouble

BY SEAN PRATT
SASKATOON NEWSROOM

Unusually strong and persistent winds are wreaking havoc on farms across the Prairies this growing season.

Last week a line of strong thunderstorms that formed in the northern foothills of Alberta swept across the southern part of the province and into Saskatchewan, leaving behind a trail of demolition.

Wind gusts were recorded as high as 124 km-h in Maskwacis, Alta.

Nikki Szakaly, an adviser with Agri-Trend, said it went from being a calm day in Red Deer to gusts of 111 km-h in short order.

"It kind of comes out of nowhere. You don't expect it and all of the sudden you're trying to move equipment and make sure animals are in the right place," she said.

The storm knocked down trees, destroyed fences and blew shingles off homes and outbuildings.

"We had one neighbour who actually lost three-quarters of a roof off his main machine shed," said Szakaly.

The roof catapulted across the farmyard and into a main power line.

"That took out the power for everybody for almost two days in the area," she said.

The winds whipped wheat and barley crops around with winter wheat suffering the most damage. Canola stems were snapped off and plant populations were thinned.

SEE WINDY SPRING, PAGE 4 >>

CANADA'S FARM PROGRESS SHOW 2017



Producers from across Western Canada, Montana and the Dakotas were in Regina for the 40th annual Canada's Farm Progress Show last week. Attendees from 51 other counties were there as well, checking out the wares of more than 700 exhibitors. SEE MORE FROM THE SHOW ON PAGES 12, 13 AND 51. | MICHAEL RAINE PHOTO

CROP DISEASE

Research success could speed hybrid crop work

BY SEAN PRATT
SASKATOON NEWSROOM

Tim Sharbel is working on a "totally disruptive" breeding technique that could transform agriculture.

"If this works this is one of those dream technologies, the golden ring," said the director of the seed and developmental biology program at the Global Institute for Food Security.

"It's worth billions. Whoever cracks this is going to win the Nobel Prize. That's where it's at."

Sharbel and his team are attempting to introduce the apomixis trait into food crops. Apomixis is a naturally occurring phenomenon in plants like Kentucky bluegrass, St. John's wort and buttercups that allows plants to reproduce seeds asexually.

The trick is identifying what genes in apomictic plants are responsible for the process because they are "weird" plants that are hard to figure out.

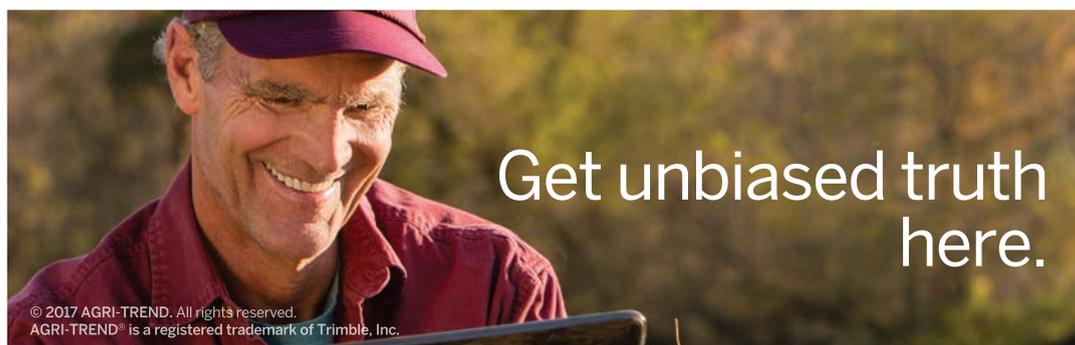
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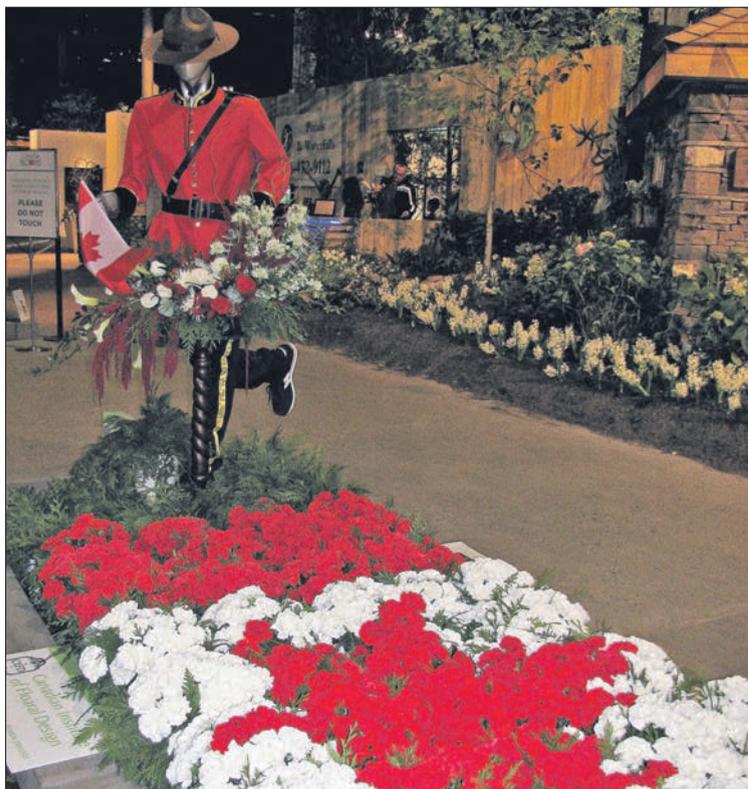


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FEATURES



WEEVIL DAMAGE POLL
Forage experts say this is one of the worst years for weevils in recent history, and damage is already showing up in some fields. How are your crops doing?



OYF VIDEO INTERVIEW
WP reporter Karen Briere talks with Saskatchewan's outstanding young farmers for 2017, Derek and Tannis Axten from Minton, Sask.



IT'S NOT A TRACTOR
It's like nothing you've ever seen before and The Western Producer has exclusive coverage prior to its public debut at Ag in Motion in July. Meet DOT.

VIDEOS

FLYING FARMERS
A group of farmers from Fairview, Alta., have spent 10 years working to restore a Canso PB5-5A.



PLANTER/DRILL
The Prince family wasn't satisfied with their seeder. So they designed and built their own.



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A farmer cut alfalfa June 22 near St. Lupicin, Man. Growers have been urged to take quick action if they find alfalfa weevils in their crop. | JEANNETTE GREAVES PHOTO

AGRONOMY

Weevils threaten alfalfa crop

Forage experts say this is one of the worst years for the pest in recent history

BY ROBERT ARNASON
BRANDON BUREAU

Prairie growers should be checking their alfalfa fields for alfalfa weevils as soon as possible, say forage experts in Manitoba and Saskatchewan.

If weevil larvae numbers are high, the alfalfa crop should be cut immediately, weather permitting.

If that's not possible, growers should consider a pesticide application.

"There are many alfalfa fields where if it's not hayed or sprayed, very soon, there will be quite significant damage," said Lorne Klein, Saskatchewan Agriculture's forage specialist in Weyburn, Sask.

Adult alfalfa weevils lay eggs on the alfalfa plants in the spring. The larvae that emerge from the eggs feed on the leaves and growing points of the alfalfa plants.

If the infestation is severe and no action is taken, the larvae will consume most of the leaves and chew on the growing point, stunting growth.

"It's not going to grow any taller because they (will) continue to eat the growing points," said Jane Thornton, a Manitoba Agriculture forage specialist who spoke at a June 22 Manitoba Beef & Forage Initiative field tour in Brandon.

"In the last week or week and a half, we're starting to see the damage.... If you see that damage at the tips, I'd be very tempted to ... go cut it."

Klein said cutting the alfalfa stops the feeding because the larvae need green, growing plant tissue.

Manitoba Agriculture said in its June 19 crop report that alfalfa



Manitoba Agriculture forage specialist Jane Thornton, right, says weevil damage is already showing up in some fields. | ROBERT ARNASON PHOTO

weevils have been detected in the southwest, the Parkland region and the Interlake.

Klein said populations are high in southeastern and southwestern Saskatchewan, and he's heard reports of weevil damage in the Yorkton area.

He's been scouting for weevil larvae since the middle of June with sweep nets.

Growers don't need to worry if a single sweep produces four or five larvae.

"But if you're getting 40 or 80 per sweep, if you let that run its course, you're going to have very significant damage," he said.

If a grower doesn't have a sweep net, there is another way to count the number of green larvae, which have a white stripe down the back and a black head.

Thornton grabbed a handful of alfalfa plants during the field tour and banged the plants on the side of a white bucket. The larvae fell off the plants and could be seen at the bottom of the pail.

The forage specialists said this is one of the worst years in recent history for alfalfa weevils, but it's hard to know why.

Thornton said last year's warm fall may have boosted weevil numbers, increasing the popula-

tion that overwintered in 2017.

However, it seems like the problem is getting worse. Fifteen years ago weevils would damage a patch within an alfalfa field.

"Now, when I see it, often I'm seeing an entire 80 acres infested," Thornton said. "This is about as bad as I've seen it."

Manitoba's Interlake has a number of growers who produce alfalfa seed. Thornton said those producers might need to spray an insecticide because the plants won't flower if a weevil infestation is severe.

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LAWSUIT

Syngenta ordered to pay over GM corn

U.S. court fines chemical company \$217.7 million

(Reuters) — A U.S. jury has ordered Syngenta AG to pay \$217.7 million to more than 7,000 Kansas farmers over its decision to commercialize a genetically modified strain of corn before China approved importing it.

The June 23 verdict by a federal jury in Kansas City, Kansas, was announced by lawyers for the farmers, who blamed the Swiss company for causing catastrophic damage to them after Chinese officials began refusing U.S. corn shipments in 2013.

Their case was the first to go to trial. Thousands of other corn producers and traders are also seeking damages over China's non-approval of the company's corn seeds for importation.

Lawyers for the corn producers said in a statement that the verdict was "only the beginning." They have claimed that damages for farmers nationally totalled \$5.77 billion, according to court papers.

Syngenta said it will appeal the verdict, which included only compensatory damages and no punitive damages.

"We are disappointed with today's verdict because it will only serve to deny American farmers access to future technologies even when they are fully approved in the U.S.," Syngenta said in a statement.

Syngenta began selling a strain of insect-resistant GM corn called Agrisure Viptera in the United States in 2010. It started selling a second strain called Agrisure Duracade in 2013.

In their lawsuit, the Kansas corn farmers accused Syngenta of negligently commercializing the corn seeds before obtaining export approval in China, a major importer.

In 2013, Chinese officials detected Viptera in U.S. corn shipments. The country began rejecting shipments containing millions of tonnes of U.S. corn because they contained the strain, which was unapproved for import, the farmers said.

Nearly 90 percent of corn in the United States is now genetically modified, according to the U.S. Department of Agriculture.

The loss of the Chinese market caused U.S. corn prices to plummet, leading to more than \$5 billion in losses for corn producers, the farmers' lawyers said. China did not approve Viptera until December 2014, while Duracade is still pending approval.

Syngenta denied wrongdoing. It said at the time that no company had ever delayed launching a U.S. approved corn product in the U.S. just because China had yet to approve its import.

It also said the decline in sales to China was offset by exports to other countries.

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





CLOSE INSPECTION | Mae Elsinger, range management biologist with Agriculture Canada in Brandon, shows a larvae gnawing on a leafy spurge plant. Elsinger was one of the featured speakers at the Manitoba Beef & Forage Initiative field day, held June 22 near Brandon. The MBFI is studying ways to control leafy spurge, including the role of beneficial insects. | ROBERT ARNASON PHOTO

FORAGE

Palmer amaranth: weed seed doppelganger

Similarity between noxious American weed and redroot pigweed a concern for Canadian forage growers

BY BRIAN CROSS
SASKATOON NEWSROOM

Concerns over the presence of Palmer amaranth in the United States are beginning to reverberate through the Canadian forage seed industry.

Palmer amaranth is an invasive weed common throughout much of the U.S. Its presence has not been confirmed on the Canadian Prairies but south of the border, its destructive potential is widely known.

The weed has already been identified in South Dakota and growers in North Dakota are on high alert.

Palmer amaranth has been designated a prohibited noxious weed in Minnesota and Ohio, meaning the presence of a single seed in a shipment of commercial forage seed could disrupt trade and cause significant economic damage to the Canadian forage seed industry.

To make matters worse, Palmer amaranth seeds are visually indistinguishable from the seeds of redroot pigweed, a well-established weed in

many parts of Western Canada.

Paul Gregory, a seed marketer and retired forage seed producer from Fisher Branch, Man., said forage seed growers in Canada must be aware of Palmer amaranth and its similarities to redroot pigweed.

"In Canada, there are a lot of forage seed producers that aren't even aware of this (situation)," said Gregory, who runs Interlake Forage Seeds.

"It's kind of scary to think that a couple of redroot pigweed plants could potentially take out a quarter-million dollars of your farm income, or at least a significant part of it."

"This has the potential to impact forage seed growers right across Canada ... so it's probably good for all producers to know about this."

Palmer amaranth is a type of pigweed.

The fast-growing species has the potential to produce up to a million weed seeds per plant. The species can be extremely hard to control if left unchecked.

Glyphosate-resistant popula-

tions have been documented in several U.S. states. New herbicide chemistries and weed control platforms are being developed to control the species in corn and soybean crops.

Palmer amaranth has already emerged as a significant problem on land under the U.S. federal Conservation Reserve Program (CRP).

American weed scientists attribute its spread to a number of factors, including contaminated grass seed supplies that were planted on CRP lands.

Gregory thinks heightened awareness of the Palmer amaranth threat in the U.S. has potential to disrupt Canadian forage seed exports.

Because seeds from Palmer amaranth and redroot pigweed are visually indistinguishable, forage seed supplies that contain a single redroot pigweed seed could cause costly trade disruptions or lost sales, he said.

"There is (a diagnostics company) that will charge \$250 per seed to do genetic testing... but I'm finding that

most companies just don't want to deal with that," Gregory said.

"Even if you can properly identify the seed as pigweed, not Palmer amaranth, it still takes time and it's expensive.

"It (genetic testing) opens up a can of worms that nobody wants to get into, so it's much better to ensure that your forage seed is pigweed free."

Typically, the vast majority of pigweed seeds are removed from grass or forage seedlots during cleaning.

However, it can be difficult to remove all weed seeds because of their size. Pigweed seeds are small and can become lodged in the awns of certain grasses.

Earlier this year, the Manitoba Forage Seed Association published an article in its newsletter warning producers about potential confusion between Palmer amaranth seeds and redroot pigweed seeds.

According to the article written by MFSA administrator Heather McBey, Minnesota law prohibits the sale of any agricultural seed

containing a single prohibited noxious weed seed. Ohio prohibits the sale of seed that contains small amounts of restricted weed seeds.

"Although Palmer amaranth has not been confirmed as being present in the Canadian Prairies, it is a weed noteworthy of producers' concern as customers will be wary of any shipment containing pigweed," McBey wrote.

"This may limit the marketability or cause outright rejection of your lot of seed."

Kyle Willis, president of the MFSA, said he is not aware of any incidents where a shipment of Canadian forage seed to the United States was rejected due to the presence of pigweed.

However, he said forage seed growers should take extra precautions to eliminate pigweed from forage stands.

Producers should also ensure that seed lots are thoroughly cleaned and free of pigweed.

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WINDY ON THE PRAIRIES

Data from Environment Canada shows that the recorded monthly average sustained wind speed increased across most of the Prairies in May and June compared to 30-year normals.

Recorded wind speeds (all in km-h)	APRIL			MAY			JUNE		
	normal for month	2017 avg. speed	departure from normal	normal for month	2017 avg.	departure from normal	normal for month	2017 avg. speed*	departure from normal
Calgary	16.1	12.7	-3.4	16.1	14.3	-1.8	15.0	16.0	+1.0
Edmonton	14.3	13.7	-0.6	15.0	16.0	+1.0	12.9	16.3	+3.4
Regina	20.2	20.5	+0.3	20.4	21.7	+1.3	18.3	21.2	+2.9
Saskatoon	16.8	18.5	+1.7	17.2	18.8	+1.6	16.0	18.6	+2.6
Winnipeg	18.5	18.7	+0.2	18.4	19.8	+1.4	16.3	18.4	+2.1
Brandon	15.9	17.2	+1.3	16.8	19.6	+2.8	14.9	17.7	+2.8
AVERAGE	17.0	16.9	-0.1	17.3	18.4	+1.1	15.6	18.0	+2.5

Source: Environment Canada | WP GRAPHIC

* data until June 21

WINDY SPRING

» CONTINUED FROM PAGE 1

It was the second nasty storm to hit Red Deer this growing season. Crops were stressed and sedate for about a week following the first storm.

"They kind of go into stress mode and don't want to do a whole lot of growing," said Szakaly.

The June 20 storm was an extreme case but in general it has been a blustery spring.

An analysis of Environment Canada weather data from six major centres across the Prairies shows that hourly average sustained wind

speeds were one km-h higher than the 30-year average in May and 2.5 km-h higher than normal during the first 21 days of June.

"That doesn't sound like a lot but when you're talking about average wind speed, a difference of (2.5) km-h is quite a bit," said Environment Canada meteorologist John Paul Cragg.

"It has been a windier June than average for sure so far across the Prairies."

Shannon Friesen, acting cropping management specialist with Saskatchewan Agriculture, said

CONTINUED ON NEXT PAGE »

DISEASE SURVEILLANCE

Feed imports not high risk for FMD: CFIA

BY ROBERT ARNASON
BRANDON BUREAU

U.S. research has shown that imported feed ingredients, including soybean meal, could transport foreign animal diseases into North America.

However, the Canadian Food Inspection Agency isn't especially worried about imports of soybeans or soybean meal from places such as China or India because those feed ingredients are unlikely to be infected with a hazardous virus.

"The high risk commodities would be (products) that would have come in contact with diseased animals or diseased tissue," said Michelle Illing, director of the CFIA's animal feed division.

"Soybeans wouldn't be our number one (vector) of concern for foreign animal diseases. It would be contaminated soils, animal products and animal byproducts (and

feed from animal origin."

Scott Dee, a Minnesota veterinarian specializing in disease transmission, has concluded in an unpublished study that imported feed ingredients could transport foot-and-mouth disease from foreign countries to North America.

Betty Althouse, Saskatchewan's chief veterinarian, said Dee's work shows that pathogens can survive in imported feed and feed ingredients. Therefore, the CFIA needs to carefully assess the risk associated with imported feed.

"They need to be sure they are taking into account the newest science and newest research."

Illing said she's not convinced imported feed ingredients are a priority concern.

Canada does import soybeans and soybean meal from India and China, where foot-and-mouth and classical swine fever are commonplace.

However, Illing said that's not a reason to ban feed imports.

"It's not just the presence of a disease in another country that determines whether we import products from them. There are a lot of other things that go into our risk-based approach ... which would include country assessment of the risk of introducing foreign animal diseases through those commodities," she said.

"The question would be, does the feed come in contact with contaminated product?"

In the case of soybeans or soybean meal, it's unclear how those products would be contaminated with a disease virus.

"I'm not sure why you pick those ingredients (to study). They don't seem like high risk ingredients," Illing said.

"The high risk material is the animal product and byproducts. And we regulate those and absolutely ban materials from coun-

tries ... where those risks are unacceptable."

Althouse said Canadian companies and livestock producers choose to import feed, both conventional and organic, because it's cheaper.

"Sometimes organic feed ingredients are in shorter supply here and they are sourced from out of country."

She said Canadian farmers and veterinarians should be talking about feed risk and steps to reduce the risk.

"What mitigations measures they can do?" she said. "What ingredients do they want to include or exclude from feed?"

Producers should be thinking about the risks and benefits of imported feed, but the CFIA should also be reviewing the risk of certain feed ingredients, Althouse added.

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RESEARCH SUCCESS

» CONTINUED FROM PAGE 1

"It's a long shot. It's basically like finding a cure for cancer," said Sharbel. "But if we nail it, agriculture is going to be flipped on its head. We will change everything."

The trait would allow companies to produce hybrids in about one-eighth the time it takes today. And it would give farmers the ability to use farm-saved seed and get the same hybrid vigour year after year.

Sharbel has identified two genes from a boecheera plant, which is a cousin of wild cabbage and canola, that he hopes might be the key to introducing the apomixis trait in a variety of crops. His lab has inserted the candidate genes called Apollo and Upgrade into brassica and corn crops to see if they confer the ability of asexual reproduction on the crops.

"We're actually going to be analyzing the results very soon, so keep your fingers crossed," he said.

Sharbel doubts the genes will immediately transform the plants into 100 percent asexual crops right off the bat. But he is hoping for some signs of asexual reproduction, which would provide proof of concept and attract more funding.

A number of PhD students from the University of Saskatchewan have been analyzing all sorts of aspects of the patented Apollo gene and the data indicates it plays an important role in the apomixis process.

"We've got our foot in the door definitely," said Sharbel.

His lab is one of many around the world working on introducing the apomixis trait to agricultural crops.

One of the game changers apomixis offers agriculture is that it gives farmers the ability to save hybrid seed and reuse it without losing hybrid vigour because each seed is a clone of the parent plant.

"It sounds bad for companies but actually companies are terribly interested in this," he said.

"They're going to have to completely change their business models. It will become like MP3 technology."

To create hybrid vigour today, seed companies must inbreed plant populations for a minimum of eight generations to get the highly homogenized plants they need.

"The technology behind it is quite complex and expensive," said Sharbel.

What the apomixis trait does is takes the sex out of plant breeding. The female plant produces offspring that are genetic clones without any fertilization from the male.

So if a crop breeder discovers a plant with a desired trait, they can use the apomixis trait to turn off the sex switch in that plant and lock in that desired trait.

It means seed companies would be able to churn out new and improved varieties in a fraction of the time it currently takes.

"Your ability to produce a genetic variant that is useful for farmers goes from eight to 10 years down to one to two years," said Sharbel.

"Time is money."

The technology would also allow companies to create hybrids in crops where it is impossible today, such as lentils and chickpeas.

The best case scenario for when the technology is ready would be five years, but that is unlikely.

"It all depends on the nature of what we find," said Sharbel.

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LET'S DO THIS



Dakota Longman and her horse, Blitz, were in complete concentration earlier this month as they competed in the pole bending gymkhana event during the Red Deer River Saddle Club Western Round-up in Hudson Bay, Sask., June 11 | DEAN MACDONALD PHOTO

there is no doubt that the howling wind is resulting in significant crop damage.

"It has whipped them around. It has created dirt and dust storms that have actually blown topsoil over the fields and into ditches. It has broken leaves and stems and it has also dried up the topsoil," she said.

The wind has also delayed herbicide and fungicide application on many farms.

Gusts of 40 to 80 km-h have been common. It has even been windy early in the morning and late in the evening.

Pam de Rocquigny, general manager of Manitoba's wheat, barley and corn associations, said the winds have damaged

some canola fields, but wheat and barley seem to have fared better.

"With some of the strong winds, we've seen what's called floppy corn syndrome, where the plants are kind of leaning over because it doesn't have a good rooting system," she said.

De Rocquigny doesn't think the damage is widespread or that much more pronounced than previous years.

That is certainly not the case in places like Red Deer. Richard Glass, turf manager with Deermart Equipment Sales, said the June 20 storm caused plenty of structural destruction on farms in the Red Deer area.

"I talked to a farmer today and

he's been trying to update his feedlot paneling, but he lost half of his fencing last night," he said.

Another producer was busy reroofing his calf shelter because the old roof ended up 350 metres away.

In some cases the damage appeared to be random.

"I had one guy that said he had 10 bins in a row and the middle one went and it had been there 30 years," said Glass.

Szakaly is worried that the windy trend will continue all summer and into harvest season, when the winds can cause massive damage.

A September 2012 plow wind caused millions of dollars of damage to crops in Alberta and

Saskatchewan, tossing canola swaths around, snapping off wheat and barley heads and causing lodging and pod shattering.

"With the way the weather has gone, it could be a bit of a wild summer," she said.

Cragg said you can't use the past to predict the future when it comes to wind. He said the breezy spring can be blamed on lots of low pressure systems lurking over the Prairies, but that doesn't mean they will stick around.

"These patterns can switch up. They're very hard to predict," he said.

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MARKETS



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PRICE RALLY

Time to put wheat money in the bank?

Analysts believe spring wheat values are high enough to start locking in part of new crop

BY SEAN PRATT
SASKATOON NEWSROOM

It is time to price a portion of this year's spring wheat crop, say analysts.

"We're getting close to where this thing could top out," said Bruce Burnett, director of markets and weather with Glacier FarmMedia June 26.

"This rally has far exceeded my expectations."

John Duvenaud, analyst with Wild Oats Grain Market Advisory, agreed that with new crop bids of more than \$7.50 per bushel, now is the time to act.

He would price some new crop but no more than 20 to 25 percent because he thinks there is potential for further upside.

"The fundamentals are real. High protein is in a shortage," said Duvenaud.

"I wouldn't be sold out, that's for darn sure."

However, he definitely would be sold out of old crop spring wheat.

"These are great prices. You've got about a \$1 (per bu.) shift here that you didn't have a month-and-a-half ago. Put the money in the bank," said Duvenaud.

Burnett agreed that old crop should all be priced by now because there's not much reward for carrying it any further.

While it is difficult to give a blanket recommendation because every circumstance is different, he feels farmers should be pricing some of this year's production, although they may not want to price too much in the form of cash contracts because there's always a quality risk with those.

He feels the market is approaching a value for spring wheat that is very healthy compared to winter wheat. He worries that North American millers and importers may be reaching the limit of what they're willing to pay for high protein wheat.

"It probably can still run up here, but I think we're going to be hitting a top in the market here soon," said Burnett.

However, he believe there is little



With new crop prices near \$7.50 per bushel, millers might be near the limit they are willing to pay. | FILE PHOTO

downside risk for spring wheat. He anticipates a healthy premium over winter wheat will remain through the first quarter of 2018 because of tightening stocks in the United States.

Duvenaud believes the drought damage in South Dakota, North Dakota and Montana has been fully priced into Minneapolis futures prices.

Jim Peterson, marketing director of the North Dakota Wheat Commission, forecasts 400 million bu. of U.S. spring wheat production, down from 534 million last year.

"In my mind there is still further



JIM PETERSON
NORTH DAKOTA WHEAT COMMISSION

room for upside," he said June 19.

From June 19 to 26 Minneapolis wheat rallied 23 1/4 cents or 3.6 percent.

Burnett noted that yields have already been set for the majority of the U.S. spring wheat crop, and any rain that falls from now on will have little impact on production.

That is not the case in Canada where most of the wheat is at the heading stage of development.

"If we were to have a problem in Canada in terms of our spring wheat, that certainly could move the market even higher," he said.

However, farmers need to remember that the world is awash in wheat, so just because high protein wheat is getting tight, it can't completely divorce itself

from the overall bearish wheat complex.

Growers who haven't priced any wheat should seriously consider doing so during the next couple of weeks because at today's prices they will make a reasonable return with average yields.

"At least price a bit here," said Burnett.

Duvenaud said the downside could be as much as \$1 per bu. if the U.S. crop turns out better than everyone is expecting.

"I'd be grabbing some of this," he said.

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DREW LERNER

Rain on its way but dry fall to come: forecaster

Weather expert expects better fall harvest conditions but says the outlook is tentative

BY ROBIN BOOKER
SASKATOON NEWSROOM

REGINA — World Weather Inc.'s Drew Lerner predicts a slightly wetter bias for much of the Prairies in July, followed by a warmer and drier than normal fall.

Lerner provided his summer-to-fall forecast to a crowd of hundreds at Canada's Farm Progress Show in Regina last week. He said two flow patterns are driving prairie weather this summer:

- A southwest to northeast flow pattern brought much needed rain in mid-June to the eastern and southwestern prairie regions.
- A northwest flow pattern has dominated prairie weather this summer. It is why many regions in the Canadian grain belt have been dry because there is no source for moisture for air coming from the north.

"As we go into the rest of the summer, at least July in particular, we are going to go back into a southwest flow pattern and that should bring us a couple more storms," Lerner said.

However, he said the southwest flow may be robbed of its moisture before it reaches Canada if the northern plains drought continues. "So just because we go into a



While some prairie regions have seen little rain in June, a flow of weather from the southwest might bring more rainstorms to the grain belt, says weather expert Drew Lerner. | GETTY PHOTO

southwest flow, that doesn't mean it will be wet," Lerner said. "I did put that on the forecast, that it will be a wetter bias, but I could be a little wrong, and it could be a little less wet than what I showed."

Most prairie regions will begin to dry down August to September, except for southeastern Saskatchewan and southern Manitoba,

which will likely see a few storms at this time.

"The rest of the Prairies will be progressively dry," he said.

"It will be west to east, so we will start drying out in Alberta fairly quick, but Saskatchewan probably won't turn very dry until we're probably done with August into early September in a significant manner."

However, he said it wouldn't take long for the existing drought conditions to get much worse if a ridge of high pressure builds up across the heart of the Prairies.

"All it would really need is several 30 degrees plus days without any rain and the game's over, almost, for some folks," he said.

"By no means, even though that's

my forecast, am I here to tell you that that's the way it's going to be. I recognize the fact that I'm on a limb, and a very thin limb at that."

The worst of the wet conditions that have plagued northern Alberta growers are over, he said.

"The big storms that have been coming along that have produced soaking rains, those should be much fewer and further between."

"And by the time we get to the end of the growing season, it will be a notably better environment."

Lerner said harvest conditions will likely be much better this year, including a first frost that is later than normal.

"What I see so far is that there is a warmer bias, and a drier bias for the harvest season in September in particular," he said. "But ... all it takes is one day of cool air and you've got a frost or freeze."

However, he said if he is wrong about July being wet and it's dry instead, then the frost freeze bias will actually swing more to an early occurrence.

"Because the air will be dry when we get into September, and any little cool air mass that comes along will drop temperatures a lot more significantly in the low humidity."

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DURUM OUTLOOK

Durum rally potential limited by large carry-in stocks

BY ROBIN BOOKER
SASKATOON NEWSROOM

REGINA — There might be a strong rally in spring wheat, but durum prices have not followed as high because plenty of durum is available, said Marty Langton, senior trader at Viterra.

"We've come off of record production pretty much everywhere around the world," Langton said at the FCC Farm Progress Forum during Canada's Farm Progress Show last week.

"Those stocks, generally they are lower quality than we probably want to mill or that millers want to put through their plants, but there is a lot of durum out there."

He said the global durum crop is

smaller this year, but the quality should be better.

"So you couple a lower volume or average volume crop with burdensome stocks from carry-out, and there is a lot of blending that can happen," he said.

"So these guys are just being patient and are waiting. There is no urgency on the end use demand side to ... chase the offer."

Langton said quality sensitive buyers that usually buy No. 1 and No. 2 amber durum have been forced to make do with lower quality durum over the past few years because of the shortage of higher quality product.

"We've almost forced their hand to look at alternatives, and they've found that they can actually meet

their end use product specs using a lesser quality durum," he said.

"Will they go back to it? Sure, if we show that we can consistently supply that, but are they going to pay big premiums over lower quality grades? Probably not."

Buyers will source the cheapest quality that they can find that still allows them to meet consumer needs, which may lessen the premium for quality durum, he said.

Vomitoxin levels have become much more important than the grade.

Farmers who decided to sit on their durum with high vomitoxin from last year will likely be happy they did so if the durum comes off this year with low vomitoxin.

"If you have a low vomitoxin crop, a

better quality crop, some of this stuff probably blends and if you can't blend it on your own farm, I'm guessing somebody in the industry might say, 'I can't give you a full No. 3 amber durum value for it but I can give you a bit of a premium because we'll take the chance on blending it,'" Langton said.

However, if the coming harvest is again plagued with vomitoxin, farmers might wish they had unloaded last year's crop, even at current prices.

"If we have a high vomitoxin crop, it's probably not the best thing to have in the bin because you're just going to add more quantity of poor quality grain with limited homes to the stockpile, and I can only see value softening again," Langton said.

He said the durum market has improved but will likely hold steady near current prices through the summer and into the fall.

"There is definitely a firmer tone to the durum market, and we've seen some rally already. A couple months ago we were seeing No. 3 amber durum for \$5.50, now we are seeing \$6, \$6.25 cents a bushel bids. I'm guessing that gets us through the summer," he said.

"I don't see a major catalyst that says durum values are going to skyrocket anytime soon, unless it just has to in order to play somewhat of a catch-up game with some of the other commodities like spring wheat that is enjoying some nice rallies right now."

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MARKET WATCH



D'ARCE McMILLAN

We hope you will turn to our website for coverage of the seeded acreage re-

ports from Statistics Canada and the U.S. Department of Agriculture this week.

They occur June 29 and June 30, after our deadline.

There is always potential for surprise in these reports, but if they show numbers similar to what the trade expects, then an interesting question develops: how high can spring wheat futures rise if corn and soybeans add no support?

The weather forecasts into July show the Midwest enjoying

favourable crop growing weather. That implies that corn will enter the important flowering period in moderate temperatures and with good moisture in much of the region.

Corn and soybean futures have already been falling, and that trend seems likely to continue as long as the weather co-operates.

Meanwhile, the U.S. spring wheat crop is suffering from drought on the northern Plains. That has driven up the new crop December Min-

neapolis futures price to about US\$6.67 a bushel.

That puts it almost \$3 higher than the December Chicago corn contract. If history repeats itself, a \$3 premium would be about as good as you can hope.

It is rare when spring wheat enjoys that much of a premium over corn. The last time was in the spring of 2014, but at that time corn was also enjoying a modest rally.

The only time in recent history that spring wheat futures indepen-

dently rallied to a \$3 premium over a falling corn market was in the fall of 2013 when the record large but low-quality Canadian crop dove up protein premiums and Argentina's wheat crop forecast was smaller than expected.

That rally lasted only a few weeks before the weight of ample supplies of other crops dragged the price down.

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

PROFITS INCREASE

Feedlot placements reach 10 year monthly high

The USDA report showed May placements up by 230,000 head, due mainly to feedlot profitability

CHICAGO (Reuters) — U.S. ranchers during May drove 12 percent more cattle into feedlots than a year earlier, the most for the month in a decade, the U.S. Department of Agriculture reported June 23, topping average predictions.

Higher cattle prices paid by packers last month generated more profits for feedlot operators, allowing them to buy more calves for fattening.

Cattle that entered feedyards last month will be ready for processing around October, analysts said.

The report was considered negative for futures prices but when the market resumed trade

June 26, prices rose as traders focused on surprisingly strong cash beef and the premium of deferred futures over the current cash cattle market.

USDA's report showed May placements at 2.119 million head, up from 1.889 million a year earlier and above the average forecast of 2.085 million.

It was the most for the month since 2.159 million in 2007.

The government put the feedlot cattle supply as of June 1 at 11.096 million head, up three percent from 10.804 million a year ago.

Analysts, on average, forecast a 2.4 percent gain.

USDA said the number of cattle sold to packers, or marketings, were up nine percent in May from a year ago, to 1.951 million head.

Analysts had projected an increase of 8.5 percent from 1.794 million last year.

"It's all about the economics of cattle feeding returns near unprecedented levels that continued to pull cattle into feedyards aggressively," said Livestock Marketing Information Center (LMIC) director Jim Robb.

LMIC calculated that feedlots in May, on average, made a profit of \$262 per steer sold to meat companies, which is "in spitting distance"

of the October 2003 record of about \$269, said Robb.

U.S. Commodities President Don Roose said that after a period of monetary losses, producers began rushing cattle to feedlots "when they saw a light at the end of the tunnel profit-wise."

Reasonably-priced feed contributed to reduced input costs for cattle feeders, which has helped support their margins, he said.

Roose noted that states in the corn belt led the way in terms of placements, which he partly attributed to animals that were displaced by drought conditions in the northern U.S. Plains.

OVERSEAS EXPANSION

Richardson buys European Oat Millers

WINNIPEG (Reuters) — Richardson International has bought European Oat Millers in a deal that expands its geographic reach.

The deal closed on June 15 and the parties did not reveal financial details.

Both are privately owned.

Richardson intends to increase manufacturing capacity of European Oat Millers, which is based in Bedford, England, and is the second-largest oat miller in Europe. It will also look for other opportunities to expand globally, chief executive officer Curt Vossen said.

Richardson owns three oat processing plants in Canada and one in the United States.

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SPEAKERS



Rob Plaice – Technical Manager

United Kingdom and Ireland, Gowan

Rob will discuss how growers in the UK are trying to manage blackgrass, which has developed resistance to multiple modes of action. Blackgrass is the "wild oat" of the United Kingdom, and Rob will share his expertise and experience.



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Landmark Farm Services, South Australia

Craig will provide an overview of what he has learned during Australia's struggles with herbicide resistance and how it applies to farmers in Canada.

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CANFAX REPORT

FED CATTLE LOWER

The fed steer weighted average was \$156.55 per hundredweight, down \$4.24, and heifers were \$155.52.

Prices edged higher early in the week, but then turned lower.

Dressed sales were reported mostly at \$263 per cwt. delivered, \$7 lower than last week.

A few Saskatchewan cattle traded. Even with Ontario prices at an \$11 premium over Alberta, cattle are still going to Alberta for slaughter rather than going east.

Most of the cattle that traded were scheduled for the middle of July delivery.

Western Canadian steer carcass weights have likely bottomed. They have risen 21 pounds from their lows in May.

With seasonally larger market-ready supplies and growing carcass weights, beef production will rise and exports will be critical in managing supplies.

Canadian beef exports to the United States for April were more than last year and the five-year average. Fed prices have dropped \$15 over the past two weeks but should stabilize this week.

Since the stronger than expected highs in May, fed prices have fallen 18 percent and are only 50 cents above the annual lows set in February. Based on second quarter data, this stands as the second largest price decline over the past 12 years, behind only 2007.

COWS STEADY

D1, D2 cows ranged \$105-\$119 to

average \$111.67 per cwt., up 37 cents.

D3 cows ranged \$90-\$105 to average \$97.63. Rail grade cows were \$207-\$212 delivered.

Butcher bull prices were steady to average \$129.05. Weekly western Canadian non-fed slaughter to June 17 fell six percent to 5,755 head.

Weekly exports to June 10 rose 18 percent to 4,259 head. For the year they are down 26 percent.

Demand remains strong.

FEEDERS LOWER

Steer calves lighter than 500 pounds last week fell \$4.50-\$5.50, while similar heifers were steady to \$2 lower.

Grass types 500-800 lb. were uneven with steers \$3-\$3.50 lower and heifers trading \$2 either side of steady. Feeders heavier than 800 lb. were steady to \$1.75 lower.



Auction volumes are starting to wind down. | FILE PHOTO

Calves were \$35-\$40 per cwt. higher than the same week last year, while yearlings were generally \$20-\$27 higher.

Volumes declined as they normally do at this time, falling eight percent from the previous week to 12,361 head. For the year they are up 19 percent.

Weekly exports to June 10 rose to 2,211 head. For the year they are down 43 percent.

Auction volumes will continue to wind down, and grass orders have mostly been filled.

Calf prices will likely soften on varied lot size and quality.

Prices for large feeders should seasonally firm, but profitability for fall-placed fed market has deteriorated.

Pending risk management, feeders that will be finished for the fourth quarter will break even at best. Cow-

calf pairs ranged \$1,900-\$3,300.

BEEF MARKET DOWN

U.S. boxed beef fell with Choice down US\$9 at \$242.88 and Select down \$4 at \$216.92 as of June 22. Beef prices usually fall as demand softens in the heat of summer.

Total U.S. beef in cold storage was down 10 percent from the previous month and 11 percent smaller than the same time last year.

Canadian prices were not available.

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

WP LIVESTOCK REPORT

HOGS STILL STRONG

Hog and pork prices rose again, which was in keeping with the usual seasonal strength but also a little higher than expected.

Wholesale pork prices tend to top out around late June after retailers fill inventories for U.S. Fourth of July holiday grilling advertisements.

U.S. pork in cold storage was down .5 percent from the previous month and down 3.9 percent from the previous year. However, the monthly drawdown is usually more than that. The market will

closely watch pork in storage. Hog production is expected to rise in the third quarter, and any backup in supply would add to the downward price pressure at that time.

U.S. hogs averaged US\$85.85 on a carcass basis June 23, up from \$84.72 June 16.

The U.S. pork cutout was \$101.15 per cwt. June 23, up from \$95.63 June 16.

The estimated U.S. weekly slaughter for the week to June 24 was 2.144 million, down from 2.179 million in the previous holiday shortened week.

Slaughter was 2.096 million last

year at the same time.

In Canada, the average Signature Five price for the week to June 24 was C\$207.56 per 100 kilograms, up from \$195.20 the previous week. On a per hundredweight basis, the average price was \$94.15, up from \$88.54 the previous week.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to \$6.30-\$6.50 per pound hot hanging weight. U.S. buyers are offering US\$4.75 or more with returns

dependent on exchange rates, quality and export costs.

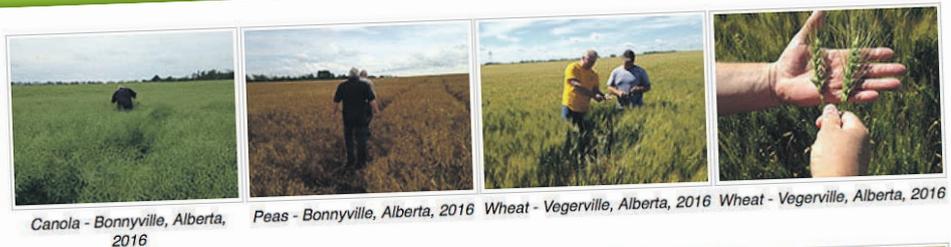
Grade A heifers sold up to C\$6-\$6.30. U.S. buyers are offering US\$4.50.

Animals outside the desirable buyer specifications may be discounted.

LAMBS STRONGER

Ontario Stockyards Inc. reported that 739 sheep and 40 goats sold June 19. All classes of lambs sold \$7-\$15 cwt higher. Good sheep sold \$5-10 higher. Goats sold steady.

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- Don Cherry

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REDUCED REGULATION

Gov't takes steps to reduce Man. hog sector red tape

The Manitoba government's Red Tape Reduction and Government Efficiency Act is a welcome action to allow hog farmers an opportunity to grow.

The previous government had imposed regulations regarding barn construction and manure management that amounted to a moratorium on new barn construction.

The Progressive Conservative government that was elected a year ago has already ended the onerous building code requirements, putting them now on par with agricultural building codes in other provinces.

The red tape cutting legislation that is expected to pass this fall will end costly requirements for anaerobic digester manure treatments that were another nearly insurmountable impediment to hog barn construction.

The restrictions were imposed when the hog industry was unfairly singled out in the early 2000s as a villain in the ecological endangerment of Lake Winnipeg. Excess nutrients in water flowing into the lake led to huge algae blooms that caused oxygen starved dead zones.

An abrupt increase in phosphorus flowing into the lake was identified as a particular problem.

Manitoba's hog industry had greatly expanded in that same period, and for some the coincidence amounted to cause and effect.

There was scientific evidence in a report by Peter Leavitt of the University of Regina and David Schindler of the University of Alberta, which said hog manure and fertilizers from crop production were major contributors to the lake's woes.

That report recommended cutting phosphorus flow into the lake by 50 percent and prompted the NDP government to pass the Save Lake Winnipeg Act in 2011, which compounded restrictions on hog barns in

place since 2007.

It also required Winnipeg to upgrade its sewage treatment system and protected wetlands.

But other experts, such as Don Flaten, a soil scientist at the University of Manitoba, say the situation is complex and too much focus has been placed on hog manure.

Various studies have noted other contributing factors.

The current wet cycle in the eastern Prairies and much increased flows in the Red River appear linked with the increased nutrient levels in the lake. Fifty-three percent of total phosphorus entering Lake Winnipeg originated from outside the province.

The shift to zero tillage, which slashed soil erosion and reduced nitrogen runoff, unfortunately also increases phosphorus runoff from crop residue. The use of chemical fertilizers also increased, adding to the amount of phosphorus applied to soil.

With so many sources, it was unfair to come down so hard on pig producers.

Manitoba's hog industry is committed to environmental stewardship. It still faces stringent oversight, and it agrees with a key regulation that will continue: the ban on winter manure spreading.

However, it faces an influential lobby that holds to a simplistic and unfair critique of the industry.

We hope the government is not swayed from its course.

Hog production and pork processing are a major part of Manitoba's economy, valued at more than a billion dollars and employing more than 16,000 people.

That impact can grow if farmers are set free from unneeded regulation to pursue the opportunities arising from rising global meat demand.

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

CRAIG'S VIEW



WEED THREAT

In Canada, there are a lot of forage seed producers that aren't even aware of this (situation). It's kind of scary to think that a couple of redroot pigweed plants could potentially take out a quarter-million dollars of your farm income, or at least a significant part of it. This has the potential to impact forage seed growers right across Canada ... so it's probably good for all producers to know about this.

PAUL GREGORY
INTERLAKE FORAGE SEEDS, PAGE 4

SUMMER MEETINGS

Ministers to spend summer basking in ag policy, trade, food plan

CAPITAL LETTERS



KELSEY JOHNSON

Politicians may have headed home for the summer, but don't expect Canada's key agricultural files to slow down any time soon.

Canada's agriculture ministers will gather in St. John's in a few weeks for their annual July federal-provincial-territorial meeting, where they will try to finalize the next five-year funding agreement for the sector. The current Growing Forward 2 agreement expires next year.

Discussions on the next agriculture policy framework have been ongoing for more than a year. The ministers were in Ottawa in May to work on some of the more contentious files, notably business risk

management, where they instructed officials to look into a possible review of the programs.

Sources say they expect the review will be ordered to go ahead when the ministers gather again in July.

Funding questions also remain. Ottawa has said it will not be upping its financial contributions for the next policy framework, despite adding new key areas, including food processing. How the program funding will be divided up still needs to be finalized.

The six priority files for the next framework include: business risk management, the environment and climate change, value-added and food processing, research and innovation, trade and public trust.

Agriculture Minister Lawrence MacAulay told reporters June 23 that work on the policy framework is continuing.

"We're doing quite well, but we're not fully there yet."

Then there's Ottawa's plan to develop a national food policy. Agriculture Canada recently held a

two-day summit on the idea with more than 250 stakeholders to discuss the proposed plan, which MacAulay said would "positively" complement the policy framework.

More than 16,000 public comments have been submitted thus far, giving federal bureaucrats a monumental task over the summer. Ottawa hopes to have its Food Plan for Canada in place by spring.

The national food policy will not be funded via the agriculture policy framework, MacAulay added.

On the trade front, there's the Canada-U.S. trade file. Ottawa expects to see a draft list of American negotiating priorities, many of which are expected to be agriculture-related, in mid-July.

American rules stipulate the list must be made public to Congress 30 days before negotiations start. The formal 90-day American consultation period triggered in May ends Aug. 16.

U.S. Agriculture Secretary Sonny Perdue has said he wants more Canadian access for American

dairy, wine and wheat. Canada's poultry markets, rules of origin, dispute resolution and better regulatory co-operation have also been flagged as possible negotiating topics.

MacAulay continues to take a "wait-and-see" approach on the file, insisting the three North American agriculture ministers all agree that the North American Free Trade Agreement has been a "favourable" trade deal for farmers.

The U.S. Trade Representative's office has been inundated with more than 12,000 submissions from Americans and industry on the pending NAFTA renegotiation. American Trade Representative Robert Lighthizer has said Washington wants to start the negotiation as early as Aug. 17.

Meanwhile, Global Affairs Canada's public consultations on NAFTA wrap up July 18. Canada's agriculture ministers are expected to talk about the pending renegotiation of NAFTA at their coming meeting in St. John's.

NAFTA isn't the only trade file

that still needs work. Implementation of the Comprehensive Economic Trade Agreement with Europe will likely be delayed because of a dispute over Canada's proposed cheese quota allocation. International Trade Minister Francois-Philippe Champagne was in Brussels recently for an emergency meeting with the EU agriculture commissioner to try and find a fix.

CETA was supposed to come into force July 1, a date Champagne appeared to be shying away from when asked about it June 21. The proposed quota breakdown had yet to be made public as of press time June 26.

Ottawa also needs to make a decision on the future of grain cash ticket deferrals, which the federal finance minister suggested should be eliminated in this year's budget. Public consultations were supposed to wrap up May 24 but have been extended to July 24.

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

& OPEN FORUM

FOSTERING DISTRUST

Anti-biotech group uses big tobacco strategy to refute GM research

BY STUART SMYTH

In 1839, in the historical play *Cardinal Richelieu*, playwright Edward Bulwer-Lytton wrote that “the pen is mightier than the sword.”

Since 2014, in both the United States and Canada, the pen has been progressively attacked by the sword.

Academic freedoms of biotech researchers have been attacked by an organization known as the US Right to Know (USRTK).

The USRTK is a U.S. shell organization (funded by more than \$400,000 per year from the organic industry) created to attack academic research on the benefits of biotechnology and genetically modified crops. The organization works to attack, discredit and scare academics.

So far, more than 40 academics have been publicly accused of being corrupted by the biotech industry.

The USRTK has also demanded access to academics’ and researchers’ work emails in attempts to discredit them.

The USRTK has adopted a method used by the big tobacco companies to establish distrust in scientists.

In their book *Merchants of Doubt*, authors Naomi Oreskes and Erik Conway identify how the tobacco industry organized targeted criticisms of the American surgeon general and scientists that reported the health dangers of smoking.



FILE PHOTO

Tobacco companies in the 1960s funded shell organizations to refute the research on the dangers of smoking. In addition, these organizations attempted to tarnish the reputations of the authors (scientists and academics) of this research.

Like big tobacco, USRTK (or perhaps big organic) has adopted the strategy of “killing the messenger.” By attacking academics researching the impacts and benefits of GM crops, USRTK is creating a negative environment and trying to scare the academic community to step back from future involvement on this research area.

This is an issue because it threatens the freedoms of academics to probe, explore and research the good and the bad of the leading issues of the day.

Using an actual sword today is

rather passé. Instead, the USRTK sword is access to email requests, used to damage the reputation of respected and credible academics.

In its latest sword thrust, the USRTK has launched an attack on the University of Saskatchewan by accusing professor Peter Phillips and myself.

In my case, hundreds of hours will be spent sifting through my emails, time that I could better spend mentoring students or working on important agricultural projects, such as those in developing countries.

Led by Gary Ruskin, it seems that the USRTK firmly believe that academic freedoms should not exist in our society.

Instead, they would prefer that special interest groups (like organic companies) dictate what research should be allowed to be

conducted by academics.

There’s no honour in riding their steeds into university offices, waving their swords around and terrifying those who follow academic professionalism in GM crop research.

Such campaigns of fear and intimidation have failed countless times throughout history and I hope it fails again.

While frustrating, the “Big Tobacco” strategy that the USRTK is employing doesn’t work. It didn’t work for the large tobacco companies in the 1960s and 1970s because most of them were sued for the health problems caused by their product.

Ruskin and the organic industry are terrified that the message about the health and environmental benefits from GM crops is gaining acceptance by the public and are mounting up, swords in hand, to strike fear into the hearts of those of us that undertake this research.

It would appear that Bulwer-Lytton’s words are as true today as they were 180 years ago. There’s strong evidence that the academic pen is indeed mightier than Ruskin’s USRTK organic sword.

Stuart Smyth is an assistant professor in the University of Saskatchewan’s agricultural and resource economics department and holds the university’s Industry Research Chair in Agri-Food Innovation. This blog appeared on the SAIFood website.

HISTORY LESSONS

150 years of farming

EDITORIAL NOTEBOOK

MICHAEL RAINE
MANAGING EDITOR

Agriculture in Canada was practised from the earliest times, with the First Nations producing crops long before European settlement.

Settlers’ crops were grown for centuries before Confederation and most of it was done on land that later became New Brunswick, Nova Scotia, Prince Edward Island, Lower and Upper Canada and in the Fraser Valley of British Columbia. Nearly all of it was for domestic consumption.

Louis Hebert settled at Quebec City in 1617 and became one of Canada’s first commercial producers that year.

Wheat was thought to have been grown in Saskatchewan by Hudson’s Bay staff at a post east of the North and South Saskatchewan Rivers’ forks in the 1770s.

Farming in the Canadian coastal areas was not unlike that of Northern Europe, so knowledge was transferable. In 1790, Nova Scotia farmers had their own organization, the Society for Promoting Agriculture.

By 1802, exports from the upper St. Lawrence Valley, in what is now Ontario, were more than one million bushels annually.

The Assiniboine District, including the Red River Valley in Manitoba, was producing agricultural products for sale, but most of that was for local consumption.

In May of 1868 the Department of Agriculture Act was given royal assent by Parliament. Its first major act was the Act Respecting Contagious Diseases of Animals, protecting Canada from imported diseases.

By the early 1880s it was becoming evident that more knowledge was needed.

Farming was expanding outside the central and eastern Canadian regions, and the young federal government recognized the need for research and skills development.

In 1884, 1,500 farmers were asked if they wanted ag research, experimental farms, entomologists, ag statistics and handbooks, reports and bulletins. Most did.

In 1886, Parliament passed the Experimental Station Act, and regional research and extension agriculture were birthed.

Two world wars, three major droughts, as many wet decades and a steady intensification of production have passed since.

But some things never change. Louis Hebert? He was forced to sign a commercial contract with the French government that required him to sell his Canadian agricultural production at the domestic, French market price.

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REGINA, SASKATOON EVENTS

Farmers have plenty of choice for information

HURSH ON AG



KEVIN HURSH

Speculation is rampant on the future of Canada’s Farm Progress Show. Formerly known as the Western Canada Farm Progress Show, the annual event in Regina just celebrated its 40th anniversary. However, the show wasn’t exactly busting at the seams.

Exhibitors complain about the time and cost of getting large equipment into the city. Parking issues frustrate both exhibitors and attendees, and a perpetual complaint is that the show coincides with spraying operations. While sprayers are busy through much of the growing season, herbicide application season is arguably the

most extensive and time sensitive. Show organizers have taken steps such as a shuttle service to address parking issues, but anything that reduces convenience is an irritant.

When it’s windy and/or raining, spraying grinds to a halt and that helped maintain attendance this year.

It can be tough to attract a crowd for speakers when producers want to look at iron and kick tires. One of the speakers on the opening morning ended up with about five people in his audience when there were chairs set up for about 180. Big name speakers later in the week such as Drew Lerner of World Weather Inc. did draw good crowds.

Many exhibitors were pleased with the attendance. Others, especially equipment manufacturers, are examining their future involvement with the show.

The empty and under-used space at the show could be an indication of a looming problem for future years. A big new building is under construction, but will the show

attract enough exhibitors to use it?

Ag in Motion, held just a month after Farm Progress Show at an outdoor site northwest of Saskatoon, is the new kid on the block. Some major exhibitors seem inclined to put their time and effort into the new event at the expense of the Regina mainstay.

An outdoor event allows for equipment demonstrations and crop plots. Getting equipment into the site isn’t such a big hassle, and parking isn’t a problem.

Even though the growing season is short and there’s never an ideal time, July is arguably less busy. The location isn’t as handy for producers in southern regions, but producers are inclined to travel farther for something they want to see.

Just coming up to its third year, Ag in Motion is still growing and developing, so exhibitors are less inclined to complain, chocking up any problems to growing pains. They tend to focus on what the show may become.

While wind and rain is typically

good for Farm Progress Show attendance, rain is an impediment to many Ag in Motion activities.

In the years when the grain farming economy was suffering financially, there was always speculation about the future of Farm Progress Show. When a major exhibitor dropped out, observers wondered if it would create a domino effect. The show managed to continue and thrive and has really carved out a niche as a marketplace for international equipment buyers.

Is there room for two major growing season events that are only one month and three hours driving time apart? Can Farm Progress Show re-invent itself to remain relevant? Will the momentum established by Ag in Motion be maintained? Stay tuned.

Editor’s note: Ag in Motion is owned by Glacier FarmMedia, which also owns The Western Producer.

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

FARM PROGRESS SHOW

Farm show organizers pleased with exhibits, business generated

BY KAREN BRIERE
REGINA BUREAU

International business conducted at Canada's Farm Progress Show was at least \$360 million, show organizers said as the 40th anniversary of the Regina event wrapped up last week.

Add in domestic and future sales and the value of the show is significant, they said.

Visitors from 65 countries were registered, including trade delegations from Australia, the United States, Latvia and Ukraine. Vietnam, Italy, France and Austria were also represented.

On a pre-show farm tour, people from those countries, South Africa, Mongolia, China and others got a look at manufacturing at SeedMaster, a dairy operation at Lovholm Holsteins and a grain farm at Duncan Farms before connecting with suppliers at the show.

Show chair Rene Carpentier said the International Business Centre has expanded in size and reputation over the past several years.

About 800 people were registered with the centre.

Show attendance was down from

last year to 38,000, probably because of cool, wet, windy weather.

The antique tractor pull and threshing demonstration were both affected by the conditions.

Show manager Shirley Janeczko said attendance is a measure of success but not the only one.

"We pay close attention to the business generated at the show because our main purpose is to bring qualified buyers and sellers together," she said.

Among farm shows, CFPS is renowned for the highest percentage of qualified buyers coming through the gates, she said.

In recognition of the 40th anniversary, the show acknowledged 34 exhibitors who have attended each year.

Organizers also introduced theme days for women and young farmers as well as heritage.

Two products received gold standard awards in the Innovation Competition: Setter Manufacturing of Russell, Man., for the Drylobag, a portable grain drying and storage system that dries grain in bags; and TankFull from Duck Mountain Environmental at Kam-sack, Sask., for a septic tank level



The annual antique truck and tractor parade at Canada's Farm Progress Show went extra-old-school with an eight horse Clydesdale hitch, owned and driven by Harvey MacFarlane of Summerberry, Sask.

| MICHAEL RAINE PHOTO

monitoring system that uses ultrasonic technology to send a signal to dispatch a truck.

Four sterling standard awards were presented: Hypro-SHURFLO/Pentair received three of them for Duo React, a two-nozzle system to control droplet size and reduce spray drift; 3D Spray Nozzle, which optimizes droplet spectrum; and 9310 ForceField Pumps, which use wet seal technology to protect mechanical seals.

The fourth went to Agrimatics for Libra TMR, a tablet and smart-

phone ration-weighing and data management system.

The winner of a new event this year, Farmyard Inventions, was determined by visitor votes.

Ryan Dennis from Holdfast, Sask., took the honours for his Better Buncher, a rotary flax straw buncher that puts straw into piles for burning.

Farm Progress is home to the annual Outstanding Young Farmers provincial competition, and three judges selected Derek and Tannis Axten of Minton, Sask., to represent the province at the national event in late November in Penticton, B.C.

Several events were held in the

new Mosaic Stadium.

Next year the show will take on a different look as it gains the added space of the 150,000 sq. foot International Trade Centre under construction at the Evraz Place exhibition grounds.

The show currently occupies 1.9 million sq. feet.

"We have a waiting list of exhibitors each year so we're happy to accommodate them with the new building and the additional outdoor space," Janeczko said.

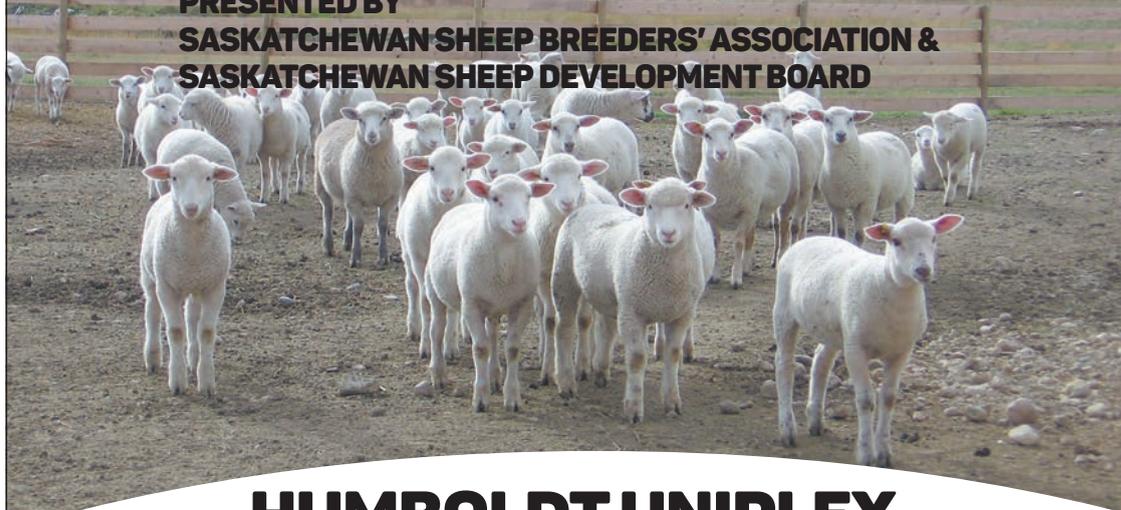
Two older barns will be demolished in the next few years.

The 2018 show is slated for June 20-22.

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OPEN FORUM

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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*.

CLIMATE CHANGE

To the Editor:

Interestingly, climate change, global warming, carbon pollution and taxation have dominated worldwide communication.

Firstly, we must acknowledge the fact that nature provided planet Earth with a four-season year, (less taxes) spring, summer, autumn and winter. Spring planting, summer growing, autumn harvest and winter mostly sports.

Greed politics and taxation have now entered the planet with a variety of tangled results.

In view of energy produced by the internal combustion engine, the slightest regulation reduction in carbon producing gas would be

disastrous in consideration of unemployment, in addition to mountains of metal garbage piles that would add to existing problem with disposal on land or at sea, which would create a new reason for further public taxation.

Environmental enthusiasts and weather forecasters, and in addition taxation authorities, face serious questions where answers are debatable and facts are most difficult to establish.

In consideration of spring planting, nature's regular program carries the higher respect, thus, centuries of experience has fed the global population.

United Nations climate officials have admitted global wealth redistribution was the key purpose of the Paris treaty, so the American withdrawal was understandable.

Proof for all aspects of the Paris treaty must be assured by concrete evidence, including an ice-free Northwest Passage, wild animal migration such as musk-ox and penguins in Death Valley, monkeys in Fort McMurray, lions killing cattle north from Parkbeg, Sask., and boa constrictor snakes in Churchill, Man.

In view of the monetary rejection of the Paris treaty by the United States, Canada should follow the same course because this country is responsible for only two percent of all global carbon production.

John Seierstad
Tisdale, Sask.

STEWARDSHIP RECOGNITION

Outstanding young farmers focus on improving soil health

BY KAREN BRIERE
REGINA BUREAU

Derek and Tannis Axten from Minton are Saskatchewan's Outstanding Young Farmers for 2017.

The couple received the honour during Canada's Farm Progress Show in Regina last week and will compete at the national level in Penticton, B.C., later this year.

The grain farmers have for the last several years focused on building soil health through companion crops, cover crops and compost extracts and teas.

"Our farming system is quite unique from the way most people farm," Tannis said. "Our focus isn't necessarily on the plant that's growing above the ground but it's on the biological processes that occur underneath. We just started looking at what's occurring under there and what's missing and trying to restore some balance."

As their soil health has improved, they have been able to significantly reduce input use.

"Probably the thing we notice the most is, when we take a spade to the field and dig and look at what we see, we're seeing better structure, we're seeing nicer colour, we're seeing better water infiltration, those sorts of things," said Derek.

He said they are not likely to make the move to organic because they want access to all the tools possible.

The couple started operations at their current farm in 2002, when they moved to Derek's family farm.

Derek has a diploma in farm and ranch management from Olds College in Olds, Alta., and Tannis, who grew up in nearby Gladmar, has a bachelor of education, majoring in biology, from the University of Regina. They are the third generation on the land and are raising daughter Kate and son Brock there.

Axten Farms was a mixed operation until about 2006 when they sold the pasture to former OYF nominee Ryan and Leanne Thompson. Now the Thompsons provide cattle for a critical part of the Axten operation.



Derek and Tannis Axten farm near Minton, Sask. | KAREN BRIERE PHOTO

"For this year, we actually did a fair bit of companion cropping which will graduate into a cover (crop) after harvest," Derek explained. "After our annual crops are harvested, we'll seed a diverse mixture of basically crops that we don't have in our annual rotations and they'll fill the gap in our rotation. They'll grow from as soon as we can seed them after the combine until freeze-up and then we'll get our livestock producer friends to supply cows to graze as many acres as we can. We do a light graze. We call it flash graze."

He encouraged other producers who don't want to own cattle to find a producer who needs extra grazing because it's a good fit in a system to improve soil health.

The cattle also figure into the

Axten's composting ventures. They're working on a large-scale compost project using the manure and putting compost extract on fields.

Sixteen different crops are under cultivation at Axten Farms this year. They use a no-till system and have been growing companion and cover crops since 2011.

Derek said they had been working on diverse rotations before that but didn't think they were seeing the gains they wanted.

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To see a video about this story visit the Western Producer's Facebook page.

BIOFUEL USE

Ethanol consumption exceeds mandate

One third of product used in Canada comes from the U.S.

BY SEAN PRATT
SASKATOON NEWSROOM

Canadians are using more ethanol and less biodiesel than they're required to, according to a new report.

National ethanol consumption was 2.8 billion litres in 2015, or 6.8 percent of total gasoline use that year, according to a report by Advanced Biofuels Canada. The federal mandate calls for a five percent ethanol blend.

Biodiesel consumption was 474 million litres, or 1.7 percent of total diesel use in 2015. The mandate calls for a two percent blend.

Ian Thomson, president of Advanced Biofuels Canada, said the biodiesel mandate might still be being met because the total annual diesel use number of 28.7 million litres includes some types of diesel exempt from the policy.

He said ethanol is exceeding the mandate because it is cheaper than gas and because it provides blenders with an inexpensive source of octane for their fuels.

One thing the report failed to mention is that a sizeable amount of the ethanol used in Canada comes from the United States.

The U.S. shipped 951 million litres of ethanol to Canada in 2015, or 2.3 percent of Canada's total gasoline use that year, according to the Renewable Fuels Association.

"They've got policies and economics that make it a pretty good place to make and export biofuels," said Thomson.

"The economics of producing corn ethanol in the Midwest and shipping it to Canada are good."

He said the U.S. ethanol sector is more efficient than Canada's. Companies have been able to pay down capital costs faster than Canadian facilities, and a system is in place that allows blenders to use credits to meet their mandate obligations.

The U.S. ethanol industry has under-used capacity and has hit a blend wall in that marketplace, so exporting the fuel is an attractive option.

However, there is one other ad-

vantage the U.S. ethanol sector has over Canada.

"The U.S. corn industry has been a big backer of ethanol in the U.S., and our agriculture industry has been a bit slower to catch on to getting behind renewable fuel blending," said Thomson.

He wishes Canadian farm groups would be more vocal in their support of biofuel.

One thing Advanced Biofuels Canada wants is tax reform.

Fuel is taxed by volume, and ethanol has 33 percent less energy density than gasoline, which means consumers must use more fuel to travel the same distance as they would using pure gasoline. As a result, they are paying more taxes for ethanol blends.

That cost consumers an extra \$1.75 billion in taxes in 2010-15, according to the report. The association would like to see taxes applied on the energy of fuel rather than the volume.

"You're essentially penalizing people who are using the fuels you really want them to use," said Thomson.

Despite the heftier tax bill, ethanol has provided a net cost saving of \$750 million to the Canadian economy over that five-year period, primarily because it provides blenders a cheaper source of octane than they had previously been using.

However, not everybody is sold on the benefits of biofuel. The Eco-fiscal Commission says biofuel has proven to be an expensive way to reduce greenhouse gas emissions.

In a 2016 report, the commission estimated the costs at \$180 to \$185 per tonne for ethanol and \$128 to \$165 per tonne for biodiesel. The commission said that is not a good use of public funds.

The renewable fuel industry claims the commission's report is riddled with errors. For instance, it doesn't take into account the unique properties of ethanol such as its ability to boost octane levels.

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FARMING SMARTER TOUR

Field studies to narrow down when, how to grow hemp

Fourteen varieties are being tested for seed yield and fibre production

BY BARB GLEN
LETHBRIDGE BUREAU

Hemp has been grown on the Prairies for decades but there's been relatively little research on its agronomics.

Jan Slaski, senior researcher at InnoTech Alberta, is working to change that.

He's conducting agronomy trials in Lethbridge, Falher and Vegreville, Alta., to learn more about seeding dates, fertility and the yield attributes of different varieties.

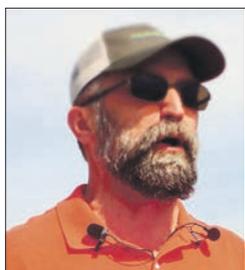
Plots in Lethbridge and other plots were to be seeded in mid-June.

In southern Alberta, hemp is usually planted in late May or early June so the plants don't get too tall and cause harvest challenges.

Growers also concentrate on seed production because there are few markets for hemp fibre.

"Why we are studying hemp at three different locations (is) because you have to remember that hemp is a short day plant," Slaski told those gathered for a Farming Smarter field event June 8.

Hemp starts to flower when days get shorter. When grown in areas with longer days, the crop gets taller and produces more biomass and fibre yield.



JAN SLASKI
INNOTECH RESEARCHER

Slaski said plots in Falher receive three to 3.5 more hours of daylight than plots in Lethbridge, so the same hemp variety is typically 20 to 30 percent taller, even when given the same amount of fertilizer.

"Keep in mind, if you compare any other crops, you're not seeing such huge, huge differences, such huge responses to daylight availability," Slaski said.

Hemp is frost resistant and capable of responding quickly to good growing conditions. Slaski said one Vegreville area grower, whose crop was hailed out in July last year, replanted hemp July 16 and harvested hemp seed in early October.

"Keep in mind that hemp offers such plasticity. Every single bit of this plant can be used and more importantly can be sold and you can make money," said Slaski.

Hemp grows quickly and forms a canopy that prevents weed growth, which is fortunate because few herbicides are registered for the crop.

Slaski is also testing nitrogen fertility and 14 different varieties of hemp, some primarily bred for seed and others for fibre. None have more than .3 percent THC, the psychoactive constituent in

hemp's cousin, marijuana.

Though hemp seed and hemp nuts have been the primary mon-eymakers in the past, "very soon you will be making money on grain, fibre and non-narcotic cannabinoids that are in leaves and flowers."

Slaski said contracts will be offered for hemp fibre this year and next, and he is confident full-scale hemp fibre production, long promised but never delivered in Alberta,

will come to fruition this year.

Plans to open a plant in Nisku, Alta., that would handle seed, fibre and nutraceuticals from the crop were recently announced by Hempco.

The company said it wants to be running by fall with the capacity to handle 5,000 tons of seed, 20,000 tons of fibre and 20 tons of low THC cannabinoids annually.

barb.glen@producer.com



Hemp planted May 11 on a research plot near Lethbridge is off to a good start. Hemp is not usually planted that early in the region but researcher Jan Slaski is studying planting dates, varieties and fertility at three Alberta locations this year. | BARB GLEN PHOTO



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FACTS AND FIGURES

Bigger is better, according to agriculture census

BY BRIAN CROSS
SASKATOON NEWSROOM

Costs might be rising, but profit margins on the average Canadian farm were unchanged between 2010 and 2015, according to data from the 2016 Census of Agriculture.

Statistics Canada, which collects, analyzes and disseminates the census data, said Canadian farmers, on average, had an expense-to-receipt ratio of .83 in 2015, unchanged from 2010.

In other words, operating expenses ate up 83 cents out of every dollar earned by the average Canadian farm through sales.

"The expense-to-receipt ratio ... is a good calculator of how changes in process and production affect both operating expenses and farm receipts, and consequently the profitability of farm operations," Statistics Canada said in a census document entitled *Farmers are adapting to new markets*.

"While varying by province and farm type, the national expense-

to-receipt ratio remained unchanged (from 2010 - 2015) at 0.83."

According to the report, grain and oilseed farms had the lowest expense-to-receipt ratio of any type of farm involved in crop production in 2015.

Expenses on grain and oilseed farms ate up 79 cents of every dollar earned in 2015, compared to 83

cents on the average vegetable farm, 84 cents for fruit and nut producers and 85 cents in greenhouse operations.

In the livestock sector, dairy producers had the healthiest profit margins with an average expense-to-receipt ratio of 77 cents, followed by poultry and egg producers at 84 cents, hog producers at 90 cents, beef producers and feedlots

at 90 cents and sheep and goat producers at 96 cents.

The report also said:

- Total sales from all Canadian farms in 2015 totalled \$69.4 billion. Of that amount, grain and oilseed producers accounted for 37.8 percent of sales, or \$26.2 billion.
- Saskatchewan had the lowest farm expense-to-receipt ratio of any province in 2015 at 78 cents in expenses per dollar earned, followed by Manitoba at 81 cents and Alberta at 84 cents.
- Among specialty crop producers, dry pea and dry bean growers had the best profit ratio in 2015. On average, pea and bean producers had expenses of 71 cents on every dollar of sales.
- The total amount of lentils exported by Canada more than doubled between 2010 and 2015, largely due to poor growing conditions in India and strong export demand.
- The total value of capital owned or rented by Canadian farms in 2016 was estimated at \$509.7 billion. That represented an increase of nearly 37 percent from 2011, driven mainly by rising values for land and buildings.

The report also found that supply-managed industries such as dairy, eggs and poultry production generally had lower expense ratios and higher profit margins than non-supply managed sectors, with an average expense-to-revenue ratio of 79 cents per dollar, compared to 84 cents per dollar for unregulated farm operations.

The size of farms also appears to have a direct bearing on its profitability. Canada's smallest farm operators managed to lower their expense-to-receipt ratios between 2010 and 2015, but on average small farms with gross annual sales of \$25,000 or less continued to spend more on production than they earned.

Farms with gross sales of less than \$10,000 per year spent nearly \$2.09 for every dollar earned in sales in 2015, down from \$2.99 in 2010.

By comparison, farms with gross annual receipts between \$10,000 and \$25,000 had an average expense-to-receipt ratio of \$1.20 in 2015, down from \$1.45 in 2010.

And farms with gross annual sales of \$25,000 to \$50,000 had an expense-to-receipt ratio of 95 cents in 2015, down from \$1.07 in 2010.

Canada's most profitable farms were those with gross annual receipts of \$250,000 to \$1 million, the report stated.

The expense-to-receipt ratio for farms in that income category were listed at 79 cents in expenses for every dollar in receipts.

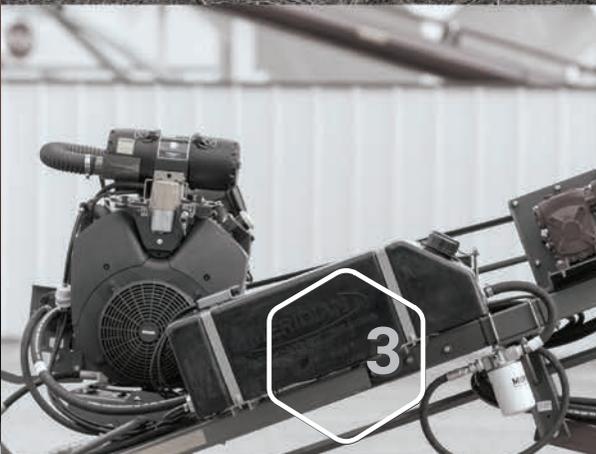
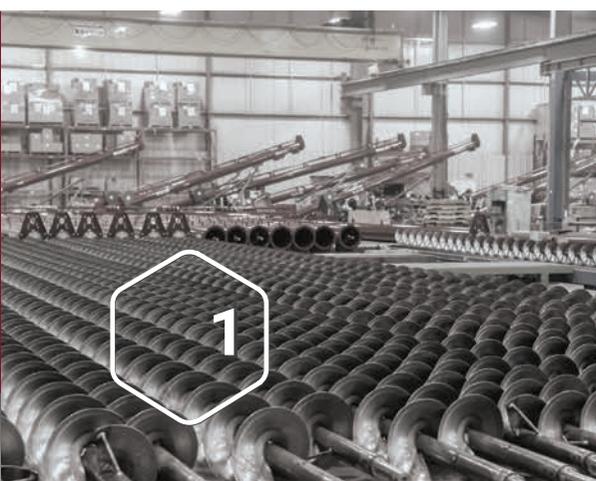
Craig Klemmer, agricultural economist at Farm Credit Canada, said new technology and bigger machinery means that farms in Western Canada are becoming larger and more profitable.

"Equipment is becoming more efficient and it's covering more acres so typically this means that there are fewer people required to cover the same amount of land base," Klemmer said in an interview. "Farm revenues seem to be matching fairly closely with the operating environment that we have ..."

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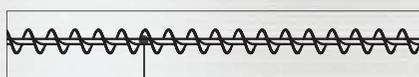
THE MOST PROFITABLE FARMS WERE THOSE WITH GROSS ANNUAL RECEIPTS OF

\$250,000 to \$1 million

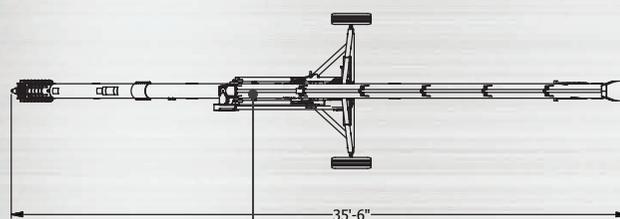


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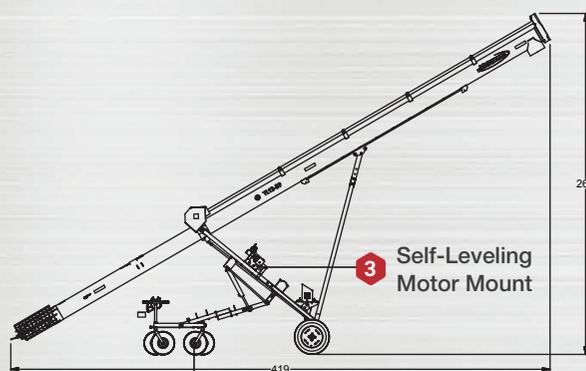
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GRAIN INDUSTRY

G3 expansion continues in eastern corridors

New export terminal opens at the Port of Hamilton with the ability to load lake-sized vessels or ocean haulers

BY BRIAN CROSS
SASKATOON NEWSROOM

One of Canada's fastest growing grain companies has added another piece to its national network of elevators and export terminals.

G3 Canada officially opened a new export terminal at the Port of Hamilton in southern Ontario last week.

The 50,000 tonne facility will consist of steel storage bins and primarily handle grain and oilseed crops that are produced in Ontario, with the majority of inbound grain to be delivered by truck.

The terminal will also have the capacity to serve as a transfer terminal for grain that arrives by train or on laker vessels, said G3 spokesperson Brett Malkoske.

G3 also owns export terminals at Quebec City, Trois Rivières, Que., and Thunder Bay and is in the process of constructing a new terminal in North Vancouver.

"Customers of G3 Hamilton should immediately notice our commitment to efficiency and customer service," said Karl Gerrand, G3 Canada's chief executive officer.

"Trucks will experience faster unload times, allowing them to get back on the road as quickly as possible."

Construction of the Hamilton facility began in the fall of 2015 and



Construction of the G3 Canada terminal in Hamilton, Ont., was completed in April. The facility took its first grain deliveries in March and loaded its first outbound vessel June 2. | G3 CANADA PHOTO

was completed this April.

The facility took its first grain deliveries in March and loaded its first outbound vessel June 2.

Malkoske said the new facility has

the ability to load lake-sized vessels or ocean haulers.

Inbound grain originating from southern Ontario will either be loaded for direct shipping to export

destinations or transported further east to G3's other St. Lawrence facilities for transloading.

The Hamilton terminal was built with an emphasis on throughput

efficiency, as well as flexibility, he added.

"While we expect the majority of volume to be moved in by truck and shipped out by vessel, it's going to be the most flexible facility in our footprint," Malkoske said.

"It can not only receive by truck but also by rail and by vessel and it can ... ship product out again by truck, rail or vessel so we have total flexibility on both inbound and outbound logistics which allows us to respond to market conditions as they present themselves."

Malkoske declined to comment on the facility's estimated annual throughput but said it will play a key role in G3's eastbound grain business and will fit well as a complementary asset to G3's other grain-handling assets on the St. Lawrence River.

"Our expectation ... is that it will take a few years to ramp up to full run rate or full expectation."

"We're taking market share from others so that's always a (challenge) ... but we expect to be a very dominant player in the southern Ontario grain market going forward."

Malkoske said truck unload systems are fully automated and will accommodate G3's goal of eliminating truck lineups at the facility.

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CENSUS OF AGRICULTURE

Farm incorporation rate highest in Saskatchewan

BY SEAN PRATT
SASKATOON NEWSROOM

Farms continue to incorporate, according to the latest census.

One-quarter of all farms were incorporated in 2016 compared to 20 percent in 2011 and two percent in 1971.

"Overall we're seeing a shift to more incorporations," said Erik Dorff, an analyst with Statistics Canada.

That doesn't mean farms are being run by men wearing ties and women in pantsuits. Nearly 90 percent of farms that identified themselves as corporate entities still consider themselves to be family run operations.

Saskatchewan has the highest proportion of incorporated farms on the Prairies at 27 percent, followed by Alberta at 25 percent and Manitoba at 22 percent.

The proportion of farms being incorporated rises as gross farm receipts rise: nine percent in the under \$10,000 category to 85 percent in the \$2 million and over group.

The largest number of incorporated farms — nearly 10,000 — is in the \$500,000 to \$999,999 category of gross receipts, or 59 percent of the farms in that group.

Stan MacEwen, senior associate with Laskowski & Wright, an accounting firm in Warman, Sask., said there are a number of reasons why farms are increasingly adopting a corporate structure instead of sole proprietorships or partnerships.

"Buying land is the biggest trigger to incorporation," he said.

In some areas land is selling for \$500,000 a quarter.

"To buy that on a personal tax basis you're going to have to be taxed in at least the second or third bracket, which is going to run you up to 38 percent or more tax," he said.

By contrast, a corporation in Saskatchewan is taxed on the first \$500,000 of a farmland purchase at a rate of 12.5 percent. That's a 25 percent tax savings.

"That's significant," said MacEwen.

Another reason to incorporate is to get one step removed from liability issues. It doesn't completely protect a farmer from being sued, but it does provide a bit of a buffer.

An incorporated farm can have an operating company and a holding company above it. Cash can be moved from the operating company to the holding company, where it is protected.

Another advantage is simplicity. An incorporated farm owned by a number of farm families has only one crop insurance contract and one grain contract and more marketing clout, said MacEwen.

One perceived disadvantage is that incorporated farms have to file a balance sheet to Revenue Canada.

"You have to have better records to file as a company," he said. "But for me, better records is good because the better your records the better your management decisions will be."

Running a farm as a corporation also makes it easier to transition the operation to the next generation because the corporation doesn't cease to exist upon the death of one of the shareholders.

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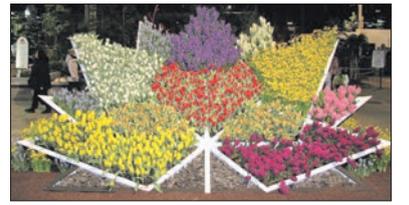
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Home of Big Momma Donna

FARMLIVING

CELEBRATE CANADA 150

The Canadian population includes a rich blend of cultures. Canadian landscapes are also diverse, offering a wide array of native and edible plants. | Page 18



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

EXPLORING CANADA

Wandering through Authentic Quebec

TALES FROM THE ROAD



ARLENE & ROBIN KARPAN

The biggest challenge in travelling to Quebec is deciding where to go. As Canada's largest province, the array of attractive possibilities can be overwhelming.

A great place to start is a region identifying itself as Authentic Quebec, a blending of some of the best that La Belle Province has to offer, but in a manageable size.

Situated between Montreal and Quebec City, and a bit to the north, it stretches from the rich agricultural plains of the St. Lawrence River Valley to the lake-studded forests of the Laurentian Mountains.

Away from the big cities, but close enough to be accessible, it's part rural, part cottage country and part wilderness, with a healthy dose of history and traditional culture.

Postcard views pop up around every turn and dairy farms dot the rolling hills. Farther north we find a series of forested parks and nature reserves, the largest being La Mauricie National Park.

The region has about 30,000 lakes and a vast network of rivers and streams. Driving between villages, we often came across wild white water and impressive waterfalls close to the road.

Agritourism is big in the area north of Montreal. Suggested driving routes guide you to everything from fruit orchards to honey producers, wineries and places to buy locally produced meats, maple syrup, chocolates and more.

A highlight is enjoying the many locally made cheeses.

Our most memorable stop was at a monastery. The Abbey of Val Notre Dame sits on a beautiful forested plateau overlooking the Assumption River. The Trappist



CLOCKWISE TOP LEFT: The view from the Hotel Sacacomie was breathtaking. | KARPAN PHOTOS

A visit to the local chocolate shop satisfied the sweet tooth.

Monks from the Abbey of Val Notre Dame are known for their Oka cheese.

Guests enjoy one of the many waterfalls.

monks first became famous as founders of Oka Cheese.

Abbott Father Andre said the order is required to be economically self-sufficient. Cheese making fit the bill for many years, but as the business grew and the number of monks declined, they sold the cheese operation, moved to this secluded location and built a smaller monastery to accommodate the 24 monks.

They turned to chocolate making, and soon gained a reputation for specialties like haskap chocolates. They also process and package natural forest products such as Labrador tea and dried mush-

rooms, and offer lessons on how to find edibles in the wild.

Their signature product is fruit cake, made with green tomatoes. They have been successful in convincing people that fruit cake should be eaten anytime, not only at Christmas.

The modern wooden building was designed to blend into the forest, with the interior carefully engineered for acoustics.

An interesting idiosyncrasy of the order is that the monks do not speak during the day, yet they sing several times a day in choral prayer.

Throughout the area, the underlying theme is getting close to

nature, but doing it in comfort, while enjoying a stay at any of the lodges and hotels in attractive settings.

One of the best views we had was from the Hotel Sacacomie, a hilltop log complex overlooking Sacacomie Lake, with a backdrop of forested hills in the Mastigouche Wildlife Reserve.

Guests come for a range of activities from fishing to canoeing, hiking and wildlife viewing. But the hotel's star attraction is its guide, Gaspard Bourke, a larger-than-life character and local legend.

The former trapper and wilderness expert's job is to introduce

visitors to the flora and fauna and help them appreciate nature.

He dresses the part of a quintessential traditional woodsman, with a red checkered lumberjack-style shirt and feather-adorned floppy hat. We followed Gaspard along forested trails to a trapper's cabin where he spoke about the life of a trapper in the bush and how nature can refresh your spirit.

"Listen. Let nature speak to you," he often said.

For more information, visit www.quebecauthentique.com.

Arlene and Robin Karpan are well-travelled writers based in Saskatoon. Contact: travel@producer.com.

NEW IMMIGRANT

Sask. farmers help Ukrainian family put down roots

Hired hand is grateful for the opportunity to escape his country's political and economic instability

BY CRISTALEE FROESE
FREELANCE WRITER

GLENAVON, Sask. — One Saskatchewan farmer's labour shortage opened doors to a brighter future for a Ukrainian immigrant and his young family.

This spring, Glenavon grain farmer Dave Iluk counted himself lucky for having had a dedicated hired man for nearly two decades, but that arrangement was coming to an end.

"(Tony Sebastian) was in his late 70s and still climbing up a bin,"

said Iluk.

A valued worker, he worked long hours during seeding and harvest and remained on call in the off-season as needed.

"Tony was honestly doing it for fun," said Dave's wife, Karen.

To find a new worker, the Iluks

turned to the International Labour Centre, which presented the couple with several resumes to choose from.

A Skype interview followed with the chosen candidate, Sergii Mashchenko.

The 31-year-old Ukrainian agri-

cultural graduate was not a stranger to the international workplace, having worked in Denmark, Sweden and the U.S. as part of his plan to try to get to Canada.

CONTINUED ON NEXT PAGE >>

Canada's 150th birthday was the theme of many displays at the Canada Blooms event in Toronto this spring.
| LORNA MCILROY PHOTOS



CANADA 150

Diversity in your garden

SOWING SEEDS



LORNA MCILROY

Canada Day arrives midway into our sesquicentennial year. During the first half of this year we admired four million of the unique red and white Canada 150 tulips, bred by Dutch growers to resemble the Canada flag as well as other red and white tulips often planted in formations resembling the Canadian flag.

Home gardeners then scoured local greenhouses for red and white annuals such as petunias, fibrous begonias and geraniums.

For the second half of this special year, I would suggest that we switch directions to celebrate our diversity.

Let's acknowledge differences like the single pink begonia in a carefully orchestrated planting of reds and whites.

When you visit a community garden this summer, look beyond the traditional carrots, peas and for the



Asian greens, okra, heirloom beans or unfamiliar herbs and spices.

My granddaughters planted Saskatchewan watermelons indoors in the early spring and they are watching them grow in their garden patch.

Also look for new ways to use old, familiar plants. Plan to preserve your summer's bounty by canning, freezing and drying or making flavoured vinegars.

Wine making is another popular option. Sauerkraut is also enjoying a revival as one of our healthiest probiotic fermented foods. It is not difficult to have a crock or even a mason jar of your own sauerkraut in the kitchen.

Investigate the edible flowers used at trendy restaurants to add colour, flavour and whimsy. They include nasturtiums, pansies, bachelor's buttons, bee balm, borage, fuchsia, gladiolus, hollyhock,

lavender, lilac, rose, violets, squash, pumpkin and daylilies.

However, it is important that you double check the edibility of each variety and restrict your use to homegrown flowers that have not been contaminated by pesticides. Canada's First Nations can share a wealth of information about edible native plants. Additionally, lawns, flower beds and forests are rich with mushrooms but harvest only food safe varieties.

There are more than 20 edible mushrooms on the Prairies from black morel, fairy ring mushroom and shaggy mane to meadow mushroom and oyster mushroom.

As we celebrate Canada's 150th birthday, remember to treasure our diversity and the multitude of horticultural offerings.

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



Sergii Mashchenko greases the truck hydraulics at the Iluk farm as Dave Iluk lends a hand. | CHRISTALEE FROESE PHOTO

» CONTINUED FROM PREVIOUS PAGE

In 2016, Mashchenko joined an agricultural exchange program to gain experience in North America. He had to leave his wife, Tetiana, and young daughter, Elizabeth, behind due to U.S. immigration rules.

After seven months in Williston, North Dakota, Mashchenko was ready to move.

"I didn't want to live in the U.S. because of the immigration politics and the instability caused by Donald Trump," he said.

He also saw more opportunities for his family in Canada.

This past May, the Mashchenko family arrived in Saskatoon, where Karen picked them up and drove them four hours to Glenavon to a house in town.

Dave's grandfather, a Ukrainian immigrant, had followed a path like the one Mashchenko was now on.

I know Canada gives a chance to everybody who comes here and I know my family will have a better chance to live and grow.

SERGII MASHCHENKO
UKRAINIAN IMMIGRANT

However, Dave said that in his grandfather's case, he came to Canada without his wife and daughter and worked on a farm for two years before he could bring his family to Canada.

The Iluks, who have three daughters of their own, said they felt both a business and moral obligation to bring Mashchenko to Canada with his family and to help them establish roots here, the way Dave's ancestors had.

Mashchenko said even though he

left friends, family and most of his belongings behind in the Ukraine, he couldn't be happier to be in a new country with his wife and daughter.

He said the political and economic instability in the Ukraine left him feeling scared for his own security and the security of his family.

"In the Ukraine, you just don't know if one day you'll come to work and your company will be crushed or gone because of some new laws, or maybe you don't pay money and you could go to prison," said Mashchenko, adding that the threat of a Russian invasion and the outbreak of war are constant worries.

"Here I know I work on Dave's farm and I'm sure that I will have work tomorrow," said Mashchenko.

"I'm happy.... I know Canada gives a chance to everybody who comes here and I know my family will have a better chance to live and grow."

RED AND WHITE

Celebrate Canada's ethnic diversity

TEAM RESOURCES



SARAH GALVIN, BSHEc

Celebrate Canada's 150th birthday with this eclectic sample of recipes representing our country's ethnic diversity. Regardless of our roots, the red and white maple leaf flag is a symbol of shared values and pride in Canada.

JELLYROLL WITH STRAWBERRIES

A traditional jellyroll is a sponge cake but for a truly white cake, use angel food. It bakes well in a jellyroll pan. A jellyroll pan is simply a baking sheet with sides. Macerated strawberries turn any strawberry into a sweeter and tastier berry. Just sprinkles sliced berries with a spoonful of sugar about an hour before serving.

The sponge cake has British origins and is a sweet that Queen Victoria enjoyed filled with a layer of raspberry jam and whipped cream.

SPONGE CAKE

Cake flour is lower in gluten and produces a more tender baked good.

Be sure to sift before measuring because this flour tends to pack down.

3/4 c.	sifted cake flour	175 mL
1 tsp.	baking powder	5 mL
1/4 c.	milk	60 mL
2 tbsp.	unsalted butter	30 mL
3/4 c.	sugar	175 mL
5 large	eggs	

Keep all ingredients at room temperature.

Heat oven to 350 F (180 C). Line the bottom of a 17 1/2 inch by 11 1/2 inch (44 cm x 29 cm) jelly roll pan with parchment paper to fit. Sift the flour before measuring, then put it in a small dish and add the baking powder. Set aside.

In a small saucepan, heat the milk and butter until the butter is just melted. Set aside.

In the bowl of a stand mixer using the whip attachment, beat the eggs with the sugar until light and fluffy and about tripled in volume.

Sift the flour mixture over the egg mixture and fold in. Add the hot milk and fold in until well combined.

Scrape mixture into jellyroll pan and gently smooth out. Bake until the top springs back when lightly touched. Cool in the pan on a rack for 10 minutes.

Loosen the cake from the sides of the pan and invert onto a clean, dry kitchen towel.

Remove the parchment paper. Roll the cake, long side toward you, with the towel and leave until completely cooled. You will be rolling the towel into the cake to prevent the cake from sticking to itself.

2 c.	whipping cream	500 mL
2 tbsp.	icing sugar	30 mL
4 c.	fresh strawberries	1 L
1 tbsp.	sugar	15 mL



While the cake is cooling, slice the strawberries and toss with sugar. As it sits, the juices will be released. Whip the cream to soft peaks and add icing sugar. Continue to whip until stiff peaks form and set aside.

To finish, unroll the cooled cake and remove the towel. Spread the whipped cream over the entire cake. Add sliced strawberries, if desired. Reroll the cake without the towel. Refrigerate for one hour before serving.

To serve, place on a platter, dust with icing sugar and garnish with macerated strawberries. Serve with more strawberries.

BRUSCHETTA WITH FETA

One of the earliest Italian visitors to Canada was Giovanni Caboto, or John Cabot as history has named him, who arrived in 1497. Then there were two main waves of immigration.

The first was from 1900 to the beginning of the First World War, mainly young men who came to work in construction and the mines.

The second and largest migration was after the Second World War. Most Italian immigrants arrived from the impoverished and agricultural areas of Calabria, Abruzzi, Molise and Sicily.

1 c.	cherry tomatoes	250 mL
1/2 c.	feta, crumbled	125 mL
1 clove	garlic, minced	
1 loaf	baguette	
2 tbsp.	camelina oil	30 mL
	sea salt and fresh ground black pepper	
	dried chili flakes	

Coarsely chop the tomatoes. Add minced garlic, salt, pepper and chili flakes. Drizzle with camelina oil. Refrigerate until serving.

Thinly slice the baguette at an angle. Lay the pieces on a baking sheet and bake at 350 F (180 C) until crisp and lightly browned.

Serve the tomato mixture in a bowl with the toasted baguette slices on the side. Each person can top a piece of baguette with the bruschetta.

WATERMELON AGUA FRESCA

Agua fresca translates to cool waters from Spanish. This is a cold,



ABOVE: Go red and white on Canada Day with a fluffy jellyroll topped with strawberries.

LEFT: For a light lunch or appetizer, serve slices of toasted baguette topped with bruschetta and feta cheese.

| SARAH GALVIN PHOTOS

non-alcoholic beverage typically sold in Mexico and Latin America. The migration of Central American and Mexican people was mainly to the United States despite our proximity to their country.

However, since 1974 about half of Canada's seasonal workers come from Mexico.

Refreshing and healthy, this summer beverage should not be made more than a day in advance. It does become bitter as it sits. It is best served the same day it is made.

1/4 c.	sugar or agave syrup	60 mL
5 c.	peeled, seeded watermelon	1.25 L
1/4 c.	fresh lime juice	60 mL
	mint sprigs for garnish	

Combine sugar and 1/4 cup (60 mL) water in a small pot. Bring to a boil and stir until sugar has dissolved. Transfer mixture to a heatproof container and chill, uncovered, until cool, about 30 minutes.

Combine watermelon, sugar syrup and lime juice and blend until smooth. Using a fine-mesh sieve, strain into a pitcher and discard solids. Add two cups (500 mL) water and stir well to combine. Serve with mint sprigs.

BANNOCK WITH STRAWBERRY JAM

Red fife flour arrived on the continent in the mid 1800s with Scottish immigrants. First Nations made bannock derived from lichen and plants.

The Scottish bannock was sustenance for explorers and traders and when a currency was introduced, aboriginals purchased flour for their bannock.

1 pkg.	dry yeast	
3 c.	warm water	750 mL
1 tbsp.	salt	15 mL
1 tbsp.	sugar	15 mL
6 c.	flour	1.5 L
2 tbsp.	oil	30 mL
1/2 c.	cornmeal	125 mL
	oil for frying	

Dissolve yeast in warm water with the sugar, then let stand until foamy. Add flour, salt and oil to yeast mixture. Mix and knead on a floured countertop until it is smooth. Place dough in a clean greased bowl, cover with towel and let it rise for 1 1/2 hours. Remove from bowl and knead in the cornmeal.

Make dough into two balls rolling each into 12 inch (30 cm) circles 1/2 inch (1.25 cm) thick. Cut each circle into two-inch (5 cm) squares and drop into hot cooking oil. This works best with a cast iron skillet that has about two inches (5 cm) of oil in it. Fry five pieces at a time for only a few minutes. Drain on paper towel and sift icing sugar over them. Serve with strawberry jam.

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

UNDERACTIVE THYROID

Does iodine help thyroid?

HEALTH CLINIC



CLARE ROWSON, MD

Q: I have an underactive thyroid gland and am taking Synthroid, one pill a day. One of my friends thinks that I will not need to take the pills if I take extra iodine in my diet? Is this safe and a good idea?

A: There is a fringe group of naturopaths and doctors who advocate drinking Lugol's iodine to supplement the natural iodine found in some food.

Their reasoning is that the thyroid gland needs iodine to manufacture the hormone thyroxin. People with low thyroxin levels in the blood have a condition known as hypothyroidism, which makes them tired, weak and sluggish with a low pulse rate and low metabolic rate leading to weight gain. They also have brittle nails and coarse, dry hair and feel cold even in warm weather.

The problem with this seemingly harmless idea is that the iodine will at first have a stimulating effect, which makes the person who takes the supplement feel better to start, but can be a sign that the gland is being dangerously overstimulated and will eventually fail to produce any thyroid hormone on its own.

This is a result of something known as the Wolff-Chaikoff effect. The precise mechanism for this phenomenon is not yet completely understood. Of course, if you have had your thyroid removed or it has ceased to function already, then you are wasting your time and efforts in taking iodine supplements. Iodine is not a completely safe mineral because too much can lead to heart attacks or epileptic seizures.

There used to be a condition known as "Derbyshire neck," a swelling in the throat or a goiter, which was first noticed in the early 1800s in the United Kingdom county of Derbyshire. This area of the midlands was later found to be lacking natural iodine in the soil.

Today, iodine supplements are added to regular salt, so most people get plenty in their normal diet. Sea salt, cheese, beef, fish and eggs or vegetables such as spinach, kale and beans all contain natural iodine. The daily recommended dose is so small that it is measured in micrograms.

Iodine is also sometimes used externally as an antiseptic or to kill fungal skin or nail infections. It can burn if too concentrated, but it is safe to use on the skin diluted.

In your case, I suggest that you continue to take your medications as prescribed by your doctor. You will also need to have a blood test about once a year to determine if the dosage of thyroxin is still the correct one.

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



ABOVE: Amy Flitton shows grain to elementary schoolchildren visiting her family's farm. The children got to touch and grind grain and see what kinds of food contain grains and oilseeds.

BELOW: Young students wait for the water to come down the irrigation pivot at Twin Valley Farms near Vulcan, Alta. | BARBARA DUCKWORTH PHOTOS

ON THE FARM

Farmers eager to educate kids about agriculture

Students learn about growing crops, raising animals and ag technology through hands-on activities

BY BARBARA DUCKWORTH
CALGARY BUREAU

VULCAN, Alta. — Farmers are frequently told they need to reach out to their city cousins and show them where their food comes from.

One southern Alberta family took up the challenge by opening up their operation to Calgary schoolchildren for three days in May.

The idea was born in 2010 when Calgary teacher Natalie Cox approached her friend Ryan and his wife, Jenna Flitton, to see if she could bring her Grade 1 and 2 students to the family farm near Vulcan.

The family agreed and since then the field trip has grown into a three-day event involving the entire Flitton family, friends and neighbours as well as corporate sponsors.

More than 300 children show up for a day that talks about everything from where milk comes from to how a modern irrigation pivot works.

"We feel as a farm it is partly our responsibility as farmers to educate city people so that they know where their food comes from and that farms are good and safe," said Bev Flitton.

The array of volunteers includes Bev and Gary Flitton and their adult children, Ryan and Jenna, Noel and Amy Flitton and daughter Richelle and her husband, Troy Stirling.

The family owns and operates Twin Valley Farms where they cultivate about 12,000 acres, growing barley, wheat, pea, canola and fababeans. Part of the operation is irrigated and also includes a 100 head cowherd.

Ryan talks via Skype before groups visit and then greets them as they arrive with information about what farmers do through games and hands-on activities.



Gary and Bev Flitton say that farmers have a responsibility to educate city people about where their food comes from.

ON THE FARM



THE FLITTON FAMILY
Vulcan, Alta.

nizing and finds helpers and sponsors like Agriculture for Life, Ag for Evermore, UFA, Cargill and Bayer to help with funding and volunteers for the stations.

Children receive a goodie bag of homemade cookies, an apple, seed samples and activity books.

It is a big commitment for the family because it takes them away from farm work but they agree it has been well worth it over the years.

Cox says her students are absorbing information that could stay with them for a lifetime. Information about soil, planting seeds, irrigation and animal care also fit the social studies and science curriculum.

"It is a lifelong experience for them. I know they are going to take what they learned here and anytime anyone talks about farming they are going to relate it back to this experience," Cox said.

"The students I taught seven years ago still talk about it."

Children learn about farming, but also volunteering.

"All these family members and community members come together to put this day together for them and I think it is an amazing experience."

They will walk away with that and have a connection with a farmer and their plate.

GARY FLITTON
FARMER

At stations, the children learn about farming and the use of technologies like precision farming, genetically modified canola or chemicals like glyphosate.

"The kids come and have a feel good day," said Gary. "They will walk away with that and have a connection with a farmer and their plate. They realize it just doesn't come on the shelves by itself. Somebody grows it."

"The rest is to try and speak to the teachers," he said, because the family sees the parents and teachers as the influencers.

Bev does much of the initial orga-

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CLASSIFIED CATEGORY INDEX

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FOR A COMPLETE CATEGORY LIST VISIT US ONLINE AT FARMZILLA.COM

ANTIQUE EQUIPMENT 0703

49TH ANNUAL DIVIDE COUNTY THRESHING BEE, July 14, 15, 16th, 2017 at Crosby, North Dakota, Pioneer Village. This year featuring the Rumely equipment. Complete line of the oil pull heavy weights and most of the light weight and super powered ones on display and running. Will have four different steamers sold by Rumely on display and running. A dozen steamers in all, steamed up. Also will have Aultman Taylor 30-60, 25-45 and 22-40. Several Allis Chalmers tractors running all connected to the Rumely line. Many other large farm tractors in the parade. Threshing, lumber sawing and plowing with the old equipment. Parade on Saturday and Sunday, 1:00 PM. Will have many fine cars and horse drawn wagons in parade. Stationary running engines on display. Large flea market and toy show on the grounds. Will have the 10th Annual TractorCade on Friday at 9:00 AM. Bring your rubber tired tractors and take part. Music Show Friday evening. Talent Show and dance Saturday evening. Church Service on grounds Sunday at 9:00 AM. Collectible Auction, Sunday, 5 PM. Games, rides and contests for the kids Saturday and Sunday. Any collectible equip. for display or parade welcome. Daily admission \$10 per day. 3 day pass, \$20. Under 12 years- free! For more info. call 701-965-6741 or 701-965-4228. This ad is paid by the Crosby Visitor's fund.

ANTIQUE Misc. 0710

OLDER FIREARMS WANTED. Have valid firearms license and cash for older firearms. Also buying antiques. Call 306-241-3945, Kyle, SK. dennisfalconer123@gmail.com

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

CEDAR TONGUE AND GROOVE siding (14' & 4'); Scratch tickets (1995-2015); Lions pins; Beehive books 1945; Planter jars; Heinz bottles; Old Pepsi bottles; Polish and Hungarian books; Air wave radio; Round window w/frame (24x24); Old road maps - CDN and US. 306-654-4802, Prud'Homme

AUCTION SALES 0900

PBR AUCTIONS Farm and Industrial Sale last Saturday of each month, great for farmers, contractors and the public. www.pbrauctions.com 306-931-7666.

ONLINE AUCTION: "Ready-Aim-Consign" Monthly Firearms Sale. Bids close June 29th, 203-60th St. E., Saskatoon, SK. Call Derek 306-227-5940. PL #331787. McDougallAuction.com

AUCTION SALES 0900

AUCTION SALES 0900

AUCTION SALE
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AIRPLANES 0400

1998 ZENAIR 601 HD, TTA 77.5, warp drive ground adjustable propeller on Subaru E81 c/w Johnson reduction drive, power trim, asking \$26,000. May consider pickup truck as part trade. 306-229-7911. ronald.peters96@gmail.com Martensville

CHINOOK COMPLETE STRUCTURE and fabric, professionally redone by Dobs Aviation Regina, \$11,500. Phone Brad at 306-332-7997, Fort Qu'Appelle, SK.

1980 CESSNA 185F, 300 HP, 10270 TT, 1370 SMOH, 1070 SPOH, EDO 3430 floats with hatches, hyd. wheel skis, NavCom RT385A, 4-place intercom, programmable 2-way FM radio, Cessna ADF 406 Apollo GPS, AC, meticulously maintained, \$137,000. The Pas, MB., phone 204-623-5784, or email: gmelko45@gmail.com

1967 CESSNA G single engine prop 150/150, O-320-E2A, tail dragger, LR fuel, STC, auto fuel, STOL, 2200 TT, 180 SMOH. All private hrs., exc. cond., all AD's completed, no snags, STC 1760 GW. Good, clean aircraft, great performance, \$45,500. 867-393-4890, 867-332-8393, Yukon, YT. macpherson@northwestel.net

ALARMS/SECURITY SYSTEMS 0500

WIRELESS DRIVEWAY ALARMS- 1/2 mile range. Easy to install. Calving/polling barn cameras, backup cameras for RVs, trucks and combines, etc. Free shipping from Calgary, AB. 403-616-6610.

ANTIQUES

ANTIQUE EQUIPMENT 0703

OLDER ELEVATOR ENGINES for sale: Fairbanks, Ruston & Hornsby's, some on wagons; Also over 300 antique cast iron implement seats, sold in lots of 10, no selective picking. 780-991-6035, Leduc, AB.

1952 JD 60 Row Crop tractor, good cond. Will send pic if interested, \$3200. Eyebrow, SK, 306-624-0669 mehall.hall5@gmail.com

ANTIQUE EQUIPMENT 0703

WANTED OLDER TRACTORS: Deutz Deca, Fahr D800, F4L514, 8005, 9005, 13006; Wanted: Lanz Bulldog & stationary engines. Call 705-927-7519.

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JD 4010 gas, JD 4020 powershift, JD 4020 std. All need restoring. \$2500 each or take all \$4500. 306-424-7511, Montmartre, SK.

COCKSHUTT 20 SERIES 595 tractor, fully restored, good running order, \$16,500. 780-674-5187, Barrhead, AB.

SECOND CHANCE: 2 Oliver 88 Tractors, 1 running, w/bucket. 1 for parts. Both under roof & good cond. Copy of manual avail., \$1500 firm for both. 780-372-3834, Serious inquiries only. Bashaw, AB.

CASE MODEL VA TRACTOR c/w PTO and belt pulley, \$2000. Call 306-582-2045, Vanguard, SK.

CLARK SKIDDER 667B, \$5000; IH T5 Cat w/loader, \$4000; 1976 Chev dually tow truck, \$1500; 1971 Volvo 144 sedan, \$1800. Call 306-747-3694, Shellbrook, SK.

IHCC CHAPTER 38 will hold their annual show at Heritage Acres, August 5-6, 2017 in Pincher Creek, AB. Program includes: For the museum, their 30th anniversary, dedication of the restored dairy barn, and celebrating Canada's 150th Birthday. For Ch.38, anything marketed by IH, feature display of crawlers and Loadstar trucks. For more info visit www.heritageacres.org or www.ihc38.com or phone Darald Marin at 306-869-2262.

ADRIAN'S MAGNETO SERVICE. Guaranteed repairs on mags and ignitors. Repairs. Parts. Sales. 204-326-6497. Box 21232, Steinbach, MB. R5G 1S5.

STATIONARY ENGINES: JD 1 1/2 HP, \$600; JD 3 HP \$1200; IH 1 1/2 HP \$200. Photos avail. 780-763-3868, Mannville, AB.

1965 CASE 930 TRACTOR w/square fenders, 6000 hours, good condition, taking offers. 306-645-4240, Rocanville, SK.

JOHN DEERE 60, 70 and Model R tractors for restoration, \$2500 each or take all for \$4500. 306-424-7511, Montmartre, SK.

COMPLETE SET OF MM TRACTORS, RZUG, all run, matched rubber, wide axles, \$8000. 250-545-9133, Vernon, BC.

1964 CASE 830 DIESEL TRACTOR, runs good, good tires, high-low range. 306-492-4642, Clavet, SK.

CAT 2 BAR styled dozer for 5U series D2 Caterpillar, no hydraulic pump and control well. Ph 306-279-4706, Yellow Creek, SK.

ANTIQUE VEHICLES 0705

1951 IHC L 130, 1 ton, dual wheel, wood box, hyd. hoist, 45,220 orig. miles. Taking offers. 306-773-4088, Swift Current, SK. Email: edger.spdcrk@sasktel.net

JIM'S CLASSIC CORNER - We buy or sell your classic/antique automobile or truck. Call 204-997-4636, Winnipeg, MB.

Unreserved Public Farm Auction

George & Brenda MacPherson
Edgeley, SK | July 5, 2017 · 11 am



1997 John Deere CTS II



1995 Massey Ferguson 200 26 Ft

AUCTION LOCATION: From EDGELEY, SK, go 4 km (2.5 miles) West on Hwy 10, then 8.5 km (5.3 miles) North, then 2.6 km (1.6 miles) West. Yard on South side. **GPS:** 54.6879000, -104.0783611

A PARTIAL EQUIPMENT LIST INCLUDES: 1989 John Deere 8760 4WD Tractor · 1989 John Deere 4555 2WD Tractor · 1997 John Deere CTS II Combine · 1993 John Deere 930 30 Ft Rigid Header · 1995 Massey Ferguson 200 26 Ft Swather · 1972 Ford 700 Tag Axle Grain Truck · 1972 GMC 5500 S/A Grain Truck · 1981 Ford S/A Grain Truck · 1999 Cow-Poke 16 Ft T/A Gooseneck Horse Trailer · 2010 Seedmaster 30 Ft Air Drill · 1997 Morris 7130 Tow-Behind Air Tank · Morris L-225 29 Ft Cultivator · John Deere 100 20 Ft Cultivator · 1997 Flexi-Coil 65 80 Ft Field Sprayer · 15 Grain Bins · Grain Handling Equipment...AND MUCH MORE!

For up-to-date equipment listings, please check our website: rbauktion.com

George MacPherson: 306.699.2625 (h)
306.699.7877 (c), macpherson@sasktel.net
Ritchie Bros. Territory Manager -
Kevin Ortt: 306.451.7388 800.491.4494

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REGINA: 2012 Massey Ferguson 6480 MFWD Tractor w/MF 968 Loader; 1985 Case IH 1460 Combine w/IH 810 Header; 1982 New Holland TR85 Combine w/NH 970 Header; 1964 Chevrolet 60 S/A Grain Truck; 1982 Ford F1700 Utility MFWD Tractor; 1988 John Deere 2755 Tractor w/ JD 148 Loader; 2003 New Holland BR 780 Round Baler; 1979 New Holland SP 1069 Bale Wagon.

SASKATOON: Trucks & Vehicles; 2012 Tracker Targa V18 Combo Boat/Trailer; Trail Sport Trailer; Unreserved Salvage Vehicles, Quads, Snowmobiles; UPCOMING: Jun 30 - Mobile Home, PA: Jul 6 - Construction & Fabrication Equip & Surplus; Jul 20 - Contemporary House & Bins for Removal - Wiseton, SK.

ALBERTA: Senior Centre Surplus Inventory Auction - July 5.

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AUCTION SALES 0900

RETIREMENT FARM AUCTION for Ron Schneider And Guest Consignors, 10:00 AM, Sunday, July 9th, 3 miles East of the Wolseley Co-op, 0.5 mile North, Wolseley, SK. Case 4490 4 WD tractor, PTO, new injectors, 4 hyd, 23.1x30 tires; Degelman 3000 36' air seeder w/harrows, Morris 130S tank, hyd. drive; Case 725 PTO swather; Versatile 18' swather; DT cultivators w/harrows; MF 850 dsl. combine w/chopper; 9001 PU header; Morris CP-731 DT cultivator w/Prasco Superseeder; grain augers; Shaver front mount post pounder; Westeel single wall 2273 litre fuel tank w/Fill-Rite 15GPM pump; grain cleaner; Flexi-Coil 50 80' field sprayer; Flexi-Coil 95 60' harrow packer bar, P-20's; bins; 1976 Chev C60 grain truck, steel B&H, roll tarp, V8, 5.82; and much more! **Brad 306-551-9411, www.2sauctioneers.ca PL #333133.**

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AUCTION SALES 0900

FARM RETIREMENT & Tractor Auction for Bob & Janice Schapf, Friday July 7th, 10:30AM in Ochre River, MB.; Featuring: 1980 IH 4386 4WD tractor, 18.4x38 duals, 3750 hrs., always shedded; Hesston 140-90 FWA, front end redone at Bayed equipment, new Firestone rear tires, c/w Allied 784 FEL, grapple fork; JD 4020, good, 18.4x34 rubber, really nice condition, excellent tin, new front tires; 1965 JD 3020 c/w JD 148 FEL, bucket and bale fork; JD 60 tractor; CASE DC4 tractor; 88 Oliver side panels, grill, etc.; JD A tricycle tractor, styled; JD B tricycle tractor, styled; JD 830 diesel, nicely restored; Restored Farmall "A" tractor; McCormick W4 tractor; JD "LA" parts tractor; 1976 JD 7700 turbo combine c/w belt PU, chopper, always shedded; CIH 8465 automatic round baler, shedded; 12' IH 8360 mower conditioner, hydra-swing, shedded; Westfield pencil auger; 8' JD one-way disk; Blanchard tailgate drill mill; Big Daddy poly hopper; Sakundiak HD741 grain auger c/w Kawasaki, 14HP c/w Wheatearth bin sweep; Labtronics 919 grain tester c/w case, charts and scale; 3PTH cultivator (spring tooth); 3PTH disc plows; 2 bottom Ferguson 3PTH plow; 4 wheel JD farm trailer; Vicon 6-wheel split frame rake; Diamond fertilizer tank; F10 Farmhand FEL; Farmhand PTO hyd. pump; Grass seed seeder; Farm-King 180, 18" roller mill needs hyd. drive on rear auger; Diamond harrow sections; 6 bottom IH 770 auto reset plow; 18' JD tandem disk SF/SR 22" blades; 17 bale hay trailer c/w 5th wheel, duals all around; 6 or 8 new 22" blades for JD disk; 1992 27' Citation camper; 2002 Honda FourTrax, 300 standard shift; Honda V45 street bike, restorable; 1992 Indy EFI 500 snowmobile; 1966-67 IH 1300 truck c/w flatdeck & gooseneck ball, brake controller (as is); Lawn mower c/w bagger; Craftsman 5.5HP 26" commercial mower. For information about the equipment call Bob 204-733-2436. See site: www.gartonsauction.com for full listing!

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1-800-667-7770 | farmzilla.com

AUCTION SALES 0900

FARM RETIREMENT AUCTION for Winnipegosis Lakeside Farms, Saturday, July 8th, 10:30AM in Winnipegosis, MB. Featuring: 2004 6420 FWA; 640 SL FEL, grapple, 3PTH, good rear rubber; 1996 JD 7200 FWA c/w 740 self-levelling FEL, bucket, duals, 3PTH, engine 2 yrs. old, trans & MFWD overhauled; JD 2130 tractor, 3PTH, FEL, bucket & grapple; JD 1830 tractor; 1970 JD 920 diesel tractor, 3PTH, fairly good rubber; 8' blade, 8' HD large bucket for JD Q/A 640/740 FEL; Belt pulley attachment for 2130 JD; 3PTH bale fork c/w 146 FEL; 2 - 3 prong bale spears (1 with Q/A for 640/740 FEL); 2000 JD 566 round baler, nice shape, always shedded; JD 1600 14' mower conditioner, always shedded; 9' IH 1100 trailing mower; 36' (17 bale) bale trailer, drill stem and tubing deck, duals on front and rear, KingPin steering; JD 336 square baler, manual tension, 1/4 turn chute, gathering wheel; NH 1033 Hayliner bale picker T/A, good condition; GEHL 219 9-wheel hay rake; Vicon 6-wheel split frame hay rake; JD side delivery rake; NH 47 trailing mower; JD 4 wheel farm trailer; 2000 JD 566 round baler, nice shape, always shedded; JD 1600 - 14' mower conditioner, always shedded; 9' IH 1100 trailing mower; 36' (17 bale), bale trailer, drill stem and tubing deck, duals on front and rear, KingPin steering; JD 336 square baler, manual tension, 1/4 turn chute, gathering wheel; NH 1033 hayliner bale picker, T/A, good condition; GEHL 219 9-wheel hay rake; Vicon 6-wheel split frame hay rake; JD side delivery rake; NH 47 trailing mower; JD 4 wheel farm trailer. For info about the equipment call Vernon 204-656-4496 or Merlin at 204-638-6634. For full listing see: www.gartonsauction.com

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AUCTION SALES 0900

AUCTION

ENTIRE LIQUIDATION OF ARTICULATE MASONRY: 1084 Central Ave, Prince Albert, SK. Everything is selling unreserved! **Featuring Real Estate:** 4000 sq.ft. warehouse/workshop w/separate 2-story office/living quarters building of 4800 sq.ft. main floor office area and 1500 sq.ft. second floor living quarters w/6 bdrms, 2 bath, and laundry facilities. All on 2.14 acre fenced compound w/compacted base gravel surface. Zoned R2. **Vehicles:** 2012 Ford King Ranch F350, dsl.; 2005 IH 3 ton deck truck; 2004 Chev 3/4 ton; 1991 Dodge 1 ton dsl.; 2002 GMC 3/4 ton w/topper; 2007 Ford F350 dsl. crew cab; snowmobiles; and more! **Classic Vehicles:** 1966 Pontiac GTO; 1991 Chev 454 SS 1/2 ton; 1973 Camaro; 1972 Lemans; 1963 Lemans; 1992 Ford Mustang GT; salvage parts vehicles. **Equipment:** Complete batch cement plant; JD Acreage Tractor w/attachments; Trail Rite 5th wheel flat deck trailer; tool trailer; Zoom Boom fork lift; A/C fork lift; car trailer; and more! **Tools & Misc:** welders; cement mixers; concrete tools; power tools; tool boxes; wrenches; hand tools; scaffolding; bricks; blocks; rakes; shovels; and misc. inventory. **You name it, it's here!** It's a complete functioning workshop! Items start closing Thursday, July 6th at 10:00 AM CST. PL# 914915. For details, visit www.grasswoodauctions.com

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Unreserved Retirement Auction

Rhinas Farms Ltd – Dale & Myrna Rhinas
Willowbrook, SK | July 6, 2017 · 10 am



2002 John Deere 9650STS & 1996 John Deere CTS



2010 John Deere 4730 100 Ft



2008 New Holland T9040HD & 2010 Seed Hawk 6010 60 Ft w/800



2005 John Deere 4895 30 Ft



2000 Brent 874



2005 Mack Vision & 2007 Wilson DWH-550

AUCTION LOCATION: From WILLOWBROOK, SK, go 6.4 km (4 miles) South on Hwy 47, then go 1.6 km (1 mile) West OR From YORKTON, SK, go 24 km (15 miles) West on Hwy 52, then go 6.4 km (4 miles) South, then go 1.6 km (1 mile) West. **GPS: 51.1515, -102.8261**

A PARTIAL EQUIPMENT LIST INCLUDES: 2008 New Holland T9040HD 4WD Tractor · 2002 John Deere 9650STS Combine · 1996 John Deere CTS Combine · 2011 John Deere 635F 36 Ft Flex Header · 2005 John Deere 4895 30 Ft Swather · 2005 Mack Vision T/A Truck · 2007 Wilson DWH-550 T/A Grain Trailer · 2007 Wilson Road Brute 48 Ft T/A Sprayer Step Deck Trailer · 2008 Duncan 16 Ft T/A Stock Trailer · 2010 Seed Hawk 6010 60 Ft Air Drill · 2006 Morris Field Pro 70 Ft Heavy Harrows · 2010 John Deere 4730 100 Ft High Clearance Sprayer · 2002 Brandt QF2500 100 Ft Field Sprayer · 2010 Brandt 1070 10 In. x 70 Ft Grain Auger · 2000 Brent 874 Grain Cart · 2008 Rem 2700 Grain Vac...**AND MUCH MORE!**

For up-to-date equipment listings, please check our website: rbaction.com

Dale Rhinas: 306.783.4541 (h)
306.641.4233 (c), mrhinas@yahoo.ca
Ritchie Bros. Territory Manager –
Dan Steen: 306.361.6154 800.491.4494

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Unreserved Public Farm Auction

Kitchen Brothers – Bob & Don Kitchen
Oakville, MB | July 7, 2017 · 12 Noon



2013 Case IH 500 & 2007 Case IH 480



2001 Rogator 854 90 Ft



2-2010 Case IH 9120



1984 Versatile 875



2006 Case IH 5010 Concord 50 Ft & 2004 ADX3430



Unused-2013 Sumo 9 LG Subsoiler

AUCTION LOCATION: From OAKVILLE, MB, at the Jct of Hwy 1 & Hwy 13, go 3.2 km (2 miles) North on PR Rd 430. Yard on West side. **GPS: 49.980000, -98.01100**

A PARTIAL EQUIPMENT LIST INCLUDES: 2013 Case IH 500 Quadtrac Tractor · 2007 Case IH 480 Quadtrac Tractor · 1984 Versatile 875 4WD Tractor · 1985 John Deere 4450 MFWD Tractor · (2) 2010 Case IH 9120 Combines · (2) 2011 MacDon D60-S 30 Ft Draper Headers · (2) Sets of 2014 Camoplast 36Q23MA 36 in. Tracks · (2) 2000 Massey Ferguson 220 Series II 25 Ft Swathers · 1995 Freightliner FL80 T/A Grain Truck · 1988 International F1954 T/A Grain Truck · 2006 Case IH 5010 Concord 50 Ft Air Drill · 2004 Case IH ADX3430 Tow-Behind Air Tank · 1993 Monosem NG+ 12 Row 22 In. Spacing Planter · Unused - 2013 Sumo 9 LG Sub 19 Ft 8 In. Subsoiler · (2) Case IH 5600 Cultivators · (2) Elmers 6400 40 Ft S-Tine Cultivators · 2001 Rogator 854 90 Ft High Clearance Sprayer · Grain Handling Equipment...**AND MUCH MORE!**

For up-to-date equipment listings, please check our website: rbaction.com

Bob Kitchen: 204.856.6770
kitchenbros@gmail.com
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AUCTION SALES 0900



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AUCTION SALES 0900

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AUCTION SALES 0900

Unreserved Public Auction

Regina, SK

July 11 (Tuesday) | 8 am



2015 John Deere S680



1 of 2— 2013 John Deere S690



2009 John Deere 9630



2003 Case IH MX255



2014 John Deere W150 35 Ft



1 of 3— 2014 Case IH WD1203 36 Ft



2012 Case IH Patriot 4430 120 Ft



2008 Apache AS1010 90 Ft



2012 Bourgault 3320PHD SE 40 Ft w/6450



2013 Brent 1082



2006 New Holland BW28



2016 John Deere 569



2015 MacDon A40-D 18 Ft



2012 International ProStar+ & 2004 Wilson Road Brute 48 Ft



1998 Peterbilt 330



2— 2013 Freightliner M2



2014 Massey Ferguson 9250 35 Ft



2— 2012 New Holland 880CF 45 Ft

Regina, SK
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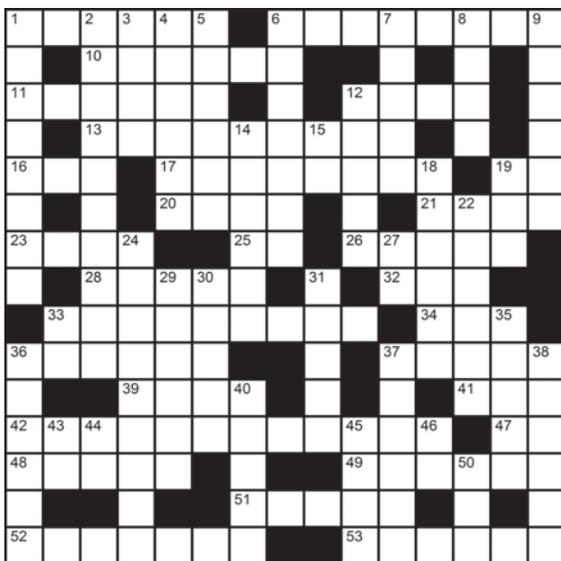
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Entertainment Crossword by Walter D. Feener



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A ELARA TEA G
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DESK LILY EAT
TERMINI IRVING
H RAN MUSE YR
ALONSO ROSEWOOD
L R G IN ROUND
I ERIC NON A
ANNABETH BADGUY

Last Weeks Answers

- ACROSS**
- He played Agent Riley Finn on *Buffy the Vampire Slayer*
 - He played Detective Nick Burkhardt on *Grimm*
 - 1980 Robin Williams and Shelley Duvall film
 - Stevens who is on the Hollywood Walk of Fame
 - Paris, je t'* (2006)
 - 1999 Devon Sawa and Seth Green horror comedy (2 words)
 - English actress Hayman
 - Welsh actor who played Q in some James Bond films
 - American teen drama TV series (with *The*) (2003-2007)
 - British-American actress Petrova
 - He played the first Darrin Stephens on *Bewitched*
 - She played Tony Soprano's mistress Irina Peltsin on *The Sopranos*
 - Initials of the actress who plays Korin in *Memoirs of a Geisha*
 - One of Satan's three sons in an Adam Sandler film
 - Tatum or Ryan
 - Hallam* (2007 British film)
 - TV series created by Mark Frost and David Lynch (2 words)
 - British-American screenwriter Dobbs
 - Birthplace of Everwood actress Stephanie Niznik
 - He played Ivy Dickens on *Gossip Girl*
 - He played Oscar, the Lion Tamer in charge of Sudan the Lion in *Big Top Pee-Wee*
 - Peter's campaign strategist and crisis manager on *The Good Wife*
 - 1937 film starring Edward G. Robinson and James Stewart (with *The*) (2 words)
 - Initials of the actress who played a Canadian nurse in *I Walked with a Zombie*
 - She played Martha Cox in the Disney *High School Musical* movies
 - Who's* of *Virginia Woolf?*
 - United States Army Air Forces Captain in 1941
 - Actress Bartlett who played Sally Field's mother in *Sybil*
 - He plays Benjamin Jones on *The Catch*
- DOWN**
- Producer of many James Bond films
 - 2012 Canadian-French film starring Jim Sturgess and Kirsten Dunst (2 words)
 - Mountain* (2003)
 - Johnny* (1940)
 - He played Dr. Jacob Hood, science adviser to the FBI, on *Eleventh Hour*
 - 2013 film starring Ethan Hawke and Selena Gomez
 - Cricket* (*Men in Black* weapon)
 - Love, Honour and* (2000)
 - Terminator* sequel words
 - Baghdad Café* writer and director
 - Canadian actress who plays Kate Andrews on *Bomb Girls*
 - Initials of the actress who played Summer Quinn on *Baywatch*
 - Alexys Sanchez (she played Becky Feder in *Grown Ups* and *Grown Ups 2*)
 - Meghan from British Columbia
 - He played Danny Noonan in *Caddyshack*
 - 1915 Charlie Chaplin short (3 words)
 - What* (2010)
 - Said* (2013)
 - He played young Sal Tessio in *The Godfather: Part II*
 - Prelude to* (2 words) (1992)
 - Initials of the actor best known for his starring roles in spaghetti westerns
 - Hidden Figures* director
 - Martin or Talia
 - To* (1995) (2 words)
 - 2007 film Vanessa Redgrave was in (with *The*)
 - Main character in *Escape from New York*
 - Breakfast* *Tiffany's*
 - Lon Chaney No. 1
 - Force* (1949)
 - George Martin (his fantasy novels, *A Song of Ice and Fire* was adapted into the HBO series *Game of Thrones*)
 - Hany Assad (Dutch/Palestinian film director)

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2007 XL triple axle detach. neck lowbed with rear flip-up axle, new: sandblasted, sils, paint and oak deck, new safety, \$45,000. 204-871-0925, MacGregor, MB.

2004 GREAT DANE, Super Seal Reefer, air ride, light kit, low hrs.; 30' Castleton grain trailer, Michel's tarp, air ride, some rust; Water tankers, 5000, 5800, 11,000 gal., reasonably priced. 204-466-3177, Sidney.

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2007 XL triple axle detach. neck lowbed with rear flip-up axle, new: sandblasted, sils, paint and oak deck, new safety, \$45,000. 204-871-0925, MacGregor, MB.

2004 GREAT DANE, Super Seal Reefer, air ride, light kit, low hrs.; 30' Castleton grain trailer, Michel's tarp, air ride, some rust; Water tankers, 5000, 5800, 11,000 gal., reasonably priced. 204-466-3177, Sidney.

1999 TRAILTECH, pintle hitch, 2-20,000 lb axles, w/slideouts max. 14', min. 8'6", used for forage harvesters, good for sprayer, etc., \$19,500. 780-367-2483, Willingdon.

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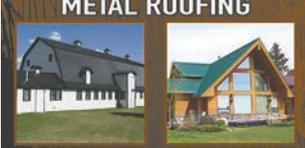
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GRAIN AUGERS 4115

MERIDIAN GRAIN AUGERS: 10x39 pkg, \$16,500 installed; 10x46 pkg., \$17,500 installed; and 8x53 pkg., \$16,375. Brian 204-724-6197, Souris, MB.

USED AUGERS: 2013 R10x41 Wheatheart, loaded, \$9995; 2014 TL12-39, loaded, \$14,995; 2014 SLMD 12-79 w/electric motor and lift, \$16,995. All in excellent condition. 306-648-3622, Gravelbourg, SK.

WANTED: 7x45 or 7x50 Sakundiak auger w/angle iron frame and without motor. 306-549-4030, Hafford, SK.

RM45 MERIDIAN, \$34,500; RM55 Meridian, \$36,500; Swing away Meridian 20-120, \$52,500. 306-648-3622, Gravelbourg

MERIDIAN GRAIN AUGERS available with self-propelled mover kits and bin sweeps. Call Kevin's Custom Ag in Nipawin, SK. Toll free 1-888-304-2837.

PRICE TO CLEAR: Loaded 2016 HHD8-46 TL10-39; SLMD 12-72 and SLMD 12-95. Used Augers: 2012 SLMD 12-72 w/winch and swing mover; Brandt 10x60 S/A; Wheatheart 8x51' c/w mover. Also dealer for Convey-All Conveyors. Leasing avail! Call Dale at Mainway Farm Equipment, 306-567-3285, 306-567-7299, Davidson, SK. www.mainwayfarmequipment.ca

MERIDIAN AUGERS IN STOCK: swings, truck loading, Meridian SP movers. Call Hoffart Services Inc., Odessa, SK., 306-957-2033.

GRAIN AUGERS 4115

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2007 SAKUNDIAK HD12-2600 swing auger, hydraulic winch, remote control swing mover, full bin alarm, \$12,000. 306-539-5473, Kendal, SK.

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2015 BRANDT 13110HP, electric winch, light kit, remote swing, anti-slag spout with full-bin indicator, exc. cond., \$24,500; **2015 Batco 1585**, 25HP elec. Honda motor w/mover kit, like new cond., \$24,500. Call 306-472-7704, Woodrow, SK.

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764397



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\$59,000

Stock #2015-06R

2006 International 4300 4x2

Single Axle Grain Truck, International DT466 engine (210) HP, Allison (Auto) transmission (5 speed), Air brakes, 268024km, 8000 lbs front axle capacity, 17500 lbs rear axle capacity, A/C, grainmaster grain box with removable sides. Regina, SK



\$19,900

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



\$69,500

Stock #V221253

2012 International 7600 6x4

Tandem Axle Cab & Chassis, MaxxForce 13 engine (430) HP, Eaton Fuller O/D transmission (13 speed), 395764km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, Extended cab tandem with small sleeper. Regina, SK



\$79,900

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. Regina, SK



\$59,900

Stock #433263

2013 International ProStar +125

Tandem Axle Day Cab Tractor, MaxxForce 15 engine (500) HP, Eaton Fuller Ultra Shift transmission (18 speed), Air brakes, 278998.0km, 14000 lbs front axle capacity, 46000 lbs rear axle capacity, 4-Way rear lockup, A/C. Calgary, AB



\$84,900 USD

Stock #FB149591

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/Int Access 5 steps, Width: 102in, Length: 29ft, Lead Unit, PRICE GOOD FOR A LIMITED TIME ONLY. Brandon, MB



\$47,900 USD

Stock #FB149304

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



\$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

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4.25"x8' Rd Treated Post \$9⁴⁹
5.25"x7' Rd Treated Post \$10⁹⁹
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2004 NH CR970 COMBINE

HN3179C



2330 T HRS, 2008 76C P/U HEADER 14' RAKE UP, LIGHT BEACON/DELUXE CAB, LONG AUGER, SIEVE REMOTE ADJ, 900/60R-32 SINGLES, 600/65R-28 REAR, AIR CLEANER UPDATE KIT

SALE \$85,000 (H)

2006 CASE 2388 COMBINE

HN3374C



2611 T HRS, SHEDDED, ROCK TRAP, SPECIALTY ROTOR, SWATH MASTER, AFX ROTOR

SALE \$95,000 (H)

2011 NH CR9090 COMBINE

HN3376A



1421 T HRS, TIRES DIS 620/70R42, AUTOGUIDANCE NAV II, AXLE EXTENSIONS, AXLE DIFF LOCK, GPS 262, INTELLICRUISE, HP/XP OPENED, FULL AUTOGUIDANCE, 15' 790CP HEADER, COMPLETE INSPECTION

SALE \$229,000 (H)

2013 MCCORMICK MTX120 TRACTOR

HN3491B



2500 HRS, L458 SELF LEVELING LOADER

SALE \$95,000 (K)

2011 NH BR7090 BALER/ROUND

HN3674A



82" PICK UP, BALE COMMAND, ENDLESS BELTS, HYD PICKUP LIFT, 21.5 X 16.1 10PR, 1000 RPM, NET TWINE, XTRA SWEEP PICK UP W/ RUBBER MTD PU TEETH, 20K BALES

SALE \$28,500 (H)

2012 NH CX8090 COMBINE

HN3683A



905 T HRS, 350 BUSHEL, 520/85R42 DUAL F-TIRES, 600/65R28 R-TIRES, 24" AUGER, AUTOGUIDANCE NAV II CONT/AUTOSTEER, EXT WEAR ELEVATOR, LAT FLOAT FEEDER, 15' 790CP PU HEADER

SALE \$295,000 (H)

2012 NH CR8090 COMBINE

N22549A



813 HRS, 790 CP P/U HEADER, HID LIGHTS, REDEKOP CHOPPER, 620/70R42 DUALS, 540/65R30

SALE \$295,000 (K)

2013 JD S680 COMBINE

N22725C



847 T HRS, LIGHTING HID, POWERCAST POWERED TAILBOARD, POWER FOLD GRAIN TANK COVER, 520/85R42 DUALS, 23 1R26 REAR TIRES

SALE \$378,000 (PA)

2005 NH BR780 BALER/ROUND

N22875B



BALE COMMAND TWINE WRAP, BALE WIDTH IN. 61.5", MAX BALE DIAMETER IN. 72", HYD PU LIFT, STANDARD NARROW PU, LACED BELTS, 800 BALES ON NEWER BELTS & GUIDES, 31x13.50x15 TIRES

SALE \$11,000 (K)

1987 CASE 6000 WINDROWER

PN3020D



25' SHIFT DRAPER (HYD DR), GAS, TRIPLE DELIVERY, 18.4-16.1 DRIVE TIRES, SWATH ROLLER MANUAL MOUNTED

SALE \$5,000 (PA)

2012 NH BR7090 BALER/ROUND

PN3406A



82" (2.07M) PU, BALE COMMAND TWINE, HYD PICKUP LIFT, 7625 BALES

SALE \$27,500 (K)

2009 NH CR9080 COMBINE

PN3410A



2115 T HRS, 76C P/U HEADER (2008) 16' SWATH-MASTER, 620/70 R-42 DUALS, 600/65R-28 XBIB REAR, NH DELUXE CHOPPER, INTELLIVIEW PLUS - 2 SCREEN, UNIT LOOKS GOOD

SALE \$190,000 (K)

2014 VERSATILE 450 TRACTOR

PN3579A



944 HRS, DELUXE CAB, CUMMINS TIER 4 ENGINE, 450HP, QUAD SHIFT 12FX4R HD, DIFF LOCK FRONT AND REAR, 4 HYD OUTLETS, 800 DUALS, OUTBACK AUTOSTEER

SALE \$273,000 (PA)

2013 LOFTNESS GBL10 GRAIN BAG LOADER

PS3512A



TRUCK UNLOADER S/N 68-222, 1000 PTO SHAFT

SALE \$62,500 (PA)

2014 VERSATILE 260 TRACTOR

U22927A



680 HRS, 16 SPEED POWERSHIFT, 24 FRONT WGTs W/BKT, 380/80R38 DUALS, 420/90/30 FTIRES, FENDERS FRONT, 260 HP

SALE \$164,000 (PA)

2009 MASSEY 9430 WINDROWER

W22653B



1115 HRS, TIRES 18.4X26, 120 HP, DIESEL, 4.4L TURBO, 30' CENTRE DRAPER HEADER, UPGRADED TO SCH KNIFE & GUARDS 2012, GAUGE WHEELS, OUTER SKID SHOES, U/I PICK-UP REEL SPAN, HEADER TILT, HYD DECK SHIFT, FORKED REAR CASTER WHEELS 14L-16.1 SL

SALE \$67,000 (PA)

2013 MASSEY 9740 WINDROWER

W22657B



180 HRS, 36' CENTRE DRAPER HEADER, ROTOR SHEARS/TOP CON AUTOSTEER, 18' AUGER HEADER, DED, SEMI ACTIVE SEAT

SALE \$99,000 (PA)

2011 MACDON M150 WINDROWER

W22823A



1104 HRS, D60 35' DRAPER HEADER/HYD TILT, FORE/AFT, TRANSPORT, GAUGE WHEELS, 600-65R28 DRIVES, 16.5-16.1 FORKED CASTERS, HYD DECK SHIFT

SALE \$99,900 (K)

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2007 NH CR9070 COMBINE

HN3467C

1523 HRS, 16' SWATHMASTER 76C PICKUP, DUAL TIRES, MAV STRAW CHOPPER, CALMAR DOWNSPOUT

SALE \$165,000 (H)

2003 NH CR970 COMBINE

HN2485B

2642 T HRS, SIEVE REMOTE ADJ, 2007 76C 14' RAKE UP, 900/60R32 DRIVE TIRES/600/65R28 STEER TIRES, CHAFF SPREADERS, CROP SAVER

SALE \$79,000 (H)

2014 NH CR9090 COMBINE

HN3688A

1073 T HRS, 355 BU TANK, ELEC FLDG HOPPER COVERS, 21' AUGER, 620/70R42 DUAL TIRES, AUTOGUIDANCE, NAVII/AUTOSTEER, GPS 262 ANTENNA, INTELICRUISE, LATERAL FLOAT FEEDER, TWIN PITCH ROTORS, MECH STONE TRAP, AIR, LUX CAB, 15' 790CP PU HEADER

SALE \$355,000 (H)

2010 NH H8040 WINDROWER

HW3387B

785 HRS, 36' SHIFT DRAPER HEADER HB36, FULL CAB W/ AC, CAB DELUXE UPGRADE, PRAIRIE SPECIAL, WINDSHIELD WIPER

SALE \$69,000 (H)

2007 NEW HOLLAND HW325 WINDROWER

PB3497C

30' DRAPER HEADER, DOUBLE KNIFE DRIVE, DOUBLE SWATH ATTACHMENT, UII P/U REEL, FORE/AFT, DUAL ROTO SHEERS, STAND TIRES ON TRACTOR UNIT, REAR AXLE AIR BAG

SALE \$65,500 (PA)

1997 NH TR98 COMBINE

PC315B

30.5 X 32 FRONT TIRES, 14.9-24 REAR, AIR, REDEKOP CHOPPER, SWATHMASTER PICKUP, CRARY HOPPER TOPPER, CALMAR DOWNSPOUTS, NEW TORQUE CONVERTER IN '09

SALE \$46,500 (PA)

2012 NH T5070 TRACTOR

PN3474A

1716 HRS, 830TL LOADER, 83" H DUTY BUCKET W/ GRAPPLE & TINES, 95 PTO 115HP, MID MOUNT HYD VALVE, 24X24 PWR TRANS, HD MFD F-AXLE, 18.4R34 REAR 14.9R24 FRONT, REAR PTO FENDER SWITCHES

SALE \$80,000 (PA)

2013 JD S690 COMBINE

PN3488A

962 HRS, TIRES DLS 650/85R38, GREENSTAR 3, PCAST TAILBOARD, POWER FOLD GRAIN TANK COVERS, 615 P PICKUP HEADER

SALE \$405,000 (PA)

2016 CASE 521F TRACTOR

U23043

379 HRS, LIMITED SLIP DIFF, HEATED SEAT, OP CONV PKG, HYD STEERING, WIDE FENDERS, LOCKING HYD FOR COUPLER, HEAVY CWEIGHT, COLD WEATHER PKG, RIDE CONTROL, 100" BUCKET, 20.5-25 TIRES

SALE \$139,000 (K)

2014 NH T9.565HD TRACTOR

U23072

553 HRS, LUX CAB, NAV II CONTROLLER/RECEIVER/MON, HIGH CAP DRAWBAR, 4 REMOTES, HIGH CAP HYD PUMP, POWER BEYOND, HIGH CAPBAR W/DIFF LOCK

SALE \$313,500 (K)

2013 CHALLENGER WR9740 WINDROWER

W22931A

616 HRS, 36' PLATFORM CENTER 5200 HEADER, ROTO SHEARS, SINGLE KNIFE DRIVE, UII PICK UP REEL, GAUGE WHEELS

SALE \$99,000 (K)

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COMBINE HEADERS IN STOCK

- 2007 Case IH 2020 W22968A **\$25,000**
- 2005 Honey Bee SP36 PW3420A **\$27,500**
- 2005 Honey Bee SP36 PW3425B **\$33,500**
- 2008 Honey Bee SP36 PW3421A **\$34,000**
- 2009 Honey Bee SP30 PH3445B **\$38,000**
- 2012 Honey Bee SP36 HW3384B **\$45,000**
- 2010 John Deere 635D W22978A **\$45,000**
- 2010 John Deere 635D W22979A **\$45,000**
- 2012 John Deere 640D W23041A **\$65,000**
- 2012 John Deere 640D W23042A **\$65,000**
- 2010 MacDon FD70 HN3714A **\$61,500**
- 2010 MacDon FD70 HN3715A **\$61,500**
- 2013 MacDon D65 PW3431A **\$70,000**
- 2013 MacDon D65 PW3432A **\$70,000**
- 2015 MacDon D65 W22974A **\$87,000**
- 2015 MacDon D65 W22976A **\$87,000**
- 1990 New Holland 971 HN3133D **\$4,000**
- 2000 New Holland 994 PW3422C **\$17,000**
- 2003 New Holland 94C N20343E **\$20,000**
- 2004 New Holland 94C PW3422B **\$25,000**
- 2004 New Holland 94C W22786B **\$20,000**
- 2005 New Holland 94C PW3424B **\$33,500**



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535 HP, 5234 hrs, 30" tracks, fronts new, rears 70%, field tested & rented for 2017 seeding, sold with warranty. Lease for \$3308/month with \$19,850 down OAC **\$182,800**



2013 MD FD75-D

45' flex draper, transport, pea auger, AHHC, hyd F/A for CNH, JD, Lex, Agco available **\$79,800**



COMBINES



2010 JD 9870 STS
1715 hrs, Contour Master, bullet rotor, nice condition, pickups & duals available **\$148,800**
NEW MD PW8
16' pickups for CNH & JD, trades wanted **\$29,800**



2009 CX8080
1556 hrs, AHHC, lat tilt, Intelliview 3, long auger, tracks & pickups available **\$147,800**
2007 NH 76C & RAKE-UP
16' pickup, single point, hyd double windguard, good bars, excellent condition **\$19,800**

HEADERS



2009 MD FD70 FLEX DRAPER
40', transport, pea auger, AHHC, hyd header tilt **\$54,800**
2005 MD 963
36' rigid draper, PUR, factory transport, hyd reel F/A, for Agco combines/MD swathers .. **\$16,900**



2013 JD 640D
40', hydra-float, pea auger, hyd tilt, for STS/S series, very good condition **\$43,800**
2000 HB 994
30' draper header, Ull PUR, guage wheels, fits CNH, Agco, and Lexion available **\$16,900**

TRUCKS



2012 INTERNATIONAL TERRASTAR
96,016 miles, Hiab 3350 kg crane, Maxforce 7 (300 HP), 5 speed auto, flat deck, 5th wheel, diff lock **\$38,800**
2017 SOUTHLAND DECK TRAILER
18' T/A, unused, 7000 lb axles, 6' ramps **\$6,480**



1994 WESTERN STAR 4964F CRANE TRUCK
584,000 Kms, T/A, Cat 3406, Eaton 18 speed, Ferrari 8300 kg crane, fresh safety **\$19,800**
2003 FORD REFUSE TRUCK
Ford F750 refuse truck, 169,642 Kms, side load, 25 cu yard, A/T, Cummins 5.9L **\$13,800**

CONSTRUCTION



2013 VOLVO L50G-TP/S
Wheel loader, 1323 hrs, 117 HP, hyd quick attach, auto leveling, excellent condition **\$99,800**
2008 JD 304J
Wheel loader, 4542 hrs, 2.1 yd bucket, JD 5030T (73 HP), 2 speed hydrostatic, ready to go **\$64,800**



2013 JD 210K EP
Skip loader, 1336 hrs, 4WD, forks, canopy, personnel carrier, excellent condition **\$49,800**
2008 GENIE S45 BOOM LIFT
4048 hrs, 45' lift, Deutz diesel, 8' platform, 500lb capacity **\$23,800**

MISCELLANEOUS



1986 GRADALL G660C
Wheeled excavator, 7605 miles/4404 excav hrs, GM 8.2L front/4.7L rear engines, air brakes.... **\$17,900**
2010 SCHWARZE SP10
Spray patcher, self-contained, 43 hrs, Isuzu 4 cyl, 2 cu yd hopper, arrow board, control box.. **\$27,900**



2012 HOULE GEA EL48-6D6100
Liquid slurry spreader, 7300 gal, hyd power steering, extended hopper, 28L-26 tires **\$59,800**
SCHULTE BAT WING MOWER & FLEX ARM
10' Schulte XH100 mower & FLX10 arm, good blades, 1000 PTO **\$13,900**

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\$21,000

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\$38,995

2014 JEEP WRANGLER SUV
MANUAL, LEATHER NAV, BLACK
STK#S4309A • 53,561KMS
\$37,995

2012 MITSUBISHI LANCER SEDAN
MANUAL, RALIART, GREY
STK#S4385A • 100,621KMS
\$22,995

- 2008 BUICK ENCLAVE | SUV**
AUTO, GREY, 148,269 KMS, STK#S4251A **\$16,995**
- 2012 BUICK LACROSSE | SEDAN**
AUTO, RED, 24,161 KMS, STK#S3059A **\$23,995**
- 2011 CHEVROLET EQUINOX | SUV**
AUTO, LTZ, BROWN, 98,922KMS, STK#S4090A **\$19,995**
- 2004 CHEVROLET TRAILBLAZER ISUV**
AUTO, CLOTH, SUNRF, CC, WHITE, 147,172 KMS, STK#S2526A **\$7,995**
- 2012 DODGE JOURNEY | SUV**
AUTO, RT, AWD, 5 PASSENGER, RED, 50,284 KMS, STK#S3928A **\$21,995**
- 2013 FORD E-250 | VAN**
AUTO, WHITE, 17,542 KMS, STK#U01631 **\$24,995**
- 2007 FORD F-150 | SUPERCAB**
AUTO, LARIAT, AUTO, SC, LEATHER, PP, HS, CDCHG, 4X4, SR BLACK, 57,542 KMS, STK#U0443 **\$22,995**
- 2014 FORD F-150 | CREW CAB**
AUTO, XLT, CLOTH, 4X4, SILVER, 35,674 KMS, STK#S4359A **\$34,995**

- 2012 HONDA CIVIC | SEDAN**
AUTO, BROWN, 54,532 KMS, STK#S3246A **\$14,995**
- 2013 HONDA RIDGELINE | TRUCK**
AUTO, AWD, CREW, WHITE, 76,330 KMS, STK#U02224 **\$28,995**
- 2010 HYUNDAI ELANTRA | CAR**
AUTO, SILVER, 62,701 KMS, STK#S3771A **\$13,495**
- 2009 HYUNDAI SONATA | CAR**
AUTO, BLACK, 87,980 KMS, STK#U02036A **\$11,995**
- 2015 JEEP CHEROKEE | SUV**
AUTO, NORTH, BLUE, 53,012 KMS, STK#S3999A **\$25,995**
- 2012 JEEP COMPASS ISUV**
AUTO, NORTH, CLOTH, HEATED GREY, 76,390 KMS, STK#S3943B **\$16,995**
- 2008 MAZDA 3 | SEDAN**
AUTO, GS, SILVER, 133,301 KMS, STK#S2060A **\$9,995**
- 2010 MAZDA 6 | SEDAN**
AUTO, PURPLE, 126,302 KMS, STK#S3960B **\$10,995**
- 2015 MAZDA CX5 | SUV**
AUTO, GS, AWD, GREY, 30,096 KMS, STK#S4342A **\$28,995**

- 2009 NISSAN VERSA | HATCHBACK**
AUTO, CVT, CLOTH, PP GREY, 77,919 KMS, STK#U0560 **\$10,995**
- 2007 PONTIAC GRAND PRIX | SEDAN**
AUTO, GREY, 130,337 KMS, STK#S2916A **\$7,995**
- 2009 PONTIAC MONTANA | VAN**
AUTO, BROWN, 96,465 KMS, STK#U01593 **\$12,995**
- 2012 RAM 1500 | TRUCK**
AUTO, SLT, 4X4, WHITE, 43,441 KMS, STK#U01834 **\$26,995**
- 2015 SUBARU BRZ | COUPE**
MANUAL, ST, SILVER, 22,772 KMS, STK#S4287A **\$26,995**
- 2010 SUBARU FORESTER | SUV**
AUTO, AWD, RED, 87,564 KMS, STK#S3649A **\$19,995**
- 2011 SUBARU FORESTER | SUV**
AUTO, CONV, AWD, GREEN, 47,563 KMS, STK#U01853 **\$21,995**
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AUTO, BASE, AWD, CLOTH, PP RED, 91,306 KMS, STK#U0551A **\$11,995**

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MANUAL, AWD, BLACK, 57,322 KMS, STK#U02052 **\$32,500**
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GRAIN CLEANERS 4121

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2008 GSI 1226, 3 PH NG/LPG, 10.5 million BTU, batch or continuous, 3640 BPH. Portable, needs nothing, still in operation, \$91,000. 780-206-1234, Barrhead, AB.

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BALING EQUIPMENT 4139

2015 CASE BALER RB565, under 10,000 bales, wide tires, \$52,000. Call Steve 780-674-8080, Cherhill, AB.

2002 HESSTON 856A BALER, 8280 bales, 2 extra belts, extra PU guards and teeth, \$14,000. 306-233-4971, Wakaw, SK.

HIGH QUALITY NET WRAP 64" & 67" rolls. Covering all areas of SK. Delivery avail. to SK, AB and MB. Quality is guaranteed. 306-227-4503. www.norheimranching.com

JD 375 round baler, 2nd owner, always shedded, exc. cond., field ready, \$4500. 306-274-4823, 306-274-2242, Lestock, SK.

VERMEER 605M ROUND baler, monitor, rickier, new PU, good cond., field ready, \$13,000. Call 306-335-7875, Lemberg, SK.

1997 NEW HOLLAND 664 baler, 540 PTO, Bale Command, runs good, \$6000. Call Duncan or Jeff Lees at: 306-455-2619 or 306-577-1375, Arcola, SK.

BALING EQUIPMENT 4139



2013 CLAAS 3300 RC Quadrant 3x4 square baler, approx. 7000 bales made, very good cond., \$110,000. Can deliver. Call anytime 204-743-2324, Cypress River, MB.

2007 MF 2656A Hesson series round baler, twine/mesh wrap, stored inside, belts and tires good, replaced top drive roller and other new parts, field ready, \$10,500. 780-870-8253, Dewberry, AB.

NEW IDEA 4865 5x6, hyd. PU, rubber mount teeth, 2300 bales, shedded, good. 306-944-4325, 306-231-8355, Bruno, SK.

1999 NH 688 round baler, good condition. 403-575-5004, Consort, AB.

BALE SPEARS, high quality imported from Italy, 27" and 49", free shipping, excellent pricing. Call now toll free 1-866-443-7444, Stonewall, MB.

BALE SPEAR ATTACHMENTS for all loaders and skidsteers, excellent pricing. Call now 1-866-443-7444.

NEW HOLLAND 1003 bale wagon: 84 bale capacity, in good condition. Phone 204-428-5176, Portage la Prairie, MB.

JD 535 ROUND BALERS, 1991 and 1993, \$6500 each. Ph 204-207-0017, Roblin, MB.

2011 NEW HOLLAND round baler, \$28,500. Phone 306-682-9920, Humboldt, SK. visit: www.farmworld.ca

2005 NEW HOLLAND BR780 round baler, \$11,000. Call 306-864-3667, Kinistino, SK. www.farmworld.ca

NH BR780A and BR790 both with regular pickups, big tires, good running condition, shedded, \$20,000 for 2 or \$11,000 each. 780-808-4101, Frenchman Butte, SK.

2012 NEW HOLLAND BR7090 round baler, \$27,500. Call 306-864-3667, Kinistino, SK. www.farmworld.ca

JD 568 BALER, mega wide plus PU, flotation tires, bale kicker, twine and netwrap, good condition, \$31,000 OBO. Call Scott 403-854-0230, Hanna, AB.

TRI-HAUL SELF-UNLOADING ROUND bale movers: 8' to 29' lengths, 6-18 bales. Also exc. for feeding cattle in the field, 4 bales at time with a pickup. 1-800-505-9208. www.trihaulbalemovers.com

NEW HOLLAND 1033 Stackliner bale wagon, in working cond. 306-831-9979 or 306-882-3141, Rosetown, SK.

2005 VERMEER 605M round baler, only 7200 bales, twine only, \$16,000; 2002 Hesson 856 round baler, only 6000 bales, twine only, \$9900. The Tractor Company 306-239-2262, Osler, SK.

CIH 8590 4X4 baler and accumulator. In excellent condition - just not being used. \$33,000 OBO. ddvanhal@eidnet.org 403-793-3292, 403-793-3006, Scandia, AB.

MOWER CONDITIONERS 4142

1998 14' HAYBINE, 0 acres on new cutting bar, \$10,000. Call 306-524-4551 or text 306-535-5908, Southey, SK.

1998 NH 1475 HAYBINE 16', very good condition, field ready, \$12,000. Call 306-726-2151, Southey, SK.



RECON 300/400. Reduce drying time by 35-65%. Crush stems & move swaths to dry ground. One pass with mounted tedder for fastest dry down. Make quality hay dry faster! 1-888-907-9182 www.wagshield.com

2012 KUHN FC4000RG disc mower conditioner 13'1" cut width, rubber cond rollers, 1000 PTO, vg condition, \$24,800. www.combineworld.com 1-800-667-4515.

SWATHERS 4145

1998 35' WESTWARD 9300, 960 header, PU reel, turbo, big tires, \$29,500; 1995 30' MacDon Premier 2900, PU reel, 960 MacDon header, 21.5-16.1 tires, \$19,500; 1995 Case/IH 8820, 30' header, PU reel, 21.5-16.1 tires, \$18,500. All swathers in exc. cond. 306-861-4592, Fillmore, SK.

1989 CASE 6000 SP, 30', 1600 hrs., new wobble box, vg cond., field ready, \$10,500. 306-874-8032, Naicam, SK.

WANTED: 25' SP swather w/PU reel, later 1990's/2000's, CIH, JD, or Massey, Must be in good shape. 306-931-2541, 306-227-1971, Saskatoon, SK.

BERGEN SIDE LOAD swather transport, in fair condition, \$5500. Call 306-476-2501, Rockglen, SK.

2009 M150 MACDON, 806 cutting hours, large rubber, mounted roller, JD GreenStar AutoSteer, 35' D60D header with split reels, double knife drive, canola kit canvas rollers, recent new canvases, always shedded, completely serviced, ready to work, \$109,000 OBO. Jason 204-937-0965, John 204-937-7079, Roblin, MB.

2011 MACDON M150 windrower, \$99,000. Call 306-864-3667, Kinistino, SK. www.farmworld.ca

2001 PRAIRIE STAR 4940 25' SP with 972 header, very good condition, field ready, \$45,000. Call 306-726-2151, Southey, SK.

1987 CASE 6000 windrower, \$5000. Call 306-922-2525, Prince Albert, SK. www.farmworld.ca

2013 JOHN DEERE W150 w/2014 430D double knife, DS. split reel, weight box and transport, 400 hrs., \$120,000; Freeform hyd. roller available. 204-734-0361, Swan River, MB. cgust@xplornet.com

SWATHERS 4145

2005 MF 9220, 30', PU reel, double swath, excellent cond., \$48,000. 306-567-8614, Davidson, SK.

2006 MF 9420 SP 30', 1510 hrs., sliding table, diesel, UII PU reel, caster wheels, good rubber, new batteries and canvases, asking \$42,500. Call 306-252-2810 or 306-567-7281, Kenaston, SK.

2000 8860 30' CASE/IH SP swather, low hrs., \$42,000; 2002 30' 2950 MacDon SP swather, \$40,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

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ELMER SWATHER TRANSPORT in fair cond., \$4000. Call 306-476-2501, Rockglen, SK.

1984 VERSATILE 400 20' SP swather, w/cab and hay conditioner, shedded, good condition. 403-575-5004, Consort, AB.

CASE/IH 8820 25', diesel, triple delivery header, Roto-Shears, 2500 hrs., \$15,000. 780-203-2448, Fort Sask, AB.

2015 JD W150 435D, PU reel, fore/aft, double knife drive, hydraulic tilt, free form roller, integrated GPS, 147 engine hrs. Call 306-537-9636, Ricketon, SK.

2007 MACDON 2952, 935 hrs., 30', 972, DS, dbl knife, triple del., hyd. fore/aft, hyd tilt, mounted roller, Roto-Shears, 1 season on cutting bar, fresh service, mint cond \$65,000. 403-485-8198, Arrowwood, AB

2009 MASSEY 9430 windrower, \$67,000. Call 306-922-2525, Prince Albert, SK. www.farmworld.ca



1988 CI 722, same as MF 200, 16' auger head, new HoneyBee knife, 22" DSA draper head with PU reel, A/C, diesel, \$15,900. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2001 MACDON 9352, 30', double knife, 1225 hrs., JD AutoSteer ready, 972 header, \$50,000. 780-768-2306, Vegreville, AB.

MF 5200 22' draper header, metal teeth, moveable header, easy attach, fits 9430 machine. 780-698-2279, Westlock, AB.

2003 JOHN DEERE 4895 swather, 2500 hrs., c/w 2011 896 18' hay header with rubber rollers, in good condition, \$65,000. Call 306-476-7601, Rockglen, SK.

WANTED: 15' SP SWATHER w/crimper and pickup reel. Must be in A1 shape. 306-734-2970, Chamberlain, SK.

HESSTON 8100 SP 21', DSA, 2000 hrs., Cummins eng., clean cut crop dividers, new draper bearings (rollers), new canvas, constant speed control; Premier 30' PT, new pit man and belt, bat reel. For prices, call 780-889-3788, Heisler AB.

2010 CNH WD1203 30', 350 hours, very good condition. Call Fred 204-773-6703, Birtle, MB.

SWATHER ACCESSORIES 4148

2001 MACDON 972 25' header, Keer Shears, double swath, new knife, exc. shape. 306-435-7893, Moosomin, SK.

WANTED: GOOD USED MacDon header transport to fit 30' 972 MacDon header. Phone 306-435-7893, Moosomin, SK.

SWATHER KNIFE DRIVE from 2005 NH swather w/Honeybee 30' header rebuilt and kept for a spare, \$1500. 204-734-0361, Swan River, MB. cgust@xplornet.com

2012 MANDAKO SWATH ROLLER 10', poly, axle mount, electric winch, excellent cond., \$2980. www.combineworld.com 1-800-667-4515.

H/H VARIOUS 4151

2008 JD 7500 forage harvester, 216 original hrs., 4WD, Prodrive, corn header, PU header, auto greaser, shedded, new condition. 204-851-0745, Elkhorn, MB.

RICHARDTON DUMP WAGONS, #1200, #700, #750; JD 3970 harvester; Balers: JD 510, \$1500; JD 535, \$4500; Vermeer R23 hyd. rake, \$9000; NH 216, \$5000; Hay conditioners, \$800 and up; Gehl haybine, 14', \$2500; JD 15' batting mower, \$6000; JD 20', \$10,000; JD 5', \$1000; JD 7', \$2000. 1-866-938-8537, Portage, MB.

JD 3000 16' hay header, fits 23, 2420, 3830, 33000; Ford Major dsl. w/loader and blade \$5500. Call 306-236-8023, Goodsoil, SK.

MORRIS 881 HAY hiker, good condition, 8 bale, some welding on picker, \$8000. 306-476-2501, Rockglen, SK.

MORRIS 14 BALE hay hiker, good condition. Call 306-290-8806, Dundurn, SK.

2003 MACDON 16' haybine, \$15,000; 2000 Highline bale processor, \$7500. Both very good cond. Ph 306-867-8410, Outlook, SK.

NEW 2017 VERMEER V1R2212 wheel rake, \$8995. tractorcompany@gmail.com www.tractorco.ca 306-239-2262, Osler, SK.

H/H VARIOUS 4151

M&R MACHINES LTD. WEYBURN, SK. 1-866-842-4803. Call: (306) 861-7499. 1550 Hwy 39 East Weyburn, SK. www.mrmachines.ca

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COMBINES

CASE/IH 4160

2010 CNH 7120, 830 hrs; 2011 CNH 2142 header, 2500 acres. Call Fred 204-773-6703, Birtle, MB.

2007 CASE/IH 7010, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2002 CASE/IH 2388, AFX w/2015 header and long auger, chopper, hopper topper, exc. cond., \$50,000; 30' 1010 cutter, \$10,000. 403-782-2596, Lacombe, AB.

1993 1688, 1015 PU, chopper, reverser, monitors, 1020 25' header, PU reel, carrier, \$20,000. 204-362-1024, Manitou, MB.

1996 CASE 2188, low hrs., exc. cond., field ready, \$45,000 OBO; 1986 CIH 1660 SP offers; 2003 HoneyBee 30' header, \$15,000 OBO. 306-463-3257 Kindersley SK

1999 CASE/IH 2388, c/w 2004 2015 PU, 3300 eng./2400 sep. hrs., hopper topper, ext. unload auger, Kirby chaff spreader, always shedded, \$48,000. 204-523-0016 or 204-523-0106, Killarney, MB.

2009 CASE/IH 7088, 2016 14' header, 1239 eng./956 sep. hrs., std. chopper, rocktrap, long auger, HHC, fore&aft, AFS Pro 600 monitor, chip incl., always shedded, exc. cond., \$140,000 OBO. Call 306-594-7044, Norquay, SK. Email: dlnokinsky@gmail.com

2004 CIH 8010, new chopper, feeder chain, pick-up & teeth rasp bars, 2899 eng. hrs., \$99,500. 306-287-7645, Watson, SK.

2006 CASE 2388, \$95,000. 306-682-9920, Humboldt, SK. www.farmworld.ca

2002 CASE 2388, 3600/4500 hrs., fully loaded, duals, good cond., \$49,500 Cdn OBO; Int. 1480, call for info., \$12,500 Cdn. OBO. Delivery available. 218-779-1710.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2003 CIH 2388 AFX w/2015 header, field ready, very well maintained, long auger, hopper topper, chopper, Pro600 w/L&M, 262 receiver, shedded, \$87,500. Call Yorne McCarty, 306-869-7834, Ceylon, SK.

WANTED: CIH 2188, low hrs., w/internal straw chopper and PU header. 306-549-4030, Hafford, SK.

CATERPILLAR LEXION 4166

CLAAS LEXION 740, 750, 760, and 780 several different options avail. Headers and delivery. Save \$\$\$ 218-779-1710.

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FORD/NH 4172

2004 NH CR970, \$85,000. 306-682-9920, Humboldt, SK. www.farmworld.ca

2009 NEW HOLLAND CR9080, \$190,000. Call 306-864-3667, Kinistino, SK. www.farmworld.ca

2004 NH CX860, 2131 threshing hrs., 2660 eng. hrs., regular maintenance, field ready. Call Larry 204-638-8384, Dauphin, MB.

2011 NEW HOLLAND CR9090, \$229,000. Phone 306-682-9920, Humboldt, SK. visit: www.farmworld.ca

2012 NEW HOLLAND CR8090, \$295,000. 306-864-3667, Kinistino, SK. visit: www.farmworld.ca

2007 NEW HOLLAND CR9070, \$165,000.

COMBINE HEADERS 4199



2013 JD 618C 20" non-chopping corn header, opposed fluted knife rows, Auto-Trac RowSense, auto height sensors, \$100,000 CAD. 306-461-9659, Torquay SK.

2007 GERHOF CHOPPING Corn Head hopping head, good condition. Front rotating knives changed yearly, front 5 Roto discs done 2 yrs. ago. Has hyd. deck plates, HHC and 8 rows of stalk stompers. Fits CIH Flagship or NH combines. \$40,000 OBO. 204-324-3264, Halbstadt, MB.

1990 NEW HOLLAND 971 Header, \$4000. Call 306-922-2525, Prince Albert, SK. www.farmworld.ca

2009 NH94C 36' draper, fits CIH/CR/CX combines, pea auger, 1 owner, \$35,000. 306-563-8482.



2008 JD 1243 20" 18-row corn header, non-chopping, \$30,000 CAD OBO. 306-461-9659, Torquay, SK.

2005 JD 630F Hydralflex, single point, poly skids, PU reel, fore/aft, AWS aerial, c/w 2016 Arc-Fab SB30 transport, \$31,000. 306-962-3605, 306-962-7454, Eston, SK.

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COMBINE DRAPER HEADERS: 2008 36' HoneyBee, PU reel, transport, Pea auger, AFX adapter, \$37,000; 2002 42' SP42 HoneyBee, PU reel, transport, Pea auger, Cat adapter, \$20,000; 2000 36' 1042 Case/IH, PU reel, Case adapter, \$16,000; 2006 36' 2042 Case/IH, PU reel, transport, \$28,000; 2010 40' 2152 Case/IH, PU reel, transport, AFX adapter, \$55,000; 2013 40' 2152 Case/IH, PU reel, transport, AFX adapter, \$65,000; 2010 40' D60 MacDon, PU reel, Pea auger, transport, JD adapter, \$60,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2003 MACDON 972, 30', CIH adaptor, \$18,000 OBO. Call 306-563-8482, Yorkton, SK.

2005 HONEY BEE SP36 Header, \$27,500. Call 306-922-2525, Prince Albert, SK. www.farmworld.ca

2007 CASE/IH 2020 Header, \$25,000. Call 306-864-3667, Kinistino, SK. www.farmworld.ca

2015 MACDON D65 Header, \$87,000. Call 306-682-9920, Humboldt, SK. www.farmworld.ca

2012 JOHN DEERE 640D Header, \$65,000. Call 306-682-9920, Humboldt, SK. www.farmworld.ca

2001 HONEYBEE 30', pea auger, fits 1680-2388 combines, \$18,000 OBO. Call 306-563-8482, Maple Creek, SK.

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SILAGE EQUIPMENT 4229

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SPRAYING EQUIPMENT

PT SPRAYERS 4238

CASE SRX 160 suspended boom, Auto-Rate, AutoHeight, 1600 gallon tank, 120", \$24,000. Call 306-441-0452, Cut Knife, SK.

FLEXI-COIL 65, 100', 800 gal. tank, auto-rate control, chemical handler, \$3500 OBO call after 5PM, 306-533-2114, Pangman SK

SP SPRAYERS 4241

2014 NH SP275R, 100 hrs., 1200 gal. SS tank, 100' boom, 2 sets tires, all options, \$250,000. Dave 403-556-3992, Olds, AB.

2013 NH GUARDIAN SP240FXP, 100' boom, 1200 litre SS tank, IntelliView IV monitor, luxury cab, 6.7L Cummins, 275 HP, only 420 hours, asking \$325,000. 306-524-2109, 306-746-7422, Sarnes, SK

SPRA-COUPÉ 218, 60', 1614 hrs., A-1 cond., new tires, pump and clutch, field ready. 306-764-7609, Prince Albert, SK.



HEAVY DUTY WHEEL DOLLY. Change your sprayer tires in less than an hour! Over 250 units sold. Perfect tool for safely and quickly moving or changing large wheels and tires, \$1499. Phone 403-892-3303, Carmangay, AB., www.hdwheeldolly.com

2013 APACHE 1020, 470 hrs., duals, 100', 1000 gal. tank, AutoSteer, AutoBoom, Auto Section. Meticulous one owner unit, \$210,000 OBO. 306-591-1133, Pense, SK.

2011 ROGATOR 1396, 1300 gal. SS tank, 132' Pommier recirculating boom, Raven Viper Pro, AutoBoom, AccuBoom, 2 sets Michelin tires- excellent, 4 Tridekon air lift crop dividers, SprayTest boom control, foam markers, air ride susp., shedded, own farm use, nice, \$240,000. Bruce Elder 204-937-3429, 204-937-7047, Roblin, MB.



2015 JD R4045, #1N4045RV0006639, 1420 hrs., 380/105R50 tires w/row crop fenders, hyd. thread adj., High flow SS plumbing w/dual flow meters, SS chem. educator, HID lights, 120" fence row nozzles, StarFire 3000 receiver with JDLink Activation til 2018, AutoTrac SF2 and sectional control incl., one set off 0.3 guardian nozzles incl. Powertrain warranty until 2018, \$370,000. 204-612-6531 Cartier, MB

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SPRAYING VARIOUS 4244

FLOATER TIRES: Factory rims and tires: John Deere 4045, 710/60R46, \$19,500; 800/55R46, \$23,500; JD 4038, Case 4420, 650/65R38 Michelin tires and rim, \$13,500. Sprayer duals available. Phone 306-697-2856, Grenfell, SK.

2007 LODE-KING alum. combo 48' drop deck tandem trailer w/toolboxes and **2016 spray cradle** able to carry some of the biggest SP sprayers, new safety, great condition, \$29,500. Jason 204-937-0965, John 204-937-7079, Roblin, MB.

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FLOATER TIRES: Four 24.5x32 fits Rogator 1254, \$5000; Four 20.8x42 fits Case/IH, \$6000. 306-922-8155, Prince Albert, SK.

TILLAGE/SEEDING

AIR DRILLS 4250

2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$140,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2011 SEED HAWK 50', 12" sp., tool bar with 600 cart dual wheels auger and bag lift. \$229,000; 1997 39' Morris Magnum air drill, 10" spacing, Atom openers w/Morris 180 cart, \$23,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

2014 41' MORRIS Contour II w/9450 TBT tank, Dutch sideband openers, 10" spacing, \$175,000. 306-796-7441, Central Butte.

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.

HARROWS/PACKERS 4256

2016 BOURGAULT 6000 mid harrow, 90' with 2011 Valmar 3255, exc. cond., \$55,000. 204-734-0422, Minitonas, MB.

HIGHLINE ACTIVE ROTARY harrows cult. mount 35", low hours. Call 306-937-2832, Battleford, SK.

2013 RITE-WAY HEAVY HARROW, 90', approx. 20" harrows, adjustable pressure and angle, \$35,900. 306-948-7223, Biggar, SK.

TILLAGE EQUIPMENT 4262

1994 FLEXI-COIL 820 deep tillage, 50', 650 trips, new harrows 3 years ago, \$37,000. Call 403-396-1088, Clive, AB.

BOURGAULT 6000 med harrows 90', \$25,000; Flexi-Coil 340 32' chisel plow c/w 4 bar harrows, anhydrous kit, \$16,000; Flexi-Coil 340 40' chisel plow, with 4 bar harrows, \$25,000. Dave 403-556-3992, Olds, AB.

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2013 LEMKEN HELIODOR, 40', \$70,000 CAD OBO. 306-461-9659, Torquay, SK.

3-12' JD DISCERS (36'), fair condition, not used for 10 years. Offers: 306-463-4866, 306-463-8800, Kindsley, SK.

IHC 6400 54' chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

TILLAGE/SEEDING VARIOUS 4265

2014 SALFORD I-2141 41' vertical tillage, c/w 1655 Valmar tank, new set, 13 way blades with unit, washed, field ready, seed canola, spread herbicide. Call for price, Gregoire Seed Farms Ltd, North Battleford, SK., 306-441-7851, 306-445-5516.

TRACTORS

ALLIS/DEUTZ 4277

WANTED: 4W305; 4W220; 220 and D21. 8 0 7 0, 8 0 5 0 or 8 0 3 0 M F W D. 701-240-5737, Minot, ND.

CASE/IH 4286

IHC 5488 TRACTOR, new dual tires, low hours, 189 HP, excellent condition. 403-823-1894, Drumheller, AB.

CASE 4494 4WD; Case 2390: Online only unreserved auction, July 12th-18th. For more information, call 306-865-7660 www.championassets.ca

2011 MAGNUM 340, FWA, fully loaded, 2555 hrs, 3 PT, GPS, 1000 PTO, ft/rr duals, \$172,500 OBO. 403-373-4781 Lacombe AB

2000 MX120, equipped w/new Quick loader, 4400 hours; 2000 MX170, 4600 hrs., equipped w/new Quick loader; 2000 MX220, low hrs., great grain cart tractor. Call 204-522-6333, Melita, MB.

1983 CASE 2290 w/Leon 707 FEL, 4700 hrs., rebuilt PS and diff., 4 remotes, dual PTO, good tires, duals, \$18,500. Prince Albert, SK. 306-922-8155, 306-960-3230.

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. 403-924-9217, Hoosier, SK.

2009 CASE/IH 435, Outback guidance, 710/70 tires, rear weights, std. trans., 4 hyds., 3100 hrs., shedded, \$180,000. Nipawin, SK. 306-862-7138 or 306-862-5993

CASE 2093 TRACTOR, factory warranty overhauled, like new, low hours, \$35,000 reduced to \$29,000. 306-593-4518, 306-592-4518, located at Buchanan, 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.

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.



JOHN DEERE 4295

JD 4630, FACTORY duals, 3PTH, new starter, \$15,500; JD 4650, factory duals, 3 hyds., good running cond., \$17,500; JD 2130, new rear tires, 3PTH, QA Allied loader w/bucket & joystick, cab, \$12,500. 204-746-2016, 204-746-5345, Morris, MB.

WHOLESALE PRICES ON JD Tractors. 2014 8245R, FWA, duals, 2 yr. factory warranty left, very good cond., possible trades. \$149,000 Cdn; 2012 9460R, 4 WD, duals, vg cond., \$230,000 Cdn. For more info. ph Neil 306-231-8300, Humboldt, SK.

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2000 JD 7710, 5130 hrs; 2000 JD 8100; 2002 JD 7810; 1996 JD 8100. All MFWD, can be equipped with loaders. 204-522-6333, Melita, MB.

1995 JD 8100, MFWD, 840 loader, PS, new tires, 9043 hrs., excellent condition, \$76,000. 306-472-7704, Woodrow, SK.

JD 4630, loader, cab; Case 2870, 4x4, Degelman dozer; Cockshutt 550 gas; Ford T/A 20' B&H. 306-238-4411, Goodsoil, SK

JD 4230, 100 HP Quadshift, dual PTO hyd. 18.4x38 tires. 204-525-4521, Minitonas, MB. www.waltersequipment.com

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NEW MANDAKO CATEGORY II 3PTH for JD 7000 Series tractors, still in crate, \$2600. 306-744-7955, Saltcoats, SK.

2003 JD 9320/2005 K-TECH 2800 SCRAPER: Online only unreserved auction, July 12th-18th. For more info, call 306-865-7660 www.championassets.ca

STEVE'S TRACTOR REBUILDER specializing in rebuilding JD tractors. Want Series 20s, 30s, 40s, 50s, 7000s to rebuild or for parts, pay top \$\$\$. Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

JD 3130 w/JD 148 loader, \$15,900; JD 2130 w/148 loader, \$12,900; JD 2550 w/245 loader, \$15,900. All have gone through shop. All w/new paint, look, run great! Randy 204-729-5162, Brandon, MB.

1995 8100 FWA, 16 spd, powershift, big 1000 PTO, 520/85R38 duals, \$21,000 w/o on eng. rebuild & misc., 11,000 hrs., vg cond., \$59,000. 306-948-7223, Biggar, SK.

MASSEY FERGUSON 4301

2006 MF 1528 4 WD, hydrostatic trans., c/w MF 1520 loader, 60" bucket, 258 orig. hrs., asking \$14,995. Call 780-739-8084, 780-554-4736, Leduc, AB.

MF 135 YARD TRACTOR, new tires and paint, 3PTH, \$6400. 306-962-3821 or 306-463-7172, Eston, SK.

NEW HOLLAND 4304

2007 NHTJ430, 16 spd, 8 WD, auto, fully loaded, incl. GPS 250 EZ-Steer, 2120 hrs., \$210,000. 403-901-8035, Rockyford, AB.

NEW HOLLAND 4304

2006 TG210, FWA 7900 hrs., exc. tires, 3 PTO 540/1000, excellent condition, \$52,000 Cdn OBO. Ph. 218-779-1710.

FORD 4307

FORD 9680, 350 HP, 6735 hrs., manual trans., 20.8-R42, \$51,500. Call or text for pictures 306-535-4161, Findlater, SK.

VERSATILE 4310

2014 VERSATILE 450, \$273,000 Call 306-922-2525, Prince Albert, SK. www.farmworld.ca

1992 FORD/VERSATILE 946, 20.8x42 duals, AutoSteer JD Globe and monitor, very nice, \$48,000 Cdn OBO. Delivery available. Call 218-779-1710.

2015 VERS. 550, Michelin triples, Raven Viper 4+ guidance, no PTO, 25 hrs., \$370,000. 306-922-8155, Prince Albert, SK

2006 VERSATILE FWA, 210 HP w/Alo FEL bucket, grapple and duals, 4050 hrs. \$94,000. 306-728-9033, Melville, SK.

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2008 MCCORMICK MTX150, 2300 hrs.; 2005 McCormick MTX120 w/Quicke loader, 3100 hrs. 204-522-6333, Melita, MB.

2013 MCCORMICK MTX120, \$95,000. 306-864-3667, Kinstino, SK. visit: www.farmworld.ca

LOADERS/DOZERS 4322

NEW DEGELMAN BLADE, model 12-46/57, \$8500. Ph Henry 403-588-0958, Alix, AB.

LEON 707 FRONT END LOADER w/9' Leon dozer blade, very good condition, 306-338-2927, Wadena, SK.

MISCELLANEOUS 4325

ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Strawmaster, rockpickers, protill, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

SUNFLOWER HARVEST SYSTEMS. Call for literature. 1-800-735-5848. Lucke Mfg., www.luckemanufacturing.com

2013 45' KELLY Diamond harrows, \$83,000; 2015 PX9020 Kioti tractor with loader 360 hrs., \$63,000; 2016 35' MacDon FD75-S flex draper header, 800 acres, \$87,000; 2015 Brandt 5200EX grain vac, 45 hrs., \$23,900; 2007 Ag-Chem RoGator 1274C with JD SmarTrax AutoSteer, 1200 gallon stainless steel tank, triple nozzle, 2 set of tires, 3352 hrs., \$129,900; two 10,000 Enduraplas liquid fertilizer tanks, \$6900 each. 306-452-3247, Parkman, SK.

FORD 750 w/20' B&H, rollover tarp, \$8500; Case/IH 2870 4 WD, Degelman blade, \$17,000; Vac tank, 1800 gal. and pump \$8000; IHC Model 252 rolkflit, gas, \$5000. 306-238-4411, Goodsoil, SK.

26' SCHULTE 5026 BATWING mower, double blades, exc. shape, pics. available, \$20,000. 1-866-402-4031, Cassidy, BC.

MISCELLANEOUS 4325

RETIRING: 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.

NH CHAIN BALER, \$2500; Neuero grain vac, \$3000; 34' factory drill mover, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. 306-238-4411 Goodsoil, SK

JD GREENSTAR RATE Controller, with implement safety switch and foot pedal for on/off, \$2500. 204-734-0361, Swan River, MB. Email: cgust@xplornet.com

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CONCRETE PRECAST CATTLE Feeders: 10' long, large capacity to hold day's ration. Slick finish and chamfered corners allow cattle to clean up feed. High back cuts down on feed waste. High quality, high strength, re-bar reinforced concrete provides years of trouble free feeding!! If one breaks, it's easily replaced with a new 10' section, unlike poured in place. Optional base also available (not pictured). Will deliver anywhere in Sask & Alberta! \$315. info@Lconindustries.com 306-823-3519 Neilburg, SK. www.Lconindustries.com

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GRAINS 5947

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LIVESTOCK 5948

250 ORGANIC CATTLE for sale, all ages. For more info. phone/text 204-761-3760, Minnedosa, MB.

PERSONAL VARIOUS 5952

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PETS

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No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, Ont.

NON REGISTERED 5971

MANX KITTENS, very good mousers, make good pets, friendly with children, \$100. 204-434-6132, Steinbach, MB.

WORKING DOGS 5973

PUREBRED BORDER COLLIE pups, from good working parents, shots, dewormed, \$300. 306-865-3698, Hudson Bay, SK.

PUREBRED BORDER COLLIE puppies, from good working parents, ready to go mid-June. 306-267-5748, Coronach, SK.

GREAT PYRENEES PUPS from working parents. Great disposition with other pets and kids. Intact, first shots, vet checked, DOB Mar. 18th, \$500 ea. 403-308-4781, Email: heathernelsonfarm@gmail.com

IRISH WOLFHOUND PUPS for sale, ready to go. Call 306-290-8806, Dundurn, SK.

REG. BORDER COLLIE pups for sale. Selected strong working bloodlines. Imp Glenn and proven lines. 4 males, 1 female, tri-colored, ready to go end of June. Guaranteed to work, shots and dewormed, \$600. Call 306-678-4433, Hazlet, SK.

REAL ESTATE

CONDOS/TOWN HOUSES 6120

A MUST-SEE CONDO... RELAX in this luxury rustic freestanding condo in Brandon, \$597,000. 204-724-7914, 20augusta.com

1 BEDROOM CONDO with den, 1033 sq. ft., Lawson Heights Saskatoon, SK. Mostly seniors. Underground heated parking, lots of visitor parking. Asking \$229,000, all appliances included. Condo fees and taxes \$513/month. Call 306-290-4770.

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, kilned dried. We are one of Canada's most innovated craft sawmills. Rouck Bros., Lumby, BC., 1-800-960-3388 or Rouckbros.com

COTTAGE AT LAKE OF THE PRAIRIES: 303 Keating Drive at Prairie Lake Lodge Development. 864 sq.ft. lakeview cottage. Full finished basement. 2 bedrooms, 1 1/2 baths. Low maintenance yard, deck. Well for water. 18 hole/3 par golf course in Development. \$259,000. MLS #1700975. Please call Karen Goraluk, Salesperson, at 204-773-6797, NorthStar Insurance and Real Estate, www.northstar.ca

COTTAGE FOR SALE by owner: Beautiful 1200 sq. ft. furnished remote wilderness cottage, located approx. 100 mi. North of Pine Falls, MB. Solar, generator and propane power w/hot and cold running water. Boats and motor incl. 204-668-2834.

HOUSES/LOTS 6126

BEAUTIFUL HOUSE ON Blackstrap Lake, SK. 1868 sq. ft., 4 bed, 3.5 bath. MLS#601035. 306-290-6322, dustin.sikler@gmail.com

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.

HOUSE TO BE MOVED: 1269 sq. ft., 3 bdrm, 1 1/2 bath, older 1 1/2 storey home. Would make an ideal cabin, very solidly built, good windows, new hardwood and lino throughout. Incl. 4 major appliances. \$25,000. 403-578 2486, Coronation, AB.

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HOUSES/LOTS 6126

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MOBILE HOMES 6127

MOBILE HOME: 1152 sq. ft., 3 bdrm, 2 bath, \$55,000 OBO. 306-690-1580, Moose Jaw, SK. saradtke@hotmail.com

1994 MOBILE TO be moved, 1250 sq. ft., 3 bdrm, 2 bath, large kitchen and livingroom. 403-540-1874, Calgary, AB. ClintWillies.ca

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ONLINE AUCTION: 3 bedrooms, 2 bathrooms - AM414 mobile home. Located at E-11 Prairie Oasis Trailer Park, Moose Jaw, SK. Bids close July 5th at noon. For details visit: McDougallAuction.com or call 800-263-4193, PL#319916.



ONLINE AUCTION: 3 bedroom, 2 bathroom - 2014 SRI West D01 mobile home, for removal. Located at 76 Bills Bay, Estevan, SK. Bids close July 5th at noon. For details visit: McDougallAuction.com or call 800-263-4193, PL#319916.

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READY TO MOVE 6128



ONLINE AUCTION: 3 bedrooms, 2 bathrooms - 1978 Neonix Emperor mobile home. Located at 102 City View Estate, Regina, SK. Bids close July 5th at noon. For details visit: McDougallAuction.com or call 800-263-4193, PL#319916.

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Home in a gated, maintenance free community overlooking Pine Lake on golf course. 20 minutes from Red Deer, AB. 1900 sq. ft. on 3 fully finished levels, 3 bedrooms, 2 1/2 baths, fireplace in bedroom ensuite. Beautiful clubhouse with fine dining, pool, fitness room.

\$550,000 OBO

For sale, trade (rev. property or farmland), or rent-to-own.

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BRITISH COLUMBIA 6131

MARGUERITE RANCH (QUESNEL) 26 titles, 3095 acres deeded, 450+ cow/calf operation. Irrigated, 58,000 acre range, 3 home sites, \$4.99M. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert. More info and other listings: 250-983-3372 bkgranholm@xplonnet.com

270 ORGANIC ACRES cultivated, older home, many outbuildings, farm equipment, pure mountain water, \$1,700,000. Call 250-428-7664, Creston, BC.

178 ACRE RANCH, beautiful view of the Seven Sisters mountains, exc. land and water, house, barn, shop, hay shed and outbuildings, on Hwy #16 between Smithers and Terrace, \$650,000. 250-849-8411.

ALBERTA 6132

BUYERS for farms and ranches. Henry Vos, 780-835-1992, Royal LePage Realty. www.peacemakerfarmsandranches.com

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.

250 ac. VERY SCENIC, high pasture, hay or grain land. Beautiful building sites, no subdivisions or oil wells. 2 titles. 14 miles N of Leslieville, AB., \$900,000. 403-729-2483.

278.24 ACRES OF PIVOT IRRIGATED LAND ID#1100545 Rainier: 278.24 acres of pivot irrigated land. Approx. 5 miles North of Scandia or 1 mile South of Rainier located on the East side of Hwy #36. Includes a 5 yr. old Zimmatic pivot, covers approx. 230 acres. Poultry Farm w/15,000 units of Broiler Quota ID#1100559 Lethbridge: 40.81 acre poultry farm. Features include 15,000 units of quota, 40 acres of SMRID water rights, 15'x40' heated shop, 60'x300' barn with a computer-controlled auto. feeding system, and a 5 bdrm, 3 bath bungalow w/fully developed basement & attached garage. Real Estate Centre, 1-866-345-3414. For all our listings: www.farmrealestate.com

CATTLE OPERATION NEAR Wildwood, AB. on a quarter sec. MLS# E4051356; Hobby Farm near Wildwood on a quarter section MLS# E4064009; Living in the country on a quarter section near Wildwood, AB. Half treed/half open. MLS# E4066834. Frank Quartel, Realty Executives Challenge, 780-909-1940, www.frankquartel.com

97 ACRES PRIME #2 FARMLAND, presently in pasture. Comfortable 4 bdrm home, completely finished with wood stove. Large quonset and outbuildings, 3 water wells, oil revenue, close to town, \$590,000. Call 250-428-7559, Drayton Valley, AB.

SASKATCHEWAN 6133

2 QUARTERS GRAIN LAND in RM 331. By online AUCTION at http://bidwin.org. Qing Zhang, Landmart Realty, 306-684-0136, qing.canada@gmail.com Arran, SK.

DWEIN TRASK REALTY INC. East 1/2 of 6-39-8 W3. 136,300 FMV. Flat and stone free. For details, call Dwein 306-221-1035.

HOME QUARTER 16 miles east of Yorkton, SK. 160 acres, c/w 65 acres hay, rest pasture, corrals, barn, well, 14'x68' mobile home w/addition, natural gas, and power. \$250,000. 306-782-5013.

5 QUARTERS GRAIN LAND in RM 331. By online AUCTION at http://bidwin.org. Qing Zhang, Landmart Realty, 306-684-0136, qing.canada@gmail.com Arran, SK.

OPPORTUNITY AWAITS a knowledgeable, ambitious person(s) wanting to rent a 5000 ac. organic farm for Spring 2018, includes some pasture and alfalfa. Purchase of up to 11 quarters possible in Fall 2017. This is a high income farm with long term grain sale agreements. On farm cleaning plant has potential for persons seriously wanting work to provide extra opportunities for further added income. Phone evenings, 306-622-4903. Heritage Organic Farms Ltd. Tompkins, SK.

Acres of Expertise.



Kevin Jarrett
(306) 441-4152
kevin.jarrett@HammondRealty.ca
HammondRealty.ca

SE OF MELVILLE, SK: 22 quarters (3463 acres) predominantly H soil (Oxbow Loam) all in grass/Alfalfa can go back to grain, new assessment \$3,393,300. Exclusive listing \$3,535,000. Royal LePage Premier Realty, Larry Hanowski, 306-728-9033 Email: hanowskifarms@sasktel.net

SASKATCHEWAN 6133

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ACREAGE NEAR LANGBANK, SK. 5 bdrm., 2.5 bath home on 14 acres w/new shop! New triple pane windows, siding, insulation, metal roof & well. MLS# SK603944. Call today to view! Kim Setrum, Royal LePage Premier Realty, 306-434-8733.



"ATTENTION FARMERS/RANCHERS AND Outdoor Enthusiasts!" For Sale By Tender. Offers are invited for this unique property comprised of 126 acres hay land and approx. 46 acres of pristine wooded area/rolling hills. Property also contains a fresh water body, approx. 15 acres capable of supporting fish and surrounds a wooded island. No chemicals or fertilizers used for over 20 yrs. Located near Greenwater Lake Provincial Park, north of Chelan and West of Porcupine Plain, RM of Bjorkdale No. 426 Location NE-16-42-10-W2 and PTN NW-15-42-10-W2. Sold "As-Is". No conditional tenders accepted. Highest tender or any tender may not necessarily be accepted. Send bids to: 7-2 RR 2, Canora, SK. S0A 0L0 by July 15, 2017.

LANE REALTY

JUST LISTED!
Lane Realty is happy to announce the following listings recently added to our website.

- BULYEA:** 10 ac. - 1461 sq ft home with a 210 sq ft breezeway on a well treed yard. Close to Rowan's Ravine Provincial Park!
- LOCKWOOD:** 156 ac. - 150 cult. ac., 2017 assess. 149,000.
- BETHUNE:** 158 ac. - 1266 sq ft home with Buffalo Pound water line, 137 cult. ac.
- HOLDFAST:** 159 ac. - 106 ac. seeded in 2017, bal. grass, 2017 assess. 117,600. Close to Last Mountain Lake and 3 resort communities! Call for Details!
- SPALDING:** 159 ac. - 95 cult. ac., (86 seeded to Canola in 2016) 2017 Assessment 154,200.
- ELITE TROPHY RANCH:** Nestled in the Blue Hills South of Moose Jaw, turn key operation includes all buildings, livestock equipment and supplies! Call For Details!

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5900 ACRE RANCH GOVENLOCK, SK ID#1100582. 5900 acre ranch in SW Sask. only 15 kms from the AB/SK border and 40 kms from the USA. Just North of the Junction of Hwy. 13 and 21. 4892 acres deeded and 1012 acres government lease, c/w good 4 bedroom home, corrals, heated calving barn and a massive steel shop that the sellers will finish with metal clad walls, roof and doors. Real Estate Centre, 1-866-345-3414. For all our listings visit www.farmrealestate.com

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RITCHIE BROS. EQUIPMENT ONE



M&L Holdings Inc.
1 Parcel of Farmland
160± Title Acres – Wakaw, SK

Online Bidding Opens July 13 & Closes July 20

Parcel 1 – NW 2-43-27 W2 160± Title Acres
87± ac cult, 2017 FVA \$126,700
Seller says this quarter has gravel deposits with potential for development. It will be the responsibility of interested parties and bidders to verify gravel potential to their own satisfaction. Please call for permission before entering the property to do any testing.

For more information contact:
Maurice & Lois Heisler – Owners
306.398.9555, 306.230.7460
lois.heisler@sasktel.net

Dan Ferderer
Ritchie Bros. Territory Manager
306.715.0784, dferderer@rbauction.com

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SASKATCHEWAN 6133

WANTED 5,000 to 20,000 ACRES OF GOOD CROP PRODUCTION LAND IN SASKATCHEWAN AND ALBERTA

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WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

SASKATCHEWAN 6133

BIG RIVER AREA: 3100 sq.ft. family home w/many great features. Very bright w/lots of windows. Heated w/in-floor (glycol) by propane and wood, and also a large wood fireplace. The property is 154 ac. of mainly bush pasture and fenced w/8' game fence and one electric wire. The yard is serviced w/water well. Other outbuildings included. This property is a must see! MLS@611536 Call Lloyd Ledinski, RE/MAX of the Battledowns, 306-446-8800 or 306-441-0512.

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

FARMLAND WANTED

NO FEES NO COMMISSIONS

PURCHASING: SINGLE TO LARGE BLOCKS OF LAND. PREMIUM PRICES PAID WITH QUICK PAYMENT.

Many References Available

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Email: saskfarms@shaw.ca

PASTURES 6136

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

WANTED 6138

WE HAVE A buyer looking for 7,000-15,000 acres good farmland in West half of Sask. 306-586-0099 or 306-529-8609, Emerald Park, SK. Email: saskfarms@sasktel.net

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.

FARMLAND FOR SALE by Tender, RM of Argyle #1, 6 quarters. One section: NE NW SE SW of 25-01-30-W1, SE-36-01-30-W1 and SW 36-01-30-W1. Tenders must be received on or before Aug. 31, 2017. Submit written tenders to: Bonner Enterprises Inc, 54 St. Andrews Bay, Emerald Park, SK. S4L 1A1. 306-781-3377, 306-535-7822 Dale. Highest or any tender not necessarily accepted.

RM OF OAKDALE: Land for cash lease for a three year term commencing 2018. SE-04-33-23-W3 and Block C, Plan 101930745 (Ptn of NW-34-32-W3). Written bids to be submitted by July 18, 2017. For a bid package, please contact Vern McClelland, Associate Broker RE/MAX of Lloydminster, 780-808-2700 or email: vernmcclelland@remax.net

MANITOBA 6134

EXCELLENT LIVESTOCK FARMS: 1) 1732 deeded acres w/4425 acres of Crown land, fenced, small bungalow, very good buildings & metal corral system, can carry 350 cow/calf pairs. 2) Excellent horse ranch in Erickson, MB., Riding Arena and buildings in fantastic condition. 3) 640 acre mixed farm within 15 mins. of Brandon. 4) 800 ac. cattle farm, Rorketon, MB., 1500 sq.ft. home, heated shop. 5) Modern house and 160 acres of pasture, 15 mins. to Brandon. 6) 320 acre farm, Carnuff, SK. Jim McLachlan 204-724-7753, Remax Valleyview Realty Inc, Brandon, MB.

BINSCARTH, MB - 142 ac. of land in and overlooking the beautiful Assiniboine Valley! 3090 sq.ft. house w/walk-out. Detached double car garage. 50'x80' insulated shop, in floor heat, 400 amp. single phase power. 28'x80' insulated shop. 40'x60' storage shed. Close to Esterhazy potash mines. MLS@1704293. Karen Goralluk, Salesperson. 204-773-6797. NorthStar Insurance & Real Estate, north-star.ca

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 Goralluk-Salesperson, 204-773-6797. NorthStar Insurance & Real Estate. MLS@1701622. www.north-star.ca

LAND FOR SALE: Two quarters West of Plumus, MB. 319 acres (224 cultivated). NE 1/4 14-16-13 and NW 1/4 14-16-13. Contact Tom 204-803-7128.

CATTLE FARM - 11 quarters and 2 Crown quarters in a block. Near Roblin, MB. along the Duck Mtn. Prov. Park. Approx. 1100 workable acres, majority is hay. Fenced. Dugouts. May consider selling parcels. Scenic area. Yardsite has a 30'x66' pole shed/work shop. 2 cattle shelters. Corrals. [MLS #1627477](mailto:MLS#1627477), Karen Goralluk, Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

9 QUARTER FARM package, 1090 cult. acres. Well Est. yard. Russell, MB. MLS#1708171. Call Lyndon Shuya, Royal LePage Martin-Liberty Realty, 204-773-6210.

WANTED 6138

WE HAVE A buyer looking for 7,000-15,000 acres good farmland in West half of Sask. 306-586-0099 or 306-529-8609, Emerald Park, SK. Email: saskfarms@sasktel.net

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ACREAGES 6139

KOLBERG'S ACREAGE, RM Biggar, SK: 139 acres. Immaculate 2 story house, 2304 sq.ft. plus fully developed basement, 4 bedroom, 3 bath, double att. heated garage. 48x80 shop (32x48 insulated/heated), older tinned hip roof barn. Water well supplies home and dugouts for pasture. MLS@611251. Call for viewing & more info. Duane Neufeldt, Re/Max Saskatoon, 306-948-8055 www.duaneneufeldt.com

RECREATIONAL VEHICLES

BOATS/WATERCRAFT 6162

2012 LEGEND 14' fishing boat, live well, 20 HP 4-stroke Mercury electric start, c/w Legend trailer and boat cover, \$6300 OBO. 306-861-0176, Yellow Grass, SK.

PONTOON BOAT: 2000 Sylvan-Nexus, 20', w/24" pontoons, 135 HP comes w/trailer, \$19,500. 780-367-2483, Willingdon, AB.

CAMPERS/TRAILERS 6164

2006 POLARIS SPORTSMAN 4x4, 600cc quad, with winch, \$3500; 2009 Polaris Sportsman 4x4, quad, 800cc, with winch, \$4500. Call 204-207-0017, Roblin, MB.

2000 JAYCO HARD WALL Designer 5th wheel 3110, 3 slides, day/night shades, free standing table and chairs, TV, AC, fireplace, excellent condition. Call 306-226-4218, Blaine Lake, SK.

1987 KOMFORT 5th wheel 28', sleeps 6, awning, AC, \$3500; 8' slide-in truck camper, no appliances, make good hunting/fishing shack, \$500. 204-207-0017 Roblin, MB

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CLOCKWISE, FROM TOP LEFT: Canso PB5-A rolls onto the runway to do pre-flight checks before its first official flight before a crowd of about 1,000, among them Fairview area residents and pilots who flew in for the fly-in breakfast on Father's Day in Fairview, Alta., June 18.

Robert Simon, a summer student working for the Fairview Aircraft Restoration Society, polishes one of the Canso's propellers.

The Canso makes a pass above an applauding crowd. Restoration of

the plane was a labour of love for six Fairview, Alta., farmers and for many others who had a hand in getting the plane back into the air. This Canso is one of only 13 in the world that are still operational.

Veteran Hal Burns, left, flew this very plane three times during the Second World War. Veteran Jim McCrae, right, was shot down in a Canso during the war while patrolling and bombing German U-boats. Both journeyed to Fairview to see the restored plane take its first official flight. | BARB GLEN PHOTOS



HISTORY

Farmers restore Canadian war bomber

'We didn't know it was impossible, so we did it,' say Fairview farmers who restored Canso PB5-A airplane

BY BARB GLEN
LETHBRIDGE BUREAU

FAIRVIEW, Alta. — Dreams took flight June 18 for six farmers from Fairview and for a community of volunteers who shared in their vision.

The Canso PB5-A soared that day for the first time in 16 years, the last nine of them spent in restoration.

As one of only 13 Canso aircraft still listed as airworthy, the former Second World War patrol bomber will now become a flying museum, visiting air shows and being seen by

CANSO PB5-A

- amphibious aircraft; can land on water and land
- built in 1943 in Quebec
- one of only 3,050 ever made, and only 620 built in Canada
- one of 13 in the world that are still airworthy
- two Pratt and Whitney 1830 radial engines
- each engine has 1,200 horsepower
- cruising speed of 120 m.p.h.
- range of 2,500 miles
- wingspan of 104 feet
- cost about \$90,000 to build, in 1935 dollars
- has worked as patrol bomber, rescue craft, freighter, surveillance and water bomber, will now be a flying museum.

all who care to look.

The farmers dragged the plane from a lakeshore in Inuvik, barged it down the Mackenzie River and trucked it to Fairview. Weekly work bees by those farmers and others who joined the project resulted in the Canso taking to the air and making several graceful passes over a crowd of spectators and the pilots of more than 50 small aircraft in Fairview for the occasion.

"How do I feel? Hey, pretty airplane, eh? It's nice to see the old girl flying again," said Don Wieben, a farmer, pilot, aircraft mechanic and the first to consider rescuing the downed plane.

"If we can give people a sense of admiration for the airplane that was built and designed in 1936-37, fought during the war, rescued lives out in the ocean both during the war and in peacetime ... it celebrates the technology and the people that built it. They designed it with slide rules, not with computers," said Wieben.

"It's a beautiful airplane to fly. It still does a great job." Wieben, Doug Roy, Joe Gans, Brian Wilson, Norbert Luken and Henry Dechant were "the six farmers from Fairview" that attracted local and national attention.

"The name caught on," said Roy during a celebratory dinner June 17.

"Everybody liked that idea, calling us the six farmers from Fairview, but we soon realized that this project was way too big for a few

people and it was too important ... for just a few people to be involved."

That's when they formed the non-profit Fairview Aircraft Restoration Society.

At first the farmers met in a shop for Wednesday night work bees while their wives were quilting, but the project soon attracted other volunteers.

"It isn't six farmers from Fairview. It started out as two farmers, then six farmers, then 12 farmers, then many, many, many people did small parts of it," said Wieben.

"It's truly a community airplane." The inaugural flight of Canso PB5 was dubbed "the historic wings over Canada 150 celebration," coming as it did during this year of celebration for the country.

Several Second World War veterans who had flown either this particular plane or other Cansos attended the celebration and watched the first flight.

Veteran Hal Burns said that when he learned of the farmers and their project, it prompted him to check his logbook.

"Lo and behold," he said, the record showed he had flown this very plane three times during the war.

The Canso flew out of Iceland with the 162 Squadron to spot and bomb German submarines and act as a rescue plane.

Veteran Jim McCrae was flying a Canso in the war years when he and his crew were shot down in the North Atlantic. Three of the seven

perished before rescue could arrive.

Peter Austin-Smith, who flew Cansos after the war, patted the plane on its nose before the official flight.

"I flew a number of different aircraft in the air force, but this one ... for some reason or other, it just grabs you."

Stories were plentiful from the other veterans and from those who had flown the Canso in its post-war service flying fish and freight in northern communities, patrolling the mid-Canadian line for the Royal Canadian Air Force and most recently fighting fires out of Newfoundland and Labrador and Yellowknife.

Canso PB5 went down in 2001 in Lake Sitigi in about 90 feet of water. Then it sat on the shore, stripped of its engines, until the six farmers came to get it in 2008.

Captain for the inaugural flight in mid-June was Bill Brady, an experienced pilot who logged about 3,500 hours in a Canso, some of them in this very plane. PB5-A was his first command as a pilot in 1969.

Brady said he was honoured to be chosen. His co-pilot was Don Wieben's son, Gary, a pilot with WestJet. Brady made two test flights before the big day.

"It flies beautifully, nice and straight. Considering all it's been through, it flies very nicely. Some of them are kind of crooked and that, but this one is dead straight. They've done a really good job on it," said Brady.

"Farmers are usually pretty good

at finding solutions for problems."

What's next for the six farmers and the other members of the Fairview Aircraft Restoration Society?

Something smaller.

They plan to restore an Aeronca Chief, a two-seater often used for training. Wieben said its "newer," having been built in 1946.

"It's a sweet little airplane," he said. "Two people just barely crowd into it. It's got 65 horsepower, no electrics. That's just the perfect airplane, the opposite spectrum of the Canso, and young pilots that just got their licenses could fly it. It was a training airplane. So that's our project next time."

Some farmers like to golf in their spare time. For the Fairview six, and others who joined them, relaxation involved something few others would consider.

"We didn't know it was impossible, so we did it," said Wieben.

"The long-term call of whether we're successful or not will be if it's still flying as a heritage airplane in Canada 30 years from now."

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Visit us online at www.producer.com to see a video about this story.



Timothy Caulfield says the influence that celebrity promotions have on the public's view on health and science issues is absolutely crazy. He told agricultural scientists and industry officials that it is "a battle we must win." | WILLIAM DEKAY PHOTOS

CELEBRITY PROMOTION

Call it 'bunk' when it's 'bunk': professor

Facts about fads: debunking celebrity advice

BY WILLIAM DEKAY
SASKATOON NEWSROOM

Smearing feces on the face for that healthy glow is one of the many jaw-dropping things celebrities promote, says Timothy Caulfield, author and university professor.

"The Beckhams actually put bird poo on their face. It's nightingale bird poo, so it's very sophisticated. But it's bird poo," said Caulfield, who works at the faculty of law and school of public health at the University of Alberta.

Caulfield was referring to former international soccer player David Beckham and his model wife Victoria.

Caulfield recently attended Ag-West Bio's annual meeting in Saskatoon, where he discussed research into the impact celebrity culture and more broadly, pop culture, has on how people think about health, nutrition and food.

Caulfield's latest book, *Is Gwyneth Paltrow Wrong About Everything?* is a researched and serious, yet fun look at the state of the \$4 trillion wellness industry and the rise of celebrities as spokespeople.

"It's really about the influence of celebrity culture on how we all think about health but also science more broadly. This really is a battle we must win," he said to the room of agricultural scientists and industry representatives.

"It's absolutely crazy," Caulfield said in describing the amount and degree of health and diet advice that is being spread through popular culture.

"Did you hear of the guy who tried to live off his wife's breast milk for a year, which made for very awkward lunch dates," he said.

"Then you layer on top of it all of the other stuff. You have anti-GMO, pro-organic, probiotics, all of the vitamins and supplements, genetic testing. You have all of that and it creates an incredible amount of noise that is difficult for the public to navigate. It's difficult for experts to navigate."

Caulfield said he used Paltrow to focus many of his discussions because of the outrageous and scientifically unfounded health information the celebrity provides through her website.

"One of her most ridiculous pieces of health advice came about a year and a half ago. It's so mind-numbing ridiculous. It is the vagina steam. She recommends that people steam their vaginas in order to detoxify," he said.

"It's ridiculous and potentially harmful.... Any evidence to support that? Absolutely not."

He said other popular, money-parting procedures that have no science-based evidence include cryotherapy, intravenous therapy and cupping therapy.

Cryotherapy involves drastically lowering body temperature to achieve alleged health benefits.

Intravenous therapy is purported to boost energy by delivering vitamins, minerals, amino acids and saline intravenously.

Cupping therapy is an ancient Chinese treatment that places cups at pain points on the body. The cups are attached to a suction pump and may be heated. When applied to the body, the skin is drawn up into the cups.

Cryotherapy and intravenous treatments have been blamed for deaths in the United States, but both have been endorsed by celebrities and athletes for years.

Caulfield said the rise of gluten-free food is another cultural phenomenon, which continues to increase in popularity.

University and government-led

studies show about 30 percent of Americans are trying to go gluten free and think they should go gluten free, while about 10 million Canadians are trying to do the same, or think they should.

He said these numbers do not include people with celiac disease, who represent about one percent of the population.

"We're talking about people that think going gluten free is inherently healthier. They think it's a good way to lose weight. They think it has better nutritional value," he said.

He said there is no evidence to support that people not affected by celiac disease will be any healthier with a gluten-free diet.

THE GLUTEN-FREE INDUSTRY IS EXPECTED TO BE WORTH

\$8 billion

BY 2020, DESPITE EVIDENCE THE DIET CAN BE UNHEALTHY FOR THOSE WHO DO NOT HAVE CELIAC DISEASE

The Beckhams actually put bird poo on their face. It's nightingale bird poo, so it's very sophisticated. But it's bird poo.

TIMOTHY CAULFIELD
AUTHOR, PROFESSOR



GETTY PHOTO

However, the gluten-free market is expected to be worth \$8 billion by 2020, despite scientific evidence that the diet can pose serious health consequences because of a lack of whole grains.

Another popular craze is for organic or natural products, which Caulfield said has become a multi-billion dollar marketing ploy.

Some of the many products with organic labelling include deodorant, car seats, cat food, shampoo, jeans, Gatorade, beds and vodka.

"Organic cigarettes: how ridiculous is that?... Organic water: it's just insane and it's not cheap," he said.

"What's being pushed by (Paltrow) and others is that eating organic is nutritionally better for you. Is there any evidence to support that? And the answer is 'no,'" he said.

Caulfield said celebrity culture is having a major impact on the public's health decisions.

"One of the ways that celebrities have an impact on all of us is just talking about this stuff. By making these things seem more plausible, they make it seem like it's something that perhaps should be considered," he said.

"It doesn't matter how much data you have around efficacy and safety, the celebrity narrative wins."

Do your homework

Caulfield encouraged people to consider certain factors:

- Just because a treatment is popular does not make it beneficial.
- Something new is not necessarily better.
- Treatments usually come with harms and benefits.
- Look for people who might have conflicts of interest in promoting a product.
- Personal experiences, expert opinions and anecdotes are not reliable sources of information.
- Look for the real science by accredited sources.

Caulfield said in an era of fake news, it is important to get the science right and effectively communicate it.

"I think we need to push back against the false balance and what I think is a tolerance for pseudo science.

"We should call it bunk when it is bunk."

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WORLD PORK EXPO

'Significant differences' hinder U.S.-EU trade talks

The National Pork Producers Council wants trade representatives to focus on bilateral deals with Japan, Malaysia or Vietnam

BY ROBERT ARNASON
BRANDON BUREAU

DES MOINES, Iowa — In early June, U.S. Commerce Secretary Wilbur Ross said he's open to restarting free trade talks with the European Union.

Those talks have been stalled since last fall, when Americans elected Donald Trump as president.

Ross may be willing to resume negotiations, but the National Pork

Producers Council in the United States says don't bother.

The Europeans will never open up their market to U.S. agri-food products, so free trade talks with the EU are a waste of time, they maintain.

"While the European Union could be a tremendous market for American pork... we do not think the (EU) is ready to drop its non-science based standards," said John Weber, NPPC past-president, during a June

12 news conference at the World Pork Expo in Des Moines.

"Consequently, we are telling the Trump administration to kill the negotiations and focus instead on negotiating bilateral free trade agreements in the Asia/Pacific region."

It's been nearly four years since the U.S. and Europe began negotiating a free trade agreement, known as the Transatlantic Trade & Investment Partnership (TTIP).

After 15 rounds of talks, there are still "significant differences" on agricultural market access, said a March 9 report from the TTIP advisory council.

Maria Zieba, NPPC deputy director of international affairs, said the lack of progress on agriculture issues is glaring.

"We haven't gotten to negotiating

the ag chapter and it's been years. I was there during the earlier rounds of negotiations ... and right now it seems like the EU has a lot of different issues it's trying to work through," she said.

"Unfortunately, we don't see much flexibility on their part to establish science-based standards ... and to really lower those barriers to trade ... like quotas and use of ractopamine (a feed additive) and animal welfare standards."

The EU is the world's second largest pork market but the U.S. exports only a tiny amount of pork there. So little, in fact, that America sells more pork to Honduras than the EU.

The population of Honduras is eight million. The EU has 450 million people.

The NPPC urges Ross and U.S.

Trade Representative Robert Lighthizer to spend time and energy on trade agreements that are realistic, like a bilateral deal with Japan.

"Or a bilateral with Vietnam, Malaysia, the Philippines," Zieba said.

The U.S. had a free trade agreement with multiple Pacific Rim countries, the Trans-Pacific Partnership, but Trump pulled out of the deal days after his inauguration.

There is support for bilateral trade deals in Washington, despite the president's anti-trade rhetoric.

"For the most part, everyone is really open to negotiating bilateral agreements," Zieba said. "All I've heard is very positive reactions from the Hill (Congress) and the administration."

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of Canada

Conseil des produits agricoles
du Canada

Canada

The Government of Canada is accepting applications for two positions at the National Farm Products Council (NFPC).
(Known as the Farm Products Council of Canada)

Council's Chairperson (full-time position)

The Chairperson of the NFPC reports to the Minister of Agriculture and Agri-Food of Canada. He or she leads in preparing and providing advice as well as recommendations to the Minister on the operations of agencies monitored by the NFPC, the modification of their powers and for the creation of new agencies under the *Farm Products Agencies Act*.

Candidates must apply online by
11:59 p.m. Eastern Time on July 6, 2017.

Council member (part-time position)

The Council member's primary role is to contribute to making sound and transparent decisions, to oversee the agencies created under the *Farm Products Agencies Act* and work with other stakeholders in the management of the supply management as well as the promotion and research systems, using a cooperative approach.

Candidates must apply online by
11:59 p.m. Eastern Time on July 20, 2017.

More details about these opportunities, all essential and asset qualifications, and how to apply are available at www.fpcc-cpac.gc.ca or www.appointments-nominations.gc.ca.

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Fort McMurray business owner bristles at red tape over animals

BY BARB GLEN
LETHBRIDGE BUREAU

FORT MCMURRAY, Alta. — The Clearwater River flows gently beside Dunvegan Gardens but the hills surrounding the garden centre, greenhouse and market garden show how close the fire of 2016 came to shattering the calm.

Like much of the area around this northern Alberta city, blackened tree trunks stand as stark reminders of a disaster that destroyed parts of a city and caused billions of dollars in damage.

Brad Friesen owns Dunvegan Gardens along with his father, Ron. Last May, he and his family were among about 80,000 people forced to flee the area.

The wildfire burned the shop behind his house and part of the backyard fence. It burned old pallets stacked behind the greenhouse and came within about three metres of the chicken coop where about 100 birds were housed.

"I guess God spared us," Friesen said.

He believes the open fields that make up the 75-acre operation, plus the gravel parking lot around the greenhouse and garden centre, served as a firebreak.

In the gardens, the fire delayed planting for about a month, into early June, but that turned out surprisingly well.

"We probably had our best crop and yet it was the latest we have ever planted," he said.

Even the sweet corn, planted June 9, was ready for harvest by Aug. 15, only a few weeks later than usual. The warm soil, fertilizer supplied by ash and good moisture allowed the crop to catch up over the summer.

Friesen started the operation here in 2005, on the site of the former Grey Gardens operation.

Since then, he has seen occasional floods of his low-lying land, a 2007 plow wind that destroyed a 15,000 sq. foot greenhouse and



Brad Friesen takes a phone call while at the counter of the garden centre that is part of his Dunvegan Gardens business in Fort McMurray. Friesen owns sheep, chickens and pigs and has been told by the city a licence is required. | BARB GLEN PHOTO

then had the narrow escape from last year's fire.

After surviving all that, Friesen said the biggest threat to the operation is red tape.

The city is asking for various licences and issued a stop-work order regarding his livestock, which he has successfully challenged.

As well, a neighbour has filed a lawsuit because of objections to land use.

Friesen said farming in the region is challenging for many reasons, among them Fort McMurray's distance from major suppliers.

"But that's not as much a problem as the actual permits with the city. They currently want me to get rid of all my animals. They say that I need a licence," he said.

"They're definitely anti-agriculture. That's what I like to say, anyway. The city is the worst obstacle that there could be for farming."

Dunvegan Gardens has about 100 chickens, 10 sheep and 15 pigs. Friesen has a premises identification number from the province and is working to get intensive agriculture licensing from the city. He has

permits for a tree nursery and sod farm, but has been told others are required.

"Right now, if I can't keep my animals, eventually then we're just going to leave, because to me it's not a place I want to be," said Friesen.

Whether that is a serious option or spoken out of frustration, Friesen is unimpressed with the city's stated requirements and with related legal fees. He said a petition circulated after the stop-work order generated 15,000 signatures, which he took as a strong show of community support for the operation.

Dunvegan Gardens, which employs about 70 people, is named for the historic Dunvegan region in the province's northwest, where the family has its roots. It includes a landscaping service, garden plots rental and an annual corn maze.

Last year's maze featured outlines of people and the words "Fort Mac Strong" and "Everyday Heroes" in a salute to the region's struggle and resilience.

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FAR LEFT: Jackson Buker, 8, helps bring the plow around to the next furrow as Jack Oatway guides the team. Buker was competing in the walking plow competition.

LEFT: Dawn Bjornson competes in the novice walking plow competition. Her father-in-law, Wayne Bjornson, handles the team.

BELOW: A horse team is seen in the distance from the bottom of a furrow.

Diggin' deep

The 47th annual Wanham Plowing Match was held in Wanham, Alta., June 16-18. | **BARB GLEN PHOTOS**



50 YEARS AGO

Winnipeg Grain Exchange plans beef futures market

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: JUNE 25, 1942

Farming was exempted from a federal order that required workers in most sectors of the economy to receive government approval before changing jobs. It was part of an effort to better manage the labour force during wartime, which could eventually see the government transfer workers to different sectors if they were needed.

The Western Canada Stock Growers' Association rejected compulsory rail grading at its annual meeting in Lethbridge. Proponents had argued that the old system didn't benefit producers and that three years of compulsory beef grading in Vancouver had significantly increased beef quality.

50 YEARS AGO: JUNE 29, 1967

An official from the Winnipeg Grain Exchange attempted to convince skeptical cattle producers that the exchange was on the right track as it made plans to open a beef futures market in 1968. However, J.E. McCannel told a livestock day in Kenosee Lake, Sask., that the success of such a venture would ultimately be up to them. "If there isn't a climate of acceptance for this type of marketing, it's doomed from the start," he said.

Egg and poultry associations and the Canadian Federation of Agriculture pleaded with the federal



Wheat is harvested near Brooks, Alta., in September 1950. | FILE PHOTO

government to help egg farmers facing "current disastrously low prices." They recommended a government purchase program, temporary import regulations or both.

25 YEARS AGO: JUNE 25, 1992

Canada agreed to sell Russia an additional one million tonnes of grain, despite concerns about the country's ability to repay its grow-

ing foreign debt. The sale, which was agreed to during a visit by Russian President Boris Yeltsin to Ottawa, was expected to strain and possibly exceed the \$1.5 billion line of credit with the Canadian Wheat Board.

It appeared likely that Prince Rupert Grain Ltd. would handle a record volume of grain in 1991-92 and possibly even exceed five mil-

lion tonnes. The terminal, which was originally built to ship 3.5 million tonnes a year, had handled more than 4.3 million tonnes in the first 45 weeks of the crop year.

10 YEARS AGO: JUNE 28, 2007

The Intercontinental Exchange announced plans to buy the Winnipeg Commodity Exchange, but farmers didn't seem worried about the purchase. "I don't think it really matters," said Bruce Algernon of Newdale, Man. "If they're going to keep it in Winnipeg and keep the contracts going, I don't see that it matters who exactly owns it."

At least five tornadoes touched down in southwestern Manitoba on the evening of June 23, leaving trails of devastation but only minor injuries. Two struck between Pipestone and Hartney and three others were confirmed around Minto and northeast of Killarney.

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SPECIAL REPORT

CARBON TAX: A bitter pill for farmers

Farmers are already using better management practices to minimize their carbon footprints, and many say carbon pricing can't help them to do more



GETTY ILLUSTRATION

BY KAREN BRIERE
REGINA BUREAU

From his west coast vantage point, Stan Vander Waal isn't sure that carbon taxes do what proponents say: change behaviour to reduce greenhouse gas emissions.

The chair of the British Columbia Agriculture Council and owner of Chilliwack-based Rainbow Greenhouses has had nine years to observe the tax in practice.

He said his operation was already using the latest technology to reduce fuel costs when the tax was imposed July 1, 2008.

"On the greenhouse side, the perception was that we would burn less fuel," Vander Waal said. "That's one of our highest input costs."

But he had already installed innovations such as curtain and shade systems and double-walled panels to reduce that cost.

"There just isn't anything that would support that next level of efficiency," he said.

Ottawa has said that carbon plans will be mandatory nationwide in 2018. Provinces are expected to design their own systems or the federal government will impose one. It can be a cap-and-trade system or a carbon tax.

In B.C., the initial tax was \$10 per tonne of carbon dioxide equivalent on heating and transport fuel, rising to \$30 per tonne, where it has been since 2012.

The idea is that a tax will cause people to gradually reduce fuel use and adjust their habits.

It is also supposed to be revenue-

neutral, so all money taken in from the tax is returned through personal and corporate income tax breaks.

A Fraser Institute study earlier this year, however, said the tax ceased to be revenue neutral five years ago as the government moved to more targeted tax cuts, away from broad-based cuts that would spur economic growth.

Farmers have long opposed a carbon tax, arguing that with it, they can't compete against producers in jurisdictions without a similar tax.

The B.C. greenhouse sector was successful in obtaining a permanent 80 percent rebate on natural gas but others weren't so lucky.

"A chicken farmer using natural gas is not getting a rebate," Vander Waal said.

The government also later exempted farmers from paying the carbon tax on coloured gasoline and diesel used on their farms.

Vander Waal said that helps only a little because hauling crops to storage, delivering feed and trucking livestock to market are not exempt.

"All these add on layer after layer after layer of carbon tax," he said.

The average farmer is paying about \$1,000 per year in carbon tax, so no one is likely to go broke over it, he added, but it cuts into the money that farmers have available to reinvest and make their businesses more efficient.

The Pacific Institute for Climate Solutions, which is funded by the B.C. government, released a study in 2014 that found no evidence agricultural exemptions were needed. It noted there was no

change in agricultural trade after the tax was imposed.

The study also said that fossil fuels represent on average only four percent of production costs. A carbon tax, therefore, adds only a small cost. It added that farmers may have changed practices to become more energy efficient.

Farmers across Canada could argue that's exactly the point. In many cases they have taken measures to minimize their carbon footprint through better management practices that use less fuel and sequester carbon.

Yet, they will be paying the carbon tax all along the way without any ability to recover it.

What's happening outside of B.C.?

In Alberta, the \$20-per-tonne carbon tax implemented Jan. 1, 2017, applies to heating and transportation fuel but exempts farm fuels. The tax rises to \$30 in 2018.

The tax is returned to some low-income residents through a rebate, but most of the money goes toward programs for renewable energy and energy efficiency.

Ontario and Quebec both decided to use a cap-and-trade system rather than a carbon tax. This system caps emissions but allows flexibility in how that cap can be met.

Emitters who exceed their caps can buy credits from others with surplus credits.

The Ontario Federation of Agriculture was initially supportive of this type of system but now says it isn't working. Fuel

costs have risen with no way for farmers to offset them; they aren't exempt under the cap and trade program.

The remaining provinces, except Saskatchewan, are still working on their plans.

Saskatchewan maintains it will not impose a tax that will hurt its agricultural sector.

If that is the case, then Saskatchewan farmers can likely look forward to a system similar to Alberta's, according to federal Environment Minister Catherine McKenna's announcement earlier this year.

It will start with a \$10-per-tonne tax on fossil fuels and ramp up to \$50 per tonne by 2022. The federal government is accepting comments on the proposed plan until June 30 at carbonpricing-tarificationcarb@canada.ca.

Back in B.C., Vander Waal said he believes all governments would have been better off setting emissions standards rather than taxing inputs.

"The general perception is that most people are just not being more efficient. I think that's nonsense," he said. "Any business is always trying to reduce costs."

He said public perception drove the need for a carbon tax but few city dwellers realize what was already being done in agricultural sectors.

"A carbon tax doesn't drive efficiency," Vander Waal said. "Governments should really learn what's going on on the farm. There's little knowledge of what's really being done."

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This is the second of three instalments examining the issues surrounding carbon pricing, greenhouse gas emissions and how farmers can do their share without having to pay more than their fair share to do it.

See the entire series online next week at www.producer.com.

GREENHOUSE GASES

Scientists find surprise in soil's freeze-thaw cycle: nitrous oxide emissions

BY ROBERT ARNASON
BRANDON BUREAU

For decades, soil scientists have studied nitrous oxide emissions from cropland during the growing season because they assumed that most emissions occurred from May until October.

A University of Guelph and University of Manitoba study, published earlier this year, suggests that is incorrect.

In cold regions of the Northern Hemisphere, like Western Canada and northeastern China, a third or two-thirds of nitrous oxide from cropland might be released from November till April, when the soil thaws, freezes and thaws again.

"It is possible that 35 to 65 percent of total annual N₂O emissions could be attributed to thaw emissions," a collaboration of scientists wrote in the paper, published in *Nature Geoscience*.

One of the researchers and lead author of the paper is Claudia Wagner-Riddle, University of Guelph environmental scientist.

Wagner-Riddle was interested in

N₂O emissions from thawing soils because nitrogen fertilizer and manure applied to cropland is a significant contributor to global warming.

It's estimated that N₂O is 300 times more potent a greenhouse gas than carbon dioxide. In Canada, more than 70 percent of all N₂O emissions come from agriculture, almost entirely from cropland soils.

One of Wagner-Riddle's main partners in the study was Mario Tenuta, University of Manitoba soil scientist. The study leaders and their team monitored nitrous oxide emissions every 30 minutes from the Glenlea research station south of Winnipeg and a site in Ontario for nine and 14 years, respectively.

The results from Glenlea showed that emissions were negligible in January and February but spiked in March and April when the soil was thawing.

In certain years, on specific crops, the emissions in March and April dominated the total amount of N₂O released for the year.

"In winter wheat for example, one year the emissions from the freeze-

QUICK FACTS

- In 2015 nitrous oxide represented about five percent of all greenhouse gas emissions in the U.S.
- One tonne of N₂O released into the atmosphere is equivalent to 300 tonnes of carbon dioxide
- Agricultural soils and the use of nitrogen fertilizers are responsible for about 75 percent of all N₂O emissions in the U.S.
- The percentage is similar in Canada

Source: U.S. Environmental Protection Agency

thaw were 90 percent," Wagner-Riddle said.

The site in Elora, Ont., also showed more emissions in the winter thaw period, but the spike wasn't as noticeable as the Manitoba results.

The N₂O released was more consistent from January to March in Ontario, possibly because the climate is milder so a thaw is more likely to occur in the middle of winter.

On average, the percentage of annual N₂O emissions from the

freeze-thaw phenomenon was 53 percent at the Manitoba site and 29 percent in Ontario.

The results surprised experts who had thought that nitrous oxide was released primarily in the growing season, especially in the spring period following fertilizer application.

The results from Manitoba and Ontario showed that colder soils release more N₂O during spring thaw.

Wagner-Riddle said the data from Manitoba show the soil for that site was much colder and emissions there were also higher.

Laboratory results back up the finding. When a soil sample is chilled to -15 C, it releases more nitrous oxide than a soil taken to -5 C.

"The intensity of freezing, meaning how low the temperature gets ... that impacts what happens at thaw."

The scientists used the results from the Glenlea and Ontario sites to estimate the amount of N₂O released globally from agricultural soils from freeze-thaw. Using computer models, they calculated that the freeze-thaw cycle adds 17 to 28 percent to all nitrous oxide emis-

sions for agricultural soils.

Most of those additional emissions would come from Western Canada, the U.S. Midwest, northeastern China, Kazakhstan, Russia and Ukraine.

The area of cropland that freezes is minimal in the Southern Hemisphere, the paper said.

"(But) there are many areas of cropland in the world that freeze (and) where these emissions are important," Wagner-Riddle said. "That has been neglected. There's not been a lot of study on that."

Wagner-Riddle and her colleagues were able to measure emissions in Canada and come up with global estimates, but they don't fully understand what is happening in the soil and why N₂O is released during spring thaw.

"We don't know exactly the mechanism," she said.

That will require further study.

The scientists hope to duplicate the research in Saskatchewan to see if results from Manitoba's Red River Valley apply to other parts of the Prairies.

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CARBON SEQUESTRATION

Alfalfa, grasses top choices to aid in carbon sequestration

BY BARB GLEN
LETHBRIDGE BUREAU

Farmers with the goal of sequestering maximum carbon in their soil would plant alfalfa or canola.

That was the quick answer to the "best crops to keep carbon" question from Agriculture Canada researcher Brian McConkey.

Alfalfa is a nitrogen fixer that puts lots of resources into its roots, keeps the soil dry so it reduces decomposition and does that job even in degraded soils.

The end result? More carbon kept in the soil.

Among annual crops, McConkey said canola adds more carbon to the soil than other crops because it has more residue after harvest in the form of leaves, empty pods and stems. These are incorporated into the soil, increasing carbon levels.

"Grown under the same conditions, it will produce more carbon than any other annual crop than we're aware of," said McConkey.

That applies to crops under prairie conditions without irrigation, he added.

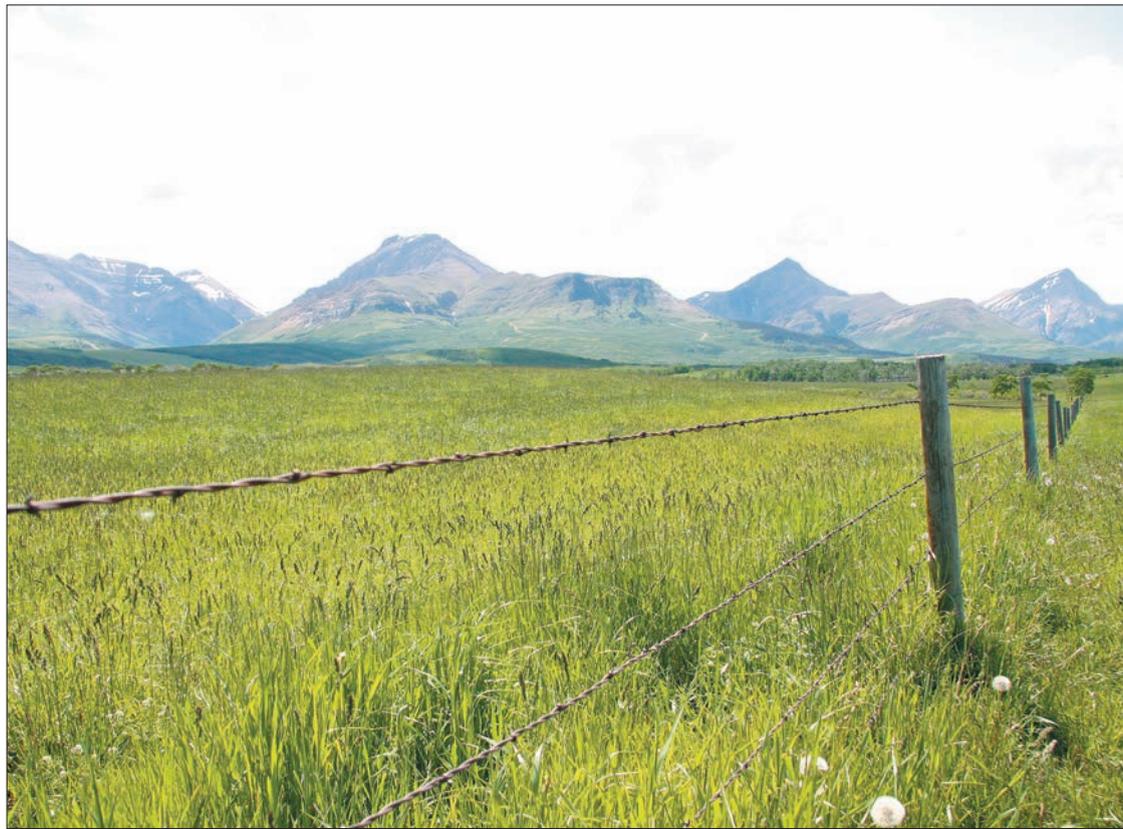
The production of canola on millions of prairie acres means more carbon is being added to the soil generally.

Crop specialist Ross McKenzie doesn't name canola as the best annual for the job, though its part of the mix.

"We'd probably find that there's not a huge difference," he said.

"The more root material, the more organic matter you'll add and also the more precipitation and the more fertilizer you put on, the better the growth and the better the organic matter added by the roots."

McKenzie said prairie grasses and perennial forages should have a prominent place on the list of crops good at sequestering soil carbon. He participated in a wealth



A crop specialist says drought hardy native grasses excel at carbon sequestration because they put a lot of energy into root growth and root mass as a hedge against drought. | FILE PHOTO

of research on soil organic matter, a.k.a. carbon, during his years with Alberta Agriculture.

McKenzie said it's estimated that about half the organic matter held in the soil was lost in the first 40 to 60 years after prairie soil was cultivated. Some of that has been regained with the arrival of minimum and zero tillage.

"If you want to build soil organic carbon, the first thing you do is reduce frequency of summer fallow or eliminate it completely," he said.

Crops with good root growth will build more organic matter, thus sequestering more carbon, so providing adequate nutrition aids in that effort.

However, annual crops are bred for above ground yield, not for root growth. That's where drought hardy native grasses excel because they put a lot of energy into root growth and root mass as a hedge against drought.

Growing grass isn't the money-maker for farmers that annuals can be, so McKenzie suggested farmers consider putting 20 percent of their land in grass all the time and rotating that percentage as a way to build soil carbon.

Even putting land into permanent grass for grazing will require some amount of fertilizer to maximize its ability to sequester carbon by ensuring its productivity.

The best plan for soil carbon sequestration doesn't mean a continual accumulation, McKenzie added. Levels eventually reach an equilibrium where carbon input through organic matter equals carbon output through crop removal and organic decomposition.

McConkey said clay soils are better carbon keepers than other types of soil. As well, Canadian soil is better than some at holding carbon because cold weather ensures that no decomposition occurs over winter.

Ed Toensmeier, author of the *Carbon Farming Solution* and a lecturer on agri-forestry and perennial crops at Yale University, told *The*

Western Producer earlier this year that carbon sequestration increases when trees are added to the list, assuming the climate is conducive to growing trees.

He said annual cropping and grazing can add 12 to 20 tonnes of carbon per acre, but when trees are added, 60 to 80 tonnes can be sequestered.

The carbon held in the soil can be a tricky thing to measure, McConkey said.

Precision is needed, and changes in soil carbon are more easily detected over years.

"It takes a lot of measurements to detect changes over short periods of time," he said. "The changes tend to be fairly small in any one year but it can be done."

He sees paying farmers for carbon sequestration as a viable option, as the Alberta precedent shows.

However, if farmers are paid for carbon sequestration, they must be willing to accept a regional average or estimate on how much carbon their land has sequestered because farm-by-farm tests are impractical.

McKenzie said he doesn't favour paying farmers to keep carbon in their soil because good farming practices would ensure that happened anyway.

"I think that should be something farmers should be aware of, using the best rotations to really build up the quality of their soil but not really be worried about getting paid for it," he said.

"They should be worried about maintaining the quality of their soil."

He also wonders if farmers would be asked to pay back the money they received for sequestering carbon if they changed the crops or practices they were using to obtain payments.

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FARMING SMARTER TOUR

Attack weeds early to avoid yield loss, resistance



Bob Blackshaw of Agriculture Canada discusses herbicide resistant weeds June 8 during a Farming Smarter "plot hop" in Lethbridge.
| BARB GLEN PHOTO

In a field full of weeds there is a greater chance of the resistant gene lurking

BY BARB GLEN
LETHBRIDGE BUREAU

If history is a guide, a higher number of herbicide resistant weeds will be discovered this year in Alberta when Agriculture Canada researchers survey the province.

Sixty percent of cropland in Western Canada has a weed resistance problem to some degree compared to 15 to 20 percent 10 to 15 years ago.

Research scientist Bob Blackshaw told those at a recent Farming Smarter field event that good weed control is an important part of avoiding herbicide resistance.

"We do want good weed control because resistance is a bit of a numbers game," he said. "So if you have a lot of weeds in your field, you have a greater chance of that resistant gene being present."

The prevailing theory is that herbicide resistance is a natural mutation.

"The herbicide does not cause resistance," he said. "That resistant gene is in the population and then we are just selecting for that resistant gene."

That's where early in-crop weed control enters the picture.

Weeds are easier to kill with herbicides when they are small, poten-

tially preventing any with burgeoning resistance from surviving and setting seed.

Most yield damage is done by the first flush of weeds, said Blackshaw.

"If you wait, especially in crops that aren't very competitive, like lentil and field pea and whatever, you can have a 10, 15 percent yield loss just by waiting 10 days to spray a herbicide," he said.

"So don't wait for every last weed to come up in your post-emerge sprays. Try and get a really good control of that first flush and then if you have a good crop stand, it'll cover over and close in the canopy and shade out the weeds."

Most resistant problems in southern Alberta involve Group 1 and 2 herbicides. Only kochia is resistant to glyphosate, a Group 9 herbicide.

"We're lucky that it's only kochia, and I dread the day that we have wild oat that is resistant to glyphosate because we have such resistance to Group 1 and Group 2 already."

Blackshaw said wild oat is the most economically important weed in Western Canada, and its resistance first to Group 1 and then to Group 2 chemicals severely limited options for control.

"What some people are doing ... is trying to fit in a Treflan or an Edge or an Avadex back into your crop-

ping systems because in many cases they still work on those weeds," he said. "They aren't going to give you 100 percent control but they can be a good start in giving you 70 to 80 percent control."

Farmers were asked to pay attention to weed problems and report suspected herbicide resistance as early as possible. Blackshaw was the person at Agriculture Canada who first got the call about herbicide-resistant kochia, which he later investigated and confirmed in work with researcher Hugh Beckie.

Blackshaw learned then that farmers had noticed kochia surviving after spraying but did not think to report it at first.

"We're always going to be two, three, four years behind the curve in terms of identification, so it's really, really important if you have an inkling ... that you have glyphosate resistance in whatever (to report it)," he said. "We're worried about cleavers. We're definitely worried about wild oat and green foxtail."

Weeds also adapt to cropping systems and climate. Blackshaw said he was surprised to find hemp nettle in southern Alberta research plots this spring because it usually prefers wetter, cooler conditions.

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AG NOTES

4-H ALBERTA PRESENTS PREMIER'S AWARD

Alyssa Henderson from the Central Lacombe 4-H Beef Club received the 2017 4-H Alberta Premier's Award.

Henderson was chosen from among the province's top 4-H members during the 60th annual 4-H Selections program at Olds College in Olds, Alta.

She will represent 4-H Alberta at various regional 4-H and agricultural events throughout the year.

In addition, 14 senior 4-H delegates were named as 4-H Alberta Ambassadors to promote 4-H and youth involvement in Alberta.

4-H Alberta has also selected 33 members to represent 4-H Alberta at major educational events and conferences throughout Canada and the United States.

SMART EARTH SEEDS GETS FUNDING

Smart Earth Seeds has been approved for a \$300,000 investment from Ag-West Bio, Saskatchewan's bioscience industry association. Smart Earth Seeds is a plant

breeding company developing high-omega meal and oil products derived from camelina.

Camelina is a sustainable source of the essential fatty acid ALA (an omega 3 fatty acid), as well as a dietary balanced omega 3-omega 6 ratio. It's also rich in vitamin E and natural antioxidants.

The Ag-West Bio approval is contingent on investments from other sources, up to \$2 million.

Smart Earth Seeds has generated more than \$1 million from sales of its camelina products, including significant sales into the fish food industry.

The company will soon release plant-breed varieties that offer non-genetically modified herbicide resistance, a significantly larger seed size and a variety optimized to deliver an improved omega 3-omega 6 ratio.

FARM SUSTAINABILITY

The federal government is investing more than \$1.1 million to identify effective ways to reduce greenhouse gas emissions on farms.

The money will go into an Eastern Townships Forest Research Trust's (ETFRT) project, under the Agricultural Greenhouse Gases Program (AGGP).

The ETFRT will study the carbon storage capacity of hybrid poplar filter strips and multi-species riparian buffers, and its effects on the ecosystem. The project is expected to provide farmers with access to cost-effective best management practices for reducing greenhouse gas emissions.

The AGGP is a \$27 million initiative intended to help the agricultural sector adjust to climate change and improve soil and water conservation.

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CROP REPORT

ALL CONDITIONS AS OF JUNE 23 . VISIT WWW.PRODUCER.COM REGULARLY FOR UPDATED CROP REPORTS

ALBERTA

SOUTH

- Precipitation has provided good growing conditions and most crops are in good to excellent shape, but high winds have been a concern. Surface and sub-surface soil moisture is rated at 84 percent good to excellent. Pasture and tame hay conditions are rated 82 percent good.

CENTRAL

- Most spring wheat is in the elongation stage of development, while barley and oats are still in the tillering stage. Surface and sub-surface soil moisture is rated at 90 percent good to excellent. Pasture and tame hay conditions are 75 percent good and 17 percent excellent.

NORTHEAST

- Some wet acres are left unseeded, and wet conditions are delaying spraying operations and crop growth. Most crops are in good to excellent condition. Surface and sub-surface soil moisture conditions have an average rating of 64 percent good to excellent and 36 percent excessive.

NORTHWEST

- Some fields will not be seeded, and post-emergence spraying has been stalled by excessive moisture conditions. An average of 63 percent of crop is in good to excellent condition, which is lower than the provincial average. First cut haying operations are underway with pasture and tame hay conditions rated as 95 percent good to excellent.



A short shower that fell at suppertime during seeding earlier this spring left a rainbow over the Spray farm near Preeceville, Sask. | KRYSTAL SPRAY PHOTO

PEACE

- Good weather conditions allowed for extensive spraying, and most crops are in good to excellent condition. Most cereals are in the tillering stage of development. Surface and sub-surface soil moisture is 78 percent good to excellent, while pasture and tame hay are rated 22 percent poor to fair and 78 percent good to excellent.

SASKATCHEWAN

SOUTHEAST

- Crop development has improved with precipitation ranging from eight to 112 millimetres. Topsoil moisture conditions for cropland, hayland and pasture have an average rating of 76 percent adequate and 12 percent short. In-crop weed control is underway in areas with active weed growth, but strong winds have delayed operations.

SOUTHWEST

- Rainfall ranged from trace amounts to 40 mm. Cropland topsoil moisture is rated as 51 percent adequate and 39 percent short, while hayland and pastures are 31 percent adequate, 49 percent short and 20 percent very short. Strong winds continue to delay in-crop weed control.

EAST-CENTRAL

- Precipitation varied from eight to 60 mm. Cropland, hayland and pasture topsoil moisture conditions have an average rating of 72 percent adequate. Farmers are busy controlling weeds and getting ready for haying.

WEST-CENTRAL

- Rainfall ranged from trace amounts to 42 mm, but many areas still need more rain for crop development. Cropland topsoil moisture is rated 75 percent adequate and

22 percent short, while hayland and pastures are 61 percent adequate and 35 percent short. The majority of crop damage was due to lack of moisture, wind and insects such as cutworms.

NORTHEAST

- Precipitation varied from six to 35 mm, and the majority of crops are behind normal stages of development. Cropland topsoil moisture is rated 21 percent surplus and 61 percent adequate, while hayland and pastures are 15 percent surplus and 72 percent adequate. Farmers are busy trying to control weeds and getting ready for haying.

NORTHWEST

- Rainfall ranged from three to 54 mm, but the majority of crops lag behind normal stages of development. Topsoil moisture conditions for cropland hayland and pasture have an average rating of 70 percent adequate and 23 percent surplus. The majority of crop damage was because of flooding and insects such as cutworms and flea beetles.

MANITOBA

SOUTHWEST

- Precipitation varied from 25 to 45 mm with standing water in some low-lying areas. Fungicides are starting to be applied, and herbicide application is completed except for late-seeded crops. Weed control measures are 75 to 80 percent complete.

NORTHWEST

- Rainfall ranged from 19 to 58 mm with cooler temperatures. Seeding is wrapped up except The Pas, where seeding remains at less than 15 percent complete because of excess moisture. Weeds are flourishing due to wet fields and lack of herbicide application.

CENTRAL

- Precipitation varied from 15 to 45 mm with standing water in some low-lying areas. Most cereals and canola fields have received one herbicide application, and most fungicide applications have been done where risk of fusarium head blight is warranted. Pasture conditions have an average rating of fair but range from poor to good.

EASTERN

- Rainfall ranged from 20 to 48 mm with strong winds and unseasonably cooler temperatures. Overall crop condition is good to excellent, and crop development is steady and relatively rapid. Soil moisture conditions on cropland are rated 95 percent adequate while hayland and pasture are 90 percent adequate.

INTERLAKE

- Crops are advancing well with precipitation, which ranged from 13 to 30 mm. Some isolated spraying for cutworms and flea beetles has occurred, but insect pressure remains light. Hay and pasture development is good and spraying is occurring for alfalfa weevils and aphids.

COMMITTEES OF THE LEGISLATIVE ASSEMBLY OF ALBERTA

Should Bill 203, Alberta Standard Time Act, be passed?

HAVE YOUR SAY.

The Standing Committee on Alberta's Economic Future invites you to provide input on Bill 203, *Alberta Standard Time Act*.

Bill 203 proposes the year-round observance of Alberta Standard Time. This means Alberta would be on Mountain Daylight Time year-round. If passed, the Act would come into force on November 2, 2018.

For more information on Bill 203 and how to make a submission, please visit: assembly.ab.ca/committees/abeconomicfuture
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PRODUCTION

WEED OF THE WEEK

Foxtail barley has been waiting for a chance to regain its empire. Flooding, reduced tillage and limited in-crop cereal tools aid it. | **Page 52**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM



FAR LEFT: The DOT is a power and guidance platform that will accept a variety of implements.

ABOVE: Norbert Beaujot shows the U-shaped DOT.

LEFT: A controller provides manual direction.

| MICHAEL RAINE PHOTOS

EQUIPMENT

Look ma, no tractor

BY MICHAEL RAINE
SASKATOON NEWSROOM

Long cold winters, intense and short farming seasons, tight margins and shortage of labour have long been credited for Western Canada's agricultural innovations.

For the past three winters, one of the fathers of reduced tillage equipment has been taking in the sun in Mexico and considering the next step-change in agriculture — autonomous work.

"Stepping back from the day-to-day has given me the opportunity to consider the subject of farm machinery size, the constant trading cycle and everything that goes with it," said Norbert Beaujot, the founder of SeedMaster.

The seeding equipment inventor and manufacturer grew his Saskatchewan operation into a global business that continues to grow after 25 years.

Despite marketing one of the world's largest seed drills, Beaujot said "bigger isn't the answer in the long run."

"I asked myself why we need the tractor in the first place. It is just a

part of bigger," he said.

The result of Beaujot's consideration of the issue was DOT, an autonomous, powered farming platform.

It's a big, U-shaped tool carrier that wraps around the implements it operates. There's no need for giant tires, ballast and hundreds of horsepower just to move the power unit or cab and operator station.

"We purposely didn't put a seat on it. If it was there, somebody would want to sit on it. That's the wrong direction," said Beaujot.

The DOT platform is designed to carry and power the implements, following a predetermined way-path in the field.

Trent Meyer, who runs SeedMaster, a sister company to Dot Technology Corp., said optimizing those paths is one way that the DOT system pays its way.

"No farmer intends to drive around needlessly in their fields, but no farmer will tell you it doesn't happen all the time.... With DOT, the farmer predetermines where the machine will travel before it gets to the field, for the most efficient operations," he said about the

system's specialized guidance and field operations software.

The DOT is aimed at a 30-foot-wide tool profile for the North American, Eastern European and Australian markets. A smaller version will be built for Europe.

Tackling residue

To do this, Beaujot had to solve one other issue. Seeding tools on the relatively narrow spacings needed for the small grains and oilseeds grown on the Prairies had to be set on toolbars in multiple ranks for residue clearance.

"I have been working on that since the start of Seed Hawk," he said of more than 25 years of trying to deal with the issue.

"And we have it," he said about a driven, flexible pin-disc that he developed to operate between the shanks.

"It allows us to run narrow (rows) without plugging."

A single rank of drill shanks was needed to allow the DOT to turn end-ways for transport.

The 30-foot unit rotates and measures just 12 feet wide when operating on the road.

From the home of farm machinery innovation comes a DOT outside the box

Beaujot has long been concerned with the size of machinery in transport, so this met one of the safety and road damage objectives.

The 30-foot width was based on average seeding windows and combine capacities.

Two of the DOT units could seed 4,000 acres "with lots of capacity to spare" said Meyer.

"They would do the work of a 70 or 80 foot unit and do it far more efficiently," he said.

As well, an operator could run multiple machines because of the autonomous operation.

Beaujot said the labour savings are significant, but the machines also don't need to stop to accommodate human needs.

The company is offering licensing opportunities to other manufacturers on a "cost recovery basis."

"Not every farmer wants a SeedMaster. They might want somebody else's technology, and that is great, too," he said.

Implements attach to the DOT with a set of latches, and the unit picks up the tool and powers it.

A 164 h.p. Cummins engine provides the juice for all operations. Individual wheel motors and high

efficiency hydraulics allow for some creative field maneuvers that a tractor and towed implement could not achieve. As well, per acre fuel costs are very low with average savings of about 30 percent.

At about 8,000 pounds, the DOT powered platform weighs only as much as some large pick-up trucks.

Farmers operate the unit from a Windows SurfacePro tablet, where all the brains for the unit reside.

Meyer said the engineering has been done to make both the mechanical and electronics as simple as possible.

The size of the units also allows smaller farms to get the same higher-end technologies that larger ones enjoy. Larger farms just use more units.

Six DOT units will be tested in the southern Prairies for the first year, and farmers will get their first chance to see the machine run during live demonstrations at the AgIn Motion farm show west of Saskatoon in the third week of July.

"This is prairie farmer's solution to autonomous machinery. They can ditch the hitch," said Beaujot.

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SEEDING EQUIPMENT

Big, farmer-built planter meets Prairies

Harvest International combines vacuum planter with trash clearing and precision metering

BY MICHAEL RAINE
SASKATOON NEWSROOM

REGINA — Go plant it. Go plant all of it with a big planter.

The Prince family from south-western Manitoba have been producing corn and soybeans for more than a dozen years, but have never been fully satisfied with their seeding tools.

“(It) could have been more precise. We farm a fair bit of land, so faster is always better. And we grow canola, wheat and the other crops that our neighbours on the Prairies do,” said Frank Prince.

“So we took the speed and precision of a planter and applied (it) to everything,” said the Waskada farmer.

During winter, Frank, brother Billy and their parents committed to a project that began as a drawing on a napkin last fall.

Iowa-made Harvest International Laserpro 1 vacuum planter units were mounted over 60 feet in two ranks, complete with Yetter trash clearing and Precision Planting metering, at Sorensen Welding in Mahanomen, Minnesota. For corn and beans, brush-belt Speed Tubes were added.



FRANK PRINCE
MANITOBA FARMER

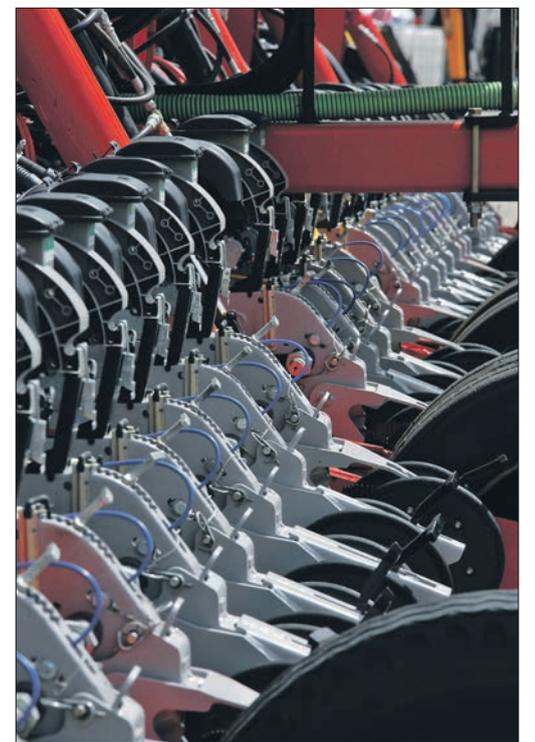
“Paul (Sorensen) put it together for us (there are now three different prototype models) that went to work this spring,” said Frank, whose family company Capricorn Bay is selling the machines.

His father, Dave, said when people asked him if they were going to try out the new system this year, he told them they were going to do more than try it out.

“I had to tell them that Billy and Frank planned to seed everything with it. And they did.”

Changing the seed discs in the planter meters enabled the family to move between crops, from corn to canola.

Based on 10 inch spacings for small grains and oilseeds, with a



Two ranks of planter units are installed on Capricorn Bay's big drill.

The company's planter/drill gets mid-row banding for one pass seeding.

The seeding units line up every 20 inches on two ranks. | MICHAEL RAINE PHOTOS

variety of configurations possible, lifting the front units allows for 20 inch corn rows.

Mid-row banders on the front rank provide single-pass seeding, fed by a pull-between liquid caddy. A pull-behind air-seeder cart gets granular inputs into the big planter/drill.

Frank said the machine maintains relatively high rates of speed in the field, but the size of the two-rank, 60 foot toolbar carrying a pair of large carts means there are significant power requirements, as he gestured to a Big Bud tractor attached to the seeder on the

We managed to seed canola two and half inches apart at perfect depth. That's about 2.5 pounds (of seed) to the acre. The seed savings alone, when you have been seeding four or five pounds, will pay for planter technology.

FRANK PRINCE, MANITOBA FARMER

grounds at Canada's Farm Progress Show held in Regina June 20-22.

Dave Prince said that “on hillier land we quickly realized it was time for a new set of tires for the Bud.”

Frank said the unit proved to

work well, with all of their crop up and “the best looking we have grown in years.

“We managed to seed canola 2 1/2 inches apart at perfect depth. That's about 2.5 pounds (of seed) to

the acre. The seed savings alone, when you have been seeding four or five pounds, will pay for planter technology,” he said.

The Precision Planter meters also provide individual row variable rate and cut off and turn-rate compensation.

“With the Yetter units clearing the way the seedbeds are amazing.”

The company has been taking orders for the machines for next season and will have the two-rank unit at the Ag In Motion farm show near Saskatoon in July for producers to examine.

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SEEDING EQUIPMENT

John Deere's high speed planter upgrade designed for speed

Changes to the MaxEmerge and ExactEmerge will allow growers to seed at speeds up to 10 m.p.h.

BY RON LYSING
WINNIPEG BUREAU

MOLINE, Ill. — The MaxEmerge 5e and ExactEmerge planters are John Deere's answer to the European Maestro and Tempo high-speed corn planters. Upgrades to both JD planters were revealed this

month in Moline.

“There's a lot of interest in high-speed planters. There's a lot of interest in hitting your planting window, and rightfully so,” said Deere seeding specialist Ryan Hough.

“Some of our customers are putting down 70 acres per hour. When

you're running 10 m.p.h. with a planter, you need a whole new set of technologies. Look at the wet planting conditions we've had recently and you can see that going fast is important.

“There's guys with traditional planters who've hit eight m.p.h., maybe 10 m.p.h., but they're sacri-

ficing accuracy. We have some video of guys hitting 13 and 14 m.p.h. with our high-speed planters. I don't think that's comfortable. I don't think you get accuracy at that speed.”

Hough said some farmers want to cover more acres with big wide planters driving at a relatively

slower speed, while others have started thinking it's better to run fast in order to get it done. Right now, he says it still looks like a balancing act. Either way, you can't sacrifice seed placement. You have to maintain your accuracy.

CONTINUED ON NEXT PAGE >>

» CONTINUED FROM PREVIOUS PAGE

Hough said Deere has a distinct advantage over many high-speed planters on the market: the use of the brush belt seed delivery device. The brush belt provides total control of each seed from the meter right down to the bottom of the seed trench.

"In the past, you had gravity dropping the seed about two feet down the pipe, so you had a lot of seed bounce," he said.

"With the brush system, there's no air pressure behind the seed and no gravity involved, so there's no bounce or shake or rattle or roll. The seed is firmly held in place by the bristles on the brush belt. The belt turns until the seed nearly touches the soil. At that point, the belt is making a tight corner around the bottom pulley, so the bristles open up and lay the seed in the trench.



The pulley at the bottom end, left side of photo, is a smaller diameter so the bristles open up more to release the seed. The system allows planting up to 10 m.p.h. with good seed placement, according to Deere.

| RON LYSING PHOTO

"There's a mechanism that matches the belt rotation to your ground speed. If you stop for any reason, the belt stops and the seed stays in the brush. When you start up again, spacing between seeds remains at whatever distance you have set it for. If you slow down or speed up, the brush belt always matches your ground speed. You always have consistent spacing.

Machine bounce doesn't affect placement either."

Up at the top of each row unit, one electric drive motor spins the metering bowl, which serves the same purpose as a metering disc in selecting one seed at a time. Another electric motor drives the brush belt.

Hough said two independent motors are required to control

plant population regardless of ground speed.

"Going 10 m.p.h. puts a lot of stress on the frame and row unit, so these new components are built extra strong, whether you buy a brand new planter or a retrofit kit going all the way back to 2011."

Row unit down force is provided by hydraulics. A sensor on each row unit determines if the correct

amount of pressure is being applied, and adjustments are made automatically to maintain the depth dialed in by the operator. Air bags are still available, but Hough said most buyers opt for hydraulics. Pneumatic down force is used on the row cleaners and closing wheels.

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WEED OF THE WEEK: FOXTAIL BARLEY

BY THOM WEIR
FREELANCE WRITER

Some weeds have flourished with the increase in no-till acres over the past 20 years. One of them is foxtail barley, known to biologists as *hordeum jubatum*.

It has become an increasing concern after our series of wetter years and with the expansion of saline-affected soils.

Foxtail barley tolerates the saline conditions that occur once it dries out after periods of excess moisture. It has managed to establish itself on a significant number of acres in Western Canada recently.

The nasty pest thrives when tillage is reduced, as has been the case over a large number of acres when it was too wet to seed or work. There are very few herbicide control options and those that are available are crop or timing specific.

Foxtail barley has a shallow, fibrous root system that makes it very susceptible to control through tillage. However, as we moved away from steel in soil, this weed has continued to flourish since more normal weather patterns have returned to the region.

There are three chemical timings for control of this problem.

The first window is the pre-seeding opportunity.

Work done at the University of Saskatchewan shows that a .5 litre per acre rate of glyphosate using formulations with 360 grams of active ingredient per litre and applied at approximately the 120 growing degree days point gave acceptable control of seedlings, those with crowns less than one inch in diameter. Established plants were suppressed but survived the treatment.

It has been observed that even rates as high as 1.5 litres per acre will not control all established plants in all years. Control of both seedling and established plants was increased if the application was delayed until 240 growing degree days.

Late applications of 1.25 litres provided good control of established plants in some years.

This moves us to the second window of control — in-crop herbicides.



FILE PHOTO

We are quite limited with options for in-crop control, especially in cereals.

Quizalofop (Assure II, Yuma GL) provides quite good control in broadleaf crops, followed by clethodim (Select, Centurion, others) and sethoxydim (Poast Ultra).

While not registered, many farmers will tank mix quizalofop with glufosinate or glyphosate for their early spray application.

Spraying the outside 60 to 90 metres around sloughs is usually sufficient to control an early infestation.

Control is very limited in cereals. Everest shows suppression of foxtail barley in American literature. In some Canadian studies it has provided control of emerging seedlings, but has limited effect on overwintered plants.

The best opportunity for control is September and October, and success depends on fall rains that stimulate foxtail barley regrowth.

Glyphosate at one litre per acre applied pre-harvest or post-har-

CONTROL METHODS

- Foxtail barley is a tough-to-control perennial weed, especially in zero tillage systems.
- Glyphosate can effectively control seedlings at relatively low rates if properly timed.
- Higher rates of glyphosate are required for control of mature or overwintered plants.
- For pulses and oilseeds, research has shown that Assure II can be used for in-crop suppression foxtail barley.
- Limited control options in cereals make it important to emphasize pre-seeding and post harvest control options.
- High seeding rates and proper placement of nitrogen fertilizer help to reduce yield losses and slow the spread of foxtail barley.
- Use of cultivation for control of foxtail barley might be the best option available, especially if populations are limited to field margins or areas around sloughs.

vest can be expected to provide greater than 80 percent control of established plants, if plants are actively growing.

However, the larger the plant the poorer the control. The rate should be increased to 1.5 to two litres if the foxtail barley plants have celebrated two birthdays.

The addition of quizalofop to the glyphosate will also improve control.

Pre-harvest applications are most effective when significant moisture had occurred in August.

The extremely hairy, narrow leaves mean it is important to use adequate water volumes and recommended rates of surfactants with whatever herbicide you choose.

Foxtail barley doesn't establish to be a problem in one year, and it will probably take more than a single season to get it under control.

Thom Weir is an agronomist with Farmer's Edge. He can be reached by emailing thom.weir@farmersedge.ca.

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Chelsea Richter, AAg
Agronomist
Ag Grow Consulting
Codette, SK

Chelsea is a consulting agronomist with the Ag Grow Consulting team. During the growing season, she performs small plot research and offers services to producers such as field scouting and soil sampling. In the winter season, she offers fertilizer prescriptions and soil sampling.

"Being registered as an agrologist (AAG) assures producers that I am an educated and ethical professional committed to offering them with science-based advice and information."

Chelsea grew up on a grain farm near Broadview, SK. She received a BSc in Agriculture with a major in Agronomy from the University of Saskatchewan. Chelsea previously worked for Monsanto and Cargill before joining Ag Grow Consulting in 2017.



Haley Stratichuk, AAg
Agronomist
Yorkton Co-op
Ebenezer, SK

Haley provides agronomic advice, sales and services to producers to help their businesses prosper. She offers crop inputs sales, grain and fertilizer storage sales, crop protection products, crop planning and field scouting services.

"Being registered as an agrologist (AAG) provides recognition to my education and indicates to producers that the advice I provide is science-based and ethically bound."

Haley grew up in Yorkton, SK. She received a BSA in Crop Science from the University of Saskatchewan. Haley joined Yorkton Co-op in January 2016.

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Stocking rates must be
adjusted to keep pastures
sustainable. | BARB GLEN PHOTO

MEDIA CAMPAIGN

Beef promotion targets masses

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Alberta beef is coming to a jumbotron near you.

A new campaign to promote Alberta beef is designed to capture the attention of those who like to eat beef as well as the more elusive millennials, whose opinions about food vary vastly from their parents.

The new campaign, "All for the Beef," hopes to create ongoing publicity with video, digital, print and outdoor presentations to create a wider social presence.

"We are looking for venues that get us into the largest crowd," said Brad Dubeau, who handles marketing for Alberta Beef Producers.

Promotions will provide a romantic view against a stunning landscape with stories about the people who produce beef.

Contracts have been signed with the Calgary Stampede and Edmonton Eskimos to run video and digital material on their jumbotrons during Canadian Football League games. The program will also appear at eight of the Calgary Stampede jumbotrons to promote Alberta beef to Albertans.

Further contracts have been made with Farmfair International and the Canadian Finals Rodeo in Edmonton.

The next step is to connect with smaller communities, probably through the Western Hockey League.

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SUPPLY AND DEMAND

How much forage is enough?

Producers need to consider weight, class and breed of livestock in determining forage needs

BY BARBARA DUCKWORTH
CALGARY BUREAU

VERMILION, Alta. — Grazing basics tell producers to balance livestock demand with available forage supply.

The concept seems simple enough, but that balancing act requires different plans depending on the plant community, geography and cattle behaviour.

"You need to graze in a sustainable way so you can come back and maintain that asset," said Donna Lawrence, a range management specialist with Alberta Agriculture. "We want to be able to do that forever."

The four principles of range management are:

- Balance livestock demand with available forage supply.
- Distribute livestock grazing pressure evenly.
- Graze in the proper season.
- Allow effective rest periods after grazing.

Stocking rates are designed to graze livestock and sustain pastures as well as leave material behind to hold moisture and build soil.

Carryover adds litter and is not a waste of forage, she said at a women's grazing school held at Lakeland College in Vermilion.

"It is a tough sell sometimes." The rule of thumb is to graze half and leave half, but the for-

mula changes in forested areas because shrubs and forbs do not regroup as fast as grasses.

"In forested pasture, to sustainably graze we plan on safely grazing 25 percent of the available forage production," she said.

If you do not adjust the AUM for larger animals, then you are overgrazing.

DONNA LAWRENCE
RANGE MANAGEMENT SPECIALIST

Healthy range is sustainable and competes with weeds, and the land should be able to withstand drought.

Fertilizer is only effective in pasture rejuvenation if there are healthy plants to take it up. Otherwise, producers are just fertilizing dandelions, said Lawrence.

A better solution for overgrazed land is to provide more rest and change the times the plants are

allowed to rest.

Grazing rates are based on animal unit months.

The standard animal unit is the amount of forage a 1,000 pound cow with or without an unweaned calf up to six months of age can eat in a month.

Older calves need to be treated as an animal unit because they are also grazing.

The standard animal unit must be adjusted to take into account different requirements for different kinds, sizes and classes of livestock.

"If you do not adjust the AUM for larger animals, then you are overgrazing," she said.

The AUM calculation indicates the potential grazing between the fence posts, but that may not actually happen.

Also, it is important to remember that most modern beef cows weigh 1,200 to 1,400 lb. or more.

Cows of this weight range can consume 31.2 to 36.4 lb. of dry matter, or 21.5 to 40 percent more than the a 1,000 lb. cow-calf pair.

Therefore, these larger cows would have a greater requirement compared with the standard animal unit if calculating these equivalencies based on amount of feed consumed.

Other types of stock, such as mature bulls and yearling steers, are assigned animal unit equivalents based on differences in size and consumption compared with the standard animal unit.

Grazing plans also need to be adjusted to account for accessibility to forage and livestock grazing preferences and habits. Cattle do not uniformly graze a pasture because there may be barriers such as a river, muskeg or invasive plants such as knapweed, which cattle won't eat.

Cattle are creatures of habit and can be lazy. There are areas they prefer and areas they avoid so active management is needed to keep them moving and use the pasture more efficiently.

"We have to adjust for the lay of the land, their preferences and what we are going to do about it," she said.

A manager should also consider consumption rates, trampling and spoilage effects when predicting the amount of required forage.

Alberta Agriculture offers updated grazing charts at bit.ly//2rVNFno.

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CATTLE WEIGHING 1,200 TO 1,400 LB.
CONSUME UP TO

40 percent more

THAN A COW-CALF PAIR

CATTLE

Bigger calves aren't always better

BY WILLIAM DEKAY
SASKATOON NEWSROOM

LANIGAN, Sask. — Chip Hines says bigger cattle aren't better for increasing the financial bottom line.

"That's something that people do not understand. Our whole focus has been on pounds and performance, but that's not the one that tells the story," the author and retired Colorado rancher said during the Western Beef Development Centre's 19th annual field day at the Termuende Research Ranch near Lanigan.

"The smaller weight calf raised very stringently without a lot of extra cost, and if you add his numbers up and compare that to the big calf, the numbers will outperform the large animals every time financially," he said.

Hines said smaller calves and mothers are the most efficient because they're working closer to where cattle evolved to over thousands of years.

Hines said he realized in the late 1970s that focusing on weaning weight's cost of artificial inputs was the wrong approach.

"I began following the weight/price slide in 1979 when I realized 500 pound calves were only bringing \$10 a head more than 400 pounders," he said.

"It was then that I concluded the push for higher weaning weights for a profitability increase was only an assumption. The assumption being that since we sold pounds, more pounds would be profitable. This sent the industry on a race for high performance animals."

Influenced by Allan Savory's book, *Holistic Resource Management*, his philosophy eventually



Bart Lardner, left, senior research scientist for the Western Beef Development Centre, chats with Chip Hines, author and retired rancher from Colorado during the centre's 19th annual summer field day at the Termuende Research Ranch near Lanigan, Sask., June 20. | WILLIAM DEKAY PHOTO

coalesced into using nature as a guide to achieve management efficiency by combining marketing, genetics and grazing.

"Slantwise logic, that's what I call my work," the octogenarian said.

"I tend to look for things that someone else has not looked at or see it in a different view than anyone else to bring out some things that we need to be thinking about that kind of gets swept under the rug."

Hines said producers want the highest possible return for every pound of forage a cow eats.

"Raise as much forage as you can and then make every bite count," he said. "That's something we haven't been doing."

He said natural selection defined cattle with a skeletal structure for travel and calving, disease and parasite resistance, a robust rumen and a size determined by their

environment.

"Let the natural environment determine the size of the animal," he said. "It's not the big cow that's the most efficient, which is something that is finally coming back to the front."

He said research has shown that smaller cows can wean more pounds of calf per pound of feed than larger cows, which is significant in light of efficiency and the total amount of energy expended.

Producing larger cattle requires milk, which requires more energy than smaller animals.

A University of Nebraska study fed 494 calves out of low, medium and high milk production cows. The calves were all fed to a common endpoint of marbling. It found that high and medium milk groups required 11 percent more energy than the low milk group.

"We can't survive with inefficient cows. We have to make the most of every bite that they eat," said Hines.

Another study has shown that adding 100 lb. of cow weight will produce, at best, six lb. additional calf weight. This added calf weight is worth \$5 to \$7, while the cost to put it on is \$42, which is a net loss of \$35 per cow unit.

"(Producers/researchers) were so involved in gross profit that net profit was not recognized and this is something that we need to learn to do is to look at the whole picture," he said.

Duane Thompson of Kelliher, Sask., who also uses the holistic management approach for his ranch, said he understands that ranchers want the bragging rights for high priced or big weaning weights at the sale barn.

However, he said producers should be aware that too many artificial inputs are making a less efficient animal by changing its natural advantages.

"The cow is the most amazing factory there is," he said.

"She can take feed products that she has no competitors for, stuff that nothing else can eat, and she can turn it into maintenance and a calf."

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GRAZING LEASES

Alberta gov't, grazing committee work on fair leasing rate formula

New rates would be phased in over five years and reviewed periodically

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Work continues on setting rental rates for Alberta's public grazing leases.

"We hope we have a framework that producers across the province can support," Alberta Beef Producers manager Rich Smith said at the organization's spring meeting in Edmonton June 13.

"The government is looking to producers to lead the drive to produce this framework. They don't want this framework to be imposed on the industry by government."

More information will be presented at fall producer meetings, said John Buckley, a member of the grazing associations' committee working with government to create a fair rate.

"Additional communication with all the affected stakeholders will occur when the rental rates have been calculated for the first year and new formul are put in place, likely in Jan. 1, 2018," he said.

Implementing the new rates

requires an amendment to the public lands act regulations. The legislative process is under way, and all leaseholders will receive a letter explaining changes in rates and fees, which could be settled by January 2018.

The objective was this should be revenue neutral to government but fair to both government and the leaseholders.

JOHN BUCKLEY
GRAZING COMMITTEE

Rents have been frozen since 1994 and have been under review since 2013. The rates were outdated and did not conform with international trade rules. The latest proposal is a flexible market based formula determined by stocking rates and profitability.

The latest idea proposes to divide the province in half with a bound-

ary based on the transition to the boreal region.

The rates would be phased in over five years. Zone 1 would charge a minimum of \$2.30 per animal unit month and Zone 2 would be a minimum of \$1.30 per AUM.

When beef prices rise to the point where the industry can earn a profit, 10 percent of that projected income from the lease is added to the base as a variable rent.

Surveys of 280 individuals and 28 associations asked about the costs incurred in having a lease. Costs include fence building, range improvement, corrals, fire protection, water development, property taxes, supplemental fees and costs working with other users on the land base.

Government has agreed to resurvey costs periodically to ensure that the formula is reasonable.

"The objective was this should be revenue neutral to government but fair to both government and the leaseholders," said Buckley.

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THREAT OF EXTINCTION

Emerging fungal diseases threaten wildlife

ANIMAL HEALTH



JAMIE ROTHENBURGER, DVM

It isn't often we focus on fungal diseases; usually viruses and bacteria occupy our attention when it comes to infectious diseases.

But fungal infections are on the rise. Particularly in wild animals, fungi are a major cause of newly recognized infectious diseases.

White nose syndrome, a fungal infection of hibernating bats, is demolishing populations in eastern North America.

Since 2006, this disease has spread from the state of New York to the entire northeastern region of North America.

As well, it reached the western edge of Ontario this year and also showed up in the state of Washington.

The fungi grow on the skin of infected bats, covering their nose, wing webs and ears with a thick, fuzzy white material that gives the disease its name.

Damage to the skin leads to dehydration and stimulates the bats to wake up prematurely from hibernation.

Since this is usually in the middle

of winter, most die of starvation due to a lack of insects, exposure to cold and dehydration.

There are no vaccines or treatments available to save the millions of bats at risk.

A similar deadly fungal infection is wiping out amphibians such as frogs and toads around the world. Chytrid (pronounced "KIT-rid") fungus hit the radar of wildlife specialists in the late 1990s when massive numbers of amphibians died in areas where they should have been thriving, such as in protected wildlife refuges.

**MORE THAN
500 species
OF AMPHIBIANS ARE
AFFECTED BY THE
CHYTRID VIRUS**

More than 500 species are susceptible to infection, including many that are critically endangered. The origin of this fungus is still debated, yet it has spread around the world. Some frogs, like the North America bullfrog, are often infected without any signs of illness.

This matters because bullfrogs are shipped around the world as human food (frog legs), likely spreading the fungus.

Amphibians become infected through contact with contaminat-

ed water or infected individuals. Like white nose syndrome of bats, chytrid fungus infects the skin. Amphibian skin is an important organ for maintaining hydration and functions like lungs for gas exchange.

Damage and thickening of the skin due to the fungal infection can quickly cause death.

A closely related strain to the original chytrid fungus has recently emerged in Europe, where it was responsible for killing 96 percent of fire salamanders in the Netherlands.

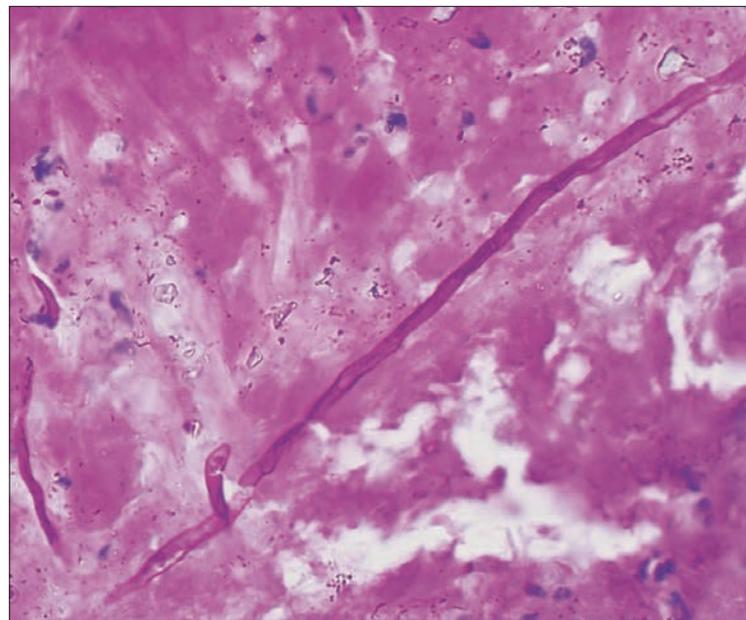
This new fungus seems to infect only salamanders, leading Canadian authorities to ban salamander imports in an effort to prevent its spread to Canada.

Snake fungal disease is a newly described condition that targets the skin, leading to variably severe ulcerations and cloudiness of the eyes. It has been associated with snake deaths in the northeastern United States and has also been detected in Ontario.

The severity of the disease can vary significantly. Some snakes carry the fungus with no signs of illness while others succumb to deep infections.

Finally, there is cryptococcosis. Cases of this indiscriminate fungal disease began popping up in Vancouver Island in 1999, affecting a range of species from cats and horses to porpoises and people.

In addition to skin infections, cryptococcosis can cause severe



Fungal infections, like the one pictured here, are an important cause of emerging diseases in wild animals. | JAMIE ROTHENBURGER PHOTO

meningitis and pneumonia. It has spread to the Lower Mainland of B.C., as well as several U.S. Pacific Northwest states.

Unlike traditional fungal pathogens in domestic animals (like the fungus that causes ringworm), these emerging fungal diseases are unstable, deadly and expanding their reach.

Human activities, including land-use changes, international travel, climate change and the global exotic pet trade, are mostly to blame for their introduction and spread.

Most of these emerging fungal diseases are destroying the populations they affect and are difficult, if not impossible, to prevent, treat and control.

Extinctions of rare frogs and less-than-charismatic bats may not seem like a big deal but these species provide critical functions to the ecosystems in which they live.

Dr. Jamie Rothenburger is a veterinarian who practices pathology and a PhD student at the Ontario Veterinary College. Twitter: @JRothenburger

DISEASE TESTING

Sask. testing program reveals Johne's

BY KAREN BRIERE
REGINA BUREAU

MOOSE JAW, Sask. — Saskatchewan's Johne's testing program has found a significant number of positive herds, but provincial disease surveillance veterinarian Wendy Wilkins says that's because the participants already suspected they had a problem.

The program offered through Growing Forward 2 began in the fall of 2013. As of March 2017, 12,300 head had been tested and 400 found positive.

Wilkins said 84 herds were tested: 67 of them were unique and 50 of those tested positive, which is 75 percent.

"That doesn't represent the overall prevalence," Wilkins said.

Only nine producers who participated thought they didn't have the disease and seven of them were correct, she said.

"Seventy-seven percent of them were right. This is more representative of the true situation," she said.

"Typically between 10 and 20 percent would come up with a positive test."

However, for those who have Johne's in their herds, the fix isn't easy.

"There is no treatment, there is no vaccine and once your animal starts showing clinical signs, it's just going to be all downhill after that," Wilkins told the Saskatchewan Stock Growers Association annual convention.

Symptoms of Johne's include



Calves can get Johne's disease through contact with manure, so a clean pen is essential. | FILE PHOTO

chronic pea-soup diarrhea and weight-loss, even though the animal has a good appetite.

Cattle are usually infected as calves, but they can show no symptoms until they're two years old or older.

Both blood and fecal tests are used to detect the disease, but the bacteria can hide, and false negatives can occur. The cattle can also shed intermittently and go years without shedding the bacteria, Wilkins said.

That's why it can be so hard to eliminate.

She advised testing and culling positive animals and their calves.

Producers should minimize exposure to manure that could be infected by keeping calving grounds cleaner and moving calves from

calving pens as soon as possible.

If calves have to be supplemented, producers should be sure to use pasteurized colostrum.

"It's a long-term strategy," Wilkins said.

The Saskatchewan program covers lab fees, a veterinarian visit for blood collection and \$500 for a veterinarian to help with risk assessment and management planning.

A total of \$74,000 was available for each year, and the program ends March 31, 2018.

Wilkins said the province would like to continue it because there is a waiting list to participate this year. That decision will be made as the next policy framework is developed.

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COST-BENEFIT

Herd vaccination worth expense: survey

Cutting costs can reduce herd productivity

BY KAREN BRIERE
REGINA BUREAU

MOOSE JAW, Sask. — The cost of vaccination is far outweighed by the cost of losses due to some common cattle ailments, said Western Beef Development Centre economist Kathy Larson.

At the WBDC, she calculated a cost of \$26.20 per cow to vaccinate for blackleg, anthrax, diarrhea and respiratory diseases, plus parasite control.

"Low cost and profitable producers do not cut corners on pasture, bulls and herd health," she told the Saskatchewan Stock Growers Association.

Spending less in those areas will result in decreased herd productivity, she said.

More than 90 percent of producers in Western Canada reported in a 2014 survey that they vaccinate. The same survey found that 36 percent of calf deaths were due to scours, pneumonia and disease.

Larson used BVD as an example to show the cost-benefit of vaccinating.

The greatest risk on a ranch is moving new animals in, she said. One persistently infected (PI) animal on a cow-calf operation costs between \$15 and \$25 per

exposed cow each year, studies have found.

One PI calf in a feedlot costs \$47 per head. Plus, there are also losses from reduced or delayed conception, Larson said.

On an operation with 157 breeding stock and 150 calves, it would cost \$4 per dose, or a total of \$1,230 to vaccinate the entire herd in spring. That equates to \$8.20 per cow.

The same operation that didn't vaccinate, but had a PI calf, might experience a five-percent decrease in conception rates. Five fewer calves, at 550 pounds each and \$2.05 per lb., results in total lost calf revenue of \$9,020 or \$60 per cow.

"Would you rather spend \$8.20 per cow to vaccinate or experience a loss of \$60?" she asked.

She encouraged producers to consult their veterinarians to develop a vaccination protocol.

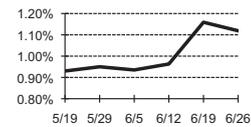
New federal regulations regarding access to antibiotics and medications mean producers will need a veterinary client-patient relationship, based on medical records, and a vaccination protocol is part of that process.

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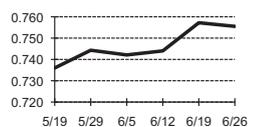
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Crops, oil and other commodities could be moved by rail from a proposed logistics hub that local investors are planning for an area near Weyburn, Sask. | FILE PHOTO

COMTRAX LOGISTICS SOLUTIONS

Sask. producers show interest in rail logistics, grain terminal

A recent share offering aimed to raise money to develop a business plan was oversubscribed

BY BRIAN CROSS
SASKATOON NEWSROOM

Farmers in southeastern Saskatchewan are pushing forward with plans to build a new shipping and logistics hub capable of handling grain, crude oil and just about anything else that needs to be transported by rail.

Mark Bratrud says Comtrax Logistics Solutions is gaining momentum following a successful share placement involving local investors.

Bratrud, president and founding director of Comtrax, said the recently completed share offering was aimed at raising around \$500,000 but was "oversubscribed, indicating strong financial support for the project."

Capital raised through the offering will be used to complete the company's business plan and cover early development costs associated with the project, including engineering and design work to be work completed by Aecom.

"The initial private placement (share offering) was intended to raise money for finalizing the plans and to get us to the next stage ... (including) another larger fund raise that would allow us to acquire the land for the project and start the

build," Bratrud said.

"The initial offering involved primarily grain producers ... who had expressed an interest in participating ... but we do have some oil industry (representation) as well."

Bratrud described the proposed facility as an industrial park with the ability to load and unload products that arrive by truck or rail.

The proposed facility would be located about five kilometres east of Weyburn, offering access to a Canadian Pacific Railway line that offers access to the West Coast, Eastern Canada and the United States.

If it goes ahead, the facility will include a loop rail track, a grain terminal and other facilities to accommodate different shipping groups.

The project's physical footprint could cover 600 to 800 acres, Bratrud said.

Comtrax has options to buy a parcel of land that has good highway access and is located in close proximity to the CP line.

For agricultural producers, a farmer-directed terminal would give growers more control over shipping, handling and blending functions, he said.

The terminal would handle grains, oilseeds and pulse crops

and be capable of loading full unit trains in industry-competitive load times.

Bratrud said the design would likely offer more flexibility in terms of storage and grain separation capabilities.

The initial offering involved primarily grain producers ... who had expressed an interest in participating ... but we do have some oil industry (representation) as well.

MARK BRATRUD
COMTRAX LOGISTICS SOLUTIONS

Ideally, the facility would offer a variety of value-added services including grain drying, sorting and cleaning.

"We want to develop a producer driven organization that is committed to delivering solutions and adding value to agricultural commodities," he said.

The private share placement is the latest hurdle to be crossed by Comtrax organizers.

The company also received word from CP that it is interested in pro-

viding rail service to the proposed logistics hub. Comtrax will now enter negotiations with the railway to discuss design components and service provisions.

The idea of building a rail logistics hub emerged after Bratrud and others in the area began looking for ways to add value to the agricultural commodities they were producing.

When the group began to explore opportunities in rail logistics, it became clear that other industries and shipping groups could also be serviced by a multi-purpose, fee-for-service rail hub.

A series of town hall meetings held last winter revealed significant support for the project and interest from other potential users.

"Basically, the concept that we came up with is a rail logistics hub with the capability to load and unload crude, as well as the ability to load grain and oilseeds and other agricultural commodities including fertilizer as well as other products," Bratrud said.

"We are in the middle of a lot of oilfield activity here and we're also a major crop-producing area so both of these industries are needing access to markets."

brian.cross@producer.com

AG STOCKS JUNE 19-23

Canada's inflation rate in May was lower than expected at 1.3 percent and reduced expectations for an interest rate hike in Canada in July. For the week, the TSX composite rose 0.8 percent, the Dow added 0.05 percent, the S&P rose 0.21 percent and the Nasdaq gained 1.84 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	41.16	42.56
AGT Food	TSX	23.87	23.60
Bunge Ltd.	NY	75.72	76.94

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.99	1.01
Cervus Equip.	TSX	11.60	11.70
Input Capital	TSXV	2.02	2.03
Rocky Mtn D'ship	TSX	9.93	9.88

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	37.25	38.01
Hormel Foods	NY	34.94	33.95
Lamb Weston	NY	45.56	45.07
Maple Leaf	TSX	33.01	33.07
Premium Brands	TSX	94.74	91.48
Tyson Foods	NY	62.79	61.61

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	58.33	59.32
AGCO Corp.	NY	66.82	67.34
Buhler Ind.	TSX	4.22	4.21
Caterpillar Inc.	NY	104.11	107.60
CNH Industrial	NY	11.38	11.63
Deere and Co.	NY	123.60	127.90

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	122.39	124.23
BASF	OTC	95.05	95.40
Bayer Ag	OTC	136.36	137.51
Dow Chemical	NY	63.47	64.39
Dupont	NY	81.01	82.47
BioSynt Inc.	TSXV	7.96	8.00
Monsanto	NY	117.02	117.88
Mosaic	NY	22.97	22.71
PotashCorp	TSX	21.96	22.16
Syngenta	ADR	92.61	92.16

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	106.59	107.57
CPR	TSX	211.25	204.84

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.

Agrium-PotashCorp merger selects name

Nutrien will be the new name of the merger between Agrium and PotashCorp.

The companies said that once the anticipated merger transaction closes, the new company will use the name that was selected from more than 4,000 suggestions from employees.

The regulatory review and approval process for the merger transaction continues and the parties expect the deal will close in the third quarter of 2017. The new organization will be a global leader in fertilizer production and will have the largest agricultural retail-distribution network in the world.

EMPLOYEE RETENTION

Insurance coverage among things to consider when hiring employees

TAKING CARE OF BUSINESS



COLIN MILLER

Many family farms have grown larger, acquiring and seeding additional acres.

As the family farm expands, so does the demand for skilled labour.

There are a number of things to consider when hiring employees to work with you on your farm, such as government filing requirements, employee retention and having adequate insurance coverage.

Payroll filing requirements

The employer is required to make monthly remittances to the government when employees and other workers on the farm are paid by salary.

These remittances include deductions from the employee's salary for income tax, Canada Pension Plan and Employment Insurance. There is also an employer portion that must be submitted for CPP and EI.

There are many things to consider when hiring employees to work for your farm.

CPP is calculated at 4.95 percent of pensionable earnings to a maximum of \$2,560 each for employee and employer. EI is calculated at 1.63 percent for the employee and 2.28 percent (1.4 times the employee's rate) to a maximum of \$840 for the employee and employer.

The employer must also file a T4 slip by Feb. 28 of each year for each employee.

CPP and EI are allowable wage expenses that are deductible for income tax purposes.

Employee retention

It is important to retain employees once they are hired and trained. Training new employees can take a lot of time and be costly.

An employee retention strategy can be beneficial to the employer and employee.

This can be accomplished through non-taxable benefits, such as supplementary employment benefit plans, moving allowances, reimbursement of moving expenses, contributions to a private health service plan, social events, meal allowances and even special clothing required for the job. Paying for language courses

can also be considered if English is not the employee's first language.

These benefits are non-taxable for the employee and are a tax-deductible expense for the farm.

Insurance coverage

Except in Alberta, farmers and ranchers on the Prairies are not required to participate in the Workers' Compensation Board.

Coverage is voluntary and can be used to ensure that workers are covered in the case of a workplace injury.

Other private types of insurance are also available, which can be purchased to safeguard against workplace injuries for both the employee and employer.

Having adequate insurance coverage comforts employees because it ensures that they will receive care if they are injured.

Insurance coverage is an allowable wage expense and therefore deductible for income tax purposes.

Chartered accountant Brenton Marchuk in KPMG's tax practice in Regina contributed to this article.

Colin Miller is a chartered accountant and partner with KPMG's tax practice in Lethbridge. Contact: colinmiller@kpmg.ca.

RESTRUCTURING

Alberta feedlot part of assets JBS to sell in divestment plan

SAO PAULO/CHICAGO (Reuters) — A feedlot in Brooks, Alta., is among the assets that Brazilian meat packer JBS SA plans to sell to cut debt after a corruption scandal raised concerns about its financing costs.

The value of all the assets for sale is \$1.8 billion and includes dairy, poultry and cattle feeding operations.

JBS, whose controlling shareholder recently agreed to pay a massive leniency fine after becoming embroiled in sweeping graft probes that have ensnared politicians and executives, said in a securities filing that its board and state development bank BNDES still had to approve the planned sales.

The assets on the block include a 19.2 percent stake in Brazil-based dairy company Vigor Alimentos SA, along with its Northern Ireland unit Moy Park and Five Rivers Cattle Feeding in North America.

The largest asset is Moy Park, which JBS bought two years ago for \$1.5 billion.

Moy Park supplies 25 percent of chicken consumed in Western Europe, according to its website. It is one of Britain's top 10 food companies, with 13 processing and manufacturing units in Northern Ireland, England, France, the Netherlands and Ireland.

JBS ASSETS FOR SALE ARE VALUED AT

\$1.8 billion

Five Rivers, the biggest U.S. cattle feeding operation, has a combined capacity of more than 980,000 head of cattle and locations in Colorado, Kansas, Oklahoma, Texas, Arizona, and Idaho, according to its website. It handles nearly 10 percent of cattle placed annually on U.S. feedlots, according to the Livestock Marketing Information Center.

In Canada, Five Rivers also manages a 75,000-head capacity feed yard adjacent to the JBS Foods Canada slaughter plant at Brooks. JBS bought the feedlot and the former XL Foods slaughter plant from Nilsson Bros. in 2013.

JBS bought Five Rivers from Smithfield Foods Inc., the world's biggest pork producer, in 2008, along with other beef assets.

Smithfield is now interested in getting back into the U.S. beef business, as well as poultry, its owner, China-based WH Group Ltd., said earlier this month.

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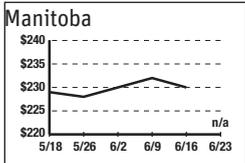
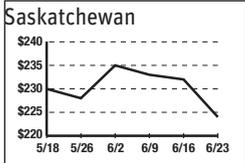
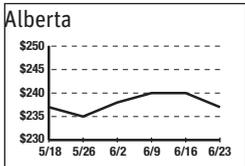
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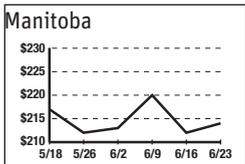
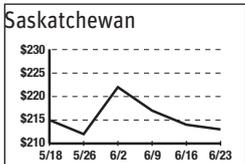
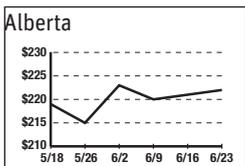
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CATTLE & SHEEP

Steers 600-700 lb. (average \$/cwt)



Heifers 500-600 lb. (average \$/cwt)



Canadian Beef Production

million lb. YTD	% change
Fed	864.4 +1
Non-fed	163.6 +10
Total beef	1,028.0 +3

Canfax

EXCHANGE RATE
JUNE 26
 \$1 Cdn. = \$0.7555 U.S.
 \$1 U.S. = \$1.3236 Cdn.

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous	Year ago	Rail		Previous
	June 16-June 22	June 9-June 15			June 16-June 22	June 9-June 15	
Steers							
Alta.	155.00-162.50	159.50-161.50	142.70	260.75-261.50	267.00-268.50		
Ont.	156.30-171.94	165.15-181.88	147.67	277.00-285.00	296.00-298.00		
Heifers							
Alta.	n/a	n/a	144.24	260.75-261.50	n/a		
Ont.	155.16-170.42	161.82-178.24	147.32	276.00-284.00	295.00-297.00		

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.				Man.				Alta.				B.C.			
	No Sales		No Sales		No Sales		No Sales		No Sales		No Sales		No Sales		No Sales	
Steers																
900-1000	No Sales		No Sales		177-189		No Sales									
800-900	183-202		170-202		185-212		No Sales									
700-800	198-222		190-225		206-225		No Sales									
600-700	215-238		No Sales		225-248		No Sales									
500-600	226-254		No Sales		233-257		No Sales									
400-500	239-267		No Sales		241-265		No Sales									
Heifers																
800-900	160-193		No Sales		170-194		No Sales									
700-800	175-197		No Sales		185-200		No Sales									
600-700	195-221		185-220		197-216		No Sales									
500-600	198-237		198-237		211-233		No Sales									
400-500	210-242		195-247		218-238		No Sales									
300-400	No Sales		No Sales		215-240		No Sales									

Canfax

Average Carcass Weight

	June 17/17		June 15/16		YTD 17		YTD 16	
	Steers	Heifers	Steers	Heifers	Steers	Heifers	Steers	Heifers
Canfax	846	886	886	920	846	886	886	920
Steers	846	886	886	920	846	886	886	920
Heifers	783	812	816	848	783	812	816	848
Cows	734	758	739	777	734	758	739	777
Bulls	1,042	988	1,056	1,022	1,042	988	1,056	1,022

U.S. Cash cattle (\$/cwt)

	Steers		Heifers	
	National	Kansas	National	Kansas
Slaughter cattle (35-65% choice)	122.42	122.03	122.20	121.96
Nebraska	n/a	n/a	n/a	n/a
Nebraska (dressed)	192.49	n/a	n/a	n/a

Feeders No. 1 (800-900 lb)

	Steers	Trend
South Dakota	138.50-145.00	n/a
Billings	139.00	n/a
Dodge City	n/a	n/a

USDA

Cattle / Beef Trade

	Exports		% from 2016		
	Sltr. cattle to U.S. (head)	224,757 (1)	-13.2		
Feeder C&C to U.S. (head)	75,101 (1)	-43.4			
Total beef to U.S. (tonnes)	81,156 (3)	-4.0			
Total beef, all nations (tonnes)	113,383 (3)	+3.4			
		Imports		% from 2016	
Sltr. cattle from U.S. (head)	n/a (2)	n/a			
Feeder C&C from U.S. (head)	18,126 (2)	+120.5			
Total beef from U.S. (tonnes)	56,278 (4)	-0.1			
Total beef, all nations (tonnes)	82,567 (4)	-12.5			

(1) to June 10/17 (2) to Apr 30/17 (3) to Apr 30/17 (4) to June 17/17
 Agriculture Canada

Cattle Slaughter

June 17	Fed. inspections only	
	Canada	U.S.
To date 2017	1,225,035	14,308,247
To date 2016	1,144,062	13,477,950
% Change 17/16	+7.1	+6.2

Chicago Futures (\$/cwt)

	Close		Trend	Year ago
	June 23	June 16		
Live Cattle				
Jun	119.20	121.70	-2.50	114.70
Aug	115.28	118.18	-2.90	110.88
Oct	112.43	115.35	-2.92	110.88
Dec	113.03	116.08	-3.05	111.95
Feb	113.63	116.38	-2.75	111.88
Feeder Cattle				
Aug	144.95	147.88	-2.93	139.45
Sep	144.40	147.35	-2.95	138.28
Oct	142.70	145.83	-3.13	136.80
Nov	141.20	144.13	-2.93	134.20
Jan	137.30	138.50	-1.20	129.78

Beef Cutout (\$/cwt)

	June 22	June 15	Yr. ago
US Choice (us\$)	242.88	249.75	215.46
	June 16	June 9	Yr. ago
Cdn AAA (cs)	n/a	n/a	n/a

Sheep (\$/lb.) & Goats (\$/head)

	June 12	May 29
Wool sheep		
55-69 lb	2.70-3.40	2.60-3.25
70-85 lb	2.64-3.06	2.52-3.06
86-105 lb	2.41-2.94	2.23-2.70
> 106 lb	2.20-2.52	2.20-2.68

Beaver Hill Auction Services Ltd.

Shipping Jun 29

	June 19	June 12
New lambs	2.85-3.17	2.70-3.07
65-80 lb	3.22-3.30	2.82-3.17
80-95 lb	3.02-3.30	2.77-3.00
> 95 lb	3.10-3.30	2.89-3.00
> 110 lb	2.10-2.50	1.80-2.90
Feeder lambs	2.50-2.80	2.50-2.80
Sheep	1.10-1.20	1.00-1.15
Rams	1.10-1.30	1.05-1.20
Kids	95-170	95-170

Ontario Stockyards Inc.

Hogs / Pork Trade

	Export	% from 2016	Import	% from 2016
Sltr. hogs to/fm U.S. (head)	391,748 (1)	-13.2	n/a	n/a
Total pork to/fm U.S. (tonnes)	126,569 (2)	-8.8	82,924 (3)	+8.3
Total pork, all nations (tonnes)	432,572 (2)	+3.1	93,292 (3)	+4.8

(1) to June 10/17 (2) to Apr 30/17 (3) to June 17/17
 Agriculture Canada

Fixed contract \$/ckg

(Hams Marketing)	Maple Leaf Sig 5		Thunder Creek Pork	
	June 17	June 17	June 17	June 17
Week ending				
Aug 05-Aug 12	177.84-178.08	176.72-179.40		
Aug 19-Aug 26	169.64-174.54	165.79-166.25		
Sep 02-Sep 09	161.30-165.24	153.53-157.50		
Sep 16-Sep 23	157.04-158.72	152.04-152.71		
Sep 30-Oct 07	156.61-156.69	154.69-156.34		
Oct 14-Oct 21	154.66-154.90	151.38-153.51		
Oct 28-Nov 4	146.84-153.82	144.83-147.27		
Nov 11-Nov 18	139.59-143.35	134.57-139.37		
Nov 25-Dec 02	132.58-135.04	131.79-132.15		
Dec 09-Dec 16	137.72-140.83	132.84-135.26		

Hog Slaughter

To June 17	Fed. inspections only	
	Canada	U.S.
To date 2017	9,628,101	54,616,056
To date 2016	9,436,717	52,786,184
% change 17/16	+2.0	+3.5

Agriculture Canada

Hogs \$/ckg

	Alta. Index 100	Man. Index 100	Que. Index 100
	203.80	206.00	195.00
Sask. Sig. 5	207.56		

*incl. wt. premiums

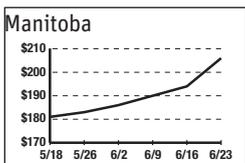
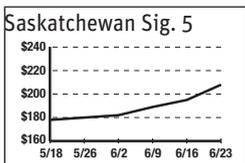
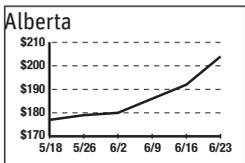
Chicago Hogs Lean (\$/cwt)

	Close		Trend	Year ago	Close		Trend	Year ago	
	June 23	June 16			June 23	June 16			
Jul	85.30	82.33	+2.97	84.05	Feb	65.58	65.43	+0.15	66.63
Aug	78.65	79.13	-0.48	84.98	Apr	69.15	69.10	+0.05	69.65
Oct	68.20	66.78	+1.42	71.95	May	73.43	73.63	-0.20	75.20
Dec	62.15	61.55	+0.60	64.15	Jun	76.58	76.70	-0.12	77.08

HOGS

Due to wide reporting and collection methods, it is misleading to compare hog prices between provinces.

Index 100 Hog Price Trends (\$/ckg)

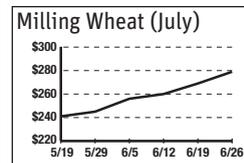
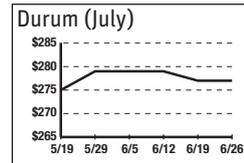
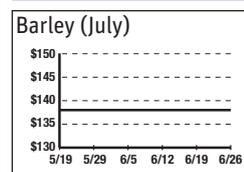


ELEVATOR SHIPMENTS

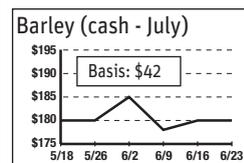
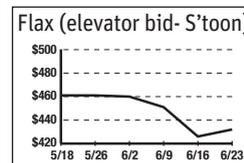
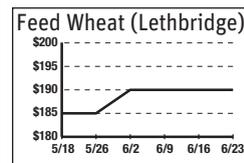
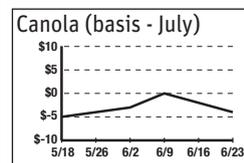
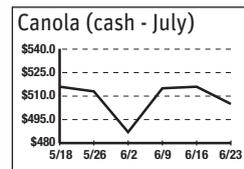
(000 tonnes)	June 18	June 11	YTD	Year Ago
Alta.	273.8	220.7	13,408.1	12,628.1
Sask.	403.8	422.6	20,336.8	18,863.0
Man.	156.9	113.7	6,908.4	6,531.9

GRAINS

ICE Futures Canada

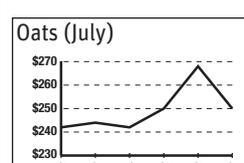
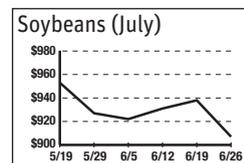
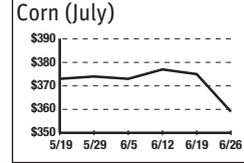


Cash Prices



Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

Chicago Nearby Futures (\$/100 bu.)



FENCE ART |

A fence decorated with rocking horses sets off an old barn near the Twin Valley Reservoir dam in southwestern Alberta near Parkland. | MICKEY WATKINS PHOTO



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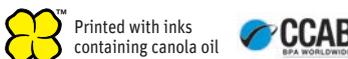
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 Classified sales mgr: **SHAUNA BRAND**

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We reserve the right to revise, edit, classify or reject any advertisement. Classified word ads are nonrefundable.

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Publications Mail Agreement No. 40069240

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 In Saskatoon: (306) 665-3522
 Fax: (306) 244-9445
 Subs. supervisor: **GWEN THOMPSON**
 e-mail: subscriptions@producer.com

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EDITORIAL

Newsroom toll-free: 1-800-667-6978
 Fax: (306) 934-2401
 News editor: **BRUCE DYCK**
 e-mail: newsroom@producer.com

News stories and photos to be submitted by Friday or sooner each week.

The Western Producer Online
 Features all current classified ads and other information. Ads posted online daily. See www.producer.com or contact webmaster@producer.com

Letters to the Editor/contact a columnist
 Mail, fax or e-mail letters to newsroom@producer.com. Include your full name, address and phone number to confirm. To contact a columnist, send the letter to us. We'll forward it to the columnist.

Mailbox
 Please send full details and phone number or call (306) 665-3544, fax (306) 934-2401 or email events@producer.com

To buy a photo or order a copy of a news story from the paper, call (306) 665-3544.

Member, Canadian Farm Press Association

We acknowledge the financial support of the Government of Canada.

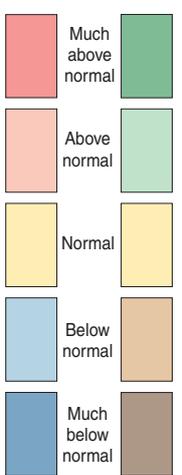


TEMPERATURE FORECAST

June 29 - July 5 (in °C)

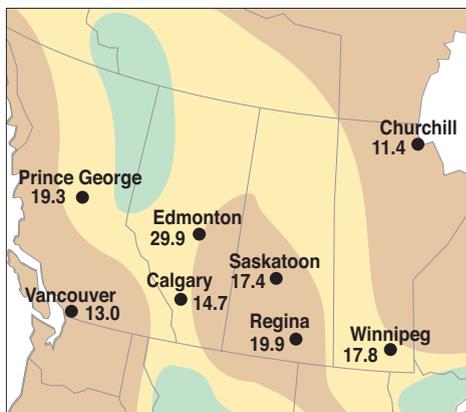


TEMP. MAP



PRECIPITATION FORECAST

June 29 - July 5 (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 JUNE 25

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	25.7	0.6	0.2	74.6	55
Broadview	21.6	4.8	2.8	108.5	74
Coronach	26.7	-1.6	2.4	66.4	48
Eastend Cypress	27.5	0.0	0.3	80.0	57
Estevan	23.2	4.1	3.6	92.7	66
Maple Creek	29.3	3.4	7.8	100.1	76
Meadow Lake	21.3	3.3	48.3	270.7	232
Melfort	22.8	2.8	24.4	127.6	105
Nipawin	22.6	3.5	16.1	182.5	144
North Battleford	22.5	2.5	7.9	94.1	82
Prince Albert	23.0	0.7	19.0	156.1	124
Regina	22.7	0.1	1.3	73.7	58
Rockglen	27.0	2.4	4.1	55.9	41
Saskatoon	22.3	2.1	9.4	93.1	78
Swift Current	27.5	3.2	5.7	67.7	53
Val Marie	30.4	-0.3	4.9	56.7	47
Wynyard	21.1	5.0	5.6	85.1	66
Yorkton	22.1	4.4	4.4	93.3	65

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	28.6	3.9	4.9	123.0	105
Calgary	26.6	6.2	0.8	133.3	85
Cold Lake	22.6	3.3	26.7	208.3	169
Coronation	25.5	1.2	10.9	113.8	99
Edmonton	25.6	1.9	5.7	153.9	111
Grande Prairie	28.6	2.9	10.3	156.7	136
High Level	27.0	1.7	21.5	72.9	79
Lethbridge	28.7	3.2	3.0	152.2	106
Lloydminster	21.7	3.0	23.9	207.7	169
Medicine Hat	29.3	2.5	7.2	133.5	114
Milk River	28.2	4.1	6.8	194.4	123
Peace River	27.8	2.0	8.5	129.7	114
Pincher Creek	26.1	1.2	0.0	197.4	100
Red Deer	24.9	2.5	4.5	157.6	100
Stavely	25.4	5.1	0.8	218.7	129
Vegreville	23.7	6.5	15.3	218.3	186

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	22.6	1.7	13.3	101.6	69
Dauphin	23.0	4.5	32.0	113.1	76
Gimli	22.2	6.0	10.7	105.6	70
Melita	24.6	5.8	3.2	81.3	57
Morden	24.4	6.9	9.7	78.0	45
Portage La Prairie	22.5	5.5	18.6	121.5	76
Swan River	23.1	3.8	11.0	105.9	73
Winnipeg	22.5	2.6	21.8	107.3	66

BRITISH COLUMBIA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	31.2	4.9	0.0	98.9	79
Fort St. John	27.6	5.2	13.5	188.6	169
Kamloops	34.9	9.2	0.0	57.3	72
Kelowna	32.2	4.1	0.0	101.3	101
Prince George	27.8	-0.1	5.3	185.0	144

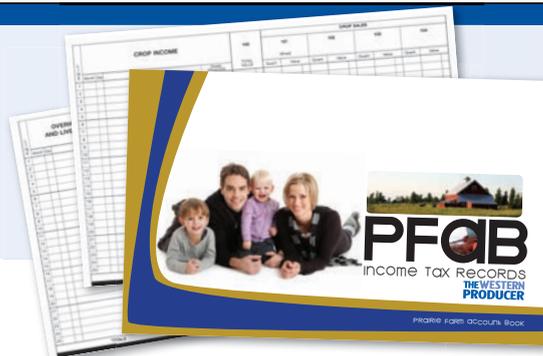
Agriculture and Agri-Food Canada

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How to enter:

No purchase necessary. Simply complete and return the ballot below (all fields marked with * must be completed). Qualified ballots will be placed in a random draw to be held in November, 2017. The winner will receive a \$1,000 credit to their AgriCard account. If the winner does not already hold an AgriCard, He/She or They will be provided one with a \$1,000 credit.

The winner of the **2016 Western Producer Outstanding Dealership Award** will be announced at the WEDA annual convention in Phoenix, AZ, to be held in November, 2017, and printed in The Western Producer.

* Name of dealer being nominated: _____

* Dealer Location: _____ * Ph #: _____ * Dealer Contact (Name): _____

* Customer Name: _____ * Customer Ph #: _____ * Customer Email: _____

* Customer Address: _____

In Part I, rank the dealer on each attribute. In Part II, write a brief description of an event, incident or characteristic that you feel makes this dealer the Dealership of the Year. Use extra paper as necessary. Only Part I has to be completed for your ballot to qualify. Part II will be used to help in the selection process.

* Part I	Unacceptable	Acceptable	Somewhat Above Average	Well Above Average	Outstanding
A. The normal customer service provided by this dealer is:	<input type="checkbox"/>				
B. The honesty and integrity displayed by this dealer is:	<input type="checkbox"/>				
C. When I have needed parts or service, the response from the dealership has been:	<input type="checkbox"/>				
D. The information available from this dealer about my equipment needs has been:	<input type="checkbox"/>				
E. This dealer has demonstrated a willingness to "go above and beyond" to service my needs:	<input type="checkbox"/>				

Part II

Why do you think this dealer should be Dealer of the Year?
(This question helps us see specific examples of dealers doing something special for their customers, so don't worry about the appearance or quality of your writing!)

MAIL TO: The Western Producer Outstanding Dealership Of The Year Award, PO Box 2500, Str. Main, Saskatoon, SK S7K 2C4
FAX TO: 306-653-8750

