

Give a pig a drink

Woman acquitted of criminal mischief | **P. 3**



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All about drones

Our Precision Ag feature takes to the air | **P. 50**

RUSHING TO FINISH LAST YEAR'S HARVEST



Always on the lookout for wet areas, Scott Kissick and his family harvest wheat near Kerrobert, Sask., May 6. | WILLIAM DEKAY PHOTO

SCIENCE

Can crops help fight global warming?

Reflective crops studied for possible role as climate change fighters

BY ROBERT ARNASON
BRANDON BUREAU

The Albedo Effect. A great title for a mediocre action thriller, likely starring Keanu Reeves.

Albedo is actually a scientific term, representing the amount of solar energy that reflects off the earth.

Different types of land cover, trees, cropland and asphalt reflect different amounts of solar energy.

When it comes to crops, canola is an albedo superstar during its flowering period.

"Anybody that has driven by a canola field in full flower will (think), 'I wish I had my sunglasses on,'" said Brian McConkey, an Agriculture Canada scientist in Swift Current, Sask., who specializes in the interaction between agriculture and the environment.

The amount of solar energy a crop reflects is more important than simply forcing someone to don sunglasses.

SEE REFLECTIVE CROPS, PAGE 5 >>

WEATHER

Drought a possibility: forecaster

Prediction based on the disappearance of a blob of warm water in the Pacific Ocean

BY SEAN PRATT
SASKATOON NEWSROOM

Weather forecasters are at odds about what kind of summer to expect.

AccuWeather is warning farmers in central and northern Alberta that they should prepare for drought.

"We think it's going to be a very warm summer," said Canadian weather expert Brett Anderson.

It is also going to be a dry summer. June will have near normal precipitation, but July and August will turn dry as a high pressure system suppresses storm activity across the prairie region.

Anderson said it will be particu-

larly hot and parched in a wide swath stretching from northwestern Alberta to southeastern Saskatchewan.

"Northern and central Alberta really sticks out like a sore thumb in terms of dryness," he said.

He is not as concerned about the rest of the prairie region.

"I don't think we're going into a

drought in Saskatchewan. I think we have enough moisture in the ground," said Anderson.

Manitoba will receive thunderstorms from time to time throughout the summer months and is not expected to be as warm as the other prairie provinces.

SEE DROUGHT FORECAST, PAGE 4 >>



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WHAT'S IN THIS ISSUE



Seniors' day: The annual Senior Pro Rodeo was held in High River, Alta., late last month. For more photos, see page 42. | MIKE STURK PHOTO

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WHAT'S HAPPENING @ PRODUCER.COM

FEATURES



SPRING HARVEST PHOTOS
WP photographer/reporter William DeKay was out near Kerrobert, Sask., on the weekend and snapped some great photos of the farming activity.



AG MINISTERS MEETING
Canada's ag ministers gathered in Ottawa this week, in part to prep for the next ag policy framework. What would you like to tell them?



AG OWNERSHIP POLL
Bayer has agreed to sell its Liberty brand products in order to proceed with its acquisition of Monsanto. Does concentration of ownership in ag concern you?

VIDEOS

PRECISION AG
Check out this week's Precision Ag special feature on UAVs.



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



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FIRE IN THE STRAW



Barry Rugg sets flax straw on fire with help from a tiger torch set on the back of his quad near Elstow, Sask., April 29. | ROBIN BOOKER PHOTO

MANITOBA

Farm groups officially talk merger

BY ED WHITE
WINNIPEG BUREAU

Five Manitoba crop groups have taken another step closer to a formal merger by signing a memorandum of understanding to consider such a move.

"We share a common grower base and also have similar activities," Pam de Rocquigny, general manager of both the Manitoba Wheat and Barley Growers Association and the Manitoba Corn Growers Association, said about the rationale for a multi-crop organization merger.

"At the end of the day, we want to deliver more value to Manitoba farmers."

For the next year, the wheat and barley association, the corn association, the Manitoba Pulse and Soybean Growers Association, the Manitoba Flax Growers Association and the National Sunflower Association of Canada will be working with an adviser and talking to farmers about whether the five organizations should officially merge.

The idea has been discussed since 2014, but focused action has been most intense since the idea was publicly promoted at the CropConnect conference in February, at which the various organizations hold their annual meetings.

CropConnect is seen by proponents of the merger as an example of how these individual commodity organizations are already working together to bring a better return for farmers. Four of the organizations also already work out of the same building in Carman.

Proponents hope that by combining staff and facilities, more and better crop research and market development can be undertaken, with agronomists and program people more easily able to work across crop lines.

"It's just a matter of breaking down silos," said Francois Labelle, executive director of the Manitoba Pulse and Soybean Growers Association.

De Rocquigny's joint general managership of the corn and wheat and barley groups is an example of how closely the groups are already working together.

Some crop groups have not joined the merger effort and some are not expected to do so. For example, the Manitoba Canola Growers Association is a well-integrated part of the Canadian Canola Growers Association and the Canola Council of Canada. Its focus is on developing canola across Canada rather than focusing on Manitoba-specific concerns. The same applies to the Manitoba Oat Growers Association, which is part of the national Prairie Oat Growers Association.

Both the canola and oat organizations are closely connected with grain companies, marketers, processors and other elements of their commodity value chains.

The adviser for a possible merger has yet to be hired, and much of the next year will be spent working out details and getting farmer reaction.

ANIMAL WELFARE

Ontario woman acquitted of mischief after giving pig on truck a drink

Livestock groups disappointed but happy ruling affirms farmers' ownership of animals

BY BARB GLEN
LETHBRIDGE BUREAU

Charges of criminal mischief were dismissed May 4 against an Ontario woman who gave water to a pig on a transport truck outside a processing plant in June 2015.

Justice David Harris ruled in a Milton, Ont., courtroom that Anita Krajnc, a protester with a group called Toronto Pig Save, did not cause harm to the pigs or monetary damage to the owner and therefore dismissed the charge.

Ontario farm groups were disappointed in the ruling, which garnered wide attention in the media, but they expressed satisfaction with various points within it.

"Of course, initially we were disappointed, but when we read the decision, the justice spent a lot of time going through all the key facts, and actually I'm very pleased that he supported all our key positions in that our producers transport and raise our pigs humanely under regulations," Ontario Pork chair Eric Schwindt said on the day of the ruling.

"We do things well, and this case was no exception. We did everything right."

He said the case raised concern for food safety and the risk presented by a person providing substances to pigs on trucks.

"Obviously we're concerned when someone is interfering or tampering with products, and we don't know what's going on. We can't control it," said Schwindt.

... I'm very pleased that he supported all our key positions in that our producers transport and raise our pigs humanely under regulation.

ERIC SCHWINDT, ONTARIO PORK CHAIR

Krajnc said after the ruling that she felt vindicated.

"I've always said that giving water to a thirsty, panting animal is just simply following the golden rule and treating others as you'd like to be treated," she said. "I was pretty confident that the judge would rule that compassion is not a crime."

Krajnc said numerous organizations have sprung up to "bear witness" to animals as they arrive at processing plants since the incident and subsequent charges.

She said there were about 50 such groups last year, many of them inactive, but now there are 150 groups in 12 countries.

"It is based on the very simple idea of bearing witness. When you see an animal suffering, don't turn away. Come closer and try to help."

Krajnc was on her way to another vigil on the day of the ruling, and participates in three vigils a week at processing plants.

She said she believes pigs and all animals should be recognized as persons and that society should transition to a plant-based diet.

"I think it's inevitable," she said.

"We have nothing against farmers or truckers. We just believe that the

whole world would benefit if we moved more towards a plant-based vegan food economy. That's what we're trying to promote, is that shift."

Bruce Kelly, program manager for Farm and Food Care Ontario, said the matter was a case of misdemeanor product tampering and should be viewed as such.

"Anita has made this trial about a number of things, which it was not about," said Kelly.

"She and the Pig Save group have tried to make this about livestock agriculture, raising of livestock and livestock transport, and in fact Anita was on trial for mischief. That's what the case was about, so I'm somewhat hesitant to explore Anita's platform."

Kelly, who was in the courtroom for the ruling, said he felt it was supportive of agriculture in that the judge reaffirmed that pigs belong to the farmer who produces them and that the pigs were transported legally and properly.

However, the food safety aspects remain a concern.

"We just can't support a system of food delivery and production that allows people, the risk of tamper-

I've always said that giving water to a thirsty, panting animal is just simply following the golden rule and treating others as you'd like to be treated.

ANITA KRAJNC, PROTESTER

ing with food," he said.

"The judge didn't perceive that the risk to food safety was real, but we certainly do."

The safety of protesters in the vicinity of large trucks and small spaces is also a worry.

"We support people's ability to protest and people to make food choices," Kelly said.

"Protesting on a busy road where there's trucks whizzing by is a dangerous activity, and we just see risk in that."

Added Schwindt: "Going forward, a new instance could very well have a different result. Our hope is that all sides respect different opinions, and while we can have peaceful protest, we feel it's important that the trucks and the pigs are not interfered with."

Kelly said the judge was aware of the keen media attention garnered by the case, and in his ruling pointed out that while his courtroom was full for a ruling about mischief and animals, no media or spectators attended a hearing in an adjoining courtroom involving a case of second degree murder.

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SEEDING

Best bet for 2017: red spring wheat

Analysts say all signs indicate this is the crop to gamble on this year

BY ED WHITE
WINNIPEG BUREAU

Farmers with a little courage and some spare acres could benefit from a gamble on an unpopular market choice.

"Redspringwheat," said John Duvenaud, editor of the *Wild Oats* markets newsletter, when asked which crop farmers should consider throwing any remaining free acres into.

That was a choice echoed by Errol Anderson of the Pro Market Wire report.

"I kind of view wheat as a sleeper crop," said Anderson.

Mike Krueger of the Money Farm in Fargo, North Dakota, agreed.

"I think wheat has the potential to be a sleeper," he said.

The three analysts shared the view that wheat's likely upside is based on the long, ugly downside that farmers have been living through.

U.S. farmers have been planning to drop millions of acres of wheat this spring to concentrate on better-looking crop choices, while Canadian farmers have been feeling blue about both wheat prices and the quality devastation wrought by fusarium after last year's wet weather.

Huge wheat crops produced around the world had created big

stockpiles that have steadily weakened wheat prices.

Chicago winter wheat futures have trended down from \$6 per bushel in July 2015 to about \$4.20 now. In 2012 they peaked above \$9 per bu. and have ground lower as the effects of the drought-induced shortage have worn off.

Minneapolis spring wheat futures peaked at more than \$10 per bu. in 2012 and are worth about \$1 per bu. more than winter wheat, at \$5.40. That's about even with last year's price at this time and 10 percent down from \$6 prices the year before that.

Speculative funds have been heavily short on wheat, assuming the downside is a lot stronger than the upside for the crop, which grows in every major farming region.

However, that's why the three analysts think wheat has the best chance at a rally in coming months. Everybody seems to expect it to get weaker.

"The market is low enough that it can rally in a surprise rally that would surprise traders with its strength," said Anderson.

"I think in the next year we'll see some sort of a wheat rally."

Krueger said the world's crop markets have become complacent

with consecutive big wheat crops.

"We're just one weather scare away from a rally," said Krueger.

"It's been pooh-poohed so much. The funds, if they get attracted to the futures, all it will take is a weather problem in a major exporting nation and the funds will jump into it."

Reverses out of bear markets can become dramatic as short-covering combines with long position takers moving in and anxious commercial buyers scrambling to get covered.

Krueger said the oversupply situation might already be alleviating with the recent snowstorm across the southern Plains and related rain across the corn belt challenging the health of winter and spring crops. France is dry and Australia appears to be dry, too.

Duvenaud said the markets are so familiar with easy access to big wheat stocks that they might take a while to notice if they begin becoming less onerous, but the situation today is not as dire as it has been.

That might make wheat a good gamble if farmers still have any flexibility with their acreage plans.

"The stocks are actually reasonably tight and prices are not that terrible," said Duvenaud.

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AND NOW BACK TO THE SHOW

DROUGHT FORECAST

» CONTINUED FROM PAGE 1

"The odds of seeing any widespread drought in that (province) are probably 30 percent or less," he said.

Drew Lerner, president of World Weather Inc., disagreed with the AccuWeather forecast.

"I do allow Alberta to dry down, but we have so much moisture in Alberta that once we get this crop planted the roots are going to go down with the moisture and it's going to be a good production year," he said.

Lerner believes there will be a drier pattern in the northwestern

Prairies but plenty of moisture elsewhere.

"It still looks to me like there's going to be a regular occurrence of rainfall," he said.

He is forecasting a wetter bias in southeastern Alberta, through much of Saskatchewan and into west-central and northwestern

Manitoba.

Lerner is calling for a warmer bias in the northwestern Prairies and near to below normal temperatures for the rest of the region.

The only way he can see the AccuWeather forecast unfolding is if a full-fledged El Niño developed, but he doesn't believe that is in the cards.

Anderson said his forecast has nothing to do with El Niño forming. He doesn't expect that to have any impact on weather patterns until fall or winter.

It is more about the disappearance of a blob of warm water in the Pacific Ocean off the west coast of North America. The blob sent moisture across Western Canada the last couple of years.

In its absence, a high pressure system will form over the prairie region.

"That acts like a big bubble," said Anderson.

"Any fronts that come in from the north and west, they kind of move around that bubble and the dryness builds across the region."

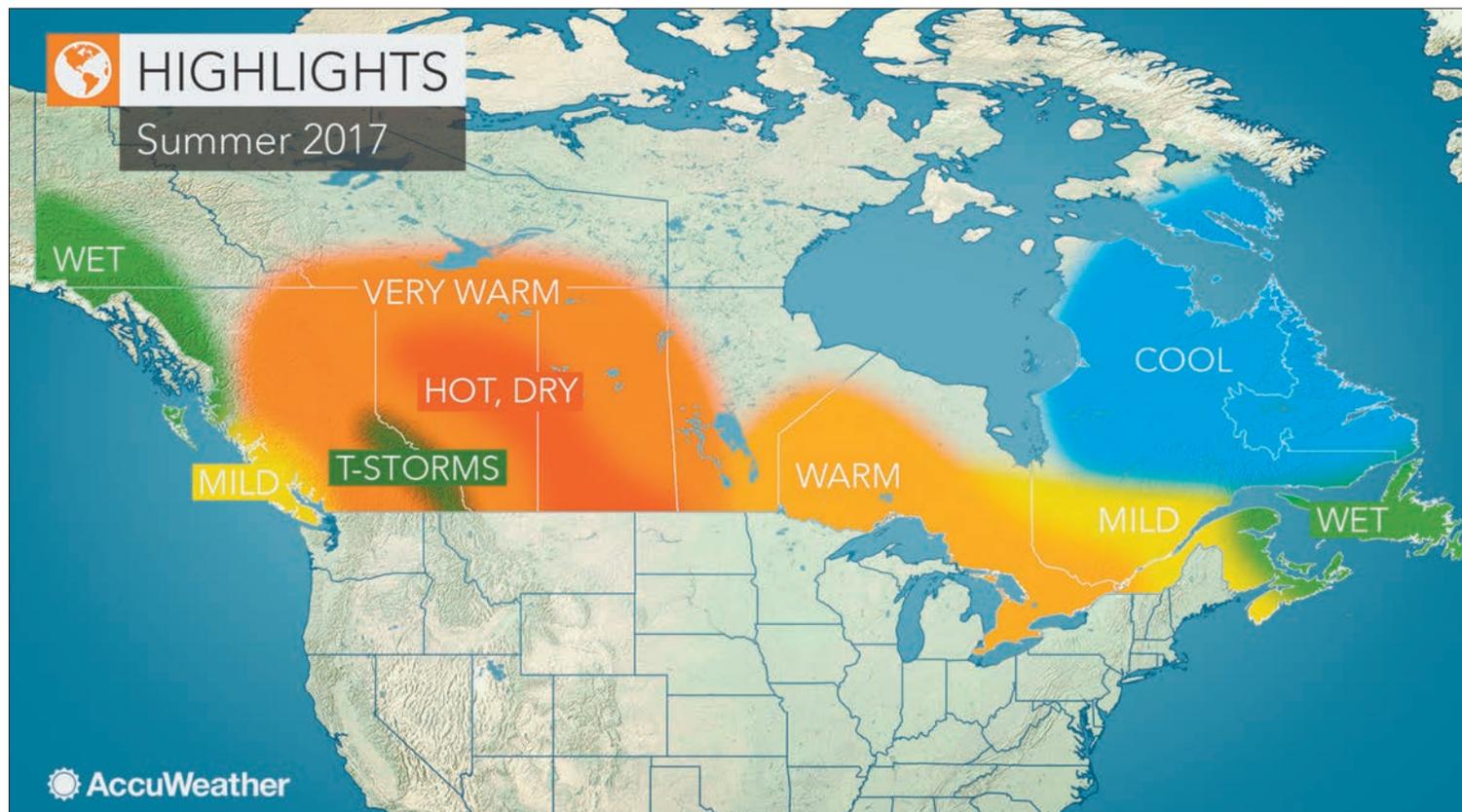
The good news is the bubble will reduce the threat of severe thunderstorms because there isn't the wind energy aloft that is transferred down to the ground.

It also reduces the threat of hail because the persistent high pressure system results in warmer temperatures aloft and less likelihood of hail formation.

Lerner is more concerned about spring than summer. He said the soil is so saturated in central and northern Alberta that any small rain event will force farmers to the sidelines.

He worries that growers with unharvested crop will have a tough time getting this spring's crop in the ground.

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Accuweather's summer forecast shows hot, dry weather across most of the Prairies. | ACCUWEATHER MAP



Crystal Bayet carries the tow strap back to the pick-up truck after helping her husband, Darcy, and cousin, John, pull out the stuck swather. They were cutting wheat near Landis, Sask., May 7. | WILLIAM DEKAY PHOTO

REFLECTIVE CROPS

» CONTINUED FROM PAGE 1

If crops reflect more radiation it keeps the earth cooler and could, potentially, be a valuable tool to combat global warming.

"When you're talking the Canadian Prairies, 35 million hectares (86 million acres), if you can make that more reflective, that would have an effect on the world's climate," McConkey said, following his presentation at the Agricultural Institute of Canada conference, held in late April in Winnipeg.

Scientists at the University of Bristol in England have studied the potential of bio-engineering crops so they reflect more light. A 2009 paper, published in *Current Biology*, reported that plants with waxy coatings on their leaves reflect more sunlight.

However, scientists estimated that increasing the albedo of plants by 20 percent would cool the planet by only 0.11 C. The seasonal benefits could be much larger in certain geographies.

"The mid-latitudes of North America and Eurasia could cool by as much as 1 C in June, July and August," the report said.

McConkey said plant scientists haven't really thought about the albedo of broad acreage crops, but selecting for traits that increase reflection, perhaps hairy leaves, could have multiple benefits.

Besides cooling the planet during the summer months, it could protect crops from hotter temperatures in the future.

"One of the biggest concerns is it going to get too warm, for some of these crops, to keep cool, especially (during) the reproduction stage," McConkey said.

Satellite observations show that canola does reflect more radiation than other crops, mostly because of the yellow flowers during bloom period and partly because of the crop canopy.

"One of the purposes of the flower is to keep the reproductive parts (of the plant) cool," McConkey said. "Anything with (visible) flowers tends to be cooler.... Wheat seems to be particularly not reflective, compared to other crops."

The concept of crops reflecting solar energy becomes more intriguing if Canadian farmers are compensated for the ecological services.

"At \$50 a tonne CO2 equivalent, some of these (practices become more appealing)," McConkey said.

Research reported in *Scientific American* suggests that planting gardens on roofs or painting roofs white could increase albedo in cities and help fight global warming.

But McConkey said cities are tiny, in geographic size, compared to hundreds of millions of acres of cropland. Altering the albedo from cropland offers more environmental benefits than painting roofs white.

Other scientists are more skeptical. Making crops more reflective could cut into photosynthesis.

"Increasing shininess will reduce (crop) production, full stop," Colin Prentice, a University of Bristol scientist who didn't participate in the study, told nature.com. "We really do not need anything that reduces primary production."

Ray Desjardins, an Agriculture Canada researcher in Ottawa, plans to write a scientific paper on the topic this summer.

TRANSPORTATION

Grain movement legislation unlikely before fall

Farm groups ask the federal government to extend interim Fair Rail Act until new bill passes

BY BRIAN CROSS
SASKATOON NEWSROOM

Federal legislation aimed at addressing grain transportation problems in Western Canada is not likely to be passed until the fall, several months later than previously expected.

In a May 5 news release, the Alberta Wheat Commission said the anticipated bill — originally expected to be introduced and passed this spring — is unlikely to be approved before the House of Commons breaks in June.

AWC chair Kevin Auch said his organization learned of the new timelines during a meeting with Transport Canada officials in April.

News of the delay prompted the commission to call for an extension of interim measures contained in the Fair Rail for Grain Farmers Act, also known as Bill C-30, which are due to expire Aug. 1.

"We appreciate the government's commitment to introduce legislation that will ensure a more responsive, competitive and accountable rail system in Canada," said Auch.

"But the current railway accountability measures must stay in place in the meantime."

Interim measures contained in the Fair Rail for Grain Farmers

These are complex topics.... If we get a good bill and it addresses the issues in the right way, then a few more months isn't going to kill us.

WADE SOBKOWICH
WESTERN GRAIN ELEVATORS ASSOCIATION

Act include extended inter-switching distances and provisions that — if used by Ottawa — force railway companies to move minimum volumes of grain or face fines for non-compliance.

In early May, AWC wrote a letter to federal Transportation Minister Marc Garneau that called for the interim measures to be extended.

"Given that the House is scheduled to rise next month, we are writing to not only urge the government to introduce this legislation as soon as possible but to inquire about your ministry's intentions to ensure that interim measures are in place to extend the current provisions," said the letter to Garneau, dated May 3.

"It is critical that farmers can rely on Canada's rail system to bring next year's harvest to buyers here in Canada and around the world."

Wade Sobkowich, executive director of the Western Grain Elevators Association, said the Crop Logistics Working Group (CLWG) wrote a similar letter to Garneau in late April.

Sobkowich said CLWG members would like to see interim measures remain in place until a permanent bill is introduced and passed by Parliament.

"The likelihood of (a new bill) ... passing this spring is now very limited and is diminishing by the day," Sobkowich said.

"So we (the CLWG) have written to the minister and asked if he would consider extending Bill C-30 to bridge the gap between the status quo and the new legislation."

Sobkowich said the WGEA is still optimistic that federal legislation will be passed this year and will address key issues affecting grain shippers.

"We still expect a bill that is in line with Minister Garneau's announcement on Nov. 3," said Sobkowich.

"We expect that reciprocal penalties will be introduced ... and (will be) eligible for arbitration in service level agreements. We expect the definition of adequate and suitable ... (accommodation) to be addressed ... and we expect extended inter-switching

to be addressed....

"These are complex topics.... If we get a good bill and it addresses the issues in the right way, then a few more months isn't going to kill us."

Sobkowich said the issue of extended inter-switching is critically important to the grain industry, even though the volume of grain that was inter-switched in 2015-16 was relatively small.

A recent report by the Grain Monitoring Program suggested that less than 4,800 hopper cars of grain — less than one percent of Canada's overall grain movements — were moved under Ottawa's extended provisions in 2015-16.

"Inter-switching has been very effective for us," Sobkowich said.

"In absolute numbers ... inter-switching ... doesn't represent a huge chunk of grain movement, but what's important is that it is used as leverage by grain shippers and oil seed processors.... When shippers require service or they are asking for better rates ... they can explore the idea of inter-switching to another carrier."

"It's this shopping around for the best service and price that sometimes, many times, brings the primary carrier to the table to offer better service and price."

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MARKETS



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RECORD OUTPUT

World needs to slash crop acres to cut grain surplus

Analyst says acreage reductions will occur in areas where economic returns are the worst

BY ED WHITE
WINNIPEG BUREAU

WASHINGTON, D.C. — What will it take to drain the oceans of crop stocks that are drowning world crop prices?

And how weird is it to see world crop stocks surge so much after the drought-induced shortfalls of 2012?

"I don't know how long it has been since we had four record years stack up back to back," said Robert Johansson, the U.S. Department of Agriculture's chief economist.

As well, it's hard to tell how many months or years of "normal" world weather conditions would be needed to bring stocks down to more price-friendly levels.

Part of the problem with surging stocks of many crops has been the stubbornness of farmers around the world to cut back production.

"You would expect to see land taken out of production," said Johansson.

"We're seeing that in the U.S. We're not seeing that in South America."

However, barring a drought or similar dramatic weather disaster in a major crop-producing region, reduced acreage is likely to be the eventual solution to the present glutted world market, Johansson said.

U.S. farmers, stuck with a high American dollar, have already begun cutting some acres from production. A high U.S. dollar cuts crop prices compared to those in most other countries.

Crops such as wheat have been particularly hit by farmer reluctance, with this year likely to see an eight percent reduction in U.S. wheat acres, Johansson said.

Further acreage reduction is most likely to occur wherever farmers have the worst returns.

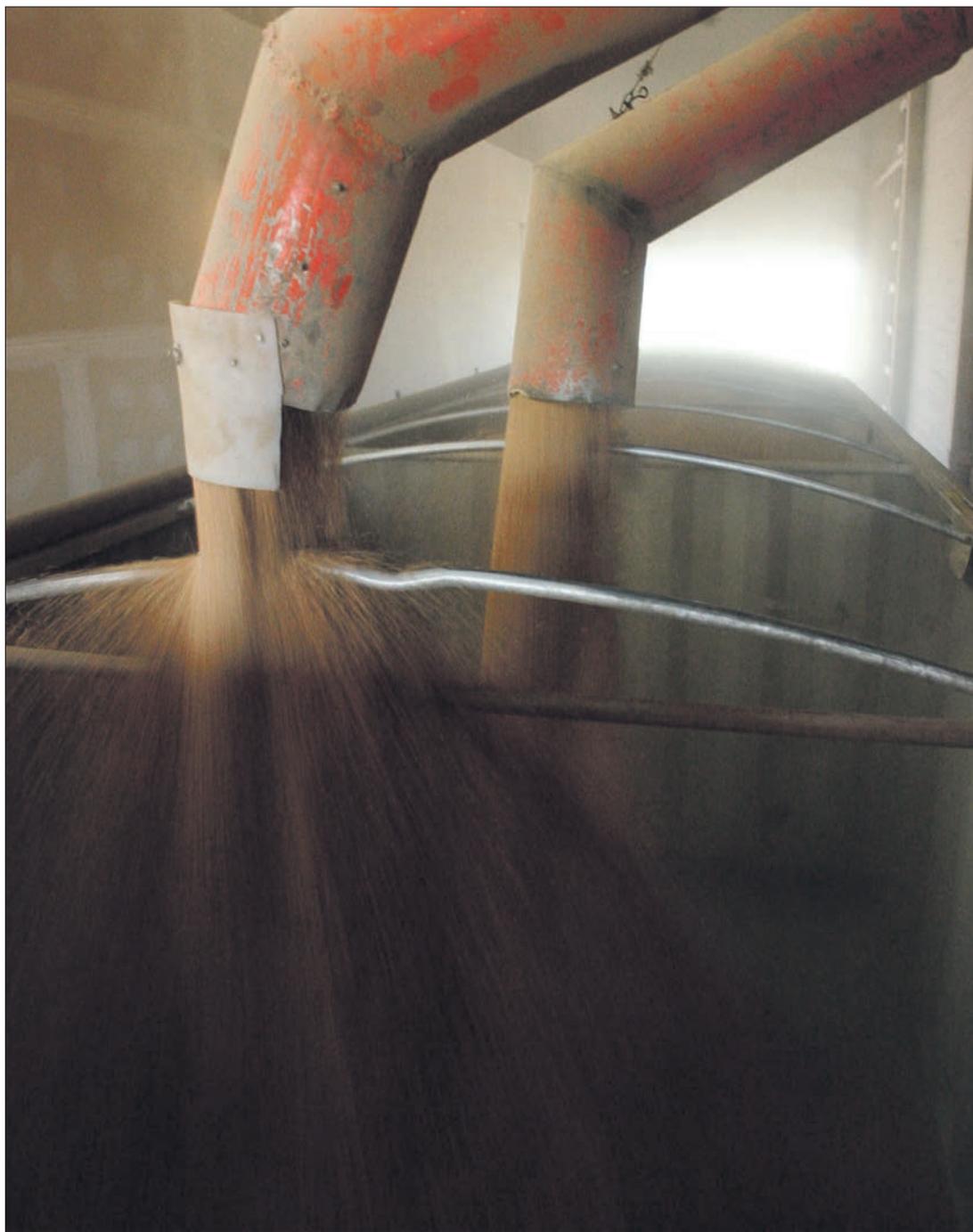
"As prices come down, where is the land going to fall out? Who is the high marginal cost producer?" said Johansson.

Some land might be removed from production in the Black Sea region, where conflict and political instability are making it physically difficult to grow crops and export them.

In Brazil, farmers might start cutting back on second-crop corn if returns are poor, Johansson said.

European farmers have experienced bad returns for wheat, so they might scale back.

Based on average weather and growing conditions, the USDA



Record yields around the world have created large stockpiles and fewer planted acres are needed to bring crop commodity prices back up, says U.S. economist. | FILE PHOTO

You would expect to see land taken out of production. We're seeing that in the U.S. We're not seeing that in South America.

ROBERT JOHANSSON
USDA CHIEF ECONOMIST



doesn't expect a significant improvement in crop values for years. That means there will be

continued pressure to work down stocks, and none of the ways are easy or predictable.

"The way you work it out is you either get a drought or you get acreage leaving production," said Johansson.

"Or you get something like a lot more people using biofuels."

With a substantial increase in biofuel consumption hard to imagine today, that leaves farmers waiting for other farmers to cut acres, or for a drought to hit a crop somewhere. Until something like that happens, crop stocks will remain heavy.

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PRODUCTION ESTIMATES

Kansas crop tour sees good wheat before snow

Some crops were flattened in the western part of the state

MANHATTAN, Kan. (Reuters) — Wheat fields in Kansas, the top U.S. producer of the grain, were above average as crops benefited from good soil moisture, scouts on the annual Wheat Quality Council crop tour said May 4.

However, scouts were unable to assess how late-season snow that fell over the weekend in the western part of the state would affect developing plants that flattened some fields and snapped stalks.

During the three-day tour, dozens of crop scouts from milling companies and trade houses surveyed 469 fields of hard red winter wheat, a variety used most widely to make bread.

"This is an above-average crop, for sure. The soil moisture profile is as good as it can possibly be. The unknown is the damage to the crop in the west," said tour organizer Dave Green, executive vice-president of the Wheat Quality Council.

The tour estimated yield potential at 46.1 bushels per acre, above the five-year tour average of 41.6 bu. per acre but below the U.S. Department of Agriculture's record-large estimate of 57.0 bu. per acre for last year's crop.

Kansas winter wheat production was estimated by the tour at 281.78 million bu., compared to the USDA's estimate in 2016 of 467.4 million bu.

Futures International analyst Terry Reilly said the lower Kansas wheat production estimate suggested some of the snow-covered fields would be lost.

"Yield is unusually high given the crop problems we had, but with production estimate of 282 million bu., the area abandonment is incredibly high," Reilly said.

Scouts opted not to calculate yields on many fields in western Kansas hit by heavy snow. As an illustration of this, the tour sampled 205 fields May 3, compared to 300 fields on the second day of the tour a year ago and 305 fields in 2015.

Snow was still present on some of the fields as of midweek, which is highly unusual for May.

Kansas State University extension wheat specialist Romulo Lolato said it could be 10 to 12 days before the extent of the damage can be gauged.

"It's hard to count tillers (stems) in the snow," Green said.

"But we didn't count them (the fields) as a zero."

MARKET EXPECTATIONS

Grain price still too high, says Bunge head

Huge stockpiles will eventually force prices down, causing growers to reduce acres, says Bunge official

BY SEAN PRATT
SASKATOON NEWSROOM

The head of one of the world's largest grain companies believes grains and oilseeds are overpriced and a day of reckoning lies ahead.

Soren Schroder, chief executive officer of Bunge Ltd., recently told investment analysts that corn and soybean prices have not reflected the global glut of the commodities.

"For some reason markets have been very, very resilient and not reflected the buildup of stocks that is now three years into the making and with another one coming," he said.

"And I think there's a reckoning of that where prices will reflect it."

That reckoning will drive down prices and bring an end to acreage expansion in South America and the United States.

Schroder blamed the company's disappointing first quarter crush margins on a reluctance by South American farmers to price their 2017 corn and soybean crops.

Brazil's farmers had sold 41 percent of their crop by the end of March, which is 18 percent lower than the previous year. The situation was worse in Argentina, where only seven or eight percent of the soybean crop was priced.

"This standoff between supply and demand has reduced forward commercial activity dramatically, translating to a negative effect on our margins this quarter," he said during a conference call.

Bunge dropped its earnings before interest and taxes guidance for 2017 for its agribusiness segment by \$95 million to \$125 million because of the poor first quarter results.

Archer Daniels Midland Co. is also hurting. According to a Reuters story, the company's shares plunged nearly nine percent, the biggest drop in eight years, the day it released its disappointing first quarter numbers.

One investment analyst said this is the third year in a row that grain companies have started the year with high expectations only to have them dashed. He asked Schroder if investors should be concerned that there is a "structural impediment" in the industry that didn't previously exist.

Schroder said there has been a



Employees level grain on the cargo ship *Kypros Land*, which was loading soybeans to China at Tiplam terminal in Santos, Brazil, March 13. | REUTERS/PAULO WHITAKER PHOTO



SOREN SCHRODER
BUNGE LTD.

structural shift in the ability of South American farmers to hold onto their crops, and that is exactly what they are doing in hopes of higher prices.

"Many of them (are) in a position and better capitalized than they were previously with additional storage at the farm and ways of financing crops that they didn't have," he said.

However, Schroder said those crops eventually have to come to market, which will drive down corn and soybean prices and spark end user demand.

He expects that 70 percent of Brazil's crops will be priced by the end of the second quarter as farmers

make room for the safrinha, or second crop, of corn.

Argentina's crops will be slower to come to market. Bunge is forecasting that 50 to 60 percent will be priced by the end of the third quarter because of cash flow needs.

"And that is what we believe will ultimately drive not only volumes but margins in the late part of the second quarter and the third and the fourth," said Schroder.

He said that with another record U.S. crop in the making, prices will

fall to levels where it is "almost silly" for end users not to extend their forward purchasing because they know prices could rise back up in a hurry.

Schroder anticipates prices will fall to the point where growers in South America and the U.S. will cut back on acres next year.

"That, combined with any kind of weather issue, whether it's in the U.S. or in Europe or South America, I think would quickly ignite a round of forward buying like we haven't seen, frankly, for years," he said.

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Farmers in many countries have increased storage capacity to capitalize on higher prices

FOR A RELATED STORY, SEE PAGE 61.

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FERTILIZER OUTLOOK

Excess capacity will keep phosphate prices stable

BY SEAN PRATT
SASKATOON NEWSROOM

Phosphate prices are likely to stay where they are as one major supplier of the product reduces exports at a time when two others are increasing world supplies.

James O'Rourke, president of Mosaic Co., the world's largest producer of the product, recently told investment analysts to expect reduced sales from China this year.

"With economic and environmental pressures mounting on Chinese producers, we expect their exports to fall to somewhere around eight million tonnes," he said in a conference call.

That would be down from 9.5 million tonnes last year and 11.6 million tonnes in 2015.

"The markets are giving us some momentum," said O'Rourke.

David Asbridge, analyst with NPK Fertilizer Advisory Service, agreed that China will likely reduce exports because of shrinking margins in a country that relies on underground rather than surface mining.

"It costs more for them to dig it out and bring it up. It's like potash mining in Canada," he said.

However, he said the reduction in Chinese exports will be offset by increased production in Morocco and Saudi Arabia, where new projects are expected to come on line this year.

"I don't see any growth in prices for phosphate because there is excess phosphate capacity out there already," said Asbridge.

Phosphate is the second most popular fertilizer used on Canadian farms, according to Agriculture Canada. It accounted for 21.3 percent of total fertilizer use in 2015 behind urea at 35.6 percent.

Michael Rahm, vice-president of market and strategic analysis with Mosaic, thinks the phosphate market will remain well balanced for the next five years.

He told analysts there will be an extra two million tonnes of capacity



Phosphate production in countries like Morocco is expected to increase amid rising demand, which should help to keep prices stable. | REUTERS/YOUSSEF BOUDLAL PHOTO

in Morocco plus another three million tonnes from Mosaic's joint venture in Saudi Arabia with the Saudi Arabian Mining Co. and Saudi Basic Industries Corp. In addition, he expects more production from places such as Tunisia.

Rahm is assuming phosphate demand will grow by 2.1 percent per year over that five-year period, expanding to 73 million tonnes in 2021 from 66.4 million tonnes in 2016. That's an additional 6.6 million tonnes of demand.

"It looks like a well-balanced situation over the next five years," he said.

"That's not to say that over the next year or so, when some of this new capacity comes on, there may not be some pain or disruptions caused by a big surge of capacity."

Richard Mack, Mosaic's chief financial officer, downplayed the potential of the new plants causing prices to drop.

"It's not like you turn a key and all of a sudden you're producing three million tonnes of product on an annual basis," he said.

The Saudi Arabia project will start producing phosphate during the second half of this year.

"We probably estimate anywhere from 300,000 to 500,000 tonnes of production this year, and then that project will be ramping up for the vast majority of 2018," said Mack.

Asbridge agreed with Mack's contention that the new capacity will not disrupt the market, but with one important caveat.

"As long as the Chinese don't try and crank back up again, then it should not be too much of an impact on the phosphate market," he said.

Rahm said Mosaic has done a lot of analysis on the China situation and believes it will continue exporting seven to eight million tonnes per year over the next five years, which would keep supply

and demand in balance.

There are already rumblings about additional capacity being built in Morocco and Saudi Arabia beyond the next five years.

"And frankly, after 2021, there will be the need for additional capacity coming from somewhere if you expect phosphate demand to continue to grow at a couple of percent per year," he said.

Asbridge said that is not an unreasonable expectation because Brazil is bringing more land into production and is growing more second crop corn, and China is attempting to grow more fruit and vegetables, which are big users of phosphate.

"I don't really see any big jumps in prices, but it should be a fairly stable to slightly increasing market over the next five years," he said.

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WP LIVESTOCK REPORT

HOGS RISE

Market-ready supply began to fall as it normally does this time of year, and packers had to pay more.

Demand for pork is rising for spring barbecues, and export demand is strong.

The U.S. national live price average for barrows and gilts was US\$48.75 per cwt. May 5, up from \$43.25 April 28.

U.S. hogs averaged \$64.20 on a carcass basis May 5, up from \$56.21 April 28. The U.S. pork cutout was \$77.74 per cwt. May 5, up from \$74.46 April 28.

The estimated U.S. weekly slaughter for the week to May 6 was 2.262 million, down from 2.290 million the previous week.

Slaughter was 2.217 million last year at the same time.

In Canada, the May 6 Signature Five price was C\$151.95 per 100 kilograms, up from \$142.41 the previous week.

The price was \$68.92 on a per hundredweight basis, up from \$64.60 the previous week.

BISON STEADY

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

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

Animals outside the desirable buyer specifications may be discounted.

SHEEP, LAMBS LOWER

Ontario Stockyards Inc. reported that 813 sheep and lambs and 32 goats traded May 1. With Easter and Jewish Passover over, the lamb market was down. New crop lambs sold actively at prices \$30 to \$40 cwt. lower. Heavies were \$20 to \$30 lower. Good lean sheep sold steady, and thicker types sold \$5 to \$10 cwt. lower. Goats held steady.

STOCKS ESTIMATES

Canola, wheat markets face different dynamics

MARKET WATCH



D'ARCE McMILLAN

Confirmation last week of tight canola stocks in Canada helped to support the price of that crop, but even a punishing snowstorm in the heart of the U.S. winter wheat area couldn't lift that crop's price.

Statistics Canada said 6.6 million tonnes of canola were on hand March 31, down 23 percent from last year at the same time and a four-year low.

The number was slightly lower than the mid-point of the range of analyst's expectations.

Thereporthelpednudgeoldcrop

Statistics Canada pegged total Canadian wheat stocks at 16.6 million tonnes, durum at 4.1 million, barley at 4.6 million and canola at 6.6 million.

July canola, which had been rallying since early April on expectations that the rapid pace of exports and domestic crush would drive down stocks as we moved into the final quarter of the crop year.

The amount of canola carried into the next crop year will likely be small, making it all the more important to harvest a big crop later this summer.

However, farmers are concerned that the pace of seeding is slow because of damp weather in many areas. That is helping to drive November canola prices higher.

The Statistics Canada report confirmed lots of grain are around. It pegged Canadian all wheat stocks at 16.6 million tonnes, durum at 4.1 million and barley at 4.6 million. All were above last year's number, but the durum

number was less than expected, and that was a bright spot.

The report had little impact on grain prices because that segment of the market was focused on U.S. issues.

Last week, wheat futures jumped higher early, supported by the idea that a spring blizzard had harmed hard red winter wheat in Kansas and Nebraska.

But as we report on page 7 this week, a scouting tour of Kansas in the days following the report found above average yield potential in areas where the crop was not flattened by the snow.

The Wheat Quality Council's forecast for 282 million bushels, or about 7.7 million tonnes, is more tentative than usual because it is impossible at this point to know how many acres

will be able to be harvested.

The tour's forecast is down five million tonnes, or 40 percent, from the bin-busting record production of 12.7 million tonnes last year.

The market expects less U.S. winter wheat this year. The total winter wheat planted area is down nine percent, and in Kansas, which is the biggest hard red winter producer, acreage is down 12 percent.

However, the potential of production being down even a little more is apparently not enough to generate a sustainable rally.

By the time traders went home for the weekend, the Kansas hard red winter wheat contract was trading almost where it was before the big blizzard.

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

PULSE CROPS

India may move on fumigation issue

Saskatchewan Pulse Growers says there has been a positive development in an ongoing market access issue with India.

India has posted draft amendments to a plant quarantine order that had previously threatened to derail exports to Canada's top pulse market.

The document suggests India is willing to recognize and accept Canada's systems approach to dealing with India's concerns about a certain type of stem and bulb nematode.

"The document suggests implementing the systems approach for a two to three year period, and during this time the Indian government will monitor its effectiveness," SPG said in a press release.

The draft document still includes a fumigation requirement, although with phosphine instead of methyl bromide. Pulse Canada has concerns about that requirement and is working with the Canadian government to pass those concerns along to Indian authorities.

CANFAX REPORT

FED CATTLE SOAR

Here is one for the record books. The Canfax weekly average for steers soared \$14.09 to \$191.51 per hundredweight and heifers were \$184.52. The prices were the strongest since July 2015 and were supported by extremely tight supply of market-ready cattle in the United States, the snow and rain in the U.S. that caused muddy feedlots and the weak Canadian dollar.

The U.S. is enjoying strong beef exports, which also helped lift cattle prices. March U.S. beef exports totalled 234 million pounds, up 13.9 percent from February and up 25.2 percent from a year earlier.

March beef and veal exports to Japan were up 43 percent over last year, and shipments to South Korea rose 27 percent. U.S. beef captured some business normally done by Australia.

American packers, short on supply, stepped into the Canadian marketplace. They bought a large part of the week's offering at dressed prices of US\$242 for immediate delivery.

A handful of cattle traded at \$232 for mid-May delivery.

Alberta dressed trade was C\$7-\$14 per cwt. higher at prices C\$305-\$310 delivered. Most of the local procurement was scheduled for two- to four-week delivery.

Because cattle are being pulled forward, carcass weights were 23 pounds lighter than the previous week and 55 lb. lighter than last year at the same time.

This gives feeders huge leverage over packers because they can hold back cattle until they get the price they want. As well, packers have to buy more lightweight cattle to maintain beef production.

The weak Alberta-to-Nebraska cash basis contributed to the American buying interest. The basis was -\$7.78.

Weekly western Canadian fed slaughter to April 29 rose to 35,054. Slaughter is up five percent this year.

Weekly exports to April 22 rebounded to 5,385 head. They are down 10 percent for the year.

The surge of U.S. buying interest is unlikely to last as the basis shifts and packers in the northwestern U.S. gain access to increased volumes of captive cattle.

The rally in fed cattle has also lifted beef prices, and the market will watch to see if consumers suffer sticker shock right at the point when beef demand usually rises for barbecue season.

Chicago cattle futures rallied strongly last week but ran out of steam as the week closed.

Cash slaughter cattle in the U.S. sold at US\$140-\$147 per cwt., up from \$136-\$140 the previous week.

COWS STRONG

D1, D2 cows ranged C\$103-\$118 to average \$110.80, up \$3.05.

D3 ranged \$95-\$106 to average \$100.38.

Rail grade cows were \$205-\$210. Alberta cow prices established new highs, while U.S. cows slipped from highs set a couple of weeks ago. Alberta packers seem to be giving up a little margin on the non-fed cattle.

Recent data shows 85 percent trim prices are three percent higher than last year, while butcher cow prices are six to eight percent stronger.

Nevertheless, packers will likely have to be aggressive buyers to



keep hooks full because fed cattle supplies are tight and more fed cattle are expected to go to the U.S.

The weekly Canadian bull slaughter volume was 430 head, the most since September 2012.

FEEDERS JUMP HIGHER

Feeders saw the largest weekly price gain in recent history.

Calf and feeder prices traded at the highest levels since early April last year.

Fall-purchased calves that were placed into backgrounding lots have now been on feed for more

than 150 days.

Many producers are marketing their feeders ahead of schedule and at lighter weights than last year. Backgrounded cattle are fetching profits of about \$400 per head.

Demand for replacement quality heifers was mixed. Premiums were noted for top sort reputation females.

On the other hand, a higher percentage of group or load-lot packages of heifers with "breeding potential" are being placed on feed.

The forward delivery market was lightly tested.

Alberta and Saskatchewan steers

weighing 1,000-1,025 pounds for August-September delivery saw prices in the low to mid-\$180s.

Using a .10 slide, 850 lb. basis levels are working back to -\$6.25 to -\$11 at the ranch.

The five-year average 850 lb. basis for August is -\$11.40 and September is -\$7.22.

The recent stronger prices have changed some producers' marketing strategies.

Some cow-calf producers and grass operators are doing weight and quality sorts, which has brought a few more feeders onto the cash market.

American feedlots are looking at new crop corn prices that are 10 percent less than at this time last year, holding the potential for good profits for the rest of the year.

Bred cows ranged \$1,500-\$2,400 per head. Cow-calf pairs ranged \$1,900-\$3,050.

BEEF TAKES FLIGHT

Choice rose US\$16.43 to \$235.58 per cwt., and Select jumped \$10.16 to \$216.84.

Prices are now \$21-\$31 per cwt. higher than a year ago.

The sharply higher prices may have reduced sales, but demand is expected to remain strong as consumers gear up for the grilling season.

Weekly Canadian boxed beef prices to April 29 were unavailable.

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



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RURAL INFRASTRUCTURE

Alta. livestock head tax sign of infrastructure challenges

The rubber has hit the road in southern Alberta's Lethbridge County, where a per-animal-unit tax imposed last year recently survived a court challenge.

Faced with the need to raise funds for road and bridge improvement, the municipality imposed a "head tax," which particularly targets confined feeding operations.

In the region colloquially known as feedlot alley, about 85 percent of the new tax burden rests on the shoulders of feedlot operators.

Collectively, they feed about half a million cattle at any given time, so a \$3 per head tax — with that number assessed each year subject to county council directive — is a lot of money.

The county rationale is simple. With limited options for deriving more money to improve infrastructure, it has taxed the operations it perceives make the most active and sustained use of that infrastructure.

However, feedlots are businesses based on margin. Their economic health rises and falls with international markets for cattle and beef. Thus they, too, have limited options for generating the higher revenue needed to pay a head tax.

As well, the county's user-pay idea in terms of road and bridge use has a few potholes. Cattle and feed enter the region from all over Western Canada. The concentrated vehicle traffic required by feedlots serves a widely dispersed industry that overlaps provinces.

Cow-calf producers, grain farmers, transport companies, farm equipment services, manure haulers and other support industries survive and depend on a healthy cattle feeding industry.

It generates employment. It is a major contributor to the county's gross domestic product that, at \$1.6 billion annually, is the largest among rural municipalities

in Alberta.

Why has the county gone down this road? Why did it drive a tax that is now being viewed by other rural municipalities — in Alberta and likely in other provinces — as an option for their own infrastructure improvement needs?

It's because of the aforementioned limited options.

The head tax essentially highlights the challenges faced by all rural municipalities: the need to more adequately fund infrastructure maintenance and improvement even though they have small population/taxation bases.

Higher levels of government, provincial and federal, need to better recognize these challenges and pave the way for rural governments to plan upgrades and adequately fund them.

The problem isn't new, by any stretch.

"From coast to coast, rural communities are central to Canada's economic, social and environmental well-being," said the Federation of Canadian Municipalities in its appeal to the federal government earlier this year.

"But with limited fiscal capacity, rural governments face formidable challenges providing the infrastructure that's needed to sustain local economies and ways of life."

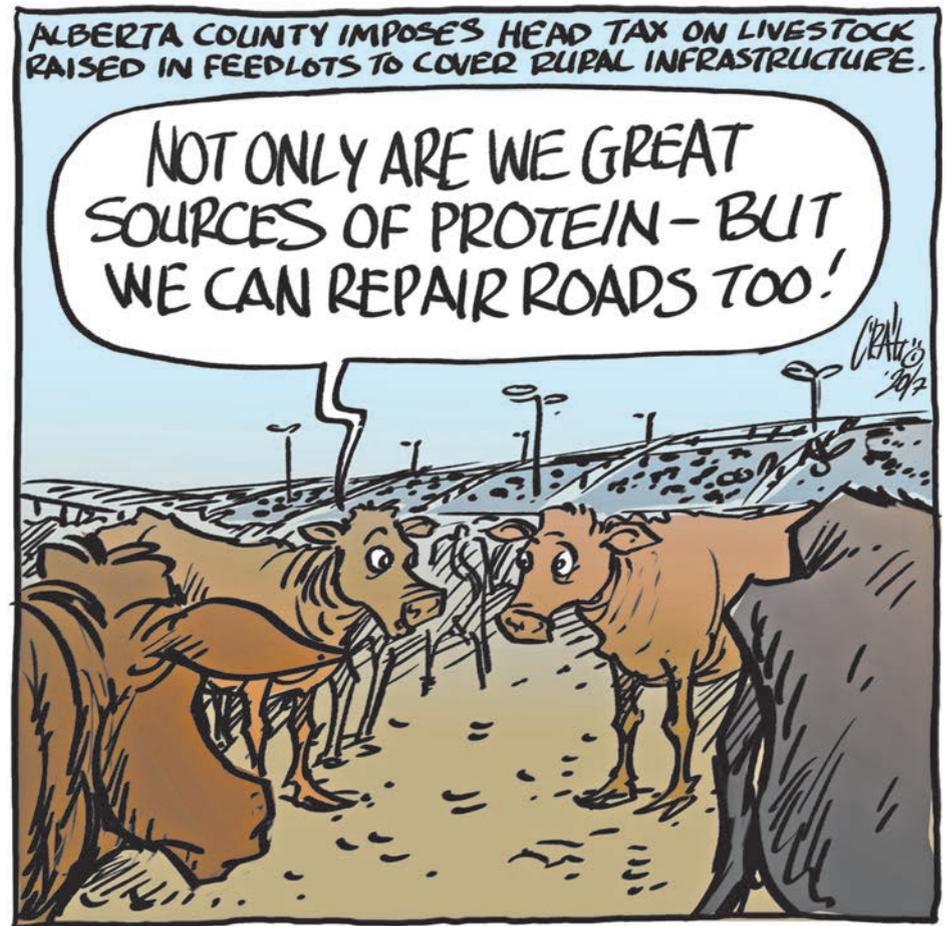
The FCM made numerous recommendations that need greater federal attention.

At the provincial level, the government must firmly acknowledge rural infrastructure challenges and take steps to adequately fund the upkeep of a transportation system that benefits both direct users and the entire provincial economy.

With apologies to poet Robert Frost, it may be the road less travelled, but that can make all the difference.

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

CRAIG'S VIEW



U.S.-CANADA TRADE RELATIONSHIP



Anybody who has an issue with Canada, this is the time to bring it up now. The dairy issue certainly signalled that.

DAN UJCZO

TRADE LAWYER, PAGE 41

GROWING FORWARD 2 EXPIRING

Ministers to outline priorities for next ag policy framework

CAPITAL LETTERS



KELSEY JOHNSON

Canada's agriculture ministers will gather in Ottawa May 10 for their annual spring meeting.

The meeting is officially being billed as a preparatory meeting on the next Agriculture Policy Framework, which is expected to be finalized when the ministers meet in Newfoundland and Labrador in July.

The current Growing Forward 2 framework expires in 2018.

The ministers unveiled their priorities for the pending framework when they met in Calgary last July. The six priorities include trade, research and innovation, business

risk management, environment and climate change, value-added agriculture and manufacturing, and public trust.

On business risk management, Ontario wants decisions and reforms on the file delayed for one year to ensure the programs are suitably flexible.

Canada's business risk management programs, particularly AgriStability, have been heavily scrutinized by farm groups, provinces and even the federal department in recent years, thanks to declining participation rates and farmer insistence that the program doesn't work.

Ottawa has promised to review the program ahead of the next policy framework.

Ontario wants that timeline extended by another year. Current program funding and design would carry forward until a final decision can be reached, Ontario has said.

Jeff Leal, the province's agriculture minister, has said Ontario's

proposal is in part tied to last year's severe drought that hit parts of the province hard. Ottawa's agriculture disaster relief program — called AgriRecovery — requires a province-wide disaster declaration, a designation Leal has said doesn't work when there is severe crisis in certain regions, but the rest of the province is fine.

Risk management is again top of mind. Many fields in Central Canada are underwater thanks to recent severe, ongoing flooding in parts of Quebec and Ontario. Many fields are now tiny lakes, so it is unlikely that seeding equipment will be able to get into them for several weeks.

There's more rain in the forecast, which is raising fears about more seeding delays. Couple the Central Canada seeding delays with those already being reported in the Prairies, not to mention the unharvested acres, and conversations around business risk management just got a little more interesting.

The seeding delays aren't the only

agriculture issue expected to be raised when the ministers meet this week.

Ottawa still hasn't unveiled its plan for the grain transportation file. The promised legislation will not be unveiled before the ministers meet.

Parliament must give 48 hours notice of any incoming legislation. Monday's notice paper does not bear any mention of the bill.

It's safe to assume the agriculture minister will also be expected to provide his provincial counterparts with an update on the file when they meet.

Lawrence MacAulay has repeatedly said this year's crop will move. However, he has not said how he plans to ensure that will happen.

As of press time May 8, Ottawa had not said whether it plans to extend the current legislation, despite pleas from several farm groups.

Another file of note is trade. The May 10 meeting is the first time the agriculture ministers will meet in person since U.S. President Donald

Trump attacked Canada's dairy industry.

MacAulay and Foreign Affairs Minister Chrystia Freeland have repeatedly promised that Ottawa will defend the sector. Ontario, for its part, has vowed that it will not "cede one inch" on the file.

Questions remain about the timeline for a renegotiation of the North American Free Trade Agreement. With a pending Mexican presidential election, Congress requiring a 90-day notice period before negotiation can start and a U.S. mid-term election fast approaching, it's unclear when the talks will actually start.

Saskatchewan Agriculture Minister Lyle Steward has said NAFTA will be a priority for him at this week's meeting. With farmers nervous about continued market access, provincial ministers will be looking to Ottawa for some reassurance.

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

& OPEN FORUM

LAND, WATER MANAGEMENT

Conservation districts under-used

BY THE RED RIVER BASIN COMMISSION

How are you using your local conservation district? Or let's rephrase: are you using your conservation district?

The Red River Basin is fortunate to have a great presence from our conservation districts throughout North Dakota, Minnesota and Manitoba.

Conservation districts are local units of government required by law to carry out natural resource management programs.

Districts work with landowners and operators who are willing to help them manage and protect land and water resources on all public and private lands in the United States and Canada.

In Manitoba, conservation district programming is directed by policies and actions outlined in local integrated watershed management plans.

A watershed-based approach to land and water management provides benefits that include understanding how activities on the landscape influence water quality and quantity, fostering a connection to the landscape, and ensuring activities upstream are respectful of downstream residents.

Minnesotans count on Soil and Water Conservation Districts to provide technical assistance with practices that protect the quality of the state's natural resources.

Conservation districts fill a crucial niche in providing soil and water management services to land owners.

The purpose of the North Dakota Association of Soil Conservation Districts is to further the applica-



Conservation districts in the Red River Basin are designed to help landowners protect land and water resources. | FILE PHOTO

tion of sound and practical soil and water conservation practices.

A soil conservation district has established boundaries, usually along county lines, that have authority to conduct surveys, investigations and research relating to soil erosion and the prevention and control measures needed.

The Minnesota Association of Soil and Water Conservation Districts provides a list of advantages in supporting and using a soil and water conservation district:

- Non-regulatory: Landowners cooperate, expanding and exercising their own commitments to stewardship. It is proven more productive than regulatory coercion.
- Several agencies provide standards and specs for implementation of natural resource management practices to the district. The agencies recognize the

technical competence of the SWCD staff.

- SWCDs share data on resource protection and initiate new treatment techniques, continually testing and improving land-treatment solutions to gain more cost-effective means of improving water quality.
- Staff is technically accountable to the standards. Annual inspections are made of applied practices to ensure continued quality.
- Knowing the landowners, knowing the land, knowing the solutions, and experience applying the solutions makes the SWCD staff exceptionally qualified to apply practices.
- Cost-share dollars available to landowners are tied to the engineering standards practiced by the SWCD.
- Able to co-ordinate resources from outside the county to on-

the-ground implementation of the plan.

- The district leverages additional resources to implement the action items of the county surface water plan.

To learn more about conservation districts, visit North Dakota Association of Soil Conservation Districts at ndascd.org/wp/, Minnesota Association of Soil and Water Conservation Districts at www.maswcd.org and Manitoba Conservation Districts Association at www.mcda.ca/.

The Red River Basin Commission is a chartered not-for-profit corporation under the provisions of Manitoba, North Dakota, Minnesota, and South Dakota law. It can be reached at 701-356-3183 and 204-982-7254 or at www.redriver-basincommission.org.

POLITICS

When luck ends, truth emerges

EDITORIAL NOTEBOOK

MICHAEL RAINE
MANAGING EDITOR

Weasel words, slippery synonyms, humongous hyperbole, effortless entitlement have fallen into common usage in political circles these days.

And no matter which party you voted for in the last federal or provincial election, once government is formed, it represents all of us, and as such we all have a right to know what they are spending our tax dollars on.

Some people might have bought into the idea of lower taxes and based their choices on that, or that someone else was responsible for spending on a program they didn't like.

But most farmers who have been at it for more than a few years have enough experience to understand the luck factor.

While being in the right place at the right time plays a role in successes and failures, luck seals the deal.

The Saskatchewan Party won the lottery in 2007, taking over a set of books that was balanced by the New Democratic Party.

This, combined with a rising tide of natural resources revenue, carried Western Canada through the Great Recession of 2008.

That healthy, albeit inherited, bottom line allowed the Saskatchewan government to make ideological tax and royalty cuts and get away with it.

Claiming the years of economic success were due to the government's right formula was more than a bit hyperbolic.

But now as the financial tide is ebbing and luck is running out, the weasel words from the Saskatchewan government are coming out.

It said it wouldn't sell crown corporations without a vote but now it is peddling 49 percent shares in them. That smells of weasel.

Dave Marit, Saskatchewan's minister of highways, has said that his budget shouldn't include a price for accountability from the public, saying that all costs for freedom of information requests should be paid by the person who files the request.

That sends the message that you and I are not entitled to know what he did with our tax money and we should just trust him.

He might be a little too entitled. Federally, the Liberal party is trying to financially restrict the Parliamentary Budget Officer from being able to assess the costs of federal programs.

Spending a few dollars in public budgets to ensure that governments are telling a story as close to the truth as they can might be a good idea because I think some politicians are giving the handshake a bad name.

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CLOSE CALL

Power line complacency can be dangerous

HURSH ON AG



KEVIN HURSH

Everything was going well. It was the second tank with the sprayer on this particular field and the booms were unfolding normally. Suddenly, I caught the glimpse of a bright yellow flash and felt a minor jolt.

Horrified, I quickly reversed the boom fold and moved the sprayer to a different spot. How could I have made such a critical error?

I've owned that particular quarter for about 25 years and before that it had been rented by my father for decades.

A power line has crossed the quarter diagonally for as long as I can remember. Double pole struc-

tures carry three heavy lines and another line above.

Where the line originates and what it services, I have no idea. Sask Power makes a yearly small payment as compensation for weed control. Years ago, it used to sterilize the ground between the poles from time to time, but that was ended in lieu of the payment.

It's the poles that have been the hazard over the years. The ends of sprayer booms have sometimes caught a pole, and sometimes the end of the seeder has nudged a pole going by.

There's no way to easily spray, seed or combine crop around the double poles. It always takes a couple extra passes. They're a nuisance and time waster and result in a lot of product overlap.

Until now, I'd never thought much about the actual lines. They've always seemed a virtual mile above the ground, far above any machinery. That complacency was dangerous.

I don't think the sprayer boom

actually contacted a line. It must have just arced from the line to the boom. It all happened so fast that five minutes later I was wondering if it had really happened at all. However, a small scorch mark on a metal plate at the end of the boom confirmed the close call.

Upon closer inspection, the big heavy wires are sagging dramatically between each set of big poles. I'd like to think the wires are much closer to the ground than ever before, but that doesn't make the incident any less my fault.

I wasn't injured and the sprayer wasn't damaged. Even the GPS connection was maintained.

As high clearance sprayers go, this one is not large or high. The boom height at foldout would be much less than later-model machines.

When the first tank ran out, the booms were folded up and the sprayer taken for a refill. Upon return, I stopped the sprayer just back of where the last tank ran out and prepared to resume spraying.

It never occurred to me that I was near the mid-point of two pole structures and right under the sagging lines.

The same sprayer has been used on that field for the past four or five years so the booms have been in and out of transport dozens of times. On all those occasions I've never considered the proximity of the power lines.

It's a mistake that won't be repeated. Over the years, many people have been killed or seriously injured by accidentally contacting a power line. Equipment has often been fried to a crisp. I was just lucky.

I'm embarrassed that I was so careless, but perhaps someone reading this will be motivated to pay closer attention. And I'm going to look into getting the single line buried that runs to the pole in the middle of the farmyard.

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

OPEN FORUM

LETTERS POLICY:

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

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

CANADIAN FARMERS GETTING TRUMPED

To the Editor:

President Trump's recent war of words on supply management has emboldened several anti-Canadian farmer cheerleaders to emerge.

Chief among them is Sylvain Charlebois, who speaks from his comfortable bubble as the dean of the faculty of management at Dalhousie University.

Charlebois sounds like he comes from the past when he indicates that killing supply management would mean lower costs for consumers as competition increases.

What competition? Has he been

living in a bubble and not seen what's happening in the agricultural sector? Machinery dealers, chemical companies, fertilizer companies and grain companies have been consolidating down to two or three companies in the whole world.

These companies are taking more money from both farmers and consumers. And yet there is not one peep from Charlebois on this "non-competitive" force. Why is that?

This so-called expert suggests the ending of supply management is a good thing and yet Wisconsin farmers have clearly stated that the problem in the U.S. is the overproduction of milk, which drops the price farmers receive. And in order

for U.S. farmers to stay in business, they need government support from U.S. taxpayers.

Canadian supply management ensures enough milk is produced so the market is not shorted, consumers get a good product, farmers can make a decent living and the Canadian taxpayer does not have to provide any support.

Why would anyone want to give that away? Is it just so some mega corporations could get into the business and skim money from farmers and consumers while providing lower quality products? Or is it so Professor Charlebois can export his fantasy of market competition and free trade from his ivory tower to the real world?

We all know how the Americans

followed the free-trade model of the World Trade Organization and country of origin labeling.

Checking the prices of milk, one wonders why supply management can be the cause for excessive milk prices. A four-litre milk jug was priced between \$6.40 and \$4.63 per jug within a five kilometre radius in Regina.

Producers got the same price when they sold the milk, so why is there almost a 30 percent discrepancy at the retail level between stores? Obviously, one of those stores is gouging its customers or the other store is using milk as a loss leader.

Either way, if supply management was removed, it is pure fantasy to think consumers would get cheaper milk.

Charlebois and others came from the archaic era where they believe the theory of trickledown economics.

It may sound good, but when powerful companies use their dominance of the market to take excess profits, they don't trickle them down. They trickle them up to shareholders, farmers, consumers and taxpayers get to work harder for less.

Kyle Korneychuk
Pelly, Sask.

CLIMATE CHANGE

To the Editor:

There is strong opposition to both sides of the discussion on global warming because accuracy related to climate change is difficult.

There are professionals in the field of climate control who lack vital knowledge on the topic, therefore, political amateurs, such as those on Parliament Hill or the Alberta legislature, must excuse themselves from carbon-tax discussions until they are educated on all aspects of climate change.

If there exists such a phenomenon as global warming, political people and our entire food industry would have been in serious trouble decades and centuries ago. We must remember, fossil fuels were generated and mountains erupted long prior to the human invasion of planet Earth.

We must never ignore the fact that Canada produces less than two percent of the global carbon pollution.

Many world leaders attend climate-change meetings for the purpose of demanding trillions of dollars to combat global warming. If foreign aid were an indicator, money would simply disappear down some untraceable path of squandering and embezzling.

If the Canadian prime minister and his government fail to recognize the fallacy of introducing a carbon tax, the Senate or Supreme Court should immediately quash such an act.

Canada must follow the example of the United States by placing a moratorium on any form of global warming taxation. The province of Saskatchewan has taken on a highly acceptable role by rejecting the most unpopular carbon tax.

John Seierstad
Tisdale, Sask.

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OILSEED APPROVAL

Firm eager to ride the 'canola train' with carinata

Agrisoma has USDA approval to sell the meal in the U.S. and European Union and will begin contracting acres next year

BY SEAN PRATT
SASKATOON NEWSROOM

Agrisoma has the approvals it needs to proceed with commercializing a new oilseed crop for Western Canada.

The U.S. Food and Drug Administration has given Agrisoma regulatory approval to sell carinata meal in that market.

The same data package submitted to the FDA was used to secure European Union approval for the meal, and that is the real big development, said company president Steve Fabijanski.

Europe is a massive market for feed. It currently uses rapeseed meal as well as imported soy and canola meal.

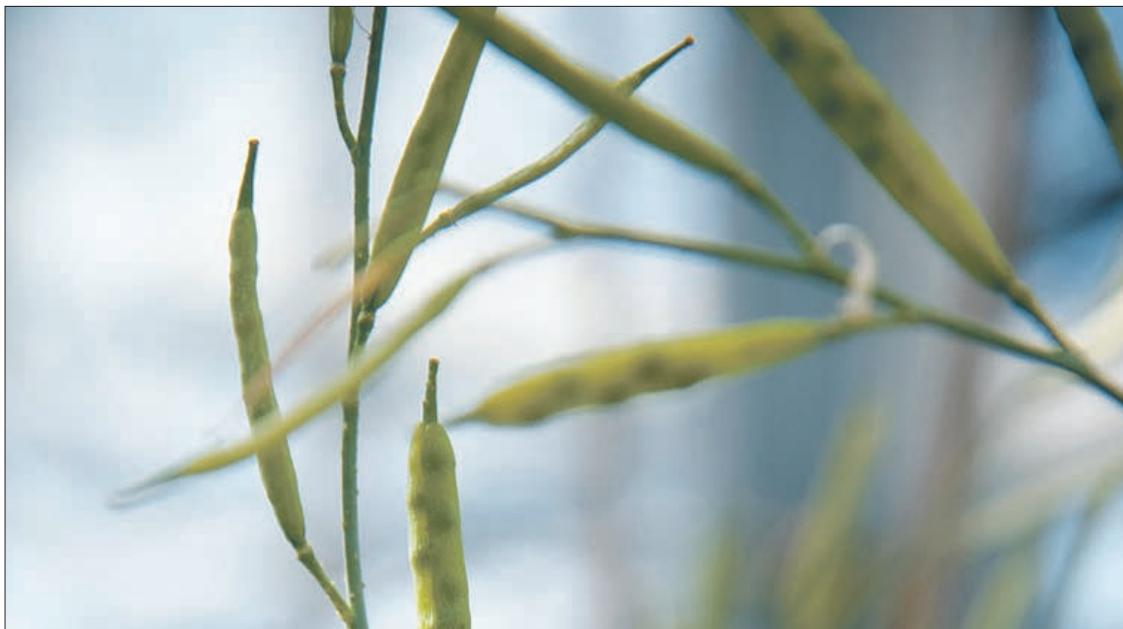
"There is an opportunity there to put carinata meal into the mix as a non-GMO meal product," he said.

Canada was the first market to approve carinata meal, but that was done as an add-on to an earlier mustard meal approval.

Carinata matches canola meal specifications in the recent U.S. and European approvals, which means it can be used at better inclusion rates.

Agrisoma contracted 50,000 acres of carinata around the world last year, with most of that seeded in South America.

It is grown as a second crop there



Delays in regulatory approval in Canada and the United States have held back expansion of carinata, but Agrisoma is now hoping to contract and promote the oilseed. | FILE PHOTO

following soybeans during the winter season. There are not a lot of food crops produced in the winter, so it can sidestep the food versus fuel debate.

The company is also targeting the southeastern United States and the northern Plains, which includes the southern Canadian Prairies. It would like to see equal production in all three regions.

There is no carinata being grown

in Western Canada outside of demonstration trials.

The company was starting to build momentum in the Prairies in 2012 when it contracted 6,600 acres with more than 40 growers across Saskatchewan and Alberta.

The following year it signed an agreement with Paterson Grain to manage carinata production with growers and the subsequent processing and sale of the product.

Paterson was hoping to contract 30,000 acres in 2013. That didn't happen because of delays in getting Canadian regulatory approval for the meal.

Two years later, Agrisoma targeted 50,000 acres of production in Western Canada. Once again, that didn't happen because of regulatory issues.

The company wanted to contract North American acres in 2017, but

it had to wait for U.S. regulatory approval for the meal, and everything was pushed back.

Fabijanski said the groundwork is finally there for true expansion next year.

"I know that people are really waiting for the breakout on this, but it takes a while," he said.

Agrisoma is hoping for 50,000 to 70,000 acres of production in Saskatchewan, Alberta, North Dakota, South Dakota and Montana next year.

The crop is being processed in Europe, where an undisclosed bio-fuel manufacturer is using the oil to make renewable diesel. There is no dedicated crush facility. Instead, it is being batch processed by plants that usually work with rapeseed and soybeans.

Agrisoma is marketing the oil and meal's sustainability aspect. The crop has a low carbon footprint because it is better at sourcing nitrogen than other crops, produces a large amount of biomass that is incorporated back in the soil and has high oil content of 45 percent.

Western Canada is the next target for expansion. Fabijanski said he wants to revive a bit of the "canola train" that used to head to Europe before it was derailed by concerns over genetic modification.

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OPERATING COST

Grain shipping cost up

An 11.4 percent fuel increase is forecast for 2017-18

BY BRIAN CROSS
SASKATOON NEWSROOM

The Canadian Transportation Agency is projecting a 4.1 percent increase in the cost of moving western Canadian grain by rail this year.

The increase is in the volume related composite price index (VRCPI), which is used to determine maximum revenue entitlements for Canadian National Railway and Canadian Pacific Railway.

MREs, which are also known as railway revenue caps, limit the amount of revenue that Canada's major railways can generate by moving a tonne of grain over a given distance to export terminals in Churchill, Man., Thunder Bay, Ont., and British Columbia.

The VCRPI is similar to an inflationary index.

Each year, the CTA accepts submissions from the railways, assesses railway operating costs for items such as labour, fuel and materials, and uses the information to determine the VRCPI.

The CTA is required to announce changes to the VRCPI every calendar year before April 30.

An adjusted VRCPI of 1.3817 will be applied when the agency determines the railways' grain revenue entitlements for the 2017-

18 crop year.

In a CTA summary document, the agency says the increase for the 2016-17 crop year was the result of higher projected costs for fuel and railway labour.

"The agency forecasts a 1.3 percent increase in labour for the 2017-18 crop year, with projected increases in general wages partially offset by projected declines for some of the wage-related and fringe benefit components," the summary document stated.

Regarding fuel costs, "the average of third party forecasts for the price of crude oil used in the development of the 2017-18 railway fuel price index is US\$53.70 (per barrel) for 2017 and \$56.10 (per barrel) for 2018," the document said.

"(Overall), the agency forecasts an 11.4 percent increase in fuel prices for the 2017-18 crop year, with larger increases projected in the price of crude oil in 2017 mitigated somewhat by more moderate increase in 2018."

The CTA established a base VRCPI rate of one in the 2000-01 crop year.

Since then, the rate has grown at an average compounded rate of 1.9 percent per year.

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EARLY BREAKFAST | Elaine Biggart feeds 4-H steers on her farm near Innisfail, Alta., last month. | WYATT BIGGART PHOTO

GRAIN CAR SALE

Bidding closes on rail cars May 12

BY KAREN BRIERE
REGINA BUREAU

The bill to repeal the Saskatchewan Grain Car Corporation Act and

make way for the sale of the provincially owned cars has received third reading.

Offers on the 900 cars are due May 12, and during committee debate on the bill, Highways Minister David Marit wouldn't say how many had been received.

However, he did say he and Agriculture Minister Lyle Stewart decided to sell the cars last summer. They are the only two board members for the corporation.

"It had gone to the transformational change committee in June, and in July the board at that time made the decision to wind down the corporation," Marit said in response to a question from critic Cathy Sproule.

The short-line railways were consulted in November and cabinet addressed the issue in January.

Marit said the railways were interested in having first dibs on the cars, and that was the "number one priority" when the decision to sell was made.

However, the short lines have since said they are disappointed in the accompanying decision to end the \$900,000 annual grant they received for maintenance. Marit said they were told everything was on the table because of budget concerns.

The cars purchased in 1979 now have a book value of \$6.3 million and are depreciating at a rate of \$1.2 million per year.

The eventual buyer, or buyers, can expect 14 years of use out of them. The Association of American

Railroads regulations govern how long cars can be used, and this type of car has a 50-year lifespan.

However, there is a provision in the rules that allows an application to extend that by 15 years.

"You can't make that application until two years preceding the 50-year birthday, I guess, of these cars," said SGCC vice-president of operations Kelly Moskowy.



KELLY MOSKOWY
SASKATCHEWAN GRAIN CAR CORPORATION

There is no guarantee, he said, and there is a process, including the inspection of 10 percent of the cars. He also said that changes to the rules and costs could hinder an application.

"As an example, our cars do not have automatic slack adjusters on them," he said.

There has been talk within the industry about making automatic slack adjusters mandatory.

"That change alone would be about \$5,000 per car."

Changes to side frames, trucks and wheels would be about \$20,000 per car.

"It gets to a point where you're only getting 15 years, and if you're having to invest \$20,000 or \$25,000 additional into it, it may get to a point where you ... price them out of the market when it comes to competitive lease rates," Moskowy said.

Meanwhile, the purchaser will also have to honour a clause in the lease that applies to 415 of the cars being used by Last Mountain Railway. That short line has a lease until March 2021.

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Red and white are good colours to choose for Mother's Day gifts in 2017, Canada's 150th year. | Page 19



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SIAL INTERNATIONAL FOOD SHOW

Hunger for ethnic flavours offers marketing opportunities

FARM LIVING EDITOR **KAREN MORRISON** ATTENDED THE SIAL INTERNATIONAL FOOD AND TRADE SHOW IN TORONTO AND FILED THESE STORIES.

TORONTO — Demand for ethnic food is growing in Canada, driven by immigration but also an increasingly sophisticated and well-travelled consumer.

During a panel discussion on multiculturalism and food markets in Canada at the SIAL international food and trade show in Toronto, Mubashir Jamal, senior category director with multicultural merchandising for Loblaw,

said large cities are now almost 50 percent multicultural.

"Most live in close proximity to people of a different ethnicity," he said.

The newest Canadian census will show that the ethnic mix in less populated regions is also changing.

"Expect census surprises for all of us," said Ravi Maharaj, category manager in ethnic fresh food for Sobeys. "Smaller cities are becoming more diverse. That's a growing opportunity."

B.K. Sethi, president of B.K. Sethi Marketing, said consumers' changing tastes are also behind the growth in the sector.

"Ethnic is our base, but mainstream is our target," he said.

Most live in close proximity to people of a different ethnicity.

MUBASHIR JAMAL
MULTICULTURAL MERCHANDISING
FOR LOBLAWS

Consumers want more variety in their diet, are attracted to ethnic products and are swayed by ethnic influences of neighbours and friends.

"More are travelling more and bringing back those tastes," Sethi said.

Salima Jivraj, account director

with Nourish Food Marketing, said the proliferation of a foodie culture, TV food shows and easy access to recipes online in a digital world are also contributing to growth.

"There are no borders with digital," she said. "It's very accessible, it's easy. There's no limitations."

In addition, Maharaj said restaurants' ethnic mix is adding to the demand among consumers.

"They want to replicate that at home," he said.

Maharaj said Canadians need to eat more fresh meals at home and consume less processed food, stressing the need for increased food education.

CONTINUED ON NEXT PAGE >>



TOP: Anqi Zhang, left, prepared steamed buns with Yinjun Yao at the Hebei Newcorn Food Co. booth at the SIAL food show in Toronto May 2-4.

ABOVE: Hasan Con prepares kunefe, a Turkish dessert. | KAREN MORRISON PHOTOS

HUNGER FOR ETHNIC FLAVOURS

» CONTINUED FROM PAGE 15

“Get people back into eating good food, get people back to the table,” he said.

Korean markets expert Chris Yu of Galleria Supermarket said trends within ethnic markets include blends of “East meets West” with consumers experimenting.

“They are incorporating flavours into their own snacks,” she said.

Sethi said that as popular as these dishes may be, they may not be easy to cook, so there are growing markets for freshly made takeout meals.

Today’s time-crunched consumers are gravitating to these convenience offerings, he added.

Jamal said demand for ethnic food will open doors for Canadian entrepreneurs to innovate and create some of these products here.

Maharaj said food sampling and knowledgeable staff are key in selling ethnic products to a wider audience.

“If you don’t know how it tastes, how can you sell it,” he said. “Educate staff and then convey it to the customer; that’s when there’s growth.”

Most panelists agreed it was important not to paint ethnic sectors with the same brush because there are segments within these communities.

Cater to community

Food retailers must also continue to cater to the consumers’ needs within a two to three kilometre area of their storefront and provide an ethnic assortment on the shelf that is fresh and/or priced right for local consumers.

“You have to do your homework, check competitors and have to understand the market,” said Maharaj.

Jivraj said those catering to typically larger ethnic families need to consider larger package sizes, but ethnic-focused packaging is unnecessary.



“Packaging doesn’t need stars, moons and mosques,” she said.

She also noted generational differences among ethnic shoppers with her parents more comfortable than she is in the local halal butcher shop.

“I don’t feel OK, I want a nicer experience,” she said, citing impediments of language, store appearance and selection.

Jivraj noted how little regulation there is in Canada for halal.

“It’s a time for Muslim consumers right now where anything goes,” she said.

She hoped raising these concerns will bring about change.

“The power lies in the consumers’ hands. They need to question sources, and retailers and manufacturers will follow suit,” she said.

“We’re talking about it now, so it is pushing industry into the right direction.”

Yu cited her success in working



with the South Korean government to ensure certified and approved products.

Panelists agreed on the need to find consistent suppliers who provide authentic ethnic food and

understand retail and consumer demands.

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ABOVE: Liu Bo lines up dried cooking ingredients.

LEFT: Sabya Chakraborty watches chef Abid Mohammed prepare couscous at the Moroccan pavilion, which featured live cooking demonstrations and food sampling daily.

| KAREN MORRISON PHOTOS

SIAL INTERNATIONAL FOOD SHOW

Reducing food waste requires focus on nutrition, not looks

Odd-shaped, blemished or outdated food products can still be nutritious and used to make sauces, purees or in baking, says dietitian

BY KAREN MORRISON
SASKATOON NEWSROOM

TORONTO — The dressing in the pantry may have changed colour, but it still can be safe to mix into a salad.

Registered dietitian Jane Dummer, speaking at the SIAL international food show in Toronto May 2, said best before dates in most food products other than meat aren’t related to food safety.

“It’s not pathogenic but more of a quality issue,” she said.

Dummer discussed ways to minimize food waste and make the food budget go further with panelists Franco Naccarato, program manager with the Greenbelt Fund, and Tia Loftsgard, executive director of the Canada Organic Trade Association.

Dummer organizes a pre-garbage day cookoff and fridge clearout at her home by creating casseroles and stir-frys from produce that’s no longer at its peak.

Food waste is common in produce because retailers have standards for size, colour and shape and vegetables such as cauliflower that aren’t snow white are culled.

However, Naccarato said appearance shouldn’t be the deciding factor in buying food.



FRANCO NACCARATO
GREENBELT FUND

“Taste has value,” he said. “If appearance is the only thing we’re judging our food on, then we end up with a poor food system.”

Added Dummer: “Appearance may not be ideal, but nutrition is

there and price point is there. You’re still getting a decent product.”

Naccarato said consumers need to shift their focus to nutrition rather than imperfection.

“A little blemish on the skin is not going to make it taste less good,” he said.

Naccarato cited a chef in Italy who creates meals from these products for vulnerable populations.

Loftsgard cited examples of “seconds stores” offering discounts on less than perfect produce.

She said mini carrots were an innovation to reduce food waste in misshapen or oversized carrots.

Dummer said a spiralizer can turn carrots with three roots into snacks, and other imperfect produce can be transformed into baby food, purees or baking.

Loftsgard said buying a side of beef with friends and family and learning how to prepare different cuts is an efficient and cost-effective way to buy meat for families.

The growing popularity of convenience foods and ready-to-eat meals in food stores is another way to make use of ingredients on hand and stop wasting food.

Naccarato said restaurants would be better able to control food costs if they spent more time managing food waste.

“Managing food waste is a challenge because you don’t know how many people are coming in,” he said.

He cited one Toronto chef who was able to spend more on higher priced ingredients from smaller, local farms and processors by focusing on food waste.

“If you reduce food waste, you can spend more money on food and it won’t affect your budget,” he said. “People don’t realize the cost of food waste in the industry.”

Dummer added: “People have not put numbers around that. It will affect your bottom line.

karen.morrison@producer.com



Appearance may not be ideal, but nutrition is there and price point is there. You’re still getting a decent product.

JANE DUMMER
REGISTERED DIETITIAN

SEE NEXT WEEK’S FARM LIVING SECTION FOR MORE COVERAGE FROM THE SIAL INTERNATIONAL FOOD SHOW



ON THE FARM

Northern Ontario the place to farm

Livestock producer says the support among farmers around Thunder Bay convinced him to make it home

BY ROBERT ARNASON
BRANDON BUREAU

When northwestern Ontario comes up in conversation, it's usually mentioned in a story about an eight-hour, mind numbing drive through rocks, trees and more rocks.

Many Canadians have heard such stories, but few know that there's more to northwestern Ontario than hunting, fishing, canoeing and driving past rocks.

Hundreds of farmers grow crops and raise livestock from the Manitoba border to North Bay, Ont., including Jason and Trudy Reid, who run a cattle and sheep operation near Thunder Bay, Ont.

For Jason, the region is the undiscovered gem of Canadian agriculture.

"This, in my opinion, is one of the best places to farm in Canada," said Jason, cow-calf director with Beef Farmers of Ontario.

"Before any young person buys a farm anywhere in Canada, take two weeks of holidays and travel across northern Ontario."

The Reids started their operation 14 years ago and now farm about 600 acres of owned and rented land. It's mostly hayland to feed 50 cows and a herd of sheep.

"It's a forage program that we run," Jason said. "We buy in whatever grain we need for finishing our animals.... We background all of our own calves. So we sell yearlings or long yearlings."

The Reids also run other enterprises to supplement their income, such as trucking livestock and buying and selling hay.

Farming is their main vocation. "We're to the point now where we make a full-time living, with the two of us at home farming," Jason said.

Two decades ago, before he

moved to Thunder Bay, Jason knew he wanted to farm but northern Ontario wasn't part of the plan.

He grew up on a dairy, cattle and sheep farm near Campbellford, Ont., where his dad, uncle and grandfather ran the livestock operation.

"That's where I was headed, as soon as I could walk. No interest in anything but cows and tractors," he said.

"I lived and breathed farming. I never had any desire to play sports or do anything."

ON THE FARM



JASON & JUDY REID
Thunder Bay, Ont.

In high school, Jason worked on farms around Campbellford and following graduation, he attended Kemptville College near Ottawa. While there he met Trudy, who grew up on a dairy farm near Thunder Bay.

After college, they were determined to run their own farm but their parents were not ready to retire.

In 2003, they considered buying land in Quebec, Ontario and in Manitoba's Interlake region.

They wound up purchasing a sod farm on the edge of Thunder Bay.

"We ended up here because at least one of us knew some people to (help) get us going," Trudy said.

Initially, they planned to stay in Thunder Bay for five years to im-



TOP, LEFT: Jason Reid checks on the backgrounder calves.

TOP: Jason and Trudy check on calving progress. The Reids are eager to expand their cattle and sheep operation.

ABOVE: Olivia, left, and Emma help feed the sheep. | REID FAMILY PHOTOS

prove the land, build up equity and then return to southern Ontario.

That never happened.

"The community help and support — it's like the rest of Canada was in the 1950s," Jason said.

"When the neighbour needed help you just did it because that was part of farming."

When Trudy and Jason started out, established producers around Thunder Bay provided equipment, expertise and time.

"Without our community here... we wouldn't have existed," Jason said.

"People lent us a round baler. We had to haul hay... somebody showed up with a tractor."

There's also a 'we're all in this together' ethic in the area, which helps farmers sleep soundly at night. Jason doesn't worry about a neighbour purchasing a piece of land that he wants to buy because farmers in the area believe in co-operation, not competition.

The community spirit is an advantage but there are obstacles to farming in the region.

The nearest agricultural equipment dealer is in northern Wisconsin, a six-hour drive south, or in Steinbach, Man., a seven-hour drive east.

In addition, there isn't a place to market cattle.

"We don't have a sale barn (for livestock)," Trudy said. "The closest sale barn is four and a half hours away and they only have five sales a year."

The Reids have adapted to the marketing reality. They sell calves and yearlings to hobby farmers in the area who want to keep a few animals on their acreage.

They also sell lambs and lamb meat directly to customers in Thunder Bay.

"We sell 75 lambs in a festival weekend in September," Jason said.

FARMING AROUND THUNDER BAY

- Thunder Bay has a population of 110,000.
- As of 2011, there were 239 farms in the region.
- Many of those farms are dairies.
- Farm cash receipts from the district in 2013 were \$23.7 million, with \$13.6 million from dairy production.

Source: www.farminorth.com

"The local food movement in Thunder Bay is huge."

If the Reids' lamb crop is too large for the local market, they ship the animals to processors in Ottawa or Toronto.

Looking forward, Jason and Trudy are hoping to expand their operation to include 100 cows and more ewes.

The opportunity to expand without investing millions is one of the reasons why Jason loves farming in northwestern Ontario and why he promotes the region to young farmers.

Tile-drained cropland near Thunder Bay sells for \$4,000 an acre, but most of the farmland in the region is reasonably priced. Forage acres around Thunder Bay are worth \$700 to \$800 per acre and \$500 will buy an acre of forage land near Dryden, Ont.

"There is huge potential on land that is affordable," he said, adding there's 1,000 acres of farmland in Dryden that's sitting idle.

"That's not bush land. That's farmland that's not used anymore.... The under-utilized (farm) land that is available across northern Ontario will just boggle your mind."

robert.arnason@producer.com

LEGALIZATION

Is marijuana addictive?

SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

Q: My teenaged daughter and I are having an ongoing debate about the use of marijuana. She claims that marijuana is a relatively safe drug for people to use and that the incidence of addiction to it, and the resulting problems from it, are marginal.

I disagree. I think that marijuana, like most drugs, is addictive and that people who use it frequently, can get themselves into serious trouble. I am interested in what you think about sustained marijuana use.

A: I do not think that you can argue that marijuana is not addictive.

Nine percent of those who use it regularly are clearly addicted to it, meaning that they cannot go for any length of time without using it.

That figure jumps to 17 percent if some of those users started marijuana while they were still adolescents.

By way of comparison, think of the problems we might have if nine percent of those who had an alcoholic drink were addicted to it.

Alcohol has its own problems, but its consumption is widespread and is not likely to disable nine percent of those who use it.

In other words, the addictive strength of marijuana is more than your daughter is willing to admit.

One of the problems when trying to understand marijuana is that today's substance is considerably greater than it used to be.

Tetrahydrocannabinol (THC), the main substance in marijuana, has risen to 6.1 percent in strength in 2014 from 3.7 percent in 1990.

That means that the marijuana on the streets is cleaner and more powerful and addictive than it used to be.

The discussions that you and your daughter are having are certainly relevant for today's family.

The federal government is proposing legislation to take the drug industry away from the nefarious underground and create legislation that will provide better guidelines, oversight and regulation.

Marijuana in the stores will likely hit even higher quality grades than what is currently sold on the street. People who use it should be aware that it has a possible addictive potential and should be used with the same self-control you might expect from the casual drinker at a cocktail party.

Hopefully your daughter is cultivating some of that awareness from her discussions with you and will mature into a responsible participant.

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



LEFT: Green tea cream cheese cookies.
ABOVE: Chai madeleines with honey.
BELOW: Lapsong souchong roasted pork ribs. | SARAH GALVIN PHOTOS

UNIQUE FLAVOUR

Tea leaves: steep, soak, smoke or saute

TEAM RESOURCES



SARAH GALVIN, BSHEC

In the Middle East, tea is all about being social, in Japan it is ceremonial, in India it is valued for its Ayurvedic health qualities and in China, historically, it was medicinal.

While most of us think of tea as a beverage, it also has a centuries-old history of being used in cooking. One notable use is tea leaf eggs made for the Chinese New Year. Hard-boiled eggs are lightly cracked all over and then boiled in tea. The result is a marbled colour on the egg after the shell is peeled.

Tea flavours can be imparted in many ways. Smoking food with tea leaves is popular. Add the leaves to the bottom of a wok or other large pan that is very hot. Put the food to be smoked on a rack in the pan and put the lid on. Watch the heat so as not to burn the leaves, but keep them smoking.

After 15 minutes, turn off the heat and cool to room temperature. Use the freshest tea so the best flavour is achieved.

Tea can also be steeped and after cooling is used in adding flavour to baked goods, ice creams, custards, soup stocks or turkey brines.

Tea leaves can also be sauteed in butter to release flavour.

Any type of tea — black, green or herbal — can be used as a flavouring ingredient. It is best to steep the tea first to avoid over-boiling, which will release more tannins and result in bitterness. Brew black teas for four to five minutes and green teas for two to three minutes.

Herbal teas have no tannins so the longer they are steeped the stronger the flavour.

For a strong flavour with black and green teas, use more leaves.

CHAI MADELEINES WITH HONEY

Earl Grey tea with its undertones of bergamot is also a good choice.

5 tbsp.	unsalted butter	75 mL
	plus additional for moulds	
2 tbsp.	loose tea or tea from two tea bags	30 mL
3/4 c.	all purpose flour	175 mL
1/2 tsp.	baking powder	2 mL
	pinch of salt	
2 large	eggs	
1/3 c.	sugar	75 mL
2 tbsp.	honey	30 mL
2 tsp.	vanilla extract	10 mL
1/2 tsp.	finely grated lemon peel	2 mL

Line a small sieve with two layers of damp cheesecloth and set sieve over small bowl. Melt butter in saucepan over low heat. Mix in tea. Let stand 10 minutes, then pour into sieve. Twist cheesecloth tightly around tea mixture, releasing tea-flavoured butter into the bowl.

Sift flour, baking powder and salt into a medium bowl. Using an electric mixer, beat eggs and sugar in a large bowl until thick, about four minutes.

Add honey, vanilla and lemon peel. Beat one minute longer. Gently fold in dry ingredients, then tea-flavoured butter.

Press plastic wrap onto surface of batter. Chill batter at least three hours and up to one day.

Position rack in centre of oven and preheat to 400 F (200 C). Brush 12 three x two-inch (7.6 x 5 cm) madeleine moulds with butter. Dust with flour. Tap out excess.

Place pan on baking sheet. Drop one scant tablespoon (15 mL) of batter into each mould. The batter will spread while baking, filling moulds completely.

Bake madeleines until golden and toothpick inserted into centre comes out clean, about 10 minutes.

Sharply rap pan on work surface to loosen, then turn out onto rack. Serve warm or at room temperature. Adapted from *Bon Appetit*.

MATCHA GREEN TEA CREAM CHEESE COOKIES

Michelle Zimmer is a farmers market vendor in Saskatoon under the name of Wild Serendipity Foods. She is a professional engineer but now follows her passion for cooking. She loves this recipe because the cookies remain soft.

1 c.	butter	250 mL
3 oz.	cream cheese, softened	85 g
1 c.	sugar	250 mL
1	egg yolk	
1 tsp.	vanilla	5 mL
	finely shredded zest of half a lemon	
2 1/2 c.	all purpose flour	625 mL
1 tbsp.	matcha green tea powder	15 mL
	edible gold powder, plus a little vodka or water to brush on (optional)	

Preheat oven to 350 F (180 C).

Cream butter and cream cheese until smooth. Add sugar, egg yolk, vanilla and lemon zest and beat until very smooth.

Stir the flour and matcha together in a bowl until the matcha is evenly distributed without lumps. Add this to the butter mixture and stir until thoroughly combined.

Flatten the dough into two discs, wrap in kitchen cling wrap and chill until firm.

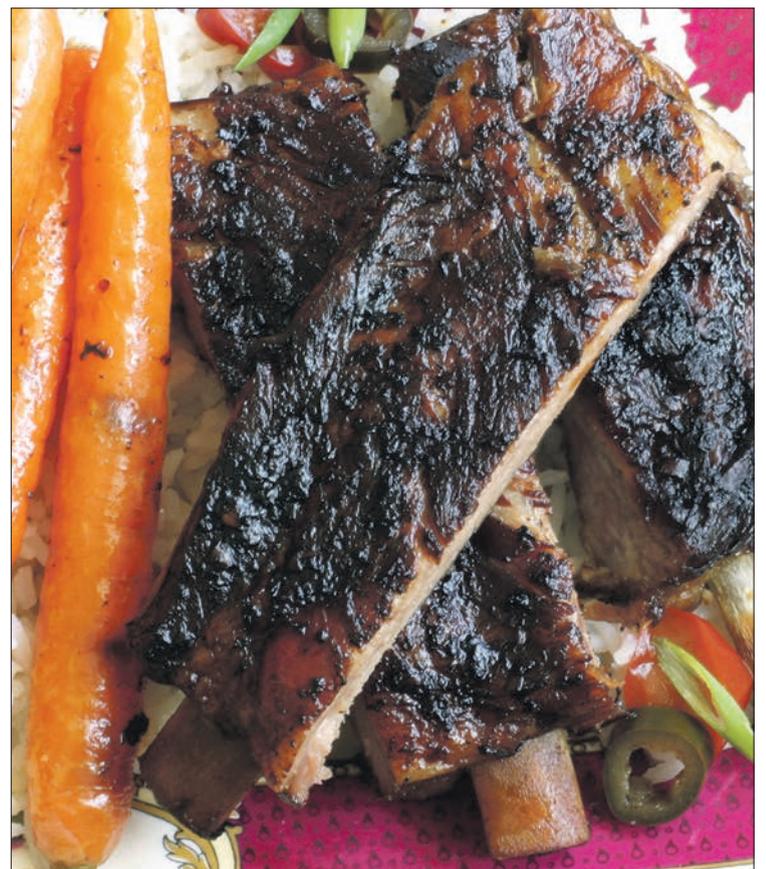
Roll out each disk until about 1/4 inch (6 mm) thick, being sure to flour the work surface and rolling pin.

Sprinkle with more flour if the pin is sticking to the dough or cover it with cling wrap to roll. Cut out in desired shapes.

Bake for about 10 minutes or until lightly browned on the bottom.

For a little holiday sparkle, place a small amount of gold powder, about 1/4 teaspoon (1 mL) in a small bowl. Add roughly the same amount of vodka or water and stir with the brush.

Lightly spatter or brush the cookies with this mixture and allow to



dry.

LAPSONG SOUCHONG ROASTED PORK RIBS

Lapsong Souchong is a black tea that has been smoked over a smouldering pine fire. As a result it has a smoky flavour.

3 tbsp.	sweet paprika	45 mL
1 tbsp.	lapsong souchong tea, ground to a powder	15 mL
3 tbsp.	brown sugar	45 mL
1 tbsp.	black pepper	15 mL
1 tbsp.	garlic salt	15 mL
1 tbsp.	onion salt	5 mL
1 tsp.	ground cumin	5 mL
1 tsp.	dried oregano	5 mL
2 racks	St. Louis style pork ribs	

Place all ingredients in a bowl and use a whisk to mix them together.

Remove ribs from refrigerator at least 30 minutes before roasting.

Prepare the ribs by removing the silver skin, the tough membrane that is on the bone side of the rack of ribs. Cut each into two equal pieces.

Coat both sides of the ribs liberally with the dry rub, then wrap ribs in plastic and refrigerate for at least eight hours and up to 24 hours.

Lightly oil the bottom of a roasting pan.

Place the ribs in a single layer and cover with foil so they are completely sealed.

Bake at 300 F (150 C) for about three hours or until tender. Turn ribs once or twice.

Cool for at least 10 minutes before cutting into individual ribs. Serve with barbecue sauce, if desired.

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.

RED AND WHITE

Celebrate Mother's Day with all things Canadian

SOWING SEEDS



LORNA MCILROY

We are hearing plenty about the Fathers of Confederation this year as we celebrate Canada's sesquicentennial.

However, this weekend our mothers take centre stage as we honour them.

Plants are always a welcome gift for mom, and it can have special significance as we celebrate Mother's Day in the year of Canada 150.

The red and white colour combination of our Canada flag will be popular this year for all floral tributes, whether they be bouquets, hanging baskets, planters or flower beds.

Red and white geraniums, zinnias and petunias will love the sun while begonias and impatiens will illuminate the shade. The ambitious might design a Canada 150 bed for mom in the style of the Canada 150 logo.

A hardy Canadian-bred rose is a meaningful gift for mom. The new 2017 release, Canadian Shield from Vineland Nurseries, is an excellent choice with its bright red succession of blooms. Other good reds are Champlain, Adelaide Hoodless, Henry Kelsey, Hope for Humanity, Morden Cardinette, Morden Fireglow, Morden Ruby, Quadra, Winnipeg Parks, Alexander Mackenzie and Cuthbert Grant.

For hardy white roses, consider Morden Snow Beauty, Henry Hudson, Kakwa or Marie Bugnet.

For smaller quarters, red or white miniature roses are a good choice, and they are amazingly hardy when planted outdoors.

Many moms would appreciate a maple tree to commemorate their special day in this special year. The maple has been Canada's arboreal emblem since 1996 and there are maples that are hardy for each



TOP: Plan to plant Dutch-Canadian Friendship tulips next fall.

LEFT: A truly Canadian centrepiece is made with succulents.

ABOVE: The Canadian Shield rose was released this year.

| LORNA MCILROY PHOTOS

Canadian province and territory.

For zones 2 and 3, consider Amur Maple Acer ginnala or Rick Durands' Ventura Hybrid maple.

With visions of cherry pie, we might give Mom a cherry tree.

Choose cultivars from the University of Saskatchewan's Romance series or the Evans cherry.

If apple pie is your dream, many hardy cultivars are available. My favourites would be Norland, Goodland and September Ruby.

If circumstances of distance or location do not allow giving a live plant, consider a gift card to a local garden centre or a ticket to a local garden show or tour.

Alternatively, a garden book such as Sara William's *Creating the Prairie Xeriscape* or Lyndon Penner's *Native Plants for the Short Season Yard* will be appreciated.

After reading Penner's book, one might want to plant the floral emblems of Canada this year, but

that could be problematic. Yukon's fireweed and the prickly wild rose of Alberta will thrive in your garden but will take over the premises. The western red lily of Saskatchewan is beautiful but difficult to grow and definitely should not be transplanted from the wild. The story is similar for the prairie crocus of Manitoba.

After 102 years on earth, my mother's ashes are buried in a country cemetery and I am plan-

ning a special planting at her gravesite for Canada 150.

If you have similar plans, be cognizant of cemetery planting regulations to avoid any disappointment.

Finally, happy Mothers' Day to my mother-in-law, who is 99 years old. Hopefully she will enjoy her red and white miniature roses.

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

LOWER BACK PAIN

Back pain may improve with time; anti-inflammatory drugs

HEALTH CLINIC



CLARE ROWSON, MD

Q: I have had a sharp pain in my lower back when I go from a sitting position to a standing position. I don't remember exactly how it happened but I have been lifting a lot of logs for firewood recently. It feels better when I lie down or stand. It seems to be getting better slowly as I have had it for about 10 days.

How long should I wait before going to see a doctor? I don't have

any problem or numbness in my legs, so I don't think it is a disc.

A: Back pain is the third most common reason for visiting the doctor, after colds and flu. Almost everyone will have an episode in his lifetime.

As the lower back supports most of your body weight, this is a common site of injury to the muscles or ligaments in the area.

The acute pain is mostly caused by muscle spasms when you change position or if you have been sitting in one place for a long time.

It was probably lifting that has caused your injury but sometimes it is not obvious until a few hours or a day later.

Lifting and bending forward at the same time such as getting something heavy out of the car is a

common cause of back injury.

You should try and make sure that your centre of gravity is above your feet when lifting heavy objects and use your leg muscles as much as possible.

I doubt if you have a herniated or prolapsed disc because it usually leads to pain in the legs or some difficulty in walking or standing.

Slipped disc?

A simple test is to lie flat on your back and try and raise each leg in turn, holding it as straight as possible. If this manoeuvre gives you a sharp pain in the leg or back, then it could be a disc problem.

There are some other more serious causes of acute back pain that should be considered.

They include a compression frac-

ture of the vertebrae, usually due to osteoporosis or brittle bones.

Spinal stenosis is a narrowing of the spinal canal causing pressure on the spinal cord. This is often the result of an old injury or arthritis in the affected area.

Almost every older adult has some degree of arthritis in the spine but in most cases there are no symptoms, even though abnormalities may show up on an X-ray.

Abnormal curvatures of the spine may also lead to back pain. They are usually inherited conditions such as scoliosis or kyphosis, which are most often diagnosed and corrected in children and teenagers.

Sometimes lower back pain is not related to the spine but to internal problems such as an aortic aneurysm or kidney infections and stones.

In women, it could be caused by medical conditions affecting the female reproductive system.

Unless you have had back pain for four weeks or more or if you have leg symptoms, doctors assume most cases of back strain will improve within that time frame.

You can shorten the healing time by initially using ice on the affected area to reduce inflammation, and later a heating pad.

Common anti-inflammatory medications such as ibuprofen or Aspirin will help. Do not exercise for about a week, and then try some back stretching exercises.

Some doctors might also refer you for physiotherapy to help you to get better faster.

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

EARLY BIRD



Fields were dry enough for a farmer in the Baldur, Man., area to cultivate April 28. | JEANNETTE GREAVES PHOTO

AG NOTES

BUSINESSES GET FUNDING

Small and medium sized businesses will receive \$1.84 million in federal funding to help them grow and thrive.

The money will go to 75 small to medium size food businesses to promote their products and develop export markets abroad.

For example, more than \$390,000 was committed to 16 small-to-medium sized businesses in Quebec, including more than \$44,000 for Trans-Herbe Inc. to help showcase and promote its teas to international markets.

Small to medium enterprises under the AgriMarketing Program are producers and processors operating in the agriculture, agri-food and fish and seafood sectors.

They must be directly involved in growing, harvesting, processing or otherwise adding value to agricul-

tural products and have fewer than 250 employees and no more than \$50 million in annual sales.

NEW MANAGERS SELECTED

EW Nutrition has named Joseph Bruce as the senior key account manager and Mark Johnson as the senior swine key account manager.

Bruce brings more than 25 years of experience in the field and will be responsible for product sales to the U.S. poultry and swine industries. He was previously with Miller Poultry.

Johnson also has decades of experience and will be responsible for product sales to the swine industry in the United States, focusing on swine integrators and feed manufacturers. He was previously with Kent Feeds.

OLDS' LAND AGENT PROGRAM ACCEPTING STUDENTS

Olds College's land agent program will again accept first year students this fall. The program didn't accept students last year because of the struggling economic climate in Western Canada.

However, the college's land agent industry advisory committee has identified the need for the program to return and produce skilled, qualified graduates.

Land agents work with industry, government and landowners to negotiate the terms of acquiring land for infrastructure such as highways, well sites, pipeline routes and alternate energy sites.

The college has been running the program for more than 35 years.

CLEAN TECHNOLOGIES PROJECT RECEIVES FUNDING

The Manitoba government is investing \$1.9 million for a project with the University of Manitoba to study strategies for reducing greenhouse gases on Canadian cattle farms.

The research project is part of the \$27 million, five-year Agricultural Greenhouse Gases Program intended to help the agricultural sector adjust to climate change and improve soil and water conservation by developing new farming practices and methods.

The program covers four areas: livestock systems, cropping systems, agricultural water use efficiency and agro-forestry.

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RED INDIAN OIL sign pole, \$2800; B-A or Gulf sign pole, \$850; Husky Oil sign, \$1400. 306-269-7740, Foam Lake, SK.

ANTIQUE VEHICLES 0705

WANTED ANTIQUE AMERICAN motorcycles and parts. Canadian motorcycle collector looking for project American built motorcycles pre-1960. If you have an old bike, or maybe just a pile of parts and you're not sure what you may have, I can help identify/value what you have. Call 306-221-7835 or email: w.halabura@sasktel.net

WANTED: 1920- 1940 old Ford car bodies and parts. Also wanted old gas pumps and signs. 306-651-1449, Saskatoon, SK.

WHAT'S in the barn or out back in the bush? Wanted: 1969 Coronet 500, 2 door that hasn't been used in a long time. Call 306-536-6693, Sedley, SK.

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

1957 FORD 4 dr. hardtop; 1960 Pontiac; 1949-1951 GM 1/2 tons; 2 Mark V Lincolns. 306-398-2559 lv msg, Cut Knife, SK.

WANTED: 1920's, 30's or 40's coupe or roadster projects; 1958 Pontiac Parisienne or Chevy Impala projects. 306-824-4711.

ANTIQUE Misc. 0710

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

WANTED: VOLKSWAGEN van/truck, pre-1967; Also antique signs, gas pumps, oil cans etc. 306-222-7376, Warman, SK.

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

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200 LONG PLAY records, plus Andy Dejarlis collection; 4 dozen 45's; Also speakers & amps. 204-673-2544, Waskada, MB.

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SAT, JUNE 3, 2017 - 10:00A.M.

Farm Auction for Marlo & Lynda Iverson, Outlook, Sk. 10 m. N. of Junction of Hwy. 15 & 219, 1/2 m. W. on Sask River Church Road. Full line of older farm equipment, haying equipment, tools & shop items.

SAT, JUNE 10, 2017 - 10:00A.M.

Farm Auction for Brian & Betty Latsay, 5 m. E. of Mildon, Sk. on Hwy. 15, 4 m. S. on Pump Station Road, 1 m. W., 1/2 m. S. 1977 JD4630 tractor w/2500 original hours, JD3010 w/FEL, 1979 Case 2290, full line of older equipment, livestock equipment, tools.

SAT, JUNE 17, 2017 - 10:00A.M.

Annual Equipment Consignment Auction, 1/2 m. W. of Davidson, Sk. Tractors, trucks, farm equipment, tools & shop items. Open to consignments.

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BILL CASE VINTAGE EQUIPMENT & Antique Auction, Roblin, MB. Saturday May 20th, 2017 at 10:30AM. Featuring: John Deere "A"; John Deere M; Case model D; John Deere "D", on steel rears; McCormick Deering 22/36; 1959 Ford Power Major; 3 PTH and semi-mount implements; 7' 3PTH blade; Bush Hog rough mower 6'; 7' JD Semi-mount mower; 10' 3 PTH Massey cultivator; Ferguson 2 bottom plow; Finishing mower 5' 3PTH; 3PTH Massey Harris mower 7'; New Holland 1002 PT Stackliner bale pickers; Westfield W 70-36 grain auger w/Kohler motor; JD "96" PT combine; John Deere 65 combine; Versatile #10 PT swather w/canvas, self-contained hydcs.; New Holland #56 side delivery rake; JD #11 mowers 7' bar; #10 Massey Ferguson square baler; #12 MF square balers; IH 100 press drill seeder 16'; 10' and 14' IH cultivators; 488 Polaris Indy Trail snowmobile; Mark 11 440 Boa Ski; Arctic Cat Jag. 3000; Wide track GT Polaris; 14' Lund boat w/9.9 Johnston motor, seats and trailer; Harley Davidson golf cart; Case 210 garden tractor w/tiller; JD 112 lawn tractor; Many collectible items, toys, stationary engines, vehicles, and livestock related equipment. Brought to you by Garton's Auction Service, Dauphin, MB, 204-648-4541. For full listing visit: www.gartonsauction.com

MCSHERRY AUCTION, Don Cheslock Sale, Tuesday May 16th, 5:00 PM, St. Andrews, MB. Jct 67 and 8, north 2 miles, then 1 1/2 miles east on Cloverdale Rd. Contact 204-485-6292. Featuring 2008 C1H JX1100U Cab MFWA, PS, 3PH, FEL, mint cond., 1297 hrs. Stuart McSherry, 204-467-1858 or 204-886-7027, www.mcsberryauction.com

ESTATE OF MIKE GRISDALE SR. Online Only Auction Sale on May 17th, 9 AM, Pike Lake, SK. Antiques, tools and collectibles. 2002 GMC ext. cab truck; Yamaha Big Bear 350 quad; 8N Ford tractor, plus much more. 800+ items listed. Bid and buy at www.bodnarusauctioneering.com or call 306-975-9054.

ANNOUNCEMENTS 0200

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JANSEN & DISTRICT Homecoming 2017, June 30-July 2, 2017. For info. and registration go to www.jansen.ca or Jansen Homecoming on Facebook. Deadline to register May 28th.

PROFITABLE PAINTING, SANDBLASTING & foam business for sale in Shaunavon, SK. Owner retiring. Profitable location in oil & agricultural. Good mobile equipment, \$650,000. 306-526-9382, 306-297-7299, Larryhesterman@myaccess.ca

ANTIQUES

ANTIQUE AUCTIONS 0701

ANTIQUES & COLLECTIBLES Consignment Auction, Saturday May 20, 10:00 AM, 801 Buxton St. Indian Head, SK. Viewing: 5-7, Friday, May 19. Visit website for items coming in daily. To consign, call Brad at 306-551-9411, www.2sauctioneers.ca PL#333133

LARGE ANTIQUE, COLLECTOR CAR & TRACTOR AUCTION. Friday June 9th & Sunday June 11th - Redwater, AB. Over 100 Vehicles & Tractors booked. View online at: www.prodanikauctions.com

ANTIQUE EQUIPMENT 0703

1945-46 MASSEY HARRIS 81, 90% restored, \$3500 OBO. 306-577-7304, rl.charles@sasktel.net

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1930 COCKSHUTT 10' horse drawn seed drill for restoration or parts. For more info call 403-318-8135, Delburne, AB.

3 JOHN DEERE TRACTORS: 730D, 830D, 820D; Minneapolis Moline R. All tractors running. Ph. 780-349-2466, Westlock, AB.

2 OLIVER 88 TRACTORS, 1 tractor in running cond., 1 always under roof. Copy of manual avail., both good cond., \$1500 firm for both. 780-372-3834, Bantshaw, AB.

WANTED: LATER JOHN DEERE 820 tractor with black dash, preferably running. Call 780-205-4968, Lloydminster, AB.

MASSEY PONY TRACTOR, engine stuck, \$750; JD M tractor in good running cond., \$3000. 780-871-4300, Lloydminster, SK.

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Unreserved Public Auctions

Regina, SK & Brandon, MB

May 25 (Thursday) | June 1 (Thursday)

NEW EVENTS



Volvo G720B – Regina



2012 Hyundai HL780-9 – Brandon



2011 John Deere 160D LC – Regina



2012 John Deere 250G LC – Brandon



John Deere 544J – Regina



2008 John Deere 850J – Brandon



2008 John Deere 310SJ 4x4 – Regina



Boliden-Allis Sandvik H3000 Hydrocone – Brandon



Kenworth T2000 – Regina



Elrus 53 Ft – Brandon



Kenworth T800B w/Westec 3280 Gallon – Regina



2009 Haulotte HTL9045 9000 Lb 4x4x4 – Brandon

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TRUCK PARTS: 1/2 to 3 ton, new and used. We ship anywhere. Contact Phoenix Auto, 1-877-585-2300, Lucky Lake, SK.

AUTO/TRUCK PARTS 1100

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SOUTHSIDE AUTO WRECKERS located in Weyburn, SK. 306-842-2641. Used cars parts, light truck to semi-truck parts. We buy scrap iron and non-ferrous metals.

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VS TRUCK WORKS Inc. Parting out GM 1/2 and 1 ton trucks. Call 403-972-3879, Alstask, SK. www.vstruckworks.com

WRECKING LATE MODEL TRUCKS: 1/2, 3/4, 1 tons, 4x4's, vans, SUV's. Cummins, Chev and Ford diesel motors. Jasper Auto Parts, 1-800-294-4784 or 1-800-294-0687.

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SCHOOL BUSES: 20 to 66 passenger, 1991 to 2007, \$2300 and up. 16 buses in stock! Call Phoenix Auto, Lucky Lake, SK. 1-877-585-2300. DL #320074.

3 MCI 102, 47-49 passenger, GM power, auto. trans. charter buses for sale. 306-398-2559 leave msg., Cut Knife, SK.

CARS 1400

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TRAILERS

GRAIN TRAILERS 1505

PRAIRIE SANDBLASTING & PAINTING. Trailer overhauls and repairs, alum. slopes and trailer repairs, tarps, insurance claims, and trailer sales. Epoxy paint. Agriculture and commercial. Satisfaction guaranteed. 306-744-7930, Saltcoats, SK.

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2008 & 2009 DRAKE grain trailers, 40' tri-axles, 2 hopper, fresh safeties. New tarps, paint, tires, drums, slack adjusters, air bags, shocks, etc., \$36,000/each. Phone Myles 306-745-6140, 306-745-7530 (cell), Esterhazy, SK.

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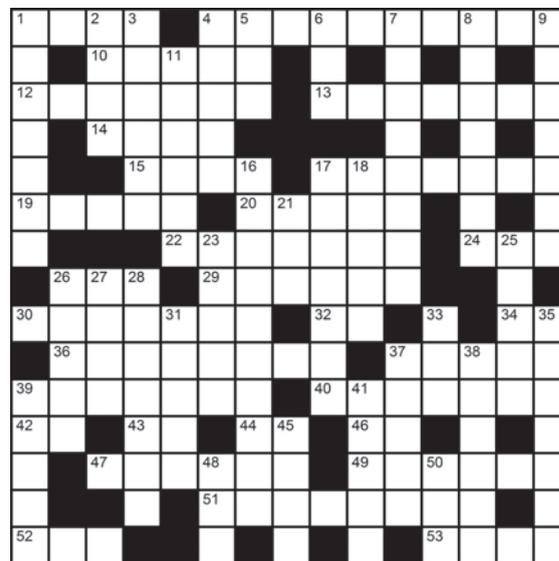
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Entertainment Crossword by Walter D. Feener



Last Weeks Answers

- ACROSS**
- All Roads ___ to Rome
 - She starred in *Knock Knock* with Keanu Reeves (3 words)
 - Marwood Zoo manager in *Fierce Creatures*
 - Lucien's last name on *Forever Knight*
 - Tequila and ___* (1992 TV series)
 - Lost Girl* character
 - ___ De Laurentiis
 - TV series Anne Hathaway and Jesse Eisenberg starred in (2 words)
 - Shoot 'Em Up*
 - German actor Buchholz
 - The World's Greatest ___*
 - Lou's sister on *Heartland*
 - Actress Tyler
 - He played Patrick Chandler in *Manchester by the Sea*
 - Casino where *Casino* was filmed
 - Initials of one of the stars of *Hidden Figures*
 - Woodside of 24
 - ___ *Parador* (2 words)
 - A shooting location for *Lumumba*
 - He starred in *Earth vs. the Flying Saucers*
 - Boiler Room* director
 - ___ *Awfully Big Adventure*
 - Initials of the actress who played Abby Mills on *Harper's Island*
 - Initials of the actress married to Keith Urban
 - Lon Chaney No. 1
 - Norma Shearer's sister
 - Broken Arrow* co-star
 - 1938 Academy Award nominee for *You Can't Take It with You*

- He played Ronnie, Kale's best friend in *Disturbia*
 - Bridget Jones's ___*
- DOWN**
- Bull Durham* pitcher
 - Hall who starred in *Eegah*
 - EI ___*
 - My Stepmother Is an ___*
 - A fairy-like people on *Stargate SG-1*
 - Ray Barone's wife, for short
 - O'Toole and Bening
 - Actress Fedor from British Columbia
 - Partridge Family* patriarch
 - Film starring Jeremy Irons and Melanie Griffith
 - ___ *Dog* (2 words)
 - Harrison or Peck
 - Kapture's co-star on *Silk Stalkings*
 - ___ *School*
 - ___ *Momma from the Train*
 - The Treasure of the Sierra ___*
 - Edge of Tomorrow* director
 - Dean of *The Saint*
 - Beane of *The Flash*
 - He played Wes on *How to Get Away with Murder*
 - Friend on *Friends*, to friends
 - She played Sorina Luminita in *Pain & Gain* (2 words)
 - ___ *Offerings*
 - The Night of the ___*
 - Actor Patinkin
 - August: ___ County*
 - Actor Dullea
 - ___-Wan Kenobi
 - 1981 Blake Edwards film

GRAIN TRAILERS 1505

2015 AHV LODE-KING aluminum Super B hoppers, extra light pkg., round stainless fenders, current safety, excellent 11R22.5 tires w/aluminum wheels, exc. cond., no air lift or elec. tarps. 4 sets avail., \$90,000 each OBO. 1-866-236-4028, Calgary, AB.



BERG'S END DUMP grain trailers w/Berg's signature quality finish. Ph for Pricing specials and 30 day trials. Berg's Grain & Gravel Body 204-325-5677, Winkler, MB

NEW WILSON and CASTLETON tridems and Super B's. 2008 tandem Lode-King; 1996 Castleton tridem, 2 hopper, spring ride; 2014 Wilson Super B; 2005 Lode-King Super B. Ron Brown Imp. DL #905231. 306-493-9393. www.rbisk.ca

2001 CANCADE TRI-AXLE, 3 hoppers, good condition, safetied in January, newer tarp, \$25,000. 204-851-0284, Kenton, MB.

LIVESTOCK TRAILERS 1510



2017 BISON TRAILHAND, 3-horse, 8' LQ #H206096. Was \$47,900. Now \$42,900. AMVIC Lic. Dir. Call 1-844-488-3142 or shop online 24/7 at: allandale.com



NEW WILSON BUMPER PULL MODEL Desert Sales Inc. now stocks the Wilson Ranch Hand bumper pull. With over 15 years of sales and service, we will not be undersold. Bassano, AB., 1-888-641-4508. www.desertsales.ca

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2017 SUNDOWNER 24' all aluminum stock trailer, #H1KB5137. Reg \$27,291, Special \$22,750. 3 compartments. Edmonton/Red Deer. Call 1-866-346-3148 or shop online 24/7 at: allandale.com



2017 FEATHERLITE 7'x24', #HC143380. Reg: \$35,235, Sale: \$26,500. 3 Compartments. Edmonton/Red Deer, AB. Call 1-866-346-3148 or shop online 24/7 at: allandale.com

1989 TANDEM CATTLEPOT, 48x8.5', good cond., safetied to Oct. 2017, \$17,000 OBO. 204-655-3352, 204-655-3286, Sifton, MB.

2009 MERRITT HOG trailer, 53', 4 deck, new safety. 403-625-4658, Claresholm, AB

2 WILSON CATTLEPOTS: 53' tri-axle, 1996; 48' tandem, 1999, good cond., w/safety. Fat-trailers. 403-740-4837, Endiang, AB.

Misc. TRAILERS 1515

24' GOOSENECK 3-8,000 lb. axles, \$7890; Bumper pull tandem lowboys: 18', 16,000 lbs., \$4750; 16', 10,000 lbs., \$3390; 16', 7000 lbs., \$2975, 8000 lb Skidsteer, \$1990 Factory direct. 1-888-792-6283. www.monarchtrailers.com



NEW 2017 GERMANIC R20-2800 tandem scissor frame tub style end dump, 28'x102", air ride, hyd. lift gate, 11R22.5 tires, steel wheels, electric tarp, new Manitoba safety, can deliver, \$48,000. 204-743-2324, Cypress River, MB.

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

1995 KALYN TA pintle hitch trailer, \$6700 plus GST. 403-651-8407, High River, AB.

2004 LODELIN gravel trailer \$30,000; 2001 Doepker grain trailer \$27,000; 2009 Doepker end dump gravel trailer \$40,000; 2011 Doepker step deck trailer \$37,000. 306-487-7799 306-487-2633 Lampman SK

Misc. TRAILERS 1515

DOEPKER 32x32' HI-BOY Super B's completely refurbished, over dimensional lights, Beacons, safetied, w/w IH Eagle. Ph Hay Vern 204-729-7297 Brandon, MB.



1995 BEDARD 8000 gal. 3 compartment tanker, 3" pump, air ride, new MB safety, \$22,000, can deliver. Call 204-743-2324, Cypress River, MB.

2 TRAILMASTER 25,000 litre 4 axle tank trailers. Offers. Phone 306-482-5121, Carnduff, SK.

2009 BWS EZ-2-LOAD, step deck, 48' with 5' air controlled loading ramp, 9.5' deck width, triple axle, dual wheel, new certification. 780-482-5273, Edmonton, AB., group.6@outlook.com

100 MISC. SEMI TRAILER FLATDECKS/stepdecks, \$2500 - \$30,000. 10 heavy lowbeds, \$10,000 - \$70,000; Belly & end dumps and alum. tankers. 306-222-2413, Saskatoon, SK. www.trailerguy.ca

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4 WILSON STEPDECKS 53' all aluminum trailers, front sliders for sale or lease. Phone 306-861-9362, Carlyle, SK.



NEW 2017 GERMANIC R20-3500 tri-axle end dump, 36'x102", air ride, 11R22.5 tires, alum. outside wheels, manual flip tarp, new MB safety, can deliver, \$56,000. 204-743-2324, Cypress River, MB.

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FIBERGLASS ENCLOSED TA trailer; 4 Place TA 21' livestock trailer, no rust. 306-398-2559, leave msg., Cut Knife, SK.

DETACHABLE LOWBED: TA, beavertail, \$14,000; Belly dump: gravel tandem, air opening, \$14,000. 306-940-6835

2000 KALYN 48' stepdeck, slides out to 60', low pro. tires, \$16,500. Other trailers available. Call 306-563-8765, Canora, SK.

TRUCKS

NEWEST TO OLDEST 1595



2009 F250 SUPERCAB 6.4 dsl, A/T/C, only 180,000 kms, w/ fleet unit \$20,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK



2006 CHEV 1500, longbox, V6, AC, 198,000 kms., one owner, exc. cond., \$6250 OBO. 639-998-8522, Saskatoon, SK.

2004 FORD F-350 Super Duty, 1 ton, diesel, standard, longbox, 297,000 kms, vg cond., \$6595 OBO. 306-526-3810, Regina, SK.

1997 CHEV 1500, 3 door, 4x4, runs good, some rust, 465,000 kms, asking \$3495 OBO. Gary 306-823-4493, Neilburg, SK.

GRAIN TRUCKS 1675

1978 GMC 6500 tandem, 366 gas, 5&4 trans., 18' B&H, roll tarp, with remote hoist and endgate, \$6500 OBO. 403-820-0145, Drumheller, AB.

GRAIN TRUCKS 1675

1979 FORD 9000, tandem, 671 Detroit, c/w 22' steel B&H, \$12,500. 780-679-7795, Camrose, AB.

2007 MACK, 10 speed Eaton auto., new 20' CIM B&H, 380,000 kms., fresh Sask. safeties. Call 306-270-6399, Saskatoon, SK. www.78truxsales.com DL #316542.

2008 WESTERN STAR, Eaton AutoShift, new 20' B&H elec. tarp; 2008 IH 7600 tandem, ISX Cummins 10 spd., new 20' BH&T; 2007 Peterbilt 330 S/A, Allison auto., new 15' BH&T; Ron Brown Imp. 306-493-9393, DL #905231 www.rbisk.ca

2009 MACK CH613, MP8 Mack eng., 430 HP 10 spd., AutoShift, 463,000 kms, exc. shape, new 20' box, A/T/C, \$73,500; 2009 IH Transtar 8600 w/Cummins eng. 10 spd., AutoShift, new 20' BH&T, 742,000 kms, exc. tires, real good shape, \$69,500; 2007 IH 9200, ISX Cummins, 430 HP, AutoShift, alum. wheels, new 20' BH&R, fully loaded, 1,000,000 kms, real nice, \$67,500; 2009 Mack CH613, 430 HP Mack, 10 spd., AutoShift, new 20' BA&T, alum. wheels, 1.4 million kms, has bearing roll done, nice shape, \$69,500; 2007 Kenworth T600, C13 Cat, 425 HP 13 spd., AutoShift, new 20' BH&T, alum. wheels, new paint, 1.0 million kms, exc. truck, \$71,500; 1996 Midland 24' tandem pup grain trailer, stiff pole, completely rebuilt, new paint and brakes, exc. shape, \$18,500; 1999 IH 4700 S/A w/17' steel flatdeck, 230,000 kms, IH dsl., 10 spd., good tires, \$19,500; 1998 Freightliner tractor, C60 Detroit, 430 HP 13 spd., alum. wheels, sleeper, good rubber, \$17,500; 2005 IH 9200 tractor, ISX Cummins, 430 HP 13 spd., alum wheels, flat-top sleeper, good rubber, \$22,500. All trucks SK safetied. Trades considered. All reasonable offers considered. Arborfield SK. DL 906768. Call Merv 306-276-7518 res., 306-767-2616 cell.

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CAB AND CHASSIS: 2010 Chev 3500 1 ton dually, will take 10'-12' deck, 6L gas, 195,000 kms., fresh Sask. safety, \$8900; 2000 Sterling tandem, 435 HP Cat, 10 spd. trans, will take 20' box, extremely low kms, \$19,900. Call K&L Equipment, 306-795-7779, Ituna, SK. DL #910885. ladimer@sasktel.net

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GRAVEL TRUCKS 1676

2012 IHC TRANSTAR, low pro, Max 300 HP diesel Allison auto. trans., single axle, loaded cab, 13' Armstrong landscape dump, \$39,900; 2006 CHEV 1 TON dump truck w/10' gravel dump, \$14,900. K&L Equipment and Auto. Call Ladimer, 306-795-7779, Ituna SK. DL #910885.

2013 MACK CHU613 Pinnacle, 505C, 18 spd., 14 front/46 rear axles, 15' Renn box, 175,000 kms, equipped for pup, elec. tarp, Webasto heater, alum. rims, \$100,000 OBO. 306-731-7266, Straburg, SK.

ATTENTION GRAVEL HAULERS: 6 tandems in stock, 1998-2007; 2013 Cascade tri-axle end dump; Tri-axle 18' Dump, Yellowhead Sales, 306-783-2899, Yorkton, SK

SEMI TRUCKS 1677

1981 IHC F2574 671 13 spd., 240 WB, 20' B&H c/w silage gate, \$22,000. During the day, call 403-932-2131, Cochrane, AB.

1989 IH EAGLE, 425 CAT, 3406 engine, 5th wheel, 24.5 alum. buds, white, \$16,500. 306-960-3000, St. Louis, SK.

2012 MACK CHU613 Pinnacle, 505C, 18 spd., 14 front/46 rear axles, 15' Renn box, 175,000 kms, equipped for pup, elec. tarp, Webasto heater, alum. rims, \$100,000 OBO. 306-731-7266, Straburg, SK.

2012 IHC TRANSTAR, low pro, Max 300 HP diesel Allison auto. trans., single axle, loaded cab, 13' Armstrong landscape dump, \$39,900; 2006 CHEV 1 TON dump truck w/10' gravel dump, \$14,900. K&L Equipment and Auto. Call Ladimer, 306-795-7779, Ituna SK. DL #910885.

2013 MACK CHU613 Pinnacle, 505C, 18 spd., 14 front/46 rear axles, 15' Renn box, 175,000 kms, equipped for pup, elec. tarp, Webasto heater, alum. rims, \$100,000 OBO. 306-731-7266, Straburg, SK.

2012 MACK CHU613 Pinnacle, 505C, 18 spd., 14 front/46 rear axles, 15' Renn box, 175,000 kms, equipped for pup, elec. tarp, Webasto heater, alum. rims, \$100,000 OBO. 306-731-7266, Straburg, SK.



1994 FREIGHTLINER TANDEM, Big Cam Cummins, 9 spd., PTO, hyd., needs TLC, \$3950 OBO. 639-998-8522, Saskatoon, SK.

1995 WESTERN STAR Conventional w/2007 tri-axle GravHaul end dump trailer, \$38,000 plus GST; 1994 Mack CH613 w/1990 Midland TA endump, \$13,000 plus GST. 403-651-8407, High River, AB.

2003 VOLVO 670, premium truck, 1SX-450 Cummins, 10 spd., 12,500 front, 40,000 rear, 24.5 alum. wheels, 4:11 ratio, 944,000 kms. 780-608-5110, Camrose, AB.



2006 FREIGHTLINER COLUMBIA, single axle, 455 HP Detroit 60 series, 10 spd., 470,000 kms., fresh safety, \$25,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK

2006 WESTERN STAR, Series 60 Detroit, 18 spd. trans., 46 rear, 450,000 kms, \$7,000 work order, fresh CVIP, \$39,000. 780-983-0936, Clyde, AB.

SEMI TRUCKS 1677



2010 PETERBILT 367 Daycab, 485 HP Cummins, 18 spd., Super 40's, 365,000 kms., fresh safety, \$62,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2011 KENWORTH T800 550ISX, 18 spd., 3.91, Super 40s, GPS, full lockers, 814,000 kms., \$58,900. 306-921-7721, Melfort, SK.

2011 PETE 386 550ISX, 18 spd. 40 rear, lockers, leather, loaded, 874,000 kms, \$55,500, 306-921-7721, Melfort, SK.



2011 VOLVO 730, 77" mid-roof, Volvo D16-550 HR 18 spd. trans., Super 40's, as is, \$44,900. 204-761-7797, Brandon, MB.



2012 MACK PINNACLE CXU613, 34" flat-top sleeper, removable roof fairing, Mack MP8, 455 HP Eaton 13 spd trans, safetied, \$36,900. Norm 204-761-7797 Brandon MB

2013 MACK RAWRIDE, auto. trans., heavy rear end, 505 HP c/w 2015 Etnyre Black Hawk equipment trailer, 10'W, tandem lift axles, alum. wheels, pullouts, Great for Farm Dealership. Sell as unit or separately. Call 780-720-4304, Willingdon, AB.

2016 VOLVO 670 w/warranty; 2014 730, D16 eng., 18 spd.; 2012 Volvo 630, D16 engine deleted. 204-466-2927, Austin MB

TITAN TRUCK SALES

204-685-2222

For Full Details on all available trucks please visit www.titantrucks.com

2012 Kenworth W900L 692,330KM.....	\$74,000
2012 Kenworth W900L 743,820KM.....	\$74,000
2012 Kenworth W900L 922,081KM.....	\$70,000
2014 Mack CXU613 454,332KM.....	\$69,000
2012 Peterbilt 389 1,050,071KM.....	\$69,000
2012 Kenworth W900B 809,364KM.....	\$64,000
2012 Kenworth W900B 826,742KM.....	\$64,000
2012 Kenworth W900B 832,553KM.....	\$64,000
2012 Kenworth W900B 967,403KM.....	\$64,000
2012 Kenworth T800 663,408KM.....	\$59,000
2012 Kenworth T800 686,870KM.....	\$59,000
2012 Peterbilt 386 754,325KM.....	\$48,000
2012 Peterbilt 386 786,549KM.....	\$48,000
2012 Kenworth T660 816,785KM.....	\$47,000
2013 Kenworth T800 930,364KM.....	\$45,000
2011 Freightliner Cascadia 848,912KM.....	\$45,000
2011 Freightliner Cascadia 740,848KM.....	\$45,000
2010 Freightliner Cascadia 798,765KM.....	\$39,000
2010 Freightliner Cascadia 986,500KM.....	\$39,000
2009 Mack CXU613 545,646KM.....	\$35,000
2009 Mack CXU613 943,564KM.....	\$29,000
2009 Mack CXU613 963,499KM.....	\$26,000
2009 Mack CXU613 1,001,309KM.....	\$26,000
2009 Mack CXU613 1,039,081KM.....	\$26,000
2009 Mack CXU613 1,145,731KM.....	\$26,000

SEMI TRUCKS 1677

2015 WESTERN STAR 4900 FX daycab, DD16, 189188, 46,000 Rockwells, 4-way lockers, Airliner suspension, Airway scales. 11x24.5 tires on alum. at 95%. Split fuel tank, 310,000 kms, 5800 hrs., Transferable Virtual Technician, c/w logging headache rack, \$105,000. Available w/2016 Peake tri-axle log trailer, 6-9.6 bunks, quad axle compatible, 12x22.5 tires on alum. at 70%. Used 2 winters \$55,000. Will sell complete unit for \$150,000. Scott 306-747-9322, Tom 780-713-5967, Shellbrook, SK.

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THE WESTERN PRODUCER CLASSIFIEDS

PRODUCER.COM

KENWORTHS: 2008, 2007 T800. 500 Cat 18 spd., 46 diff. walkers; 2009 T660, new pre-emission, 525 ISX, 18 spd., 46 diff. lockers; 2008 T800 daycab, 500 Cat, 18 spd., lockers, new clutch and trans.; 1996 T800, Cat, 13 spd., rebuilt trans., diffs and injectors; 2006 Pete 379, daycab, 500 Cat, 18 spd., lockers, new rebuilt engine, new clutch; 2005 Mack CH613, 18 spd, lockers, wet kit, 450,000 kms; 2- 1996 FLD 120 Freightliners, 425 Cat, 430 Detroit, lockers. Ron Brown Implements, Delisle, SK., phone 306-493-9393. DL #905231 www.rbisk.ca



REPOSSESSED 2012 IH Prostar, only 134,000 original kms, 18 spd., super extra clean, no damage; Also 2007 Western Star 4900, Mercedes 460, 18 spd., full lockers. Email: bailiffservices@sasktel.net

SANDBLASTING AND PAINTING of heavy trucks, trailers and equipment. Please call for details. Can-Am Truck Export Ltd., 1-800-938-3323, Delisle, SK.

TWO INTERNATIONAL LONESTAR "Harley-Davidson Edition's" 1- 2010, 828,403 kms, 18sp 3:70, 40m axle, Cummins 525, engine R-R at 206,510, Roo Bumper, H/A rack \$72,000; 2- 2011, 1,101,487 kms, 18 spd 3:70, 40m axle, Cummins 525, Engine R-R at 323,244, Roo Bumper, H/A rack, \$70,000. Call 403-888-8583, Calgary, AB.

SPECIALIZED TRUCKS 1680

WANTED: 17 BALE PICKER DECK for semi truck or trade for 32x32' hay trailers and IH semi truck. Ph/tx Hay Trn 204-727-4683, Brandon, MB.



1998 FL80, 3126 Cat, 8LL trans., air ride, 29' deck, fresh Sask. safety, only 284,000 kms! Very good low km western truck, \$26,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2007 GMC F110 w/Fassi picker, 12,500 lbs 40' reach, 16' deck, toolboxes; 1979 GM Bruin SWB, GM power, 13 spd., S/A, bunk, 5th wheel. 306-398-2559, Cut Knife, SK.

1997 MACK RD688, 100 barrel water tank, pump, etc., 400 Mack, 24.5 wheels, white, \$16,500. 30

ROOFING 2550

CONTINUOUS METAL ROOFING, no exposed screws to leak or metal overlaps. Ideal for lower slope roofs, rinks, churches, pig barns, commercial, arch rib building and residential roofing; also available in Snap Lock. 306-435-8008, Wapella, SK.

WANTED: METAL ROOF PANELS for a Fairford 50' wide quonset. 204-834-3012, Carberry, MB.

TRUSSES: 35' trusses, 6/12, 20 pieces, \$2500 OBO; 20' mono trusses, 4/12, 40 pcs, \$2000 OBO; 22' trusses, 4/12, 16 pcs, \$1500 OBO. 306-668-0199 Martensville SK

BUILDINGS 2601



www.windandweathershelters.com
COMMERCIAL GRADE Wind and weather shelter buildings available in widths from 20' to 90'. Prices starting at \$2495. If you have bought an auction building and need to upgrade to more durable material or parts we can help. Located in Yorkton. Contact Paul at 306-641-5464 or Ladimer 306-795-7779.

COVER-ALL 40x60' TRUSS arch shelter, dismantled. Offers. Phone 306-563-6022, Canora, SK.

REPAIRS TO ALL MAKES of grain bins, farm & commercial buildings. Peterson Construction, 306-789-2444, ask for Len.

STEEL BUILDINGS



SAVE BIG!

- Factory Deals
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**Call Dave Maxe
800-964-8335**

BUSINESS OPPORTUNITIES 2800

SAND AND GRAVEL BUSINESS: Close to Regina (on primary), very good pit lease, new cone crusher and 3-deck screener, lots of newer equipment, trucks, genset, inventory. Customer base and over \$1,000,000 gross 2016, \$1,750,000. 306-536-5055, norm@skynorth.com

LODGE AND STORE: 8 log cabins, 50 campsites, boat and motor rentals. Water and septic system, filleting house, shop, air strip and sandy beach. 306-829-2143.

BUSINESS SERVICES

FINANCIAL/LEGAL 2902

DEBTS, BILLS AND charge accounts too high? Need to resolve prior to spring? Call us to develop a professional mediation plan, resolution plan or restructuring plan. Call toll free 1-888-577-2020.

FARM/CORPORATE PROJECTS. Call A.L. Management Group for all your borrowing and lease requirements. 306-790-2020, Regina, SK.



Neyaskweyak Group of Companies Inc. ("NGCI"), on behalf of the Ermineskin Cree Nation, seeks an experienced partner or group of partners to take over existing farming leases, amalgamate our lands and develop Ermineskin Cree Nation's land to its best and highest use.

Ermineskin Cree Nation (on reserve) lands consists of 16,500 acres of cultivated chernozem (black soil) and 3,500 acres (off reserve) non-cultivated forest and pasture located within the County of Wetaskiwin (the "Lands"). The Lands are valued in excess of \$60 million.

The mandate of NGCI is to achieve self-sufficiency and sustainability through long-term investments and business development. NGCI's mission is to promote and maintain viable and profitable businesses and investments that create employment and enhance human capacity.

Scope of Work

The proposed engagement may include, without limitation, the production of oilseed, grain, forage and pulse crops; grow vegetable and greenhouse crops and establish dairy, beef, hog, poultry, sheep herds or other agricultural products (the "Work").

All other terms relating to the performance of the Work, payment, profit sharing, the amount of the Lands to be cultivated, the exact nature of the Work is to be negotiated.

Responding to the Request for Interest:

Those who have interest in performing the Work should contact NGCI to express interest.

NGCI will provide further information relating to the Lands upon request.

Please address any inquiries in writing to
Mr. Sam Minde, President & CEO of NGCI,
E-mail: sam@ngcinc.ca no later than June 30, 2017.

Please Note: This request for interest is not intended to create contractual relations of any kind and is a request only for interested parties to provide further information and to solicit expressions of interest in performing the Work. NGCI shall not be responsible of any costs or expenses incurred by interest parties in responding to this request for interest.

COLLECTIBLES 3200

OLDER COMIC BOOKS wanted by private collector. 403-578-7033, Calgary, AB. william.heidecker@gmail.com

COMIC BOOKS, OLDER than 1980, in great shape! Collector comics; Movie posters; Superhero; War. 306-552-9470, Regina, SK.

COMPRESSORS 3300

30 GAL. HORIZONTAL 3-in-1 compressor/welder/gen., 3 yr. eng./2 yr. pump warranty, S/N BNAC1330HGW, \$5350. Prince Albert, 306-922-2525, www.farmworld.ca

30 GALLON ELECTRIC VERTICAL, S/N BNAC3230B. Reg. \$670, Sale \$599! 306-922-2525, Prince Albert, SK., www.farmworld.ca

CONTRACTING

CUSTOM SEEDING 3527

CUSTOM SEEDING - Full service. Now booking. References available. Call Lynden at 306-255-7777, Colonsay, SK.

CUSTOM PLANTING: Corn, sunflowers and soybeans. In Sask. and Manitoba. Call 306-527-2228.

CUSTOM TRUCKING 3550

LONG LAKE TRUCKING, two units, custom hay hauling. 306-567-7100, Imperial, SK.



EQUIPMENT HAULING. Serving Western Canada and Northwest USA. Call Harvey at 1-877-824-3010 or cell 403-795-1872. Vandenberg Hay Farms Ltd., Nobleford AB. Email: logistics@vandenbergay.ca

EQUIPMENT TOWING/ HAULING. Reasonable rates. Contact G H Wells Services and Trucking, 306-741-9059, Morse, SK.

CUSTOM WORK 3560

WILL DO CUSTOM FENCING new and repair barbwire fences. Lazy J Ranch, Jesse Wagner at 306-662-8557 Fox Valley, SK.

LOOKING FOR CUSTOM FARM WORK, seeding, spraying and combining. Call for pricing and to book spring acres. Call Mike 306-469-7741, Big River, SK.

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

NEUFELD ENT. CORRAL CLEANING, payloador, Bobcat with rubber tracks and vertical beater spreaders. Phone 306-220-5013, 306-467-5013, Hague, SK.

LAND CLEARING. Rock picking and digging, stone piles, brushing, fencing, demolition. 306-291-9658, Vanscoy, SK.

GENERAL BLASTING WORK, beaver dams, stones, etc. Serving Western Sask. 306-398-7668, Cut Knife, SK.

BRUSH MULCHING. The fast, effective way to clear land. Four season service, competitive rates, 275 HP unit, also avail. trackhoe with thumb, multiple bucket attachments. Bury rock and brush piles and fence line clearing. Borysiuk Contracting Inc., www.bcisk.ca Prince Albert, SK, 306-960-3804.

REGULATION DUGOUTS: 120x60x14', \$2000; 160x60x14', \$2950; 180x60x14', \$3450; 200x60x14', \$3950; Larger sizes available. Travel incl. in Sask. Gov't grants available. 306-222-8054, Saskatoon, SK.

CONSTRUCTION EQUIPMENT 3600

1974 CAT D7F, 14' angle dozer, 26" pads, 3306 eng., 60% UC, vg cond., \$38,000 OBO. 204-467-2109, Stonewall, MB.

JOHN DEERE 772BH grader, with snow wing, good running condition. Call 306-238-4411, Goodsoil, SK.

2010 CAT 950H WHEEL LOADER, 27,417 hrs., w/Cat quick coupler bucket, 3-3/4 cu. yards, 23.5x25 tires, F.O.B. \$75,000. 204-795-9192, Plum Coulee, MB



2013 JCB 550-140 TELEHANDLER, bought new in 2015, 1825 hrs., diesel power, PS trans., 4 WD, 4-way steering, very good tires, 10,000 lb. capacity, 45' reach height, hydraulic outriggers, full cab w/heat and A/C, c/w 1.8 yard bucket and pallet forks. 3 yd. bucket optional, Andrew, AB. Call Bill, 780-365-2020, 780-210-0800.

2005 LINKBELT 290LX hoe; and Cat D6H dozer, ripper, cab, with new undercarriage. 306-236-8023, Goodsoil, SK.

HERE WE ARE AGAIN! Low low prices! Over 45 gensets from 3 to 193 KW. Over 25 loaders and dozers. FA 605B loader; Clark 35C loader; Attachments of all types; Over 20,000' of new and used cable; 1000 new and used track rollers; 400 new and used hydraulic cylinders; 500 new and used buckets and blades; 75 sets of new and used pallet forks; tires- new and used mostly construction sizes; 2 large scales and others; Linkbelt LS98 dragline; 7 draglines and cranes; 2- Cat 70 and 463 scrapers; sawmill 50', complete; several packers PT and SP; over 25 graders being parted out; AC M065 grader, work ready; wheel loaders 4x4, 1 to 9 yard; Blaw Knox SP110 and PF180H pavers; Barber Green asphalt track paver; 2 Bomag MPH 100 pulverizers, Detroit diesel power; 2 Cat PR275 asphalt grinders; crushers; conveyors; hoppers; 1986 GMC fuel truck, TA, 2-1986 Ford LT9000 trucks; 1986 GMC tandem gravel truck; 1995 Ford flatdeck truck, safetied. 2 yards, over 50 acres. Central Canada's largest wreckers of older construction equipment. Call Cambrian Equipment Sales Ltd., Winnipeg, MB. Phone 204-667-2867, fax 204-667-2932.

EQUIPMENT BLOWOUT! Cat D2-5U w/loader, \$3900; Cat D2-5U w/P70, \$2900; Cat D2-5U w/Hyster winch, \$2900; Cat D2 J Series w/dozer, \$2900. All four units w/attachments, \$11,900; 3 Cat D4-7U w/dozers, all for \$11,900; IH TD9 w/dozer and equip. trailer, \$5900; IH TD9 92 Series w/loader, \$5900; IH 175-C crawler w/loader, \$6900; A/C HD6 loader w/blade, \$6900; A/C HD6 crawler dozer, \$5900; 2 Cat 955K crawler loaders, \$6900 each; Cat D7-3T hyd. dozer and rake, \$8900; IH TD-15 crawler w/dozer, \$6900; 2 MF crawler loaders, \$7900 for both; Cat D8H Hi-Horse, hyd. setup for scraper, \$12,900; 2 Cat 463 cable scrapers, \$21,900 for both 3 Ditch Witch trenchers, \$19,900 for all; Volvo L-320 loader, \$19,900; GD 750 air compressor, \$5900; Vermeer DX711 directional drill, \$5900; IH 574 tractor loader, rear 3PTH blade, \$5700; Work ready graders: JD, Champion, Galion, starting at \$8900; 10 cranes and draglines; 2 JCB and Pettibone telescopic forklifts; 2 Case 1085-C rubber tire excavators, \$12,900; JD 190E excavator, \$19,900; New and used culverts, many types and sizes; Skidsteer QA post pounder, new over \$11,000, our low price \$4900; Hundreds of attachments and useable pieces of equipment not listed. Central Canada's largest wreckers of used construction equip. New and used parts for most models of heavy equip. Cambrian Equipment Sales Ltd. Call 204-667-2867 or fax 204-667-2932, Winnipeg, MB.

CLIFF'S USED CRAWLER PARTS. Some older Cats, IH and Allis Chalmers. 780-755-2295, Edgerton, AB.

2012 CAT D3K very low hrs., 6-way dozer, cab, AC, heated cab, \$120,000. Call 780-983-0936, Clyde, AB.

SKIDSTEER: 2008 CASE 465 Series III, cab, heat, new tires, 2700 hrs., \$21,000. Call 306-940-6835, Prince Albert, SK.

KELLO DISC BLADES and bearings: 22" to 42" notched. Parts: oilbath and greaseable bearings to service all makes of heavy construction discs. Call: 1-888-500-2646, Red Deer, AB. www.kelloughs.com

ALLIS CHALMERS ROAD grader, 14' mo-board, \$6000. Phone 306-642-8111, Assiniboia, SK.



2008 CASE 210B Excavator, Isuzu 4 cyl., rebuilt hyd. pump w/1 year warranty, new UC, resealed hyd. boom cyl., \$79,000; 2011 Hitachi 270CL-3 Excavator, Isuzu 4 cyl., 5' WBM bucket w/hyd. thumb, 2-spd., 8692.5 hrs., AC, heater, exc. cond., \$125,000; 2004 Deere 230CLC Excavator, rebuilt eng., main hyd. pump, 11 months warranty, new UC, all cyl. resealed, manual thumb, QA bucket, exc. cond., can deliver, \$76,000. 204-743-2324, Cypress River MB.

KUBOTA EXCAVATOR KX080-3, 10 ton, 2011, 1800 hrs. CAH, wrist-o-twist bucket, \$58,000. 306-940-6835, Prince Albert, SK.

D8H TRACK w/new 26" Severe Service pads; 1000 gal. steel fuel tank w/stand; Building moving dollies. 306-398-2559, leave message, Cut Knife, SK.

EXCAVATOR BUCKETS, various shapes and sizes for different excavators. Call 204-871-0925, MacGregor, MB.

2010 JD 870 GP grader, 6612 hrs., new transmission 700 hrs. ago, new batteries and windshield, near new front tires, good condition, \$130,000. Call 306-372-4502, 306-372-7336 cell, Luseland, SK.

CAT 980C LOG grapple fork, bucket, new tires; Case 2870, Degelman dozer 4x4; 1988 C65 w/factory 22' flat deck. 306-236-8023, Goodsoil, SK.

RECLAMATION CONTRACTORS: Bigham 3 and 4 leg mechanical trip 3 pt. hitch Paratills in stock; parts for Bigham and Tye Paratills. Call Kelloughs: 1-888-500-2646.

2005 LINK-BELT 290 hoe; D7G PS dozer ripper, \$56,500; Smooth drum packer w/Detroit eng. 306-236-8023, Goodsoil SK

CAT HYDRAULIC PULL SCRAPERS: 463, 435, 80 and 70, all vg condition, new conversion. Also new and used scraper tires. Can deliver. 204-793-0098, Stony Mountain, MB.

CONSTRUCTION EQUIPMENT 3600



1981 DRESSER TD 20 E Dozer, Cummins 8.3 eng., new UC 26" pads, rebuilt trans., torque, steering, 14' twin tilt angle blade, bush ready, root rake avail. at extra cost, winch, 60 hr. warranty, S/N #031911, unit weight is 49,000 lbs., can deliver, \$76,000. 204-743-2324, Cypress River, MB.

740 CHAMPION GRADER, 1984, 8.3 Cummins eng., snow wing, ready to work. \$26,000. Call 306-563-8765, Canora, SK.

EQUIPMENT AND PARTS: 2007 Komatsu D85EX-15E tier 3 dozer, straight blade, double tilt, ripper 3 shank, A/C, 3030 hrs., \$320,000; 2007 Komatsu PC300LC-7 track hoe c/w 12.5' stick and 60' stick, 2 buckets, trigger switch, A/C, 3632 hrs., \$205,000; 2009 Volvo G970 grader, 16' blade, ripper, A/C, new engine, 6250 hrs., \$135,000; 2009 Case SV212 vibratory packer, cab, A/C c/w shell kit installed, 1694 hrs., \$85,000; Dismantling 1997 PC300-6 excavator and TS24 1981 scraper. Pictures available on request. Call 306-634-9911, Estevan, SK.

2011 HITACHI ZX270 LC-3 hyd. thumb excavator, Cat walkos, 6950 hrs., 12" 6" stick, c/w QA bucket, exc. cond. \$115,000. 204-325-8019, 204-362-1091, Winkler, MB



HYDRAULIC PULL SCRAPERS 10 to 25 yds., exc. cond.; Loader and scraper tires, custom conversions available. Looking for Cat cable scrapers. Quick Drain Sales Ltd., 306-231-7318, 306-682-4520 Muenster SK

24"x48" PARKER GRAVEL screener, 48x120" screen deck plus several different screen sizes. Call 306-482-5121, Carnduff, SK.

CLIFF'S USED CRAWLER PARTS. Some older Cats, IH and Allis Chalmers. 780-755-2295, Edgerton, AB.

2012 CAT D3K very low hrs., 6-way dozer, cab, AC, heated cab, \$120,000. Call 780-983-0936, Clyde, AB.

SKIDSTEER: 2008 CASE 465 Series III, cab, heat, new tires, 2700 hrs., \$21,000. Call 306-940-6835, Prince Albert, SK.

KELLO DISC BLADES and bearings: 22" to 42" notched. Parts: oilbath and greaseable bearings to service all makes of heavy construction discs. Call: 1-888-500-2646, Red Deer, AB. www.kelloughs.com

ALLIS CHALMERS ROAD grader, 14' mo-board, \$6000. Phone 306-642-8111, Assiniboia, SK.

CONSTRUCTION EQUIPMENT 3600

ROAD GRADERS CONVERTED to pull behind large 4 WD tractors, 14' and 16' blade widths avail. 306-682-3367, CWK Ent. Humboldt, SK. www.cwcenterprises.ca

SKIDSTEER ATTACHMENTS: Buckets, rock buckets, grapples, weld-on plates, hyd. augers, brush cutters and more large stock. Top quality equipment, quality welding and sales. Call Darcy at 306-731-3009, 306-731-8195, Craven, SK.

AIR COMPRESSORS: 185D Grimmer Schmidt; 185 Ingersoll-Rand 4 cyl.; 250 Jaeger; 375 4 cyl. Cummins; 750 Leroy; Two 750 Gardner-Denver 6-71 Detroit; 15 HP 200/400 V 3 phase 3 electric; Many others to choose from - gas, diesel, electric available, many different sizes and types. Central Canada's largest wreckers of older construction equipment, Cambrian Equipment Sales Ltd. Ph: 204-667-2867 or fax: 204-667-2932, Winnipeg, MB.

TEREX 8230 B DOZER, V8 71 T Detroit eng., 385 HP straight tilt blade, 26" pads, UC like new, bush canopy, exc. cond., can deliver, warranty, \$72,000; Terex 8240B crawler dozer, V8 871 Detroit eng., straight tilt dozer, powershift, 26" pads, bush canopy, exc. cond., can deliver, warranty, S/N #56729, 4957 hrs., \$69,000. 204-743-2324, Cypress River, MB.



NORDBERG GRAVEL CRUSHER conveyor, \$150,000; Ford F700 tow truck, fully equipped, \$22,900. Pro Ag Sales, 306-441-2030, North Battleford, SK.

HYDRAULIC SCRAPERS: LEVER 60, 70, 80, and 435, 4 to 30 yd. available. Rebuilt for years of trouble-free service. Lever Holdings Inc. 306-682-3332 Muenster, SK.

2008 CAT 980H wheel loader, w/QA, bucket, forks, boom, \$165,000; 2013 CAT 930K wheel loader, like new cond., \$170,000. Call Brian 780-213-1101, Arborfield, SK.



LANDMASTER DOZER: Professionally Engineered & Manufactured. Lease to own. Zero down. Semi-annual payments. Lease term up to 72 months. Call for details and pricing. Sask - Neil 306-231-8300 or Alta. Gord, 780-913-7353. landmaster.ca

2004 CAT D6N dozer with 6-way blade and ripper, \$78,000. Call 204-871-0925, MacGregor, MB.

CAT 435 HYD. Scraper, 12-14 yards, vg cond., \$34,000; Fiat-Allis FL14-B Crawler, vg cond., \$14,000, 204-638-1722, Dauphin

CONSTRUCTION EQUIPMENT 3600

1980 D8K CRAWLER, dirt tilt blade, bush sweeps, good undercarriage, \$38,000. 204-525-4521, Minnitonas, MB. Website: www.waltersequipment.com



2015 TM320 JCB, 938 hrs., diesel power, PS, 4WD articulating steering, excellent condition, 7500 lb lift, 17' lift, full cab with heat & AC, c/w 3 yard bucket. Warranty Expires Oct 27, 2017. Andrew, AB. Call Bill, 780-365-2020 or 780-210-0800.



1999 CASE TRENCHER, HD, 1927 hrs., 60 HP diesel, 2 spd. hydro., trans., 4-wheel steering, 6-way blade, D125 backhoe with outriggers, 6' HD chain, exc. cond. \$22,500, 306-648-7172, Gravelbourg, SK.

DIESEL ENGINES 3700

GREAT PRICES ON new, used and remanufactured engines, parts and accessories for diesel pickups. Large inventory, engines can be shipped or installed. Give us a call or check: www.thickettenginebuilding.ca Thickett Engine Rebuilding. 204-532-2187, Russell, MB.

DIESEL ENGINES, OVERHAUL kits and parts for most makes. Cat, CIH, Cummins, Detroit, Mack, M&M Equipment Ltd., Parts and Service phone: 306-543-8377, fax: 306-543-2111, Regina, SK.

WANTED DIESEL CORES: ISX and N14 Cummins, C15 Cats, Detroit's Ddec 3, 4, DD15. Can-Am Truck 1-800-938-3323.

3406B, N14, SERIES 60, running engines and parts. Call Yellowhead Traders, 306-896-2882, Churchbridge, SK.

USED, REBUILT or NEW engines. Specializing in Cummins, have all makes, large inventory of parts, re-powering is our specialty. 1-877-557-3797, Ponoka, AB.

290 CUMMINS, 350 Detroit, 671 Detroit, Series 60 cores. 306-539-4642, Regina, SK

ELECTRICAL MOTORS 3825

FARM AND INDUSTRIAL ELECTRICAL motor sales, service and parts. Also sale of, and repairs to, all makes and sizes of pumps and phase converters, etc. Tisdale Motor Rewinding 1984 Ltd., 306-873-2881, fax 306-873-4788, 1005A-111th Ave., Tisdale, SK. tismtrwind.com

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KEHO/ GRAIN GUARD/ OPI STORMAX. For sales and service east central SK. and MB., call Gerald Shymko, Calder, SK., 306-742-4445 or toll free 1-888-674-5346.

CONVEYORS 4106

BATCO 2014 1545 FL, \$17,500 OBO; 2012 1545 Brandt conveyor, \$17,500. 306-648-3622, Gravelbourg, SK.

BATCO CONVEYORS, new and used, grain augers and SP kits. Delivery and leasing available. 1-866-746-2666.

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

FLEXIBLE BAG CONVEYOR for loading boxcars, 36', 600 Volt, 3 phase, c/w fork lift ramp, vg cond, \$7500. 306-366-2158, St. Gregor, SK. bbornhorst@sasktel.net

BUILD YOUR OWN conveyors, 6", 7", 8" and 10" end units available; Transfer conveyors and bag conveyors or will custom build. Call for prices. Master Industries Inc. www.masterindustries.ca Phone 1-866-567-3101, Loreburn, SK.

BRANDT 1545 BELT CONVEYOR, exc. shape, no fertilizer use, hyd. wheel mover kit, new hyd. pump in 2016, elec. clutch, Kohler 29 HP EFI engine in 2014, \$13,500. 306-563-6244, Canora, SK.

2004 JD 1910 Conveyor, runs well, has been tested, cosmetically 65%, \$7000. 1-800-667-4515, www.combineworld.com

FERTILIZER EQUIPMENT 4112

FLOATERS: 2 - 2014 New Leader L4000's, 14' w/spin spreaders, on IHC Navistar truck chassis, only 39,850 kms, 295 cu. ft. box with tarp, AutoSteer, exc. condition, choice, \$219,000. Agriterra Equipment, High River, AB. 403-652-2414.

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2005 PETERBILT STAHLY, Cummins, Allison auto, New Leader L3020 G4, monitor, New Leader controller, Starlink GPS 4145 hrs, \$78,000; 2004 Peterbilt, Cummins, Allison auto, 1800 gal stainless, 80' boom, Raven controller, Raven AutoSteer, Raven section shutoff, 4270 hrs, \$65,000. USD prices. 406-576-3402, 406-466-5356, Choteau, MT. www.fertilizerequipment.net

FERTILIZER STORAGE TANKS- 5000 US gal., \$3000; 6000 US gal., \$3600. Pick up at factory. Ph 306-253-4343 while supplies last. www.hold-onindustries.com

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.

RANCO VOLUMETRIC Model 5, built 2005, 3 phase, 90 AMP, 15 HP max. 5 compartments w/dual metering augers in 3 compartments. Additive hopper w/auger and motor, U-trough extension with screw. Various additional equipment. Hefty Seed, Mohall, ND. 701-756-7333 or John at 701-833-4900. john.cook@heftyseed.com

FERTILIZER EQUIPMENT 4112



2011 4520 1-bin, 70' booms, \$138,000; Special: 2010 Case 3520, 3-bin, 3 wheeler, \$93,000; Two 2007 Case 4520's, 3-bin, 70' booms, 3300 hrs, AutoSteer, \$134,000 and \$98,000; 2006 Case 4510, AutoSteer, FlexAir 70' booms, 7400 hrs., \$77,000; 2005 Case 4520 w/70' FlexAir, 4000 hrs., \$78,000; 2004 Case 4010, 80' SPRAYER, 7000 hrs., \$58,000; 2-2004 Loral AirMax 1000s, 70' booms, immaculate, \$76,000 and \$62,000; 2006 2-bin AgChem, 70' booms, \$58,000; 2004 KBH Semi tender, self-contained, \$32,500; 2009 and 2012 Merritt semi belt tender, self-contained, \$33,500 and \$44,000; 24 ton Wilmar tender beds, \$18,500 ea; 2010 Wilmar Wrangler 4560, loader, 1600 hrs., \$25,500; 2009 Wrangler, 2400 hrs., \$23,500; 18,000 gal. NH3 holding tank, \$34,500. All USD prices. 406-576-3402, 406-466-5356, Choteau, MT. Visit on-line: www.fertilizerequipment.net



2010 TERRAGATOR 8204 w/AirMax Precision 2 1000 bed, 4400 hrs., \$93,500 USD; 2008 Ag-Chem 8244 4 WD, airflow bed, 70' booms, \$69,500 USD; 2006 8204 twin bin, 5600 hrs., \$59,000 USD. Choteau, MT phone 406-576-3402 or 406-466-5356, www.fertilizerequipment.net

FERTILIZER STORAGE TANKS. 11,000 US gal., \$6500 pick up at factory or \$7000 free freight to farm. 1-800-383-2228 www.hold-onindustries.com 306-253-4343

FERTILIZER SPREADERS, 4-8 ton, 10 ton Wilmar Tender. Phone 204-857-8403, Portage La Prairie, MB.

GRAIN AUGERS 4115

2 (2006) MICHEL'S grain fill augers for hopper trailer, installation, instructions and operators manual available on Michel website. Units are painted with tough (Gator boxliner) paint and ready to install and use, very good condition, \$3000 OBO. 204-750-2624, Sperling, MB.

WANTED: 10"x 60"-70" swing auger, complete with reverser. Call 780-405-8089, Tofield, AB.

MERIDIAN AUGERS: HD 8-46, HD8-59, TL10-39, HD10-59, TL12-39 w/37' EFI and all with movers, clutches, lights and rev. gearbox. Call for pricing. 8x41 Wheatheart, loaded, \$7995; 2013 R10x41 Wheatheart, loaded, \$9995; 2014 TL 12-39 Meridian, loaded, \$14,995; 2014 SLMD 12-79 Meridian with electric mover and lift, \$16,995. 306-648-3622, Gravelbourg, SK.

REMOTE CONTROL SWING AUGER movers, trailer chute openers, endgate and hoist systems, wireless full bin alarms, swing belt movers, wireless TractorCams, motorized utility carts. All shipped directly to you. Safety, convenience, reliability. Kramble Industries at 306-933-2655, Saskatoon, SK. or www.kramble.net

2009 FARM KING 1385, hyd. swing mechanical drive, \$12,000. Call Ron 306-648-5394, Ferland, SK.

AUGERS: NEW and USED: Wheatheart, Westfield, Westeel augers; Auger SP kits; Batco conveyors; Wheatheart post pounders. Good prices, leasing available. Call 1-866-746-2666.

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

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.

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<p>19.5' DIAMETER BIN</p> <p>H. Duty 12 leg cone c/w 24" port Painted cone inside & out Double 4"x8" skid Setup included (Saskatoon Area) Air Screen & 7hp Fan (Optional)</p> <p>7082 Bu. \$19,555+ gst/delivery</p>	<p>22' DIAMETER BIN</p> <p>H. Duty 14 leg cone c/w 24" port Painted cone inside & out Setup included (Saskatoon Area) Triple 4"x6" skid (Optional) Air Screen & 10hp Fan (Optional)</p> <p>9702 Bu. \$21,995+ gst/delivery</p>

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GRAIN AUGERS 4115

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2011 BUHLER FARM KING 16-104 Auger, hyd. swing out, low hrs., exc. cond., can deliver, one owner - selling due to buying new equip., \$29,000. Call 204-743-2324, Cypress River, MB.

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

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GRAIN CARTS 4118



2016 MANDAKO 1200 bu. grain cart, steering axle, hyd. susp., \$74,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

GRAVITY WAGONS: New 400 bu. \$7,400; 600 bu., \$12,500; 750 bu., \$18,250. Large selection of used gravity wagons, 250-750 bu. Used grain carts, 450 to 1110 bushel. View at: www.zettlerfarmequipment.com 1-866-938-8537, Portage la Prairie, MB.

GRAIN CLEANERS 4121

CUSTOM COLOR SORTING chickpeas to mustard. Cert. organic and conventional. 306-741-3177, Swift Current, SK.

DUAL STAGE ROTARY SCREENERS and Kwik Kleen 5-7 tube. Call 204-857-8403, Portage la Prairie, MB. or visit online: www.zettlerfarmequipment.com

NORTHLAND SUPERIOR GRAIN cleaner assembly, 100 bu./hr. capacity, includes 1 ton storage, scalper, indent cyl., rotary screen, 2 legs, 25' structure. Winnipeg, MB. joe.ackerman@umanitoba.ca

WANTED, USED LMC Marc 400 or 500 gravity table grain cleaner. 780-338-2838, Berwyn, AB. Email: pabogner@gmail.com

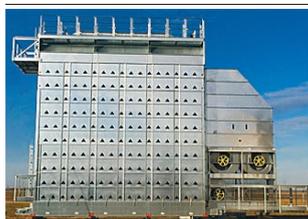
FOREVER 54 DUSTLESS screen cleaner, complete working order, includes machine, stands, screens, 15' bucket elevator, 58 screens in total for cleaning wheat, barley, oats, flax, canary grass, peas. Come see it in action. 306-563-6244, Canora, SK.

GRAIN DRYERS 4124

6 TIER VERTEC grain dryer, batch and/or continuous. 204-325-2590, Morden, MB.



SAFE PORTABLE GRAIN DRYING: Multiple locations in Western Canada. Economical, efficient, fume-free, flameless grain drying units that have the ability to dry multiple grain bins simultaneously on your own site. No operator required. Phone 1-855-573-4328. info@conleymax.com or visit: www.conleymax.com Kindersley, SK.



WESTERN GRAIN DRYER, mfg. of new grain dryers w/advanced control systems. Updates for roof, tiers, auto moisture controller. Economic designed dryers avail. 1-888-288-6857, westerngraindryer.com

GRAIN ELEVATORS 4127

SELLING GRAIN LEGS, distributors, conveyors and truck scales. Also other elevators parts. 403-634-8540, Grassy Lake, AB.

GRAIN VACUUMS 4133

FEED BLOWER SYSTEMS, Sales and Service. Piping, blower and airlock repairs. Call John Beukema 204-497-0029, Carman, MB.

CONVEYAIR GRAIN VACS, parts, accessories. Call Bill 780-986-5548, Leduc, AB. www.starlinesales.com

HARVESTING/HAYING 4139

2007 NH BR780A, 1 owner, wide PU, 20,000 bales, like new. Lloydminster, SK. 306-825-2440, cel 780-872-6461.



2013 CLAAS 3300 RC Quadrant 3x4 square baler, approx. 7000 bales made, vg cond., \$110,000. Can deliver. Call anytime 204-743-2324, Cypress River, MB.



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BALE SPEARS, high quality imported from Italy, 27" and 49", free shipping, excellent pricing. Call now toll free 1-866-443-7444, Stonewall, MB.

2003 JD 348 square baler in excellent cond., shedded; Also NH 1063 bale wagon, very good cond., carries 160 square bales. Call 204-476-2401, Neepeewa, MB.

NH 1033 STACKLINER bale wagon, in working cond., \$3000. Can deliver. Rose town, SK. 306-831-9979 or 306-882-3141.

MOWER CONDITIONERS 4142

2005 MACDON, 14' 912 auger header, w/722 conditioner, purchased new, Dec. 2007, single knife drive, good condition, \$27,000 OBO. 204-836-2116, St. Alphonse, MB. g.delichte@gmail.com

SWATHERS 4145

2013 JD W150, c/w 35' header, double knife, double reel, 650/500 hrs., exc., \$135,000. 780-679-7795, Camrose, AB.

JD 2360, 21' wide, DSA, CAHR, HoneyBee knife, big tires, recent eng. rebuild, runs exc., \$9500. 306-238-7969, Goodsoil, SK.

2008 NH H8040 SP Windrower, 36', PU reel, fore/aft., Roto-Shears, rear axle suspension, 920 hrs. pea auger, \$67,500. Can be seen at Shoal Lake Farm Equipment, Shoal lake, MB. Call Ron at 204-895-1064.

2015 JD W150 435D, PU reel, fore/aft, double knife drive, hydraulic tilt, free form roller, integrated GPS, 147 engine hrs. Call 306-537-9636, Riceton, SK.

MASSEY 30' QUICKFOLD PT w/brand new canvasses, \$1000 OBO. 306-460-9027, 306-463-3480, Flaxcombe, SK.

H/H VARIOUS 4151



2017 FARM-KING 14 wheel V rakes. Always in short supply by now! Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.



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Move lightweight, fluffy crops such as peas, mustard, canola and lentils easily & consistently through your draper header with our complete full-length pea auger kits.



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Replace your worn & cracked rubber rollers with our wear-resistant steel rollers for durability and at less cost.

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JD 300 16' hay header, fits 23, 2420, 3830, \$3000; Ford Major dsl. w/loader and blade \$5500. Call 306-236-8023, Goodsoil, SK.

COMBINES

CASE/IH 4160

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2007 Case/IH 7010, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

CATERPILLAR LEXION 4166

CLAAS LEXION 740, 750, 760, and 780 several different options avail. Headers and delivery. Save \$\$\$.. 218-779-1710.

FORD/NH 4172

1991 FORD/NH TR96 SP, 2000 eng. hrs, 240 HP, Cat eng., under 2000 hrs, always shedded till last fall, vg cond., \$19,000 OBO. Ph/text 204-761-5270, Brandon, MB. palajohn@westman.wave.ca

JOHN DEERE 4178

SEVERAL LOW HOURED, 9770, 9870, S670, S680, S690 available options. Headers and delivery. Save \$\$\$.. 218-779-1710.

2014 JD S680 PRWD combine, 582 hrs., 650/85R38's w/duals, Pro-Drives, chopper w/PowerCast tailboard, JD bin extension. PowerGard Warranty til March 2019, \$252,500 USD. www.ms-diversified Call 320-848-2496 or 320-894-6560.

ATTENTION

2006 JOHN DEERE 9760, SP, STS, 1600 eng., 1616 threshing hrs., airfoil chaffer put in last year; new rotor belt put in half way through last season; integrated AutoSteer (does not incl. monitor and antenna), variable spd. feeder house, AutoHeight control, lateral tilt, 2 spd. rotor gearbox, after-market stereo, crop saver, 15' PU, excellent shape, field ready. Greenlighted and repaired at local JD dealership, will provide repair bill on request. Reason for selling-upgraded to a bigger machine, \$139,900 OBO. Call 780-632-9353, 780-658-2125, Vegreville, AB. rickvan6@gmail.com

1990 JD 9500, 4100 eng. hrs., 912 PU header, many new parts, harvest ready, \$22,000 OBO. 306-946-7928, Watrous, SK.

2000 JD 9750-STs, 2980 separator hrs., 3966 engine hrs., w/dual wheel kit, \$60,000. 306-896-2311, Langenburg, SK.

2008 JD 9870 STS, Greenlighted from 2012-2016, no peas, always shedded, \$65,000+ work orders in last 5 years. Serviced at Agland, Lloydminster. GreenStar ready, 1838 eng./1227 sep. hrs., \$205,000 OBO. Call 780-205-4423, Lashburn, SK.

2006 9660 WTS, 914 PU, duals, 2300/1550 hrs., \$132,500. A.E. Chicoine Farm Equipment 306-449-2255, Storthoaks, SK.

4 JD COMBINES: 2010 T670, 966 sep. hrs., PU header, GPS; 2009 T670, 1178 sep. hrs., GPS; 2004 9760 STS, 2186 sep. hrs.; 2001 9650 STS, 2314 hrs. All owned 4+ yrs., yearly maintenance records. Also selling 4 JD 630F headers. Call for price. 780-934-6384, Fort Saskatchewan, AB.

2009 JD 9770 with 615 header, Auto HHC, grain tank extensions, 2600 GreenStar display monitor and StarFire receiver incl., less than 100 hrs. since Greenlight, 1523 sep hrs., duals, excellent condition, always shedded, \$188,000 OBO. Call 780-877-2518, Ferintosh, AB.

MASSEY FERGUSON 4181

1997 MF 8780, PU, only 1868 sep. hrs., stored inside, exc. cond., \$45,000; MF 9030 25' auger header c/w lifters, PU reel and carrier, like new, \$8500; MF 885 25' swather, 1468 hrs., PU reel, exc., \$12,500. 306-441-1259, North Battleford, SK.

COMBINE ACCESSORIES

COMBINE HEADERS 4199

1996 JD 930 Flex platform: 30' flex, PU reel, poly skids, fore&aft, \$7500. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

2012 CIH 3020 HEADER, 35' PU reel, hyd. fore/aft, double knife drive, AHH, hyd. float, \$23,900, 306-654-7657, Prudhomme, SK. dsopotyk@baudoux.ca

MACDON 960 36', PU reel, Case 2388 adapter, good shape; Case 1020 flex, 25'. Call 403-485-3535, Vulcan, AB.

1997 JD 930 flex platform, 30', poly skids, PU reel, fore&aft., reconditioned \$15,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

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1997 CASE PICK-UP PLATFORM, 12' off 2188, fits 16-21-23, Rake-up PU, \$4950. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

2009 MACDON D60 35', upper cross auger, single knife, trans., canola closure kit, header done 7- 8000 acres, Case or NH adapter \$45,000 403-588-9497 Bashaw AB

1996 JD 930 flex platform, 30' flex, Cray air reel, PU reel, poly skids, fore&aft., reconditioned, \$21,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

2010 FD70 36' MacDon flex draper, transport, hyd. tilt, pea auger, JD adapter, field ready, \$53,000; 2006 974 36' MacDon flex draper, transport, JD adapter, field ready, \$33,000. Gerald or Glenn Walkeden, 306-861-6849, 306-861-7782, Tribune, SK

JD 930 DRAPER header, c/w PU reel, new pea auger, built-in transport, prem. cond., limited use. 403-823-1894, Drumheller, AB

COMBINE HEADERS 4199



2012 CASE DRAPER, 35', slow spd. transport, Case or NH adapter, exc. cond., can deliver, \$55,000; 2013 MacDon FD75, Case or NH adapter, S/N #231673, FlexDraper, 35', can install new transport kit for \$8500, good cond., can deliver, w/slow spd. transport \$67,000, w/slow spd. transport \$75,000; 2012 MacDon D60-S Draper, 35', CIH and NH adapter, exc. cond., can deliver, S/N #227499, \$55,000; All headers are shaded, selling due to buying JD combines. 204-743-2324, Cypress River, MB.

1985 JD 220 FLEX platform, 20' flex, PU reel, poly skids, plastic teeth, nice, fits 20 series, \$7900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

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1999 AGCO 800 flex platform, 30', PU reel, poly skids, for&aft, reconditioned, \$17,900 Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

30' DRAPER HEADER, 2002 Case 1052, dbl reel, exc. knife and canvasses, pea auger, similar to MacDon 972, \$16,500 OBO. 306-728-2115, 306-728-8428 Melville, SK.

2002 JD 930F Flex platform. 30' flex, Cray air bar, poly skids, PU reel, fore&aft, reconditioned, \$24,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

1983 JD 220 FLEX platform, 20', PU reel, steel teeth, poly skids, fits 20 series \$5900 Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

2002 JD 930F flex platform, 30' flex, single point, F/F auger, PU reel, poly skids, for&aft., reconditioned, \$19,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

2003 JD 930F flex platform, 30' flex, F/F auger, PU reel, poly skids, fore&aft, reconditioned, \$19,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

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MISC. ACCESSORIES 4205

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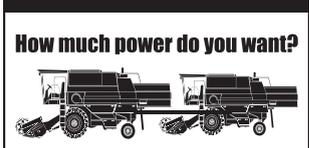
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WANTED: DEGELMEN 570S rockpicker in good cond. 306-526-8882, 306-488-2109, Dilke, SK. jonmitch@westnet.com.au

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SCHULTE GIANT 2500 rockpicker, exc. condition. 306-592-4449, 306-592-2029, Buchanan, SK.

LEON HYDRAULIC DRIVE rockpicker, in good shape, \$3000. 306-961-9312, Prince Albert, SK.

ROCK-O-MATIC 546, hyd. drive, floatation tires, \$8500; Degelman 7700 PTO drive, \$12,500. 780-679-7795, Camrose, AB.

SPECIAL EQUIPMENT 4232

JOHNSON MFG HYGRADE 1600RS pull grader, 16' blade w/rear steer, like new, \$19,500, 306-896-2311, Langenburg, SK.

2016 WOLVERINE ROTARY DITCHER, used for 1 season, in good shape, \$53,000. Call 306-921-4473, Ridgedale, SK.

SPRAYING EQUIPMENT

PT SPRAYERS 4238

NEW HOLLAND SF115, 1200 gal., 90' susp. boom, windscreens, 2 nozzle bodies, chem. mix tank, rinse tank, always shedded, \$19,500. 780-618-7990, Peace River.

BRANDT 1000 QF, 800 gal. tank, 100' booms, brand new tires on tank, new boom nozzles, good shape. Best offer. 306-243-4810, 306-860-7477, Outlook, SK.

FLEXI-COIL 67, 100', 1000 gal. poly tank, wind screens, disc markers, autorate controller, chem handler, fence row nozzle, 16.5L - 16.1, \$8500. Call 306-654-7657, Prudhomme, SK. dsopotyk@baudoux.ca

BOURGAULT 540 ELIMINATOR, 70', 500 gallon, 1000 PTO, autofold, disc markers, monitors, \$2000. 204-525-4521, Minitonas MB. www.waltersequipment.com

1997 BRANDT QF1000 100', 800 gal. poly tank, \$3000. 306-567-8614, Davidson, SK.

FLEXI-COIL 65-80' boom, hyd. pump (2 yrs.), 800 gal. tank, mix tank, foam marker, w/extra hyd. pump, \$3200. Call 306-748-2847, 306-730-6323, Neudorf, SK.

FLEXI-COIL 67XLT 114', twin tanks, hyd. pumps, booms, windscreens, end nozzles, autorate controller, excellent condition. Call 306-893-7068, Paynton, SK.

FLEXI-COIL SYSTEM 62, 70', 800 gal. tank, dual nozzles, \$2400. Phone 403-820-8028, Murrin, AB.

2002 FLEXI-COIL 67, suspended boom, 80' 800 gal., Raven AutoBoom height control, autorate, \$21,000 OBO. 403-820-0145, Drumheller, AB.

SP SPRAYERS 4241

2010 JOHN DEERE 473, ready to work! 100', 800 gal poly tank, Starfire receiver, 2600 display, swath control, 5-way nozzles, 5 sets of tips, 2 sets of tires (320s & 650s), rear camera, \$147,500 OBO. 204-746-6717, Morris, MB. cmuller@daleair.ca

1995 SPRACOUPE 3630, 80', 400 gal. tank, Outback GPS AutoSteer, E-Kay crop dividers all 4 wheels, flood lights, tow hitch, 2430 hrs., \$28,500. 204-734-3512 204-734-8920, Swan River, MB.

2013 APACHE 1020, 470 hrs., duals, 100', 1000 gal. tank, AutoSteer, AutoBoom, Auto Section. Meticulous one owner unit, \$220,000 OBO. 306-591-1133, Pense, SK.

2011 JOHN DEERE 4630, 1000 eng. hrs, 500 spray hrs, 2630 screen, AutoTrac, AutoBoom, SF-1 activation, Starfire receiver, 3 sets tips, on-board compressor, exc cond, shedded, meticulous w/all service records, 1 owner, \$165,000 firm. 780-385-5704, Viking, AB. rmattinson@mcsnet.ca

JD 4930, 1000 gal. stainless tank, 120' boom, skinnies, approx. 3400 hrs., all options, \$139,000. 306-948-7223, Biggar, SK.

2013 NH GUARDIAN SR240F XP 100' boom, 1200 litre SS tank, IntelliView IV monitor, luxury cab, 6.7L Cummins, 275 HP, only 420 hours, asking \$330,000. 306-524-2109, Semans, SK.

2001 ROGATOR HIGH clearance, 100', 4600 hrs., foam markers, Raven controller. Nice! \$58,000 OBO. Call/text 204-761-5270, Brandon, MB. palajohn@westman.wave.ca

2001 WILMAR 8500 Eagle, 90', 825 gal. tank, Outback S3 AutoSteer w/sectional control, hyd. axle adj., 2 sets tires, crop dividers, 5-way nozzle bodies, 2315 eng. hrs., \$65,000. 204-461-1630, Argyle, MB.

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2009 MILLAR CONDOR 40, 100' boom, 1000 gal. tank, 100 gal. rinse tank, Auto-Boom, AutoSteer, AutoHeight, 2 sets rear tires, crop dividers, 1600 hrs., new diff. and planetary, good cond. 306-769-8887, 306-276-7788, Arborfield, SK.

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2003 JOHN DEERE 4710, 90', 800 gal. SS tank, 2600 display w/swath control and Norac AutoBoom height, 20.8 tires and skinnies, triple nozzle bodies with tips, 3700 hrs, \$95,000. 306-861-7620, Weyburn, SK. kingpin1959@outlook.com

1999 ROGATOR 854 high clearance, 90', w/factory AutoSteer, 2700 hrs, 2 sets tires, \$79,000. 306-648-5394, Ferland, SK.

2011 SPRACOUPE 4660 High Clearance Sprayer, 80' boom width, 700 eng. hrs., 125 HP Perkins dsl., 5 spd., 400 gal. tank, Master Switch, 9.00x24-8 ply front, 320/85R24 rear, JD GreenStar Display 2600 w/StarFire ITC receiver, JD AutoTrac Universal Steering Kit 200, \$105,000. Paradise Valley, AB. Contact Jim, text 780-871-3963 or teasdajew@gmail.com

2002 JD 4710, 4300 hrs., 800 gal. tank, 90' booms, chem. inductor, 2600 display w/Swath control and AutoTrack, 2 sets tires, \$95,000. 306-861-7981, Oungre, SK.

WILLMAR 765 SE, 90' boom, GPS, mapping and AutoSteer, 6500 hrs., 18.4x38 radials and 12.4x42 tires, 4 Tridekon crop dividers, 600 gallon tank, \$25,000. 204-825-7166, Clearwater, MB.

1999 CASE 4260, 3180 hrs., 97' booms, 2 sets tires, 1200 gal. SS tank, Outback GPS and Raven monitor, asking \$95,000 OBO. Call 306-552-4905, Eyebrow, SK.

CHEM HANDLER III 3" hoses with Honda pump, \$3300 OBO. 306-243-4242, 306-867-7642, Macrorie, SK.

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1993 MORRIS 39' air drill, 7180 TBH tank, new hoses, DS, 12" space, carbide Gumbo boots. 3-1/2" steel packers, field ready, \$20,500 OBO. Retired. Call 306-252-2810, 306-567-7281, Kenaston, SK.

2010 CASE/IH PH800, 70', 10" spacing, new Dutch paired row, SS, duals, Stk #012985, \$109,000. 1-800-535-0520, Lloydminster, www.redheadequipment.ca

2008 60' SEEDMASTER, 12" spacing DS, low acres, very nice tips, new manifold, new hoses, excellent condition, \$75,000. 306-861-4592, 306-722-3228, Fillmore, SK

2013 SEED HAWK 60-12, 60', twin wing, DS, sec. control, 10' auger, 800 TBH, Stk# 017840, \$335,000. 1-844-323-3003, Prince Albert, www.redheadequipment.ca

FLEXI-COIL 5000, 33', 12" spacing, all re-painted steel packers, new front tires on drill, 3" Stealth openers, c/w Flexi-Coil 1720 TBH tank, new front tires on cart, cameras in tank, metering area good, \$27,000 OBO. 306-726-7516, Earl Grey, SK

2010 CASE/IH ATX700, 70', rubber packers, high float tires, DS, VR cart, Stk# 020407 \$94,000. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2010 BOURGAULT 3310, 55', 12" spacing, v-style packers, MRB's, \$216,000. Stk# 021101. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2002 FLEXI-COIL 2340, TBH, var. rate, 4 rollers, SS, dual fans, exc. cond., \$15,000, 403-882-3349, 403-741-5716, Castor, AB.

2007 JD 1830 50', single shoot, 10" space, c/w 5" rubber packers, \$59,000, JD 1910 270 bu. TBT cart, single shoot, exc., \$24,000. 780-679-7795, Camrose, AB.

GREAT PLAINS AD1334 air drill, 34' w/7" spacing, 2 tanks, good condition, \$14,000 OBO. Call 780-405-8089, Tofield, AB.

54' BOURGAULT 5710, w/5350 air tank, DS w/dutch openers, steel or rubber packers, shedded, \$55,000. 306-876-4517 Goodeve

1997 FLEXI-COIL 5000, 39' with 2320 TBH tank, 6 run single shoot with stealth openers, rubber packers and hydraulic markers, \$25,000 OBO. 306-430-1317, Eatonia, SK.

2013 SEED HAWK 60-12, 60', twin wing, DS, sec. control, 10' auger, 800 TBH, Stk# 017840, \$335,000. 1-844-323-3003, Prince Albert, www.redheadequipment.ca

2006 BOURGAULT 5710, 40', 9.8" spacing, steel packers, 6200 cart, \$60,000. Stk# 020500. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

BOURGAULT 5710, 54', 3225 air cart, single shoot, 3" steel packers, Knock-on liquid boots, liquid kit, loading auger, rear hitch, \$30,000. 306-742-4429, Langenburg, SK.

2012 BOURGAULT 3320 QDA, 66', 10" NH3 kit, MRB's, duals, deluxe auger, \$295,000. Stk# 023175. 1-800-667-9761, Saskatoon, SK. www.redheadequipment.ca

2008 59' BOURGAULT 5710, 12.6" new Dutch Precision 5" w/NH3, 5.5" pneu, Raven NH3, MRB 25, full blockage, 6450 TBH, 591, shedded, nice rebuilt unit, \$149,000. 780-662-2614, Tofield, AB.

2013 SEEDHAWK 5010 w/1910 JD cart, 430 bu., dbl. shoot, var. rate, \$130,000 OBO. Call 306-647-2760, Jedburgh, SK.

AIR DRILLS 4250

MORRIS MAXIM 30' double shoot, 10" spacing, Atom Jet side band openers, 3.5" packers, w/7180 TBH Morris tank, \$30,000. 306-237-7571 eves, Perdue, SK.

2009 BOURGAULT 3310, 75' 12" spacing, Paralink, DS, S25 hyd. MRB's, Stk# 022282, \$240,000. 1-866-659-5866, Estevan, SK. www.redheadequipment.ca

JD 35' AIR SEEDER, 12" spacing, on 1610 tool with floating hitch and Morris gang packers, 2.5" Eagle beak openers w/777 JD 160 bu. tank, w/cab cam, field ready, \$7500. 306-331-8388, Fort Q'Appelle, SK.

2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, DS, rear hitch, tandem axles, low acres, \$140,000. 2002 49' Morris Maxim air drill, 12" space, w/7240 Morris grain cart, \$45,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1999 FLEXI-COIL 5000 27', 1330 TBT tank, 9" spacing, 2" spread tips, 3.5" steel packers, \$10,500. 306-372-7604, Luseland, SK.

2011 JD 1870, 56', blockage, w/1910 TBH air cart, 430 bu., 520/85R42 duals, conveyor, excellent condition, asking \$195,000. 306-260-8969, Turtleford, SK.

2008 SEEDMASTER SXL 2100 50', 12", 300 bu. seed, 2100 gallon fert. all on-board. Smart Hitch, 4 cameras, 1 owner \$100,000 Must sell. Call 306-591-1133, Pense, SK.

CONSERVA PAK 35', 12" spacing, DS, plus liquid, knock-on carbides, c/w 1996 Concor 2300 TBH, hydraulic or diesel fan, \$14,000. Call 306-221-0712, Osler, SK.

JD 1830, 61', 10" spacing, 4" pneumatic packers, Atom Jet 3-1/2" paired row openers w/NH3, Raven controller, section control, c/w 1910 330 cart with conveyor, cameras in tanks, very nice, \$79,000 OBO. 306-743-7622, Langenburg, SK.

50' BOURGAULT 5710, NH3 mid rows with 5300 air tank, double fan, \$32,000 OBO, will separate. 306-795-2774, Ituna, SK.

2007 BOURGAULT 5710, 64', 9.8" spacing, 3.5" steel packers, MRB's, \$110,000. Stk# 016344. 1-800-667-9761, Saskatoon, SK. www.redheadequipment.ca

2009 SEED HAWK 72-12, 72', 12" spacing, twin wing openers, 600 TBT cart, Stk# 021477, \$205,000 1-844-323-3003 Prince Albert, www.redheadequipment.ca

2003 SEED HAWK 48', 357 onboard tank, new seed knives, c/w new fert. knives, 12" space, w/Alpine tank. Paul 306-538-4666; Don 306-538-4528, Langbank, SK.

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.

MORRIS MAXIM 49' air drill, slim wedge knock-on clips, 2 sets of openers, front dual castors, 240 bu. TBH tank, \$42,500 OBO. 306-662-7005, Robsart, SK.

1998 JD 1900, 350 bu., 6 run, DS, tow behind, 8" auger, clean unit, \$17,900. 1-800-667-4515, www.combineworld.com

2006 JD 1820, 61', 10" spacing, SS, steel packers, new hoses, all dual wheels, exc. cond, \$16,500. 306-861-4592, Fillmore, SK.

2008 JD 1890 36' air drill, w/1910 cart, DS tank, var. rate, all-run blockage, 7.5" spacing, 340 bu., done 9800 acres, shedded, yf condition. Ph. 204-745-7445, Carman, MB.

2000 FLEXI-COIL 6000 air disc drill w/Flexi-Coil 2320 tank, 40', 10" spacing, Barton II openers, new tires on main frame, \$32,000. 306-279-4325, Wakaw SK

2011 BOURGAULT 3310, 55' DS, v-packers, 6550 tank, 4 tank metering, \$191,000. Stk. 020803. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2009 50' SEEDMASTER, 10", 5-plex, narrow transport, DS, seed brakes, Devloo scrapers, new fert. knives and primary hoses, \$75,000. 306-628-8181, Sceptre, SK.

2000 BOURGAULT 5710, Haukaas markers. Nearly new MRB's, carbide tips and scrapers. Dickey John NH3 kit w/1250 gal. NH3 tank (tank needs painting). \$35,000. 306-873-5382, Tisdale, SK.

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.

2009 FLEXI-COIL 5500 70', fold back, 12" spacing, 4350 TBT variable tank, 4.5" boots, done approx. 20,000 acres, nice shape, SPECIAL \$89,500. 780-386-3979, 780-385-6449, Lougheed, AB.

2007 SEED HAWK 44', 12" sp., 267 tank, NH3 kit, autrate, Agrtron block monitors, winch, \$95,000. 306-923-2231 Torquay SK

AIR DRILLS 4250



2003 CASE/IH PH800, 70', 10" spacing, new Dutch paired row, SS, duals, Stk #012985, \$109,000. 1-800-535-0520, Lloydminster, www.redheadequipment.ca

2003 40' MORRIS Max II, 7180 tank, SS, NH3, MRB's, 10" spacing, A1 cond., 12,000 acres, 1 pass machine, trades welcome, \$46,900. 306-862-7524 or 306-862-7761, Nipawin, SK. www.agriquip.ca

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2006 BOURGAULT 5710, 40', 9.8" spacing, steel packers, 6200 cart, \$60,000. Stk# 020500. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2003 BOURGAULT 5710 29' air drill, DS, Stealth paired row openers, 9.8" spacing, 4300 tank, \$55,000 OBO. 780-771-2155, 780-404-1212, Wandering River, AB.

2012 BOURGAULT 3320 QDA, 66', 10" NH3 kit, MRB's, duals, deluxe auger, \$295,000. Stk. 023175. 1-800-667-9761, Saskatoon, SK. www.redheadequipment.ca

2011 BOURGAULT 3310, 55' DS, v-packers, 6550 tank, 4 tank metering, \$191,000. Stk. 020803. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2005 BOURGAULT 5710, 40', 10" sp, DS, blockage monitors, NH3 equipped, field ready. 2006 Bourgault 6350, air tank c/w hitch, \$60,000; Avail. twin NH3 cart, 5 yr certification. Dave 403-556-3992, Olds, AB

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2010 MORRIS 8370, 3 tank, variable rate, TBT, 440 bu., \$69,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2008 BOURGAULT 5710, 55', 9.8" spacing, new MRB's, carbide tips, 3.5" packers, new NH3 w/2004 5350 air tank, cab rate adj., 3 tanks, 1 fan, \$41,000. Call 306-862-7138 or 306-862-5993, Nipawin, SK.

2009 BOURGAULT 3310 PHD 75', 10", single shoot, MRB, 4.5" pneumatic packers, block sensor, exc. cond., \$110,000 OBO. 306-861-4592, 306-722-3228, Fillmore, SK.

2000 SERIES BOURGAULT air seeder model 2155 w/Valmar. Call 306-868-4615, Trux, SK.

2013 SEEDMASTER, 70' slim fold, with granular applicator, all HD caster w/oversized tires, 28LR26 rears c/w 2012 Bourgault 6550 tank w/duals, \$259,000. Ron 306-648-5394, Ferland, SK.

AIR SEEDERS 4253

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BOURGAULT 40' FH36-42, 8" space, QA on-row packers, QA 40' harrows, Bourgault 3225 tank, excellent condition, \$17,000. Call 306-567-8614, Davidson, SK.

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HARROWS/PACKERS 4256

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- 2011 Bourgault 3320 QDA** 76 Ft, 10" Spacing, 4.5" "V" Packers, MRB III w/ Closer Tine, L6550ST TBT Cart, 4 Tank, Duals, Dlx Auger, 591 Monitor stk: 023731 (SC) **\$372,500**
- 2006 Bourgault 5710** 40 Ft, 9.8" Spacing, Steel Packers, 6200 Cart, Single Fan, Splitter Stk: 020500 (SC) **\$60,000**
- 2010 Case IH ATX700** 70 Ft, Rubber Packers, High Float Tires, Double Shoot, Dutch Openers, 3430 TBH Cart, 30.5/32 Duals, VR Cart, ISO Bus, No Monitor Stk: 020407 (SC) **\$94,000**
- 2010 John Deere 1830** 61 Ft, 10" Spacing, DS Dry, Poirer Openers, Alpine Liquid Kit, 4" Rubber Packers, 430 BU TBH Cart, Conveyor, ISO Stk: 023964 (SC) **\$67,500**
- 2015 Seed Hawk 84-12** 84 Ft, 12" Spacing, Steel Seed & Fert Knives, 30.5L32 Singles, Double Shoot, 800 TBH Cart, SCT, Bag Lift, 10" Auger Stk: 022334 (SA) **\$352,000**
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- 2009 Seed Hawk 66-12** 66 Ft, 12" Spacing, Single Knife, Pneum Pckrs, 30.8 Rear Tires, 800 TBH Cart, Conveyor, Duals, VR Hyd Drive, Viper Pro SCT Stk: 021475 (PA) **\$205,000**
- 2009 Seed Hawk 72-12** 72 Ft, 12" Sp, Twin Wing, Pneum Pckrs, 600 TBT Cart, 10 Inch Auger, VR Hyd Drive, Viper Pro SCT, Duals on Cart Stk: 021477 (PA) **\$205,000**
- 2007 Seed Hawk 66-12** 66 Ft, 12" Spacing, 400 Plus 3 Tank Cart, Auger, 30.5 singles, 30.5 Rear Of Drill, New Primary Hose Stk: 022690 (ES) **\$135,000**
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- 2014 Case IH Steiger 620 Quadtrac**, Lux Cab, HID Lights, Pro 700, Accuguide, Dual Hyd Pumps, 6 Remotes, PTO, 36" Tracks, Tow Cable Stk: 023110 (SA) **\$497,000**
- 2014 Case IH Steiger 550 Quadtrac**, Lux Cab, Dual Hi Cap Hyd Pumps, 1000 PTO, HID Lights, 6 Remotes, Viper Pro, Raven Smartrax Steering, 1690 Hrs Stk: 023776 (PA) **\$481,000**
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2004 JD 9620T
500 HP, 36" tracks in 70% cond, 4 hyds,
3PH, 9798 hrs, clean **\$109,800**
& well maintained.....

1998 NH TV140 BI-DI
140 HP, FEL w/ grapple, 6153 hours,
5 hyds, 3PH, **\$46,800**
540/1000 PTO.....



2008 CIH MAGNUM 275
MFWD, 3182 hrs, PTO, LH rev,
powershift, weights, **\$112,800**
rear duals.....

1998 NH TV140 BI-DI
Bi-directional, FEL w/ grapple,
PTO, 3 PH, **\$29,800**
8627 hrs.....

SEEDING



1998 JD 1900
350 bu, 6 run, dbl shoot,
tow behind, 8" auger,
clean unit..... **\$17,900**

2011 WISHEK 842N
14' disc, hyd level & depth control,
28-29" discs, **\$33,800**
excellent condition.....



2013 SUMMERS 2510DT
18' tandem diamond disc,
23" notched discs,
very good condition..... **\$22,800**

2007 BOURGAULT 5725 SERIES II
47', coulter drill,
9.8" spacing, sgl shoot, **\$29,800**
MRB, NH3.....

COMBINES



2010 JD 9870 STS
1715 hours, Contour Master, bullet rotor,
nice condition,
pickups available..... **\$148,800**

2011 JD 615P
16', header and pickup, nice belts, auger &
floor 80%, overall **\$19,800**
very good condition.....



2009 NH CX8080
1556 hours, AHHC, lat tilt, Intelliview 3, long
auger, very good cond, **\$147,800**
pickups available.....

2000 CAT LEXION 465
2542 hours, tracks 75%, RWA, Cebis,
AHHC, 2 spd cyl, **\$64,800**
pickups available.....

HEADERS



2010 HB 88C
Flex draper, 36', Ull PUR,
DKD, hyd F/A, **\$29,800**
runs well.....

2011 MD D60-D
40' rigid draper, DKD, transport, new knife &
guards, nice header, JD, CNH, **\$46,800**
Lexion, AGCO kits available.



NEW MD PW8
16' pickups
for CNH & JD,
trades wanted!..... **\$29,800**

2009 SWATHMASTER
14', 8 belt, new front belts,
hydraulic windguard,
nice condition..... **\$8,800**

MISCELLANEOUS



2012 HOULE GEA EL48-6D6100
Liquid slurry spreader, 7300 gal, hyd.
power steering, extended **\$59,800**
hopper, 28L-26 tires.....

2001 INGERSOLL-RAND SD70F
Padfoot packer, 2902 hrs,
3.9L Cummins, **\$32,800**
66" Drum.....



1994 LIFT KING FORKLIFT
6000 lb RT forklift model 6M22,
20' lift, cab, side shift, **\$9,980**
2WD, runs well.....

SCHULTE BAT WING MOWER & FLEX ARM
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good blades,
6000 lb capacity hubs..... **\$15,800**

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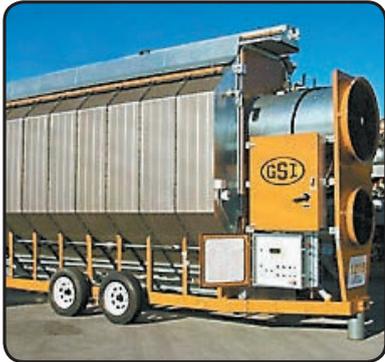
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1720	THE BOREAL	988	\$129,314	\$125,065
1572	MT DOUGLAS	1254	\$151,679	\$146,286
1542	MT EDITH CAVELL	1322	\$149,479	\$143,794
1617	MT. EDITH CAVELL	1537	\$189,038	\$182,428
1624	MT. AUGUSTA	1744	\$261,203	\$253,703
1630	MT. FOSTER	1765	\$260,237	\$252,647
1640	MT. CHELSEA	1801	\$213,945	\$206,200
1633	MT. FOSTER	1702	\$241,551	\$234,232
1645	MT. STEELE	1243	\$144,313	\$138,968
1632	MT. BRETT (finished)	1646	\$237,542	\$230,464
1623	MT. ELLIOT (finished)	1845	\$300,985	\$293,051
1646	MT. ASSINIBOINE	1393	\$174,342	\$168,352
1708	THE KODIAK (finished)	1431	\$200,506	\$194,352
1702	MT. VANIER	1586	\$208,369	\$201,549
1629	MT. COPPER (finished)	2119	\$408,322	\$399,000



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2009 BOURGAULT 3310

746278



\$139,000

75', 10" Space, MRB's, 3/4" Carbide Tips, Dbl Shoot Air Kit



KINISTINO, SK
306-864-2200

2015 JOHN DEERE S670

823007



\$544,700

Premium Cab, Leather, Hid Lights & Extremity, Small Wire Concave, Autotrac W/ HM SF, Gs3 2630 Mntd On Arm Rest, Jdlink Ultimate Rda Promo



MOSSBANK, SK
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2013 JOHN DEERE 4830

825488



\$246,995

100' Boom, Stainless Steel Tank, 2 Sets of Tires, Autotrac, 2630 Display, Section Control



PROVOST, AB
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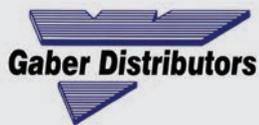
NEW BALDEN CIR

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\$31,800

14ft, 28" Notched, Oil Bath Bearings, 400x60 Tires



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802293



\$480,000

120' Boom, 4 Tridekon Dividers w/Air, 5 Sensor Boomtrac, 620/70R46 Floaters, AMS: SF3000



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2015 HORSCH JOKER RT370

799768



\$110,000

Vertical Tillage



NORTH BATTLEFORD, SK
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2013 CASE IH STEIGER 450HD

828988



\$269,500

1885 Hrs, IF710/70R42, PTO, GPS w/RTK Enable \$2500 Trucking Credit



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BOURGAULT 4700

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\$49,500

with 4300 Tank, 40', Tank Auger



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828661



\$199,000

Stk: 6150, 1350 Acres, Width: 40', 30" Spacing, Split Row 32R 15" or 16R 30", 225 Gal Liquid Fertilizer Tank



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FLEXI-COIL 60" GREEN 5 bar harrows, \$1200. Call 403-820-8028, Morrin, AB.
37" ASSIZ ROLLER. 42" wing up, \$20,000. During the day, please call 403-932-2131, Cochrane, AB.

2013 RITE-WAY HEAVY HARROW, 90", approx. 20" harrows, adjustable pressure and angle, \$35,900. 306-948-7223, Biggar, SK.

SEEDING VARIOUS 4259

36" MELROE 204 press drill, w/factory mover, markers, fertilizer and grass attachment. 306-428-2405, Choiceland, SK.

WANTED: IHC GRASS SEEDER for IHC 6200 disc drill, 6" row seeder, 12' length. No rust or junk please. 403-492-7411, Milk River, AB. Email: wrayswanson@live.com

JD 9350 HOE DRILLS, 30', mover, transport and marker, good shape, seed 6" or 12", \$1800. Call 306-625-7939, Kincaid, SK

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• JD 1820 • Bourgault 5710
• Flexi-coil 7500

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www.combine-world.com



2001 CASE FLOATER: FLX4300 w/Flex-Air 810 box, 4461 hrs, 69,818 kms, foam markers. Cleaned, calibrated & serviced, ready to go! AM/FM & AC, \$55,000. Mallaig, AB, 780-635-3966. TopGroAgro@gmail.com

SEED-RITE: 2-8018, 1-8014 w/packers, 1 M11-33 factory packers, 306-842-5036, 306-861-6466, Weyburn, SK.

DEGELMAN 45" LANDROLLER, \$34,900; Flexi-Coil 6000 30' disc drill, \$16,900 and 5000 57", \$17,900; Rite-Way 60" harrow packer, \$4900. Pro Ag Sales, 306-441-2030, North Battleford, SK.

TILLAGE EQUIPMENT 4262

MORRIS 743 CHISEL PLOW, 12" spacing, good 16" sweeps, w/Degelman hyd. driven rod, \$10,000. 306-463-8416, Eston, SK.

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.

BOURGAULT 8800 CULT, 52", 8" spacing, heavy trips, knock-on sweeps, 4 row harrows, w/interchange packers, air kit for 6 tube delivery, ready to go, reasonably priced. 306-595-2180, Pelly, SK.

2013 JOHN DEERE 2623 vertical tillage unit, 40", excellent shape, \$75,000. 780-679-7795, Camrose, AB.

BOURGAULT 8810 cult., 40", 10" spacing, heavy trips, 4 row harrows, \$28,500. Call Greg at 306-883-2568, Spiritwood, SK.

KELLO-BILT 8' to 20' offset discs w/24" to 36" notched blades; Kello-Bilt 24' to 38" tandem wing discs w/26" and 28" notched blades and oilbath bearings. Red Deer, AB. www.kellohills.com Call: 1-888-500-2646.

EZEE-ON 4490 HD tandem disc, late 2010 model, 24", 9" spacing, 22" disc blades, used approx. 1200 acres. 306-338-2927, Wadena, SK.

3-12" JD DISCS (36"), fair condition, not used for 10 years. Offers. 306-463-4866, 306-463-8800, Kindersley, SK.

JOHN DEERE 425 14' offset disc, had new tires put on a few years ago, \$5000, 306-896-2311, Langenburg, SK.

2008 KELLO-BILT 225TSW discer, 24' field ready, 1 owner, \$43,500. Call 306-542-7674, Kamsack, SK.

BREAKING DISCS: KEWANE, 14' and 12"; Rome 16' and 9"; Wishek 14' and 30". 2-DMI 7 shank rippers. 1-866-938-8537.

MORRIS 45" MAGNUM 7 series cult., c/w Honeybee deadrod, \$3000. 306-460-9027, 306-463-3480, Flaxcombe, SK.

2012 SUMO SUBSOILER, 9 leg. Improve yields, fix ruts and hardpan issues. Steel roller. 204-851-0451, Virden, MB.

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.

1992 37" CASE/IH 5600 HD cultivator, with Degelman mounted 4-row harrows, \$25,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

TRACTORS 4277

1982 ALLIS 7010, c/w 795 Allied loader, very good condition. Call 306-865-3927, Hudson Bay, SK.

WANTED: 4W305; 4W220; 220 and D21. 8 07 0, 8 05 0 or 8 03 0 M F W D. 701-240-5737, Minot, ND.

WHITE 4280

8310, CAB, FEL, Cummins engine, 3800 hrs, last 7 years yard work only, new clutch, \$48,000. Call Morris - evenings, 306-697-3545, Grenfell, SK.

BELARUS 4283

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CASE/IH 4286

WANTED: 4786 IHC, 1980 and newer in good condition. Call 780-635-2527, St. Vincent, AB.

CASE/IH 9150, powershift, new tires 2 yrs. ago, 8250 hrs., return line, no PTO, \$40,000. 780-608-9024, Tofield, AB.

1984 IH 5088, 130 HP 8920 hours, triple hydraulics, dual PTO, 20.8x38 radials, \$17,500. 204-525-4521, Minitonas, MB. www.waltersequipment.com

2006 CIH STX375, powershift, PTO, 1917 hrs.; 2009 STX335, c/w 6-way Degelman blade/guard, 1281 hrs; 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.

2016 CASE MAXIM 145, 150 HP, FWA, loader, grapple, like new, \$178,000. 780-352-8858, Bittern Lake, AB.

2009 CASE/IH MX435, Outback guidance, 710/70 tires, rear weights, std. trans., 4 hyd., 3100 hrs., shedded, \$183,000. Nipawin, SK. 306-862-7138 or 306-862-5993

1984 2094, 1000 hrs. since major motor, rad and torque convert OH, \$16,000 OBO. 306-221-8461 or 306-544-2707, Hanley

WANTED: 4786 IHC, 1980 and newer in good condition. Call 780-635-2527, St. Vincent, AB.

CIH 1486, 8100 hrs., \$10,000 work order last fall, vg cond., \$18,000. 780-819-7193, Redwater, AB. danespride@aol.com

1998 STEIGER 9370, 3695 hrs., standard 12 spd., 360 HP, always shedded, \$90,000. Call 780-943-2039, Heinsburg, AB.

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.

CASE/IH STEIGER 450 HD, 3PTH, 2012, 1820 hrs., PS, 800 Firestone's, loaded, no PTO, 35 month - 1500 hr. extended PowerTrain warranty, Pro 700/372 Auto-Steer, \$278,000 OBO. Call 306-960-3230 or 306-981-3281, Prince Albert, SK.

NEW UNDERCARRIAGE REPLACEMENT parts for CIH Quadtracs, JD 9000T, Challenger MT. Bogeys \$798 and seal \$189. More shipments arriving. 1-800-667-4515. www.combine-world.com

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2011 CIH 500 HD, full load without PTO, 1572 hrs., twin pumps, 800 Michelins, \$285,000. Ron 306-648-5394, Ferland, SK.

LIZARD CREEK REPAIR and Tractor. We buy 90 and 94 Series Case, 2 WD, FWA tractors for parts and rebuilding. Also have rebuilt tractors and parts for sale. 306-784-7841, Herbert, SK.

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CATERPILLAR 4292

2006 CHALLENGER MT765, 6500 hrs., 3 PTH, PTO, very nice, cond. Delivery avail. \$115,000 Cdn OBO. Call 218-779-1710.

JOHN DEERE 4295

JD 4560, PS, 2WD, 5000 original hrs., 70% tires, clamp on duals, vg cond., \$52,500. Call Blaine at 306-621-9751, Yorkton, SK.

JD 9400, 4350 hrs., quad trans., big tires, complete GPS, exc. cond., \$112,000. Will take JD loader tractor in trade. Call 780-467-9912, Sherwood Park, AB.

1990 JD 4455, exc. shape, completely restored, less than 2000 orig. hours! Charles Cattle Co., 306-457-2935, Stoughton, SK.

JOHN DEERE 4430 w/JD 148 loader, QuadShift, 18.4x38 singles, 2 hyd., exc. cond. 306-283-4747, Langham, SK.

JOHN DEERE 4295

JD 4020 PS, dual hyd. and PTO, good tires, \$6800. Call 204-525-4521, Minitonas, MB. www.waltersequipment.com

1977 JD 1830, 145 FEL, CAHR, 3 PTH, low hrs., 540 PTO, good rubber, \$14,800 OBO. Call 306-357-2136, Wiseton, SK.

STEVE'S TRACTOR REBUILDER specializing in rebuilding JD tractors. Want Series 20s, 30s, 40s, 50s, 7000s to rebuild or for parts. pay top \$\$. Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

2010 JD 7730, MFD, 620x42 rear tires, Powerquad trans., 746 loader and grapple, 3350 hrs. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

JD 8850, 4 hyd., plus return line, Auto-Steer GPS - Outback S2, very good cond., good tires, very clean tractor, \$38,000. 306-861-4592, Fillmore, SK.

1976 JOHN DEERE 4630, 4550 hrs., 20.8-38 duals at 10%, quad range, 2 hyd., c/w Degelman 45/57 12' blade, good condition, \$26,500. 306-960-9586, Meath Park, SK. jodylysik@sasktel.net

2000 JD 7710, 5130 hrs; 2006 7720, 6200 hrs; 2003 7810, 4200 hrs; 2011 8295R, 4900 hrs, IVT. All MFWD, can be equipped w/loaders. 204-522-6333, Melita, MB.

2008 JD 5625, 99 HP, CAHR, FWA, 3PTH., c/w JD FEL, approx. 2600 hrs., \$54,500 OBO. 306-291-4869, Dundurn, SK.



2012 9510R, 960 hrs., PS, 17' 6-Way blade, premium cab, 9030 lbs. cast, no PTO, ext. warranty, many extras. Reduced! \$325,000. 780-808-3141, Lloydminster, AB

2008 JD 5303, 2 WD, 60 HP, 3 PTH, PTO, quick detach 522 loader, 565 hrs., exc., \$35,000 OBO. 306-771-0001, Balgonie, SK.

2009 JD 9430, 24 speed for hyd., 3955 hrs, 710/70R42 duals, original owner, nice condition, asking \$188,500. Call Dan 306-725-4286, Bulyea, SK.

JD 4630, 8 spd. powershift, new paint, 20.8x38 duals- 70%, small shaft PTO, Pioneer couplers, 5512 hrs., LED lights, \$25,000. 306-424-7761, Montmartre, SK.

2010 JD 7130 w/741 loader, new motor, 5500 hrs. new tires, PowerQuad, front susp., GPS.; And new Degelman blade, model 12-46/57, \$15,500. Call Henry at 403-588-0958, Alox, AB.

1998 JD 8100, 5358 hrs., newer 18.4x42 duals, 16.9x28 fronts, 16 spd. powershift, 1000 PTO, cast weights, no 3 PTH, exc., \$72,000. 204-739-3089, Oak Point, MB.

2- 2012 JD 9510R 4WD, 930 hrs and 1622 hrs., St. hyd., 5 remotes, weight pkg, Firestone 800/70R38's, \$212,500 USD and \$194,500. 320-848-2496, 320-894-6560, Fairfax, MN. www.ms-diversified.com

RARE!! 1983 JD 750F MFD diesel, 3PTH, 9.5x24 rears, 6x14 fronts, power steering, 540 PTO, 1069 hrs., exc. cond.; c/w Brandt 20' 3PTH sprayer, PTO pump, 60 gal. poly tank, hand wand, exc. cond. Both shedded, \$15,500. Can separate. 306-540-7870, Ponteix, SK.

JOHN DEERE 4650 w/powershift, approx 8000 hrs., 20.8x38 duals, 1000 PTO, \$30,000. 306-948-7223, Biggar, SK.

2007 JD 9420, 4713 hrs., 1 owner, all available options, 800 Firestone deep tread tires, weights, 15 spd. Powershift, climate control, Active Seat, extra lighting, SN# RW9420P051184, excellent condition, \$175,000. Charles Cattle Co., 306-457-2935, Stoughton, SK.

NEW MANDAKO CATEGORY II 3PTH for JD 7000 Series tractors, still in crate, \$2600. 306-744-7955, Saltcoats, SK.

1991 JD 4755, 20.8x42 Firestone radial tires, 15 spd. powershift, tripe hydraulics, approx. 5600 hrs., \$46,500. 306-367-2043 leave message, Middle Lake, SK.

UTILITY TRACTORS: John Deere 6200, 4400 hrs; JD 6310 w/640 loader, 4500 hrs. Call 204-522-6333, Melita, MB.

WANTED: GOOD USED JD FWA tractor, 125-180HP. 2000-2014, preferably low hrs. Phone Myles, 306-745-6140 or 306-745-7530 (cell), Esterhazy, SK.

2003 JD 7810, 4500 hrs., never winter used, never had loader, loaded, 20 spd. quad, 3PTH. 780-990-8412, Edmonton, AB

1991 JD 8560, 4 WD, 6000 hrs., nice shape, 12 spd., 3 hyd., \$42,000. 780-814-2241, Grande Prairie, AB.

1977 JD 4430 w/606 PT mower behind, very low hrs., always shedded, excellent condition. 306-717-2971, Saskatoon, SK.

1979 JD 4440, 7489 hrs., CAHR - quad range, 18.4x38 new rear tires, 18.4x38 clamp-on duals, 4 rib new fronts, 540-1000 PTO, 2 hyd., c/w JD 148 FEL and joystick w/6' bucket, plumbed for Out-Back GPS AutoSteer, exc. cond., shedded, \$39,000 OBO. 306-540-7870, Ponteix, SK.

JD TRACTORS: 8650, 8450, 4650 FWD, 4255 FWD, 4440. Will take tractors that need work. Call 204-871-5170, Austin, MB.

WANTED: JD 8650 or 86 Series Tractor. With or without blade. Can need repairs. 306-238-4590, Goodsoil, SK.

JD 4630, loader, cab; Case 2870, 4x4, Degelman dozer; Cockshutt 550 gas; 1981 GMC 17' B&H. 306-238-4411, Goodsoil, SK

KUBOTA 4298

2016 KUBOTA M5-111, 105 HP c/w FEL, FWA, shuttle shift, 22 hrs, 6 year warranty, \$70,500. Call 306-554-2901, Wynyard, SK.

MASSEY FERGUSON 4301

2012 MASSEY 6490, 2200 hrs., MFWD. Call 204-522-6333, Melita, MB.

2015 GC1705, 22.5 HP 4 WD, loader, 60" mid mower, 500 hrs., like new cond., \$14,500 OBO. 306-232-5488, Rosthern, SK

NEW HOLLAND 4304

2006 TG210, FRONT wheel assist, 7900 hrs., excellent tires, 3 PTO 540/1000, exc. cond., \$63,500 Cdn OBO. 218-779-1710.

2014 NEW HOLLAND T8.330, MFWD, Only 920 hrs., 50 km/AutoCommand/CVT, Megaflow 68 gal. pump, 5 remotes, dynamic front fenders, factory installed, front 3 PTH, HID light package, deluxe cab w/leather seats, full GPS w/IntelliView 4 monitor (Pro 700), 800/70R38 rear tires w/3000 lb. wheel weights, 600/70R30 front tires, 540/1000/big 1000 PTO, front axle susp., HD cab susp., many more options. Mint! Exc. cond., \$155,000 OBO. 306-861-2500, Weyburn, SK. kruitenterprises@gmail.com

1998 TV140 BI-DI, loader and grapple, 3 pedals, 3PTH, 3800 hrs., rear weight package, \$60,000; FORD TW30, 2wd, 3 remotes, \$11,000. 306-948-7377, Biggar, SK.

2003 NH TJ450 w/full PS, 4600 hrs., Megaflow hyd. 103 gal/min., 900 metric duals, \$135,000. 306-948-7223, Biggar, SK.

FORD 4307

1995 9680, approx. 7000 hrs., manual transmission, 20.8x42 tires, \$10,000 work order, \$59,000. 306-948-7223, Biggar, SK.

VERSATILE 4310

VERSATILE 836, POWERSHIFT, PTO, 4 new tires, very clean unit. Call 403-823-1894, Drumheller, AB.

TWO 1979 VERS. 855 4WD, 1 with Atom Jet hyd. kit. For details 306-483-8257, Oxbow, SK. coldridge@sasktel.net

1992 FORD/VERSATILE 946, 20.8x42 duals, AutoSteer JD Globe and monitor, very nice, \$48,000 Cdn OBO. Delivery available. Call 218-779-1710.

946 FORD/VERS., 1992, 20.8x42 duals, 6020 hrs, always shedded, just serviced, exc. cond., \$52,500 OBO. 306-634-7416, Estevan, SK.

VERSATILE TRACTORS: Many early and late models available. Great prices! 1984 Versatile 975, 855 Cummins, new: paint, interior, pins and bushings, 8000 hours, very nice, hard to find! \$34,500 CDN OBO. Delivery available. Call 218-779-1710.

1978 VERSATILE 835, 10,000 hrs., \$15,000; Tor-Master super harrow, 56', \$8500. 204-325-3496, Winkler, MB.

1988 VERS. 846, 18.4x38 tires- 50%, 7400 hrs., good working cond. Asking \$28,500. Call Tom 306-747-3292, Shellbrook, SK.

VERSATILE 450 used; 450, 500, 550 and 550D new. Call KMK Sales Ltd. 306-682-0738, Humboldt, SK.

2006 VERSATILE 210 HP FWA, w/duals and Alo front end loader and grapple, \$94,000. 306-728-9033, Melville, SK.

VARIOUS TRACTORS 4319

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2013 LS P7040C, MFWD, 97 HP, 525 hrs., w/LL 7101 FEL, 40 gear shuttle shift trans., PTO, 78" 3PTH, QA bucket, like new cond., \$54,000 OBO. 780-482-5273, Edmonton, AB. group.6@outlook.com

2008 MCCORMICK MTX150, 2300 hrs.; 2006 McCormick MTX150, 3200 hrs. Phone 204-522-6333, Melita, MB.

LOADERS/DOZERS 4322

LEON 707 LOADER

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SOLIDLOCK AND TREE ISLAND game wire and all accessories for installation. Heights from 26" to 120". Ideal for elk, deer, bison, sheep, swine, cattle, etc. Tom Jensen ph/fax: 306-426-2305, Smeaton, SK.

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CUSTOM FENCING AND corral building, no job too big or too small. Call 306-699-7450, Qu'Appelle, SK.

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BLOCKED AND SEASONED FIREWOOD: \$180 per 160 ft. > cord; bags \$80 (incl. refundable deposit for bag). Bundles of 4'-5' or 6'-5' also avail. Vermette Wood Preservers 1-800-667-0094, Spruce Home, SK.

BLOCKED SEASONED JACK Pine firewood and wood chips for sale. Lehner Wood Preservers Ltd., 306-763-4232, Prince Albert, SK. Will deliver. Self-unloading trailer.

FISH/FISH FARMING 4500

NOW Available

BEV'S FISH & SEAFOOD LTD., buy direct, fresh fish: Pickerel, Northern Pike, Whitefish and Lake Trout. Seafood also available. Phone toll free 1-877-434-7477, 306-763-8277, Prince Albert, SK.

KEET'S FISH FARM: Rainbow Trout fingerlings for spring stocking. Collin 306-260-0288, Rachel 306-270-4639, Saskatoon, SK. www.keetsfishfarm.com

CLEAR SPRINGS TROUT FARM Rainbow Trout, 4", 6" and 8" for spring stocking. 204-937-4403, 204-937-8087, Roblin, MB.

FORESTRY/LOGGING EQUIPMENT 4550

28T LOG SPLITTER GX200 Honda eng. BNLS28TGX. Regular \$2115, Now \$1850. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

FORK LIFTS/ PALLET TRUCKS 4600

1994 LIFT KING Forklift, 6000 lb. RT model 6M22, 20' lift, cab, side shift, 2WD, runs well, \$11,800. 1-800-667-4515, www.combineworld.com

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NEW AND USED generators, all sizes from 5 kw to 3000 kw, gas, LPG or diesel. Phone for availability and prices. Many used in stock. 204-643-5441, Fraserwood, MB.

3500 WATT INVERTER GENERATOR, 212cc gas eng., S/N BN3500IG. Reg. \$1230, Now \$1099! 306-682-9920, Humboldt, SK., www.farmworld.ca

FOUR 10 KW to 43 KW generators for sale. 306-398-2559 leave msg., Cut Knife, SK.

3100 WATT GENERATOR 210cc Power-rease OHV engine, MN3100PR, regular \$545, Sale \$465. Call 306-922-2525, Prince Albert, SK. or www.farmworld.ca

HEATING/ AIR CONDITIONING 4850

WWW.NOUTILITYBILLS.COM - Indoor & outdoor - coal, grain, multi-fuel, gas, oil, pellet, propane and wood fired boilers, cook stoves, fireplaces, furnaces, heaters and stoves. Athabasca, AB, 780-628-4835.

IRON/STEEL 4960

DRILL STEM: 200 3-1/2", \$45/ea; 700 2-3/8", \$34/ea; 300 1" rods; 1000 2-7/8", \$39/ea. 306-768-8555, Carrot River, SK.

IRON/STEEL 4960

2-7/8" OILFIELD TUBING, \$40 each; 3/4" sucker rods, \$6 each. Truckload quantities only. Call 306-861-1280, Weyburn, SK.

IRRIGATION EQUIPMENT 4980

WESTERN IRRIGATION: CADMAN Dealer. We BUY and SELL traveling guns, pumps, pipes, etc.; 1 Cadman 4000S wide body big gun, like new; Selling used pipe trailers and 6" pipe. 306-867-9461, 306-867-7037, Outlook, SK. deraldreg@hotmail.com

WATER IN THE WRONG PLACE: Used pumping motors, PTO carts, 6" - 10" alum. pipe. 50 years experience. Call Dennis 403-308-1400, Taber, AB.

BLUE WATER IRRIGATION DEV. LTD. Reinke pivots, lateral, minigators, pump and used mainline, new Bauer travelers dealer. 22 yrs. experience. 306-858-7351, Lucky Lake, SK. www.philsirrigation.ca

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LAWN/GARDEN 4988

NH TZ24DA, SENSITRAC 4 WD, 3 PTH, 166 hrs., 4' rototiller, 5' finishing mower, \$10,000. 306-694-1963, 306-631-7058, Moose Jaw, SK.

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SELECT SEEDLING NURSERY is pleased to offer residents, acreages and farms an amazing assortment of seedlings: spruce, pine, ash, maples, flowering crabs, lilacs, saskatoons, caraganas and much more. All 15 to 60 cm high. Very affordable. Phone 306-978-1940, Saskatoon, SK.



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LIVESTOCK

BISON/BUFFALO 5001

NEBRASKA BISON BUYING all classes Calves, yearlings, adults, finished bison. Call Randy Miller 402-430-7058 or email: RandyMiller@Miller95Enterprises.com

BISON WANTED - Canadian Prairie Bison is looking to contract grain finished bison, as well as calves and yearlings for growing markets. Contact Roger Provencher at 306-468-2316, roger@cdnbison.com

HARMONY NATURAL BISON buying all types of bison. Call or text 306-736-3454, SE Sask. dean@harmonyhealthfoods.ca

QUILL CREEK BISON is looking for finished, and all other types of bison. COD, paying market prices. "Producers working with Producers." Delivery points in SK. and MB. Call 306-231-9110, Quill Lake, SK.

NORTHFORK- INDUSTRY LEADER for over 15 years, is looking for finished bison, grain or grass fed. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

BUYING: CULL COWS, herdshire bulls, yearlings and calves. Now dealer for Redmond Bison mineral. Call Elk Valley Ranches, 780-846-2980, Kitscoty, AB.

2 YEAR OLD BISON BULLS: Semen tested, ADG exceeding 2.5 lbs., guaranteed. Ph: Kent McAllister 780-808-1592, Kitscoty AB

22 YEARLING HEIFERS for sale. Approx. 800 to 900 lbs; 32 yr., old breeding bulls approx 1300-1400 lbs; 3 3yr., old bulls, you come and pick what you like. Call 306-728-4906 or 306-728-8506 after 6:00 PM, Melville, SK.

WANT TO PURCHASE cull bison bulls and cows, \$5/lb. HHW. Finished beef steers and heifers for slaughter. We are also buying compromised cattle that can't make a long trip. Oak Ridge Meats, McCreary, 204-835-2365, 204-476-0147.

THE PASKAWA BISON PRODUCERS COALITION is a registered Non-Profit Corporation dedicated to raising public awareness to the threat Malignant Catarrhal Fever (MCF) poses to the bison industry. For further info contact Robert Johnson pskwbpc@gmail.com

NILSSON BROS INC. buying finished bison on the rail, also cull cows at Lacombe, AB. For spring delivery and beyond. Smaller groups welcome. Fair, competitive and assured payment. Contact Richard Binter 306-873-3184.

QUILL CREEK BISON has 200 2015 breeding heifers, raised right, ready to go! Call Doug 306-231-9110, Quill Lake, SK.

CATTLE

AUCTION SALES 5005

200 BULLS OF ALL BREEDS at the Last Chance All Breeds bull sale, Tuesday May 30th at 12:00 PM at Johnstone Auction Mart in Moose Jaw, SK. Yearlings and 2 year olds: Charolais, Simmental, Hereford, Black and Red Angus, Gelbvieh, Limousin, Maine, and Speckle Park. Catalogue online at www.johnstoneauction.ca or call 306-693-4715. PL #914447

BLACK ANGUS 5010

SELLING OFF THE farm reg. Black Angus 2 year old and yearling bulls. Moderate birthweights, semen tested, reasonably priced. Phone 306-460-8520, Kindersley, SK. View: www.dolittleangus.com

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

BLACKTOF ANGUS OFFERS Canadian bloodlines yearling and 2 year old bulls, semen tested and full vaccinations. 780-662-2024, Tofield, AB.

BLACK ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca



JOHNSTON/ FERTILE VALLEY Private Treaty Bull Sale. All JFV bulls will be sold off the yard this year. Over 125 thick, easy fleshing good haired yearling and 2 year old bulls selected from 600 low maintenance, high production cows. They are sired by the leading A.I. bulls in the industry including Regard, Resource, Renown, International, Ten Speed, Glanworth 57U, Special Focus and Brilliance. Many of these bulls are suitable for heifers. All bulls are semen tested with complete performance info. available. Deferred payment program with 60% down and 40% interest free due Dec. 1, 2017. Come and see one of the most respected cowherds in Canada. Select the bull or group of bulls that you really want at your leisure without the pressure of a sale. David and Dennis Johnston 306-856-4726, Conquest, SK. View the cowherd online at website: www.johnstonfertilevalley.com

ANGUS BULLS for sale, tested for rate of gain, feed conversion, semen, many suitable for heifers. Breeding Angus since 1981. Blue Gention Angus, call Norman Bednar 204-380-2551, Vita, MB.

REGISTERED YEARLING and 2 year old Angus bulls, some from AI sires, EPD's available. Semen tested. Hightree Cattle, Wilkie, SK., call 306-843-7354 or 306-843-2054.

COW/CALF PAIRS. Purebred Angus. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

SOUTH VIEW RANCH has Black and Red Angus 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

BLACKTOF ANGUS COW/CALF pairs, calves born Jan/Feb. Canadian bloodlines. Call 780-662-2024, Tofield, AB.

REG. BLACK ANGUS yearling bulls. Semen tested, ready to go. Delivery avail. Brookside Angus 204-841-5466, Brookdale, MB.

BLACK ANGUS 2 year old bulls, semen tested and guaranteed. Call Andy 306-697-7897, Grenfell, SK.

BLAIRS AG CATTLE CO. 25 Black and Red Angus bulls. Top cut genetic, semen tested, trich tested, guaranteed. Contact Blake at bmacmillan@blairs.ag or 306-528-7484. Scott at 306-536-2157 or sjcattle@sasktel.net Indian Head, SK.

BLACK ANGUS YEARLING and 2 year old bulls on moderate growing ration, performance info. available. Adrian or Brian and Elaine Edwards, Valleyhills Angus, Glaslyn, SK. Call 306-441-0946 or 306-342-4407. www.valleyhillsangus.com



WAVENY ANGUS FARM. Two year old and yearling bulls available. Semen tested, ready to go. Correct and growthy. Call Mike Chase 780-853-3384 or 780-853-2275, Vermilion, AB.

2 YR OLD BLACK ANGUS BULLS: Ranch raised, semen tested and ready to work, BW range from 75 lb. to 88 lb. Good temperament and feet. Can deliver, \$4500. Call 403-325-1245, sharpplayranch@gmail.com Rockyford, AB.

REGISTERED YEARLING ANGUS bulls. Good quality, semen tested Black Angus and Red Angus bulls. Suitable for heifers or cows. Wilbar Cattle Co, Dundurn, SK., Bryan 306-492-7504, wilbarcattle@gmail.com

VIDEOS: WWW.DKFANGUS.CA Select now. Get later. Great selection. Superior quality. DKF Black And Red Angus bulls at DKF Ranch, anytime. Gladmar, SK. Scott Fettes 306-815-7023 or Dwayne 306-969-4506.

MIDNITE OIL CATTLE CO. has on offer semen tested yearling and 2 year old bulls. 306-734-2850, 306-734-7675, Craik, SK.

BLACK ANGUS YEARLING bulls. Semen tested, full EPD's available. Cow and heifer bulls available, \$4000 OBO. Please call 306-771-2305 or 306-533-3324, Balgonie, SK. valleylodge@sasktel.net

2 YEAR OLD and yearling Angus bulls. 306-345-2046, Pense, SK.

BLACK ANGUS 5010

PUREBRED BLACK ANGUS long yearling bulls, replacement heifers, AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

GOOD QUALITY PB Black Angus 2 yr. old bulls, semen tested and guaranteed breeders. Phone David or Pat 306-963-2639 or 306-963-7739, Imperial, SK.

OLE FARMS is offering a large selection of Black and Red Angus 2 year old bulls. Call 780-689-8324, Athabasca, AB.

BLACK MEADOW'S ANGUS offers for sale: High quality Black Angus bulls, bunk fed alfalfa based ration, fertility tested, full vaccination program. Free delivery. Complete CAA info available. Contact Bill 204-567-3782, Miniota, MB.

30 BLACK ANGUS 2 year old bulls. Calving ease and performance lines. Board and delivery available. Rob Garner 306-946-7946, Simpson, SK.

PERFORMANCE AND SEMEN tested Black Angus yearling bulls. Bred for performance and calving ease. HBH Farms, Ray or Barb Airey 204-566-2134, Rivers, MB.

RED ANGUS 5015

90- TWO YR OLD and yearling Red Angus bulls. Guaranteed, semen tested and delivered in the spring. Bob Jensen, 306-967-2770, Leader, SK.

MCTAVISH RED ANGUS yearling bulls. Semen tested and quiet. Delivered. Call/text Jared at 306-435-9842, Moosomin, SK.

VIDEOS: WWW.DKFANGUS.CA Select now. Get later. Great selection. Superior quality. DKF Red And Black Angus bulls at DKF Ranch, anytime. Gladmar, SK. Scott Fettes 306-815-7023 or Dwayne 306-969-4506.

20 RED ANGUS 2 yr old bulls. Calving ease and maternal lines. Board and delivery avail. Rob Garner 306-946-7946, Simpson

RED ANGUS YEARLING and 2 year old bulls on moderate growing ration, performance info. available. Adrian or Brian and Elaine Edwards, Valleyhills Angus, Glaslyn, SK. Call 306-441-0946 or 306-342-4407. www.valleyhillsangus.com

3 YEAR OLD Red Angus herd sire. Excellent producer use on purebred herd. Little de Ranch, 306-845-2406, Turtleford, SK.

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

ANDERSON CATTLE CO. 2 year old and yearling Red and Black Angus bulls. Semen tested, delivery available. Swan River, MB., 204-734-2073, videos at andersoncattle.ca

2 YEAR OLD and yearling purebred Red Angus bulls for sale. High Caliber Angus, 306-745-3786, Esterhazy, SK

RED ANGUS YEARLING bull, AI sired by LSF Conqueror, 67 lbs. birthweight, sure calving ease. Blue Gention Angus, Norman Bednar 204-380-2551, Vita, MB.

RED ANGUS BULLS with excellent hair and exceptional feet. Rugged cow bulls and beefy heifer bulls. EKW Red Angus, Elmer Wiebe, 306-381-3691, Hague, SK.



REGISTERED, LOW BIRTHWEIGHT heifer, yearling bulls. Big strong cow bulls. Calving ease, maternal bloodlines. Vet inspected, semen tested, guaranteed breeders, delivered. For pictures, info, and prices go to www.belleredangus.com 306-845-2557, 306-845-7601. Turtleford, SK. Email: evandglen@litttleloon.ca

RED ANGUS and SIMM./Angus cross yearling and 2 year old bulls. Call LVV Ranch, 780-582-2254, Forestburg, AB.

REGISTERED RED ANGUS 2 year old and yearling bulls, some from AI sires, quiet, semen tested, IBR shots, ready to go. Hightree Cattle, Wilkie, SK., 306-843-7354 or 306-843-2054.

QUALITY TWO YEAR OLD bulls. Select group of yearlings also available. Excellent semen tests. Decorah Red Angus, call Murray 306-867-7206, Dinsmore, SK.

GOOD GROWTHY Red Angus bulls, excellent cow bulls with high weaning weights; Heifer bulls, moderate BW. Semen tested. Delivery. Little de Ranch, 306-845-2406, Turtleford, SK.

COW/CALF PAIRS. Purebred Angus. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

2 YEAR OLD & yearling bulls, semen tested & delivered. Call Guy Sampson, Davidson, SK., 306-567-4207 or 306-561-7665.

2 YR. OLD Red Angus bulls, pail fed, quiet disposition, some suitable for heifers. Call 306-773-6633, Swift Current, SK.

YEARLING RED and BLACK Angus bulls, easy calving, light to moderate BW. Semen tested and guaranteed, \$2500. Davidson Angus and Bellshill Red Angus, Sedgewick, AB., call 780-384-2354 or 780-888-7585.

FOR SALE BY Private Treaty: Yearling and 2 year old Red Angus bulls. Arm River Red Angus, 306-567-4702, Davidson, SK.

SOUTH VIEW RANCH has Red and Black Angus yearling and 2 yr old bulls. Ceylon, SK. Phone Shane 306-869-8074, Keith 306-454-2730.

BLONDE D'AQUITAINE 5035

POLLED YEARLING BLONDE BULLS for sale, Estevan, SK. area. Phone 306-634-2174 or cell 306-421-6987.

CHAROLAIS 5055

COMING 2 YR. old polled PB Charolais bulls, come red factor. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

CHAROLAIS 5055

REGISTERED PB CHAROLAIS yearling and 2 yr. old bulls by private treaty. Semen tested and guaranteed. Call Brad 204-537-2367, 204-523-0062, Belmont, MB. www.clinccattlecompany.ca

RED WHITE TAN Charolais bulls, yearling and two year olds, Canyon Timeout, and Landmark bloodlines, semen tested and delivered. Wheatheart Charolais, Rose-town, SK., 306-882-6444 or 306-831-9369

2 YEAR OLD polled Charolais bulls. Also Charolais yearling bulls polled and horned, semen tested and delivered. Call Layne and Paula Evans at 306-252-2246 or 306-561-7147, Kenaston, SK.



PB CHAROLAIS BULLS, yearlings and 2 yr. olds, whites and tans. Call 306-429-2711 or 306-529-6268, Glenavon, SK.

MACMILLAN CHAROLAIS Purebred reg. yearling bulls available. Bred for growth, easy keeping and market demand. Thick bulls with good feet, lots of hair and very quiet. Bulls are semen tested and ready to go! Contact Lorna 306-227-2774 or 306-931-2893, Saskatoon, SK.

GOOD QUALITY YEARLING and 2 year old Charolais bulls. Mostly AI sired. Semen tested. Some Red Factors. Will feed until breeding time. Contact Bar H Charolais, Grenfell, SK. Kevin Haylock, 306-697-2901 or 306-931-2893, Saskatoon, SK.

2 YEAR OLD registered purebred Charolais bulls, polled, white, good feet, lots of hair, easy keeping, very quiet. Semen tested and delivered. Call Quailman Charolais, 306-492-4634, Dundum, SK.

REGISTERED CHAROLAIS BULLS, 2 year olds and yearlings. Polled, horned, some red. Quiet hand fed, hairy bulls. 40+ head available. Will at Cougar Hill Ranch 306-728-2800, 306-730-8722, Melville, SK

YEARLING CHAROLAIS BULLS: We have a good selection of Yearling bulls at the farm. Good genetics and structure. Ready to go to work for you! Walking Plow Charolais, Woodmore, MB. Call 204-427-2589 or 204-427-3906, Email: crgraydon@yahoo.ca

CREEK'S EDGE PUREBRED Charolais yearling bulls for sale, off the farm. We welcome you to our bull pen anytime. Call Stephen 306-279-2033 or 306-279-7709, Yellow Creek, SK. View all our bulls online: www.creeksedgecharolais.ca

YEARLING & 2 YEAR old Charolais bulls, Creedence Charolais Ranch, Ervin Zayak, 780-741-3868, 780-853-0708 Derwent, AB

2 YR OLD and yearling bulls, polled, semen tested, guaranteed, delivered. Prairie Gold Charolais, 306-882-4081, Rosestown, SK.

MCTAVISH CHAROLAIS YEARLING bulls. Calving ease, performance, semen tested. Delivered. Call/text Jared 306-435-9842, Moosomin, SK.

REGISTERED POLLED YEARLING Charolais bulls for sale. Call Larry 306-883-2169 evenings, Spiritwood, SK.

YEARLING AND 2 YEAR old bulls, sired by Silver Bullet and Roundup, semen tested, Martens Charolais & Seed. Phone 204-534-8370. Boissevain, MB.

CHAROLAIS BULLS, YEARLING and 2 year olds. Contact LVV Ranch, 780-582-2254, Forestburg, AB.

DEXTER 5065

OLDER DEXTER COWS, bred Spe

SIMMENTAL 5205

PIZZEY SIMMENTAL is selling at the farm yearling and 2 year old Red, Black and full Fleckvieh bulls, moderate BW. Call Calvin 204-847-2055, Fox Warren, MB.

BLACK AND BLACK BALDIE Simmental Bulls, good selection of yearlings 2 year olds. Excellent quality with good hair coats and disposition second to none! Semen tested. Delivery available. Call Regan Schiacter 306-231-9758, Humboldt, SK.

5-W SIMMENTALS is selling at the farm purebred 2 year old and yearling red, black and tan bulls. Polled, semen tested. Can deliver or keep until you need them. Priced to sell \$2000 and up. Jeff 204-868-5040, Sandy Lake, MB.



RED AND BLACK Simmental bulls. One 2 year old and 2 Red Angus cross. Semen tested and guaranteed. Delivery options available. EDN Simmentals, Dean Neitz 306-662-3941, Maple Creek, SK.

BLACK YEARLING SIMMENTAL BULLS, moderate BW, excellent temperaments, semen tested, ready to go. Bill or Virginia Peters, 306-237-9506, Perdue, SK.

YEARLING BLACK, RED or FB Bulls: Docile, semen tested, ready to work. North Creek Simmentals, Borden, SK. 306-230-3123.

SIMMENTAL & SIMMENTAL CROSS Red Angus yearling bulls. Polled. Semen checked and delivered. Reasonable birth weights. McVicar Stock Farms Ltd., Colony, SK. 306-255-2799 or 306-255-7551.

TOP QUALITY RED FACTOR yearling Simmental bulls. Good hair coats. Polled. Semen tested, ready to go. Also 1 Red Factor Simm./Angus cross 2 year old bull, polled. Green Spruce Simmental 306-467-4975, 306-467-7912, Duck Lake, SK.

SPECKLE PARK 5215

7 **SPECKLE PARK**, 6 cows, 3 with calves, 3 to calf, and 1 yearling bull. Call 306-594-2904, Norquay, SK.

TEXAS LONGHORN 5225

FOR SALE: YEARLING 7/8 and 15/16 percentage solid red polled bulls. Bred up from polled Herefords & Red Angus. Easy calving, ideal heifer bulls. Regina View Farms, 306-586-9851, Regina, SK.

ALBERTA TEXAS LONGHORN Association 780-387-4874, Leduc, AB. For more info. www.albertatexaslonghorn.com

REG. TEXAS LONGHORN bulls, pairs and open heifers. Call Dean at Panorama Ranch, 403-391-6043, Stauffer, AB.

WELSH BLACK 5235

WELSH BLACK POLLED yearling bulls, black and red. A few 2 yr old bulls, yearling heifers, black and red. Call Scott Farms, 403-854-2135, Hanna, AB.

WELSH BLACK- The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

CATTLE VARIOUS 5240

3 TO 6 YEAR OLD cow/calf pairs: 50 reds, 30 blacks, 10 tans. Calves tagged and castrated. Cows are medium to large frame with strong calves at foot. \$2800. 403-740-5197, Big Valley, AB.

30 **COW/CALF PAIRS:** Simmental Angus Cross, February - April calves, \$2750. Call 306-638-7668, Bethune, SK.

FOR SALE: YEARLING 7/8 and 15/16 percentage solid red polled bulls. Bred up from polled Herefords & Red Angus. Easy calving, ideal heifer bulls. Regina View Farms, 306-586-9851, Regina, SK.

300 **RED & BLACK** Angus bred heifers. Can sell as bred or calved. Call 306-773-1049, 306-741-6513, Swift Current, SK.

25 **RED, TAN,** and White Charolais replacement heifers, can deliver. 306-882-4081, Rosetown, SK.

104 **EXCELLENT REPLACEMENT** Heifers, 80 Black, 24 Red, Black Angus Maine cross. 850-900 lbs homegrown. OBO. Killdeer, SK. 306-476-2252.

BLACK BROCKLEFACED HEIFERS with calves at side, 50- 1st and 25- 2nd calves, fancy. 403-625-4658, Claresholm, AB.

75 **SECOND AND THIRD** Black and Red Angus young bred cows. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

HERD DISPENSAL: 400 Angus cross pairs, started calving March 1st. 403-485-3535, High River, AB.

SULLIVAN SUPPLIES and RK ANIMAL SUPPLIES present a free Stock Show University beef educational clinic June 9, 10, 11 in Olds Alberta. **1-800-440-2694** www.sullivan-supply.com www.rkanimalsupplies.com

CATTLE WANTED 5245

WANTED: CULL COWS and bulls. For bookings call Kelly at Drake Meat Processors, 306-363-2117 ext. 111, Drake, SK.

HORSES AUCTION SALES 5305

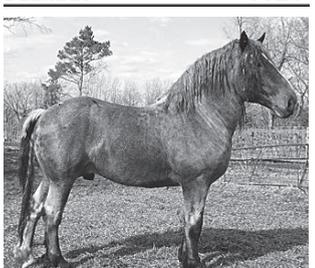
SASKATOON ALL BREED Horse & Tack Sale, May 30. Tack 11:00 AM, Horses to follow. Open to broke horses (halter or riding). Sale conducted at OK Corral, Martensville, SK. To consign call Frederick, 306-227-9505 bodnarusauctioneering.com

CANDIAC AUCTION MART Horse Sale on Saturday, June 3. Tack sells at 10:30 AM. Horses sell at 1:30 PM. Receiving times are Friday from 5 PM to 8 PM and Saturday from 8:30 AM to 1:00 PM. For more info contact 306-424-2967, 306-429-2029. Future sales can also be found on www.candiacauctionmart.ca Candiac, SK.

AUCTION SALES 5305

8TH ANNUAL PRAIRIE SPRING HORSE Sale: Sunday May 21, 2017, 1:00 PM at Johnstone Auction Mart in Moose Jaw, SK. Featuring quality ranch/pleasure/show geldings and mares, well started younger geldings and mares, brood mares, yearlings and 2 yr. olds, teams - Registered and Grade. Watch for catalogue early May at www.johnstoneauction.ca. For more info, call Scott Johnstone (auctioneer) at 306-631-0767 or Glen Gabel (consultant/marketing) at 306-536-1927. PL #914447

BELGIAN 5325



STANDING AT STUD: Unregistered Brabant Belgian, 16.2HH, Blue Roan color. Call Dan 204-234-5254, Shoal Lake, MB.

PAINT 5390

STALLIONS, GELDINGS, MARES. Phone: 306-283-4495 (evenings), Langham, SK. www.livingwaterpaintsandquarters.com

QUARTER HORSE 5415

9 **GRANDDAUGHTERS** of Mr. Baron Red, from 2-7 years old for sale. Located Near Steinbach, MB., call 204-392-3830.

HARNESS/VEHICLES 5470

HORSE COLLARS, all sizes, steel and aluminum horsehoes. We ship anywhere. Keddies', 1-800-390-6924 or keddies.com

FOR SALE: SHOW HARNESS c/w 3 strap breeching 27" & 28" Paton leather top collars. Lead harness to match, no collars, strap on scotch tops, lines, bridles etc. 204-567-3575, Miniota, MB.

SHEEP 5530

QUALITY DORSET CROSS bred ewe lambs, due first of June. AuraVista Farm, 306-248-3806, St. Walburg, SK.

SHEEP WANTED 5595

WESTERN SHEEP MARKETING LTD. a division of **SOUTHERN ALBERTA LIVESTOCK EXCHANGE** Buying all classes of sheep, lambs and goats. Contact **Darren Shaw 403-601-5165** Same Day Trade Payment. Farm Pickup. Competitive Pricing. **darren@livestock.ab.ca**

POULTRY 5720

PAIRS OF GEESSE ready to lay, Pilgrims, White Chinese and Toulouse. AuraVista Farm, 306-248-3806, St. Walburg, SK.

POULTRY VARIOUS 5740

CARFIO HATCHERY. Guinea fowl, quails, gamebirds, ducks, geese. 1-877-441-0368 carfio@videotron.ca www.carfio.com

POULTRY EQUIPMENT 5741

LARGE AUTOMATIC TURNING incubator and large hatcher. AuraVista Farm, 306-248-3806, St. Walburg, SK.

SPECIALTY ELK 5760

BUYING ELK for local and international meat markets. Call us for competitive pricing and easy marketing. Phone Ian at 204-848-2498 or 204-867-0085.

ELK WANTED! If you have elk to supply to market let AWAPCO be your first choice. For pricing call our office today, 780-980-7589, info@wapitriver.com

NORTHFORK- INDUSTRY LEADER for over 15 years, is looking for Elk. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

LIVESTOCK VARIOUS 5785

DUNDURN GRAZING Association has room for cattle in the non-breeding field for the 2017 season. Call Fred at 306-381-6070.

LIVESTOCK EQUIPMENT 5790

NH 195 MANURE SPREADER, flotation tires, hydro. drive, double apron, end gate, upper beater and splash guard, exc. cond., \$18,000. 780-819-7193, Redwater, AB. danespride@aol.com

FROSTFREE NOSEPUMPS: Fully sustainable livestock watering. No power required to heat or pump. Prevents contamination. Grants available. 1-866-843-6744. www.frostfreeseppumps.com

FREESTANDING PANELS: 30' windbreak panels; 6-bar 24' and 30' panels; 10', 20' and 30' feed troughs; Bale shredder bunks; Silage bunks; Feeder panels; HD bale feeders; All metal 16' and 24' calf shelters. Will custom build. 306-424-2094, Kendal, SK.

IHC 8840 14' auger and tub guards, 2279 hours, \$20,000. 403-932-2131 days only, Cochrane, AB.

LIVESTOCK EQUIPMENT 5790

FREESTANDING CORRAL PANELS for cattle, horses, bison and sheep. Bale feeders; Belted feed troughs; 10' panels; Wind-break frames; Swinging gates; Framed gates; Panels with gates mounted; Round pen kits starting at \$1495; Palpaton chute. Deal of the year - Freestanding 21' for \$219! Call 1-844-500-5341, www.affordablelivestockequipment.com

BOW WOW!!!

ACE ENTERPRISES: ELIMINATE DUST WITH ACE DUST SUPPRESSANT! Safe alternative to chemicals. We use canola oil, great source of energy with Omega 3, 6 & 12! Excellent dust control when mixing livestock feed. Saskatoon, SK. Call toll free 1-844-291-6582, jkelsey@sasktel.net

CATTLEAC HYDRAULIC SQUEEZE chute in good working order, w/hyd. neck bar, hydraulic pack included, \$10,000 OBO. 403-742-3454 ext. 275 or 288, Botha, AB.

HI-HOG CATTLE SQUEEZE. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

STEEL VIEW MFG. Self-standing panels, windbreaks, silage/hay bunks, feeder panels, sucker rod fence posts. Custom orders. Call Shane 306-493-2300, Deislis, SK. www.steelviewmfg.com

FFS- FUCHS FARM SUPPLY is your partner in agriculture stocking mixer, cutter, feed wagons and bale shredders and industry leading Rol-Oyl cattle oilers. 306-762-2125, Vibank, SK. www.fuchs.ca

SVEN ROLLER MILLS. Built for over 40 years. PTO/elec. drive, 40 to 1000 bu./hr. Example: 300 bu./hr. unit costs \$1/hr. to run. Rolls peas and all grains. We regroove and repair all makes of mills. Call Apollo Machine 306-242-9884, 1-877-255-0187. www.apollomachineandproducts.com

2002 521DXT CASE payload w/grapple fork. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

CATTLE SHELTER PACKAGES or built on site. For early booking call 1-800-667-4990 or visit our website: www.warmanhomecentre.com

INTERMEDIATE WHEAT/GRASS & Slenher wheat grass seed for sale, \$3/lb, minimum order 1000 lbs. 204-792-7274, Cartier, MB. E-mail: bqually@mymts.net

2007 KUH 2044 manure spreader with vertical beaters, big tires, \$22,000. 204-851-0284, Kenton, MB.

PAYSEN LIVESTOCK EQUIPMENT INC. We manufacture an extensive line of cattle handling and feeding equipment including squeeze chutes, adj. width alleys, crowding tubs, calf pit tables, maternity pens, gates and panels, bale feeders, Bison equipment, Texas gates, steel water troughs, rodeo equipment and garbage incinerators. Distributors for El-Toro electric branders and twine cutters. Our squeeze chutes and headgates are now avail. with a neck extender. Ph 306-796-4508, email: ple@sasktel.net Web: www.paysen.com

GREG'S WELDING: Freestanding 30' 5 bar panels, all 2-7/8" drill stem construction, \$450; 24"x5.5' panels, 2-7/8" pipe with 5-1" sucker rods, \$325; 24"x6' panels, 2-7/8" pipe with 6-1" rods, \$350; 30' 2 or 3 bar windbreak panels c/w lumber. Gates and double hinges avail. on all panels. Belting troughs for grain or silage. Calf shelters. Del. avail. 306-768-8555, Carrot River, SK.

MOLE HILL DESTROYERS: One 2017 50' unit and one demo unit. Leasing available. Email: thewalkers@imagewireless.ca Phone 306-542-7325.

SHEEP SUPPLIES: Grinders for shearing equipment; (2)14" alum. discs; (2) 13" steel discs; Various sandpapers. Must sell! 306-480-8089, North Battleford, SK. Email: possibilities789@gmail.com

Misc. ARTICLES 5850

ROCK-O-MATIC 546 ROCKPICKER, \$3500; 18' Degelman rock rake, \$4000; 20' Alteen disc, goo blades, \$3500; 1000 gallon portable water tank, like new, \$800. 780-349-5398, Westlock, AB.

ORGANIC PRODUCTS

CERTIFICATION SERVICES 5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agrologist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or info@pro-cert.org

NOTICE OF A PENDING CLASS ACTION AGAINST MCRAE HOLDINGS LTD.

A Class Action has been commenced against McRae Holdings Ltd. (McRae) on behalf of all Alberta farmers who have experienced poor crops as a result of improper recommendations or services provided by McRae.

OVERVIEW OF THE LAWSUIT

McRae provides soil analysis and fertilizer recommendations, supplies fertilizer and applies fertilizer for farmers across Alberta. In 2016, an Alberta farmer became concerned about poor growth of grass and alfalfa on its lands that had been fertilized by McRae. The farmer engaged independent agronomists who conducted field reviews along with soil and crop sampling. Their laboratory results led them to conclude that McRae did not supply and apply an appropriate blend or an appropriate amount of fertilizer to the farmer's lands. The blend of fertilizer supplied and applied by McRae did not contain enough nitrogen and did contain potassium and sulfur that were unnecessary.

A class action has been commenced against McRae to recover losses suffered by individual land owners in Alberta for poor crop yields caused by McRae's failure to recommend, supply, and apply the proper fertilizer (the **Class Action**).

ARE YOU A POTENTIAL CLASS MEMBER?

This Notice is directed to anyone who engaged McRae to conduct soil analysis and provide fertilizer recommendations or to supply and/or apply the appropriate fertilizer blend to their lands in 2015 or 2016. If you experienced poor crop quality as a result of services provided by McRae you are a potential class member and may be able to benefit from the Class Action. Please contact legal counsel for the Class Action to provide information about your situation and to learn about how you might benefit from the Class Action. You will not be asked to pay any legal fees, only to provide information.

CLASS COUNSEL

Legal Counsel for the Class Action is:
Burnet, Duckworth & Palmer LLP
2400, 525 - 8th Ave SW Calgary, Alberta T2P 1G1
Telephone: (403) 260-0171 Fax: (403) 260-0332
Lawyers: Grant Vogeli, Q.C. Email: lgv@bdplaw.com

GRAINS 5947



ORGANIC SEED FOR SALE: Organic Alfalfa, Sweet Clover, Red Clover, Alsike Clover. Organic inoculated. Free delivery. Please call 306-921-9942, Star City, SK. Email: ivanaudrey@sasktel.net

ORGANIC SWEET CLOVER good quality, cleaned and bagged. Ph. 306-281-8097, Saskatoon, SK.

WANTED: FEED RYE, peas and soybeans. Call 204-379-2451, St. Claude, MB.

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

PERSONAL 5950

PERSONAL ADS
Personal Advertisements will not be accepted over the telephone. Only those advertisements carrying the written signature of the advertiser will be published. (Although name and address will not appear in one's ad, we must have this information for our files.) Full payment must also accompany Personal Ads. Replies to Western Producer box numbers will be forwarded for two months.

SENIOR GENTLEMAN WISHES to meet senior lady who is affectionate, pleasant personality, likes to talk, laugh, travel, have fun. Box 5606, c/o The Western Producer, Box 2500, Saskatoon, SK. S7K 2C4

PERSONAL VARIOUS 5952

AGE 40 PLUS Singles Dance, Albert Community Hall, 610 Clarence Avenue South, Saskatoon, SK., June 10, 2017 at 8:00 PM. Price/ticket \$40 (at door only).

DO YOU KNOW an amazing single guy who shouldn't be? Camelot Introductions has been successfully matching people for over 22 years. In-person interviews by Intuitive Matchmaker in MB and SK. www.camelotintroductions.com or phone 306-978-LOVE (5683).

PETS

THE ANIMAL PEDIGREE ACT
No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

WORKING DOGS 5973

TRUE BLUE HEELERS has a new litter. From great working parents. 1st shots and de-wormed, \$400. 306-492-2447, 306-290-3339, Clavet, SK.

BONAFIDE REGISTERED AUSTRALIAN Kelpie pups, Australian bred. Parents make a living on cow/calf operation at community pasture. Also started working Kelpies. Call Watkinson Working Kelpies, 306-692-2573, Moose Jaw, SK.

PUMPS 6010

3" **CHEMICAL PUMP** 210cc Powerease engine. MNNW37RN. Regular \$410, Now \$350. 306-682-9920 Humboldt, SK. or www.farmworld.ca

PUMPS 6010

3 **VERTICAL TURBINE** pumps w/60 HP US motors discharge heads and packing. Overhauled from KPM approx. 5 yrs., running fine when removed from service. 1750 RPM, 870 GPM, 278 TDH. 2 National Bowl Assys E 12 XMC 4 stage. 1 Peerless Bowl Assy 4-12LD, 3/60/575, good condition, \$1500/ea. Call 250-828-8708, Kamloops, BC. dgwynnekpm@gmail.com



3" **TRASH PUMP** 210cc Powerease engine. MNNW37RT Regular \$385, Now \$325. Kinistino, SK. 306-864-3667 www.farmworld.ca

REAL ESTATE

B.C. PROPERTIES 6110

QUESNEL MEAT AND GROCERY: Wide variety of BBQ items, premade meals, etc. Established 25+ yrs., owner retiring. Price includes land, building, and equipment. Seller will aid in training and transition, \$498,000. Syber Realty Ltd. Call Ron at 250-862-8100, ron@syberrealty.com

CRESTON: 19 acres. 1500 sq. ft. house, 3 bdrms, 1-1/2 baths. Nice yard w/garden, fruit and berry trees. 850 sq. ft. trailer, w/garden area is presently rented. Also includes barn, tool and chicken houses. Property is on Lister water. 3 acres seeded to grass, remaining 15 acres being grain farmed. 250-402-8178 or 250-402-8142.

RV LOT FOR SALE BY OWNER: located in Riverside RV Park Resort. Year round gated community 10 minutes from Keremeos along the Similkameen River. Amenities include indoor pool, hot tub, sauna, fitness room, laundry, guest rooms, lodge w/ library, games room, multi-purpose area. Low monthly maintenance fees. Pets allowed. Serviced site w/paved pad and shed. 204-826-2082 linoz@goinet.ca

S.OKANAGAN PET BOARDING KENNEL: Purpose built in 2008/09 on 3.2 ac. Operating at virtual full capacity w/room to expand. Owners house and separate rental house. Great lifestyle business! \$1,595,000 Syber Realty Ltd. Call Ron at 250-862-8100, ron@syberrealty.com

COMMERCIAL BUILDINGS/LAND 6115

INVESTMENT OPPORTUNITY!!
640 Bruce Street, Humboldt, SK
6,440 sq.ft - 9 bay commercial shop located on 1.79 acres. MLS #595179
\$629,000
Ashlee Amendt
Remax Saskatoon - Humboldt
(306) 231-6645
ashlee_amendt@hotmail.com

CONDOS/TOWN HOUSES 6120

NW REGINA, SK. Condo for sale: 2 storey, unfinished bsmt., 1 car att. garage, A/C, gas fireplace, 2 bdrm., 1.5 bath., \$275,000 OBO. 306-537-8118 or frankb@sasktel.net

COTTAGE/LOTS 6125

J&H HOMES: Elkridge cottages. Free ATV or snowmobile with purchase!! www.jhhomes.com 306-652-5322.

RESIDENTIAL LOT, ELBOW, SK for sale. Lot 7, Blik 2, Plan 88MJ16836, 125 Putters Lane. One block from golf course. 24.5 Meter frontage. Serviced by town. Will consider trade of RV, boat, truck, car, etc. \$34,500. Call Gerry 403-389-4858.

WEST END BARRIER Lake, SK. 2400 sq. ft., 3 level, good build, low bills. 2.5 hrs. to Saskatoon/Regina. Good hunting and fishing. Pine interior, basement, garage, 3 bedrooms, big deck. Call 306-322-7638.

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, B.C.,

ALBERTA 6132

MOUNTAIN VIEW HORSE RANCH or Your Dream Farm ID#1100568-Claresholm: Great Location! This unique 160 acre ranch is just 10 min. south of Claresholm. Enjoy the mountain view from the magnificent equestrian centre or the 2,100 sq. ft. bungalow w/10' ceilings and in-floor heating. There are numerous out-buildings, as well as an outdoor riding arena and another 850 sq. ft. home. Central Alberta! 477 Acres Of Prime Land ID#1100566 Olds: Prime farmland! Excellent location only 15 minutes west of Olds. 477 acres of #2 soil is a rare find! There are 5 separate titles, a very nice 1384 sq. ft. home, 2 car garage and numerous outbuildings. Current production of all the land is hay with 3 cuts sometimes possible. Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com

SASKATCHEWAN 6133

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FARM NEAR AVONLEA, SASK. For Sale: <http://www.saskmls.ca/matrix/shared/v6qrykQvDXDd/RMELMSTHORPE>

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

DWEIN TRASK REALTY INC. Delisle/Swanson 600 ac. ranch. Very good corrals, well equipped horse barn, workshop, storage shed and solid 960 sq. ft. home. Check web to view. Call Dwein at 306-221-1035.

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverfront 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.

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DOUG JENSEN - Melville/Raymore	(306) 621-9955
STAN HALL - Strassbourg/Watrous/Humboldt	(306) 725-7826
MORWENNA SUTTER - Melfort/Wadena	(306) 327-7129
MURRAY MURDOCH - Kindersley/Rosetown/Davidson	(306) 858-8000
DARRELL HERAUF - Dairy/Poultry	(306) 761-1863
DALE MURDOCH - Swift Current/West Central	(306) 774-6100
DARREN SANDER - Saskatoon/Battlefords	(306) 441-6777
DANIEL MOSTERD - Saskatoon/Prince Albert	(306) 281-8412
ASHLEY MURDOCH - Outlook Country Residential	(306) 860-8686

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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.

RM OF LEASK: 3 quarters adjoining pasture 1092 sq. ft. bungalow home, 40x60 steel quonset, 28x40 quonset style barn. Fair fences, good water, plus small lake stocked w/trout. MLS #580974. For spring possession call Lloyd Ledinski, RE/MAX of the Battlefords, 306-446-8800, 306-441-0512. Lloyd needs farm listing in most districts.

PROPOSAL FOR PARTNERSHIP or sale to farming family for livestock/grain operation in central Sask. 19 quarters, farmstead located 3 miles from large town w/resort nearby. Silage based capacity for 700 or more cows and backgrounding. Contains grain, hayland and pasture. Lots of buildings. Requires family w/latest Ag technology, carpentry skills, ambition and some equity. Most equipment avail. Bring your own cattle or work with us. Cropland to seed in 2017. Text 639-471-4380.

LOOKING FOR LAND w/Aggregate Potential

In Saskatchewan

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Phone: 306-782-7423
Fax: 306-786-6909
Email: info@potzus.com



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.

RM 273 SLIDING HILLS, 1 quarter farmland, SW-25-30-01-W2, 155 cult. acres, stone free. 306-542-3125, Kamsack, SK.

SASKATCHEWAN 6133

URGENTLY NEEDED approx. 15,000 acres of farmland. For more info. ph 306-221-2208.

WANTED 5,000 to 20,000 ACRES OF GOOD CROP PRODUCTION LAND IN SASKATCHEWAN AND ALBERTA

Please call Marcel at 1-403-350-6868
Marcel LeBlanc Real Estate Inc.

DWEIN TRASK REALTY INC. Langham, SK. full quarter of land with 143 acres cultivated, FMV = 56,000. Just 2 1/2 miles south of Langham and 1/4 mile west. Priced to sell! \$279,900. Call Dwein today at 306-221-1035.

ONE OF A KIND, RM White Valley #49. Turnkey ranch, 8480 acres, 18 titled quarters, South West Sask. Excellent water supply. Exclusive listing, \$20,000,000. Brad Edgerton, 306-463-7357, Kindersley, SK. edgerealty.ca

UNRESERVED AUCTION 417 Acres of River Frontage 19/08.2017 ID#1100561. Preeceville, SK. 417 acres Unreserved Auction. Features include: Certified organic farmland, 980 sq. ft. home, 2 shops, beautiful river frontage, a nice recreation/camping area, good farming potential, an active gravel pit w/\$5000 rental income. Real Estate Centre, 1-866-345-3414. For all our listings visit www.farmrealestate.com

MANITOBA 6134

EXCELLENT LIVESTOCK FARMS: 1) 1732 deeded acres w/4425 acres of Crown land, fenced, small bungalow, very good buildings and metal corral system, can carry 350 cow/calf pairs. 2) Excellent horse ranch in Erickson, MB., Riding Arena and buildings in fantastic condition. 3) 640 acre mixed farm within 15 minutes of Brandon. 4) 800 acre cattle farm, Rorkeston, MB., 1500 sq.ft. home, heated shop. 5) Modern house and 160 acres of pasture, 15 minutes to Brandon. Jim McLachlan 204-724-7753, Remax Valleyview Realty Inc, Brandon, MB.

COUNTRY HOME ON an acreage: 49.04 acres, 2976 sq. ft. bi-level 5 bdrm, 2 bath, energy efficient home, dbl att. garage, 2 sheds (12'x18' and 6'x8'), 2 large organic veggie gardens. Completely renovated lower level, \$349,000 OBO. 204-886-2500, RM of Rockwood, MB. hcbond@mts.net

FARMLAND FOR SALE: RM Shellmouth, Inglis, MB area. SE of 7-24-27, 149 total acres, 100 cult. acres; SE of 8-24-27, 159 total acres, 130 cult. acres. Info. phone 204-564-2270. allansawchuk1@gmail.com

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.

\$1,000,000 FOR SALE BY OWNERS. 12 quarters - ranch in a block, can be sold in parcels. 1200 sq. ft. home, garage, out-buildings, good well. Call 204-742-3354, Ethelbert, MB.

PASTURES 6136

LOOKING FOR PASTURE to rent within 300 kms. of Provost, AB. for 60 cow/calf pairs. Call Kelly Sutherland 780-814-4008 or Darcy 780-704-0300.

PASTURE LAND RM 271, 6 quarters, 940 acres in block, fenced, good water source, gravel pockets, close to Duck Mtn. Park. \$600,000. 306-542-3250, Kamsack, SK.

FOR RENT PASTURE for cow/calf pairs or yearlings, cultivated land seeded to oats and native grass with river running through it. 306-734-2997, Aylesbury, SK.

WANTED: PASTURE FOR 50 - 60 yearling Bison heifers. Contact MFL Ranches, 403-747-2500, Alix, AB.

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

ACREAGES 6139

NICE LOCATION: 73 ac. & home \$149,000; 84 acres land \$40,000. 204-569-4927, Cowan, MB. countrypoppies@gmail.com

ACREAGE WITH LOG HOME on 5.67 ac.: 3 bdrm, 2 1/2 bath, main floor laundry. Heated 40'x40' shop w/two 14' doors. Attached 20'x40' barn w/two tie stalls, two box stalls, tack room, also attached 20'x40' storage area. Insulated 14'x12' building that could be used as a chicken house. Small greenhouse, garden w/raspberry patch. Horse pasture or large lawn, possible tree farm. Hot water heat in the house, new furnace, built in vacuum cleaner, large family room and bathroom in basement, five appliances included. Attractive landscaping. Five miles to choice of two towns w/schools, churches, stores, hospital, doctors. \$450,000. If seriously interested, email rdoody1@me.com or call 780-384-2456. Sedgewick, AB.

NW 36-46-17 W3, Jackfish Lake. Custom built home, 3 bdrms/3 baths w/walkout and 73 acres farmland and adjacent sandy beach, \$1,150,000 OBO. 306-441-2163, Meota, SK. dreamrealtysk@gmail.com or www.dreamrealtysk.com

104 ACRES FARMLAND, 30 acres cult., 1900 sq. ft. 3 bdrm 2 storey house, salt water in ground pool, wood/oil heat, farm equipment incl., 10 mins from Perth, ON. \$499,000. 613-326-0385, 613-812-2458, email: jamiligan56@gmail.com



RM OF BIGGAR, \$580,000. This acreage has 9.8 acres, a 3 bdrm, 2 bath home, dbl att garage. The home has been 90% renovated inside & out over the past 2 years. 32x50' heated shop with 3 bays. Back yard has 60x100' metal clad pole shed, 33x66' steel quonset and older 30x75' wood straight wall shed. Excellent location, 8 miles north and 3 miles west of Biggar, SK. MLS# 586422. Wally Lorenz, Realtor, Re/Max of the Battlefords, 306-843-7898.

RECREATIONAL VEHICLES

BOATS/WATERCRAFT 6162

21' GLASPLY INBOARD, cabin tandem trailer, \$10,000. During the day, please call 403-932-2131, Cochrane, AB.

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MEALS ON WHEELS



Victor Zuidhof fed a mixture of silage, straw and grain to heifers and calves on his farm near Lacombe, Alta., April 24, while his brother, Jeff, moved feed bunks to higher, drier ground. | MARIA JOHNSON PHOTO

MARKETING BOARDS

Tomato growers seek judicial review

Ontario group wants courts to review provincial seizure of marketing board

BY MARY BAXTER
FREELANCE WRITER

Ontario processing tomato growers want the judicial system to review steps the provincial government took to seize control of their marketing board.

Earlier this month, a group of 100 growers filed a request in Toronto for a judicial review by the Ontario Superior Court of Justice Divisional Court.

As of May 4, the group was waiting for the courts to decide on its request.

The growers' board, the Ontario Processing Vegetable Growers, negotiates on behalf of its members with the province's primary processors (those who can, freeze or dehydrate vegetables) to set prices for crops such as tomatoes, peas and sweet corn.

In March, provincial Agriculture Minister Jeff Leal fired the board's directors and appointed Elmer Buchanan as its trustee.

Leal cited concerns about an impasse in 2017 price negotiations between tomato growers and processors.

Buchanan is a former vice-chair of the Ontario Farm Products Marketing Commission, which oversees the farm sector's marketing boards.

Growers have also raised concerns about annual price agreements reached with processors shortly after Buchanan took control. Some growers have said the terms will result in prices below California tomato prices, consid-

ered to be the industry standard.

Buchanan said he has seen an unofficial document outlining the group's request to the courts but no official notification.

"It kind of stirs the pot a bit, which is a concern of mine," he said.

"Things were starting to settle down a bit."

He acknowledged concerns about price discounts connected to a program devised to encourage efforts to boost yields per acre and said a committee of nine growers — three of whom had been original negotiators — had negotiated tomato terms with processors.

"I wasn't the one negotiating, although I was there in chairing things."

The commission is moving ahead with an economic study of the industry, he added.

Al Mussell and Kevin Grier of Agri-Food Economic Systems will conduct the study.

Kristy Denette, an Ontario ministry of agriculture spokesperson, said it would not be appropriate for the ministry to comment on a case "that may be before the court, or speculate on any potential legal action that individuals may choose to take."

Francis Dobbelaar, former chair of the growers association and chair of a new industry group that the growers have formed, said there didn't seem to be a clear reason for Leal's actions.

"There was no impasse," he said, noting the association's negotiators were close to reach-

They didn't do anything illegal. There's no indication whatsoever that the majority of the growers weren't supporting the board.

LARRY MARTIN
INDUSTRY CONSULTANT

ing an agreement with two of the three processors involved before Buchanan stepped in.

Dobbelaar and the group he represents, the Processing Vegetable Growers' Alliance Inc., are listed as the applicants on the notice of application to the divisional court. The document lists the commission, the agriculture ministry and Buchanan as the respondents.

The document asks the court to remove Buchanan and reinstate the former board or require elections for new committee and board members. It also asks the court to reinstate board staff that growers claim were terminated by Buchanan. The group wants damages for "harm to reputation and loss of position."

Dobbelaar said that at a May 3 meeting, the group agreed to continue to seek legal action but is open to making a deal with the government.

Buchanan said staff members were not fired. One long-term staff

member was on leave and expected to retire at the end of the year. The departure of another employee was a mutual agreement.

In a meeting with growers in March, Buchanan had said he hoped to hold elections for committees and the board before the end of the year. In May, he confirmed the intent to turn the organization back to growers.

"(But) there are some things that need to happen before I can do that, and I do believe that the commission is going to probably post some regulations that have some suggestions around governance," he said.

"I have recommended that there needs to be some things for the board in terms of term limits and maybe some other things.... And I have also been quite clear that I support collective bargaining."

Larry Martin, an independent industry consultant who has worked with the growers in the past, said it's understandable they have sought legal action.

"What objective reason was there for disbanding the board?" he said.

"They (growers) didn't do anything illegal. There's no indication whatsoever that the majority of the growers weren't supporting the board."

In an April 24 letter to Dobbelaar, Jim Clark, the commission's interim chair, urged growers to work with Buchanan.

"We do not believe that litigation will be practical or useful in the circumstances," he said.

TRADE

Trump inspires U.S. farm groups to pile on Canada

WINNIPEG (Reuters) — U.S. President Donald Trump's criticism of the protected Canadian dairy system has emboldened American farm groups to tackle other longstanding agriculture irritants as the countries move toward rewriting trade rules.

U.S. poultry and egg exporters are expected to seek greater access to Canada's tightly controlled market in renegotiations of the North American Free Trade Agreement.

The United States, which is the world's second-biggest chicken exporter, will demand market access gains at least equal to those they would have realized under the failed Trans-Pacific Partnership deal, industry groups and experts say.

U.S. farmers also want changes to Canadian grain laws that automatically assign the lowest price for their wheat.

"Anybody who has an issue with Canada, this is the time to bring it up now," said Dan Ujcz, an international trade lawyer with the U.S.-based law firm Dickinson Wright.

"The dairy issue certainly signalled that."

Trump last month took a swipe at Canada's dairy system, which prevents large-scale imports through steep tariffs, and moved to impose tariffs on Canadian lumber.

U.S. farm groups with grievances took note.

"It's unfair for the dairy industry but it's unfair for poultry and eggs as well," said Jim Sumner, president of the U.S. Poultry & Egg Export Council who plans to make that point with the U.S. administration.

Canada allows tariff-free egg imports amounting to 2.98 percent of Canadian production and chicken imports worth 7.5 percent. Imports would have doubled for eggs and jumped by more than one-quarter for chicken under TPP.

"I'd be surprised if (the U.S.) starting point was anything less," said Ontario egg producer Roger Pelisero, chair of Egg Farmers of Canada.

Meanwhile, in the northern U.S. Plains, farmers aim to use NAFTA renegotiations to open wheat sales opportunities.

Under Canadian legislation, U.S. wheat sellers who have not negotiated a price based on their wheat's specifications automatically receive the lowest quality grade and price in Canada, while Canadian wheat commands the price accorded to its quality in the U.S..

The result is that U.S. farms near the border have no reason to truck grain to Canadian companies that may be closer, while plenty of Canadian wheat flows south to American delivery points, said Alan Merrill, president of the Montana Farmers Union.

"It's just solid (lineups of) Canadian trucks, coming down with grain," said Merrill.

The Western Canadian Wheat Growers Association has urged Ottawa to change the law to make cross-border wheat trade more fair and avoid a trade dispute.



Seniors' day

Bumps and bruises were the order of the day at the 25th Annual Senior Pro Rodeo in High River, Alta., April 28-30.

| MIKE STURK PHOTOS



TOP LEFT, CLOCKWISE: Morley Wesley of Olds, Alta., has a close call in the 40+ bull riding event.

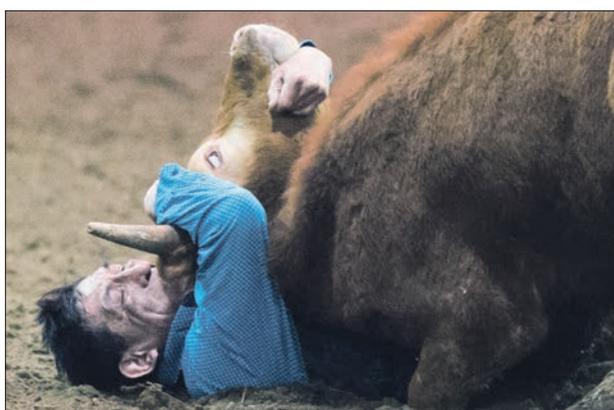
Anne Flynn of Camrose, Alta., throws a rope in the Ladies Breakaway Roping event.

Duane Ganske of Wetaskiwin, Alta., finds it heavy going in the 50+ ribbon roping event.

Virgil Jacobs brings down a steer in the steer wrestling event.

Clay Dowie, left, and Mike Kiemele compete in the mini chuckwagon race.

Mareena Blackmore of Cardston, Alta., competes in the 50+ barrel racing event.





Rather than introducing a foreign gene, scientists silenced the enzyme that causes browning to create a non-browning apple, shown on the right. | FILE PHOTO

CONSUMER ACCEPTANCE

GM non-browning apple has stigma to overcome

Three varieties will be available this fall

BY BARBARA DUCKWORTH
CALGARY BUREAU

RED DEER — Sliced apples that do not turn brown will be available in stores in October but the developer of the genetically modified fruit knows there is still a stigma around these kinds of products.

“Nobody likes yucky apples,” said Neal Carter, who started working with scientists on a gene reversal technique to prevent the release of an enzyme called polyphenol oxidase.

Rather than adding a foreign gene, Okanagan Speciality Fruits went for genetic modification that silences the PPO enzyme. It does not change any other aspect of the cultivar.

He and his wife, Louisa, formed the Summerland, B.C., based company, and development of the apple started in 1997. The first non-browning apple was grown in 2004 and approval from Canadian and U.S. regulators was received in 2015.

“One of the key motivators when we got started is biotech is supposed to be fast,” he said at the Alberta Agricultural Economics Association’s annual meeting in Red Deer April 27-28

Three varieties, Golden Grannies, Arctic Fuji and Golden Arctic, will be available as bagged product. Gala will be the next non-browning variety available.

He believes in the product and just finished planting 18,000 more trees at a farm in Washington state in a high density orchard.

An apple and cherry grower, Carter saw apple consumption declining and wanted to introduce something new.

“We wanted to create something that had consumer benefits,” he said.

Others were trying to address the browning problem.

The U.S. Department of Agriculture was developing an antioxidant treatment to stop browning and food companies started to slice and sell apples.

Fast food restaurants started offering fresh sliced apples in a bag. People thought apple consump-

Biotechnology has been very bad at educating the consumer about the benefits of the technology.

NEAL CARTER
SCIENTIST

tion would surge but the product did not have a lot of mainstream retail success. Some products had a chemical smell and people did not like them.

The Arctic Apple is controversial and will be labelled, but carrying that GMO label can demonize a product without scientific basis, said Carter.

“Biotechnology has been very bad at educating the consumer about the benefits of the technology.”

They have conducted consumer surveys and learned people are confused about genetic modification. About half said they would be willing to buy a non-browning apple. When asked if they would prefer the use of antioxidant chemicals to prevent browning, more said they would be willing to try a modified fruit.

The fear of the unknown has turned into an anti-GMO movement, said University of Guelph scientist Andreas Boecker.

“It is not only corporations like Monsanto and Syngenta but also individual farmers are being singled out through social media who are subjected to mean or bullying behaviour,” he said.

When consumers are surveyed, many admit they do not know much about biotechnology. However, when they look for information, they tend to search out material that already fits in with their current beliefs so the biotechnology conversation continues to be emotional.

“The situation is not a battle but a series of millions of skirmishes and has to be a continuous effort at all levels to educate people,” he said.

barbara.duckworth@producer.com

CANADA EASTERN SPECIAL PURPOSES

New eastern wheat class proposed for specialty varieties

It will include varieties that don't fit within current wheat class parameters

BY JOHN GREIG
FREELANCE WRITER

The Canadian Grain Commission is creating a new wheat class for Eastern Canada designed to provide more flexibility for specialty wheat varieties.

Grower organizations, however, are skeptical that the class is necessary.

“Having an extra class, without looking at the whole system we have in place, is difficult to justify in our minds,” said Todd Austin, wheat marketing manager with Grain Farmers of Ontario.

There are 10 classes of Ontario wheat, with about five used for most wheat produced.

“If there is going to be a change we want to add value for producers,” said Austin.

The new class will be called the Canada Eastern Special Purposes and follows on significant changes made to Canadian wheat classes nationally in 2016.

The changes addressed concerns with red spring wheat classes in the West. At the time, there was little call for changes for Eastern Canada.

However, since then, the grain commission said in its consultation document that “a number of wheat varieties currently being brought forward for registration do not meet the quality criteria for the existing eastern wheat classes.

However, there are market

opportunities for these varieties which do not meet current wheat class criteria but exhibit special or unique characteristics.”

There is already a Western Special Purposes class for similar use as the proposed eastern class.

The new class would have no quality parameters, but would require disease and agronomic data and include varieties that do not fit within the parameters of any other Canadian eastern wheat class.



JOANNA FOLLINGS
CEREALS SPECIALIST

The goal is to have the class implemented by July 1, 2018.

Joanna Follings, cereals specialist with the Ontario agriculture ministry, used the example of purple wheat. If at some point someone wanted to grow purple wheat in Ontario and there was an end user interested, then it would fit within this new class.

“It will not have a huge impact on Ontario wheat production,” said Follings.

Grain Farmers of Ontario is con-

cerned that the new class could be a dumping ground for wheat that doesn't meet other classifications, said Austin.

“The last thing we want is a number of new varieties that aren't marketable,” he said, adding that it is important that there are end users for new varieties.

Austin said he can see where the requests for a new class originate. There are some varieties that don't fit within the current quality parameters of the 10 classes.

“Seed companies spend time coming up with new varieties of wheat,” said Austin. “If they don't fit in the pigeon holes we have now, where will they fit?”

The industry has some concerns around logistics of how a specialty wheat would fit into the elevator system, for example.

Some of the specialty wheat crops will need to be segregated.

“Elevators don't have unlimited segregation abilities,” said Austin.

The situation could call for the development of identity preservation systems for specialty wheat similar to IP systems for soybeans.

The grain commission is consulting with the wheat industry in Eastern Canada until May 20. It is accepting input at www.grains-canada.gc.ca/consultations/2017/ewcm-en-17.htm.

Grain Farmers of Ontario is planning to make a submission before the May 20 deadline.

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ROBSON BROTHERS FARMS

Family partnership celebrates 50 years in maple business

Tapping each person's talent key to success

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

ILDERTON, Ont. — There are many examples of rural communities that have failed in Canada but not where the Robson brothers farm.

The area north of London in Ontario is especially sweet among the fertile lands in south-western Ontario. The brothers have learned the value of co-operation, as well.

That began 50 years ago with a decision to tap perhaps 100 hard maple trees and make syrup over the spring break outdoors in an iron kettle.

Today, three of the four brothers, Jay, Jamie and Joel, are still at it, together with several of their children. It's a model of co-operation. A partnership.

"There needs to be give and take to make it work. Everyone has their specialty. We're all a bit better at one thing more than the others," Jamie Robson said.

His particular talent lies in public relations. As other family members point out, usually with a smile, he loves to talk.

The partnership, however, is a serious aspect of the business. Details are spelled out in a formal written agreement for Robson Brothers Farms.

Robson said one of the central purposes was to provide an exit strategy in the event any of the partners wanted out.

"I think why a lot of others have failed is because there wasn't a formal agreement," he said.

Co-operation was a necessity when the Robson family settled here in 1820 and later donated land from their original holdings for St. George's Anglican Church.

"Many of the congregation are still descended from the original pioneer settlers," Robson said.

Today, in an era when the fragility of rural Canada may be underappreciated, the Robson brothers have found a structure that not only works for their business but also supports the families around them.

Steve Kennedy was brought in as a fourth partner. Together, the four work about 7,000 acres, growing corn, wheat, soybeans and edible beans.

It's a big operation by Ontario standards but supports several families. Children of the four partners work as employees and have begun to invest in the farming industry for themselves.

Maple syrup production is the most labour intensive for the business but is certainly not the biggest money maker.

Still, it has delivered a regular spring income, and was especially important during the period of high interest rates in the early 1980s when the brothers were starting out.

Today, the family's Rolling Ridge Maple Products taps 150 acres of woodlot split between four different locations. There are about 14,000 taps, which this year will produce about 14,000 litres of syrup, an average crop.

"February was unusually warm this year so we have more of the dark grade," Robson said.

Four litres of maple syrup sell for \$55 at the Robsons' retail location.

ROLLING RIDGE MAPLE
PRODUCTS WILL
PRODUCE ABOUT
14,000
LITRES OF SYRUP
THIS YEAR

FINDING COMMON GROUND



A heifer and an antelope get acquainted in a pasture near Woodrow, Sask., April 27. | CARL FILSON PHOTO

MEMBERSHIP, FUNDING

NFU national office addresses provincial friction, fiscal issues

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

RIDGETOWN, Ont. — The National Farmers Union is addressing its financial issues, says the president of the organization's Ontario branch.

"Things are actually doing pretty good at the NFU nationally," Emery Huszka told the recent annual meeting of Local 306 in Elgin County.

Huszka was responding to comments made by Don Ciparis, Local 306 president and a member of the national executive since September, who said that while national president Jan Slomp has been strong on policy, the NFU has been struggling financially at the national level.

Tony Straathof, president of NFU Local 330 in Eastern Ontario, ran against Slomp at the NFU's national convention last November but failed to unseat the incumbent president, Ciparis said.

He described Straathof as being strong in the area of fiscal management.

The NFU's fortunes in Ontario have an influence on the financing of the national office.

Huszka said the Ontario branch has about 1,600 members after three consecutive years of growth. That's up from around 1,000 members in 2013, which is the year NFU-Ontario lost its accreditation under the Ontario Farm Business Registration and Farm Organizations Funding Act.

The Ontario legislation requires farm businesses with an annual income of \$7,000 to submit a registration fee of \$195 to one of three accredited general farm organizations in the province. With 1,600 members, that adds up to \$312,000, of which close to half goes to the national office.

However, NFU membership in Ontario is down from more than 2,400 farm businesses that were part of the organization before the NFU temporarily lost its accreditation.

Slomp, speaking from his home in Courtney, B.C., said it's been a challenge to maintain a united front within the NFU, given the differences in how the organization is funded across Canada.

"We have two kinds of NFU members: NFU members and members who are members of NFU-Ontario," he said. "It's a time bomb under the national organization because you create friction."

In Ontario, more than 50 percent of membership fees must be left to the provincial organization. In Western Canada, membership fees go to the national office.

There's a different structure in Prince Edward Island and New Brunswick.

Slomp said there is recognition in Ontario of the concern. In addition to paying their farm registration fee, some NFU members make an additional donation to the national office. He said that under the NFU structure, NFU regions such as Ontario are not supposed to be overly influential. Rather, it's the locals that are to be the driving force behind the organization.

"If you make the regions too powerful, you diminish the national and

the locals," he said. "What's important is that we have people in Ontario who are properly informed."

Slomp wouldn't talk about overall NFU membership numbers. However, he said that while numbers have grown in Ontario, there are more NFU members in the rest of Canada.

The NFU has introduced a five-year strategy to boost members across Western Canada and hopefully fund regional staff, Slomp said.



JAN SLOMP
NATIONAL FARMERS UNION

The organization continues to stress the importance of farmers and rural communities over the promotion of trade that benefits international corporations. He also questions the ongoing emphasis on maximizing production at the expense of farmgate profitability and the environment.

In Ontario, members of the organic farming community and younger farmers have embraced the NFU.

"The youth are farming's future, and if we don't prioritize strong rural communities and economically and environmentally sustainable farms, there will be nothing left for the next generation," Huszka said.

"I made a commitment when I took on the role last year to pursue membership as part of the NFU-O's economic sustainability, and I am pleased that the NFU-O continues to grow in size."

Members approved a resolution to increase NFU-O's membership fee from \$225, plus applicable taxes, to \$240 for 2018 and \$255 by 2022. The Ontario government will need to agree.

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OUTDOOR PURSUITS



KIM QUINTIN

Analog wristwatches are becoming less common with the growing popularity of cellphones.

Although cellphones can provide the same or more features for less demanding outdoor adventures, a good wristwatch remains useful for

harder outdoor pursuits.

However, finding the right watch when faced with the large number of manufacturers and models available can be difficult.

Basic criteria exist for a reliable analog wristwatch for use in the outdoors, and the necessary requirements can be found without overspending.

These criteria describe what is called a field watch. This kind of timepiece was used by militaries in the Second World War. Materials and technology have come a long way since then, but the principles remain the same.

The case and back of a modern field watch should be stainless



Quality field watch makers like Momentum have a stainless steel case and back. | KIM QUINTIN PHOTO

steel. It has excellent resistance to skin oils and sweat.

The glass should be made from synthetic sapphire crystal because it is the most scratch-resistant glass

used on wristwatches today and also withstands impacts.

Mineral crystal is OK, but it's not as durable as sapphire.

The physics of round glass improves watertight capabilities, so avoid rectangular or square faces.

The back of the field watch should be a single screw-down design. Back plates with multiple small screws tend to be less watertight.

The water resistance rating from the manufacturer should be at least 100 metres. Timepieces with a lesser depth rating generally cannot withstand hard outdoor use.

A quartz movement is the most desirable for a modern field watch. It uses a battery and tiny quartz crystals

to keep time. Good quartz movements are generally more accurate and less expensive than other kinds of timepiece mechanisms.

The last component of a field watch is the wristband — fabric, leather or metal. This is a matter of personal preference, but ensure the wristband will secure the timepiece to your arm when it catches on clothing, tools and even trees.

Common makers of field watches include Citizen, Seiko and Timex. Other good quality brands are Hamilton, Marathon and Momentum.

Kim Quintin is a Saskatoon outdoor enthusiast and knife maker. He can be reached for column suggestions at kim.quintin@producer.com or 306-665-9687.

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- Dan Strilchuk



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PRODUCTION

WEED OF THE WEEK

Considering there are so many good tools to kill this pest plant, why does it survive so well? The secret is in its ability to reproduce. | **Page 49**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM

DISEASE OUTLOOK

Ghosts of sclerotinia past haunt 2017

Abundant soil moisture holds promise of either a great crop or greater disaster than last year

BY RON LYSING
WINNIPEG BUREAU

PORTAGE LA PRAIRIE, Man. — The Catch 22 of a healthy-looking canola crop with a thick canopy is that it's not necessarily a healthy crop. Rather, this moisture trap is a breeding ground for sclerotinia.

Last year broke all sclerotinia records. The disease rate was 93 percent in Manitoba, 92 percent in Saskatchewan and 80 percent in Alberta, according to prairie agriculture ministries.

Heavy disease pressure in 2016 was followed by more unwanted rain last fall, so we certainly have excess soil moisture right now.

The good news is the moisture has the potential to foster a high yielding crop by establishing that much-desired healthy crop with a thick canopy.

The obvious bad news is that disease inoculum in the soil is waiting to infect that lush canola canopy.

As well, sclerotinia lives up to five years in the soil, surviving as sclerotia, and sclerotia is its own boss. It does whatever it wants to do, whenever it wants to do it, according to Canola Council of Canada agronomist Justine Cornelsen.

"The sclerotinia fungus can germinate whenever it wants to. It really just depends on environmental conditions. So, for growers, it's something that's always on the back of their minds," says Cornelsen, emphasizing pre-emptive action.

"You've got to get your fungicide application on before you see symptoms.

"First, growers need to get out into the field to scout. Boots in the field is one of the best things they can do. Next, one of the best management practices is to apply an early-season fungicide."

BASF canola specialist Sydney Marlow told growers at a producer meeting in Portage la Prairie that they should be thinking right now about how they're going to manage sclerotinia this year, and they should be thinking about their fungicide choices.

"This moisture is a virtual guarantee the plants will get a good start this spring," Marlow said.

"But as we know, a thick canopy is going to trap moisture and keep humidity levels high. The better the crop looks, the higher the potential for sclerotinia if moisture remains plentiful.

"We use all these expensive inputs in the spring. Now we have to protect that investment right through to harvest."

BASF representative Glen Forster said in a telephone interview that sclerotinia isn't just in canola fields; it's all around us.



"It's scary because a lot of the broadleaf crops we grow in Western Canada serve as a host to sclerotinia," he said.

"This isn't just a canola problem. It's in your lentils, your pulse crops, your soybeans, they're all carriers. A field adjacent to your canola might be a carrier."

Sclerotinia can break out anywhere if the conditions are right, he added.

"The best you can do is follow your local weather conditions closely and then get out in the field to monitor for signs as soon as your canopy starts forming," he said.

"If you think you're at risk, there are plenty of tools available to help you on the canola council website."

Forster said seed treatments are not effective in preventing sclerotinia. The only option is to check the crop as it approaches the 20 percent flower stage. Fungicides are the only tools once the crop is growing.

"For sclerotinia, there are many fungicides with many modes of action. There are plenty to choose from," Forster said.

"In Western Canada, fungicide immunity and fungicide resistance isn't a problem yet. It's not like ascocyta in chickpeas, which have a really high level of resistance.

"But just because our risk of fungicide resistance is relatively low

today, it doesn't mean we can ignore the threat. It's always good to rotate your fungicides, especially if you grow a variety of sclerotinia host crops like lentils and peas.

The other smart option is to use a fungicide that has two modes of action.

"We typically recommend just one application at the early 20 percent to 30 percent flower stage. If you protect the crop at that point, that's where you get the biggest bang for your buck. Fungicides work for 10 to 14 days, so you'll get adequate protection at early 20 percent to 30 percent flowering."

Agronomists are unanimous that producers must treat sclerotinia before they see it. But if their timing is off because of weather or other obstacles, then what?

"There's still a benefit if you spray at the 30 percent to 50 percent flowering stage, but you're better off starting a little early than late," Forster said.

"Based on what we know about the biology of the disease, you want the chemical on prior to any of the petal drop.

"Sclerotinia needs a food source in order to infect the plant. It depends on the canola petals that fall. Sclerotinia uses those petals as a food source to grow and infect the plant at the base of the leaf. That's why an early spray is better than a



ABOVE: Sclerotinia hit records in all three prairie provinces last year so growers are advised to scout fields and apply fungicide if necessary. | CANOLA COUNCIL OF CANADA PHOTO

LEFT: BASF is running experiments in which it sprays canola plants at different times with fungicide and then artificially inoculates them with sclerotinia to determine the yield loss impact if plants are protected too early or too late. In this photo, sclerotinia is damaging the main stem of the canola plant where infection was introduced.

| ROBIN BOOKER PHOTO



SYDNEY MARLOW
BASF

late spray."

Forster said a good-looking canola stand can often be its own worse enemy because the thick canopy is an ideal host. The best-looking crop with the highest potential for success will create its own conditions for disease.

"With trends toward tighter canola rotations and increased moisture during flowering, we've seen an increase in sclerotinia in Western Canada during the past few years. An unprotected crop can have yield losses greater than 50 percent."

Cornelsen said applying a fungicide not only increases yields but also reduces dockage because of sclerotia contamination of the seed, which results in small, shrivelled seeds.

Marlow said BASF has released a new weapon aimed at sclerotinia in canola, peas, lentils, chickpeas, soybeans and dry beans.

Cotegra is a blend of two older well-known fungicides that have a good reputation as sclerotinia control agents: boscalid, a Group 7 fungicide used in BASF Lance, and prothioconazole, a Group 3 fungicide used in Bayer Proline.

It's always good to rotate your fungicides, especially if you grow a variety of sclerotinia host crops like lentils and peas.

GLEN FORSTER
BASF

"A lot of work went into discovering the optimal rate of both active agents," Marlow said.

"We needed to establish high enough rates of both main ingredients to make sure we had the best possible disease management. And we had to be very mindful of resistance because that's a major concern for growers. We wanted to make sure we provided a product that's a good resistance management tool."

Marlow said Cotegra has two years of canola field tests, in two very different conditions: 2015 was a relatively dry year and 2016 was just the opposite.

Testing against two other fungicides, the competitors' products produced an average yield of 49 bushels while Cotegra gave an average of 51 bu. Testing against non-treated canola, Cotegra produced a seven bu. benefit.

"Yield is the end result, but we also saw a reduction in disease severity," Marlow said.

"Cotegra consistently had less disease than either of the competitor fungicides."

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GAS EMISSIONS

Soybeans offer carbon reduction opportunities

Soybeans require less nitrogen than other crops

BY ROBERT ARNASON
BRANDON BUREAU

Many producers feel that agriculture is under siege. They say that public expectations of farmers to produce cheap food while saving the planet have become ridiculous. So, creating policies to cut nitrous oxide emissions from cropland isn't easy.

Dan Mazier, Keystone Agricultural Producers president, knows a tax on carbon is contentious. Members of KAP debated carbon taxes for more than 75 minutes at an April meeting.

"We want to be part of the solution ... (but) it scares the bejesus out of every agricultural producer: we are going to bear the cost of all this."

When farm forecasters look into their crystal balls, they see a future with five million acres of soybeans in Western Canada.

Most experts wonder what that could mean for other crops, but Mario Tenuta likes to ask a different question: what will it mean for N2O emissions from prairie soils?

The answer to that question is simple.

Soybeans require less nitrogen than other crops, so more acres could curb N2O emissions from prairie cropland.

Tenuta, a University of Manitoba soil scientist and Canada Research Chair in applied soil ecology, is interested in N2O emissions because it could be a large opportunity



Streaming of nitrogen in a top dressing application such as this will be challenged in the future unless it is treated to reduce losses to the atmosphere and environment. Banding of fertilizer will be the preferred method says University of Manitoba researcher Mario Tenuta. | FILE PHOTO

nity for western Canadian growers to reduce greenhouse gases from agriculture.

Adoption of zero tillage, direct seeding and cutting summer-fallow acres have helped sequester more carbon in the soil. But those practices have been around for decades.

"Moving forward, by 2030, how much carbon are we going to be mopping up with those practices? It's going to be diminishing," said Tenuta, who spoke at the Agricultural Institute of Canada conference, held late April in Winnipeg.

Tenuta said cutting N2O emissions from prairie soils should be the priority because a reduction has a lasting impact.

"If I reduced emissions in one year, I've reduced emissions forever from that year. It's not debatable."

Slashing N2O emissions may be

necessary because Canadian farmers are applying more nitrogen than ever to crops. In 1981, they used about one million tonnes of nitrogen. By 2011, they applied two million tonnes, in an effort to reap higher yields.

With increased use of nitrogen, losses to the atmosphere in the form of N2O also increased. Environmental groups and policy makers noticed the jump because N2O is a potent greenhouse gas. One kilogram of N2O emissions is equivalent to 300 kg of carbon dioxide emissions.

Tenuta said the trend of using increasing amounts of nitrogen isn't sustainable, but he also knows that Canadian farmers need higher yields.

"The bottom line is we want to produce more crop. We want to export more crop and we want

to do that as profitably as possible. The limitation for the future ... is going to be nitrogen."

Tenuta said prairie farmers could produce more grains and oilseeds in the future, with fewer N2O emissions.

During his presentation in Winnipeg he laid out a scenario of how it would work. Using Manitoba as an example, Tenuta said it's possible to cut N2O emissions by 33 percent compared to 2005 levels. It would require:

- adoption of the 4R principles of right rate, right time, right place and right source.
- continued expansion of soybean acres
- enhanced efficiency fertilizer use by all growers to reduce losses to the atmosphere
- all growers to band fertilizer
- rolling back nitrogen rates

FERTILIZER APPLICATION

The number of Canadian acres under the 4R nutrient stewardship program, in which growers apply fertilizer using the right source, right rate, right time and right place:

2013	2014	2015	2016
500,000	1.2	1.2	2.2

(million)
Source: Fertilizer Canada

The last item seems unlikely, seeing how canola growers need large quantities of nitrogen to reach yields of 50 to 60 bushels per acre. Tenuta said it could be possible with the help of enhanced efficiency fertilizers.

"They're actually designed so you don't have to use as much fertilizer and you get the same yield or get more yield."

Convincing growers to adopt the practices on Tenuta's list could prove more challenging.

"The obvious (tool) is a price on carbon," said Hank Venema, director of planning for the Prairie Climate Centre in Winnipeg. "It's contentious and it's not an easy sell in the agriculture sector."

Tenuta has met with Canadian growers and understands their concerns, but current practices may become socially unacceptable.

"I see my role as trying to help growers in terms of navigating what might be coming down the pipeline ... and to drive innovation."

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NATURE'S BALANCE

Weeds are a few of my favourite things and have role to play

ORGANIC MATTERS



BRENDA FRICK

There seems to be a common observation made by farmers who are asked if they've ever considered organic production.

"I could never go organic; just imagine all the weeds I'd have."

Like many stereotypes, there is some truth to this, and some unfairness.

However, for someone considering organic production, there is a definite look at weeds from a new perspective.

Yes, there are weeds on organic farms: sometimes a lot, sometimes only a few. But hey, there are weeds on non-organic farms, too. If there weren't, why would herbicide purchases continue to be an important part of those operations? Weeds will always be with us. They are a natural part of the agro-ecosystem.

Weed science tells us that "a weed is a plant growing where it's not

wanted," but this tells us that it's all about us: our wants and our perceptions. It doesn't tell us much about the weed.

Perhaps this is where our perceptions need to shift. Weeds have a role to play. Most importantly, weeds are the first responders after a disruption.

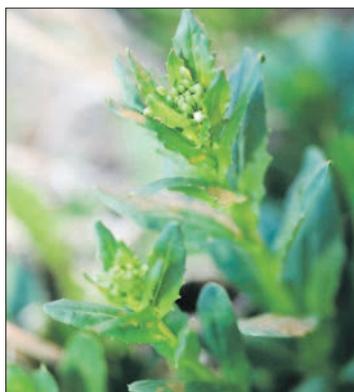
Disturbances are common, even in natural systems. From gopher mounds to the hoof action of thousands of bison, there have always been areas that were stripped bare. Weeds assure that bare patches are short-lived; they green the world.

We make a lot of disturbances in agriculture. We knock back the vegetation, whether by tillage, chemicals or even grazing action, to provide a clean slate for our crops. This clean slate is also an invitation for weeds.

If a crop doesn't fill that space, quickly and completely, weeds will. By increasing the amount of disturbance across the land as we grow our crops, we've increased the opportunity for weeds.

Weeds are quite similar to crops. They are highly productive, they grow rapidly and they are well adapted to our agro-ecosystems.

Some of the similarities are obvious: oats, wild oats; tame mustard, wild buckwheat; tame buckwheat, wild buckwheat; quinoa, lamb's-



Stinkweed has a smell that masks the odour of the crop, thereby protecting it. | FILE PHOTO

quarters; millet, green foxtail.

And of course, volunteer crops are often quite successful weeds.

For example, volunteer canola was the fourth most abundant weed in Saskatchewan in the 2014-15 weed survey. With these similarities, it should come as no surprise that weeds can prosper on our farms.

Weeds provide a number of ecosystem services:

- They green the landscape and protect the soil.
- By shading the ground, weeds create a more moist and habitable environment for organisms in and near the soil surface.

Weed roots provide habitat and food for soil organisms involved in nutrient cycling. They stabilize the soil and reduce water erosion. When weeds die, their roots provide channels for water infiltration.

Weeds also provide resistance to the wind, reducing wind speed at the soil surface, evaporative moisture loss and wind erosion. Many weeds, especially dandelions, quack grass and wild oats, are excellent forage or green feed.

Weeds are also important food for wildlife, from birds and beetles that eat seeds to all manner of insect and vertebrate grazers. Similarly, weed roots are important in supporting mycorrhizae and other members of the soil food web.

Weeds also provide a number of services to crops around them.

For example, a few wild oats in a lentil crop can reduce wind damage and help raise lower pods off the ground. Volunteer legumes can provide nitrogen to cereals crops, while wild mustard can improve phosphorus solubility and improve a cereal crop.

Weeds in crops can help protect them from insect damage. They can act as a catch or trap crop for insects, leading them away from the crop. Many insects that are crop pests find their target crop by smell.

Some weeds, such as yarrow, stinkweed and bluebur, have strong smells that mask the odour of the crop, making it hard for the pests to find it.

Most weeds have small flowers, which provide a critical nectar source for beneficial insects such as predatory wasps and hoverflies. They can also attract and maintain pollinators throughout the season.

Don't get me wrong, I understand that weeds compete with crops and cost both yield and dollars. As well, I don't think weeds should be encouraged to take over.

I am suggesting that weeds are underappreciated. We need to find a new balance and a new relationship with these components of the system. Land that won't grow weeds won't grow crops either.

Weeds are a natural part of agro-ecosystems, filling in the gaps and covering ground. They provide benefits to soil, deter pests, and take part in nutrient cycling.

As well, they remind us that we are not entirely in charge, that nature is still willing to enter the dance with us. And that's a good thing.

Brenda Frick, Ph.D., P.Ag. is an extension agrologist and researcher in organic agriculture. She welcomes your comments at 306-260-0663 or email organic@usask.ca.

INTERCROPPING

Intercropping has merit, but challenges still exist

Trials have shown reduced disease with a chickpea-flax intercrop, but some are skeptical about a mustard-pulse or canola-pulse mixture

BY ROBIN BOOKER
SASKATOON NEWSROOM

In the midst of diseased lentil fields last year, some growers might have noticed healthier crop stands where wild mustard was present.

"There are a lot of anecdotes where they said the only place where they had any kind of lentils worth harvesting is where they had some wild mustard weeds. The

lentils were climbing up the wild mustard and they did better under those conditions than where there wasn't mustard or canola," said Lana Shaw, crop researcher at PAMI, an applied research and testing organization.

Shaw said she also had good results with a small trial she ran last year, which she is expanding this summer.

"We have a trial this year where

we are doing mustard with peas, and mustard with lentils, both yellow mustard and brown mustard," Shaw said.

"There are some very good reasons to expect less diseases, based on lab results. Mustard type of residues have in the past reduced aphanomyces pressure in susceptible pulse crops, so lentils and peas."

She said the possibility of biofungicide properties that may reduce root rot is a research area that is only beginning to be explored.

Shaw has researched intercrops for years and her research into a chickpea-flax intercrop had shown a reduced disease incidence and increased tolerance to excessive moisture compared to monocrops.

"The chickpeas hold up better. They mature more consistently, and on the years where we've had disease pressure, they've held up to disease pressure and lodge less," Shaw said.

When there is crop disease present, it doesn't seem to spread as well when there is another other crop in the mix.

If the disease spores land on a non-target plant they are unable to spread, and the microclimate in the canopy is less humid, she said.

"A chickpea crop on its own tends to have a lot of horizontal branches that kind of seal in moisture. Whereas with a flax crop, most of your stems are vertical, so I think there is more air movement, but that is something that we haven't quantified so far," Shaw said.

She said growers who want to grow peas or lentils in wet conditions will not add to their risk by adding a small amount of mustard or canola seed.

"A mustard or canola in there at a very low rate, we're talking like three or four pounds an acre for mustard, and for some kinds of canolas you might do two pounds of a hybrid canola with pea," Shaw said.

Growers can plant a Clearfield pea with a small amount of Clearfield canola and can have Solo as an in-crop herbicide option.

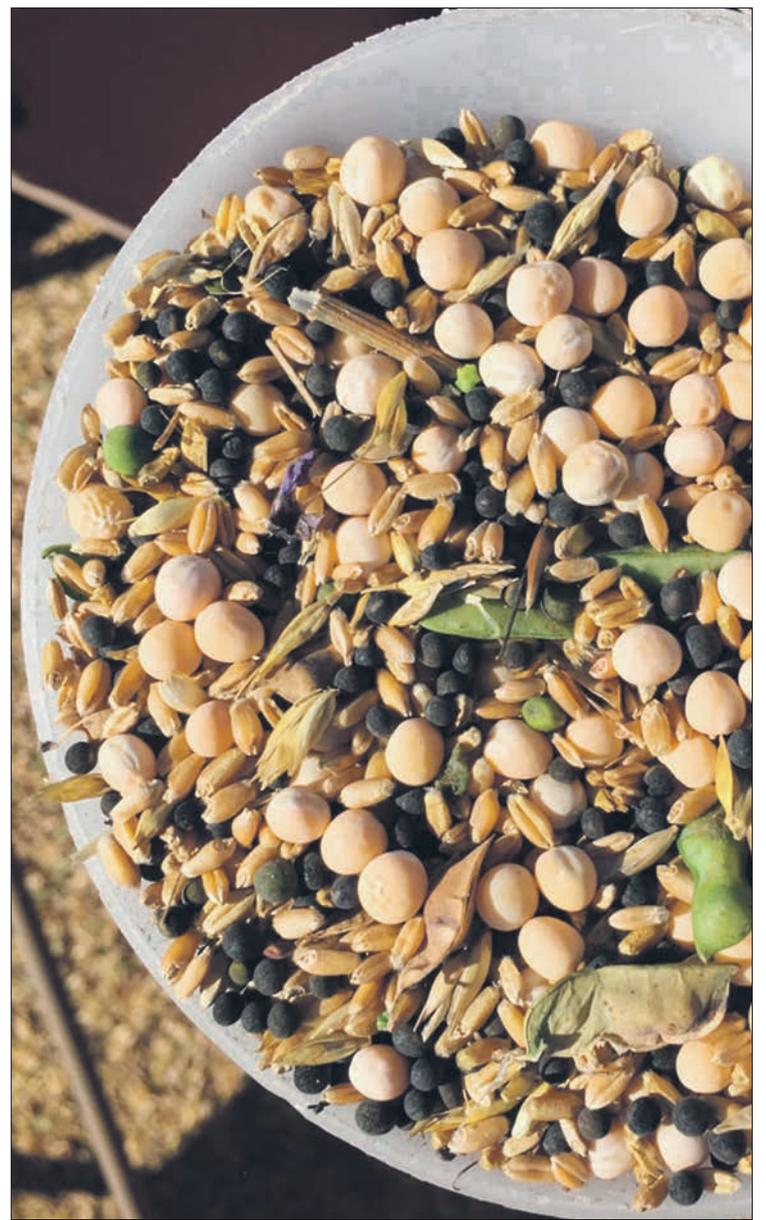
"If you've already got a bunch of Group 2 resistant weeds, than maybe it's not worthwhile worrying about it and you just go with non-Clearfield mustard with a lentil. It might work fantastic," Shaw said.

Brent VanKoughnet manages a farm in the Carman, Man., area and is owner of Agri Skills Inc., a company that performs agricultural research and has studied pea and canola intercropping.

"I don't see it (pea-canola intercrop) much as a moisture strategy, I see it more of a nutrient efficiency strategy. If everything goes well, you can get 60 percent of two different crops," VanKoughnet said.

He said the canola does reasonably well with very little additional nitrogen added, and that it must be grabbing some nitrogen from the peas.

"It (canola) captures the efficiency of the peas and their ability to produce nitrogen, and if we get that



Intercropping has its proponents and in some cases has shown to be effective at improving returns. However, the additional logistics, lack of crop insurance coverage and challenges with herbicides create barriers to adoption by most producers. | RYAN BOYD PHOTO

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Martin Carr, PAg
Agronomy & Production Development Manager
United Suppliers Canada
Saskatoon, SK

Martin is responsible for creating agronomic resources and training for United Suppliers Canada, USC Owners and their Business Agronomist™ staff. He also oversees the Total Acre field trial program within the United Suppliers Canada network.

"The professional agrologist (PAg) designation is a level of respect and commitment, which ensures the work in the agronomic industry is done in a professional and ethical manner."

Martin was born in England and grew up on a grain farm near Perdue, SK. He received a BSc in Agribusiness from the University of Saskatchewan. Martin previously worked with Cargill before joining United Suppliers Canada in 2016.



Melissa Goods, AAg
Sales Agronomist
Sharpe's Soil Services
Langenburg, SK

Melissa provides agronomic advice and recommendations to producers such as field scouting and crop inputs to achieve their yearly productions and business goals.

"Being registered as an agrologist (AAG) holds me to a high ethical standard when providing recommendations and ensures my current practises and knowledge are up to date."

Melissa was born and raised near Yorkton, SK. She received a Bachelor of Applied Science in Environmental Management and a Diploma in Land Reclamation from Lakeland College in Vermillion, AB. Melissa has previous experience as an environmental consultant prior to joining Sharpe's Soil Services in 2016.

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Producers generally want to be clean. If they thought a crop was going to be in trouble clean, they would grow another crop.

BRENT VANKOUGHNET
AGRI SKILLS INC.

right, can they produce more than they need for themselves and give some of that to the canola? That's the theory anyway."

However, when it comes to using canola to help manage diseases in pulse crops, he said most growers need compelling evidence that it works before they try it.

"I think those are long shots. Producers generally want to be clean. If they thought a crop was going to be in trouble clean, they would grow another crop. It's the reason we're not growing lentils in Manitoba. We just expect the moisture to be high," VanKoughnet said.

In experiments at Agri Skills, they were striving for two crops, rather than seeding a small amount of canola to help the peas climb and for possible biofungicide benefits from the canola roots.

But in VanKoughnet's experience, airflow in the canopy was not improved.

"There is an amazing mass of material when you have 60 percent of a pea crop wrapped around 60 percent of a canola crop. If you ever thought it was tough to scout a canola field, just double that when you've got it all woven together with pea vines. You need a machete to walk your way through it," Van-

Koughnet said.

He said most growers don't want to complicate their operations by making their spraying windows harder to hit and limiting their herbicide options.

He said people in his area love growing soybeans because they are simple, easy to harvest and clean.

"You don't want to upset the flow of efficient commercial operations."

"When you think of how many farms that have doubled in size in the last decade, just logistics and getting stuff done efficiently matters," VanKoughnet said.

If there was a market for peas and canola grown together where growers could haul in their mixture directly to without having to clean it, VanKoughnet thinks more growers would be interested.

He said most growers aren't interested in taking off a crop that requires cleaning before marketing.

"The cleaning is a pain too. It works with a pretty simple corn screen that takes the canola out of peas pretty easily. But it slows things down. It's just another step and generally people want to be able to move through harvest as quickly as possible."

Shaw said it's difficult to track the amount of acres in intercrops because there are no stats available on the practice, but she estimates there were about 20,000 acres in Saskatchewan last year.

"This is a daring comparison, but I think this (intercropping) will be as transformative to agriculture here as no-till was. In 10 years, I think we will see this taking over a lot of the acres," Shaw said.

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WEED OF THE WEEK: WILD MUSTARD

BY MICHAEL RAINE
SASKATOON NEWSROOM

With all the great ways to kill broadleaf weeds, one might think wild mustard would be a thing of the past.

But not so. The pest, which is known formally as *Sinapis arvensis* or *Brassica kaber*, remains an elusive foe, partly because of its seeds' ability to remain viable for a decade or more.

The weed can condemn a canola crop to the sample reject bin if more than five percent is found. It is also a threat to tame mustard growers.

All mustard types, especially the oriental and brown, should be planted in fields that are known to be relatively free of wild mustard. The weed might be separated mechanically from yellow mustard with its large seed, but that isn't possible with the brown and oriental types.

Producers considering open-pollinated canola this year should remember wild mustard is controllable in herbicide-tolerant canola but creates problems for Polish canola and non-herbicide-tolerant varieties because of its shared brassica heritage.

Western Canadian wheat crops historically had a yellow phase in late June or early July when wild mustard came through the crop and flowered.

It would last a week or two and the wheat would grow through the pest, although not without a yield penalty.

The aggressive plant can be found in most of the grain-growing regions of the northern hemisphere.

It can be short or tall, reaching up to 100 centimetres in some cases. It has branches and leaves that are hairy, unevenly toothed and end in a rounded lobe.

Unlike canola, wild mustard's leaves are supported by short stalks.

Branches at their base often have violet spots. The stem hairs are stiff and pointed toward the ground.

Seeds begin germination when soil temperatures reach 2 to 4 C and will continue with fresh rain and as the soil temperature rises.

Seeds prefer to start shallow in the soil but can hang around for up to a decade until conditions are right for it to germinate.

Wild mustard produces up to 3,500 seeds per plant. The seeds have a gelatinous coating after they are soaked in water. Dry conditions early in the season will limit populations, such as this season in much of Western Canada.

Seeds can survive animal feeding, which means hay from fields where mature plants are present can help spread the weed.

Farmers who scout for the weed early in the season should look for broad, kidney-shaped, cotyledon leaves.

The yellow flowers can be mistaken for other mustard family plants. The seed pods are also known as siliques.

It differs from other mustards by having some seeds in the flat terminal end of the seed pod.

The pods narrow toward the last third of the terminal end and are

held to the plant at the other end by a short, thick piece of stalk.

The weed discourages many producers from growing mustard because of its ability to contaminate fields of tame mustard.

Wild mustard plants act as hosts to disease-causing organisms, which can damage tame brassicas, such as canola. It can activate spores and become infected by disease when growing in soil containing clubroot.

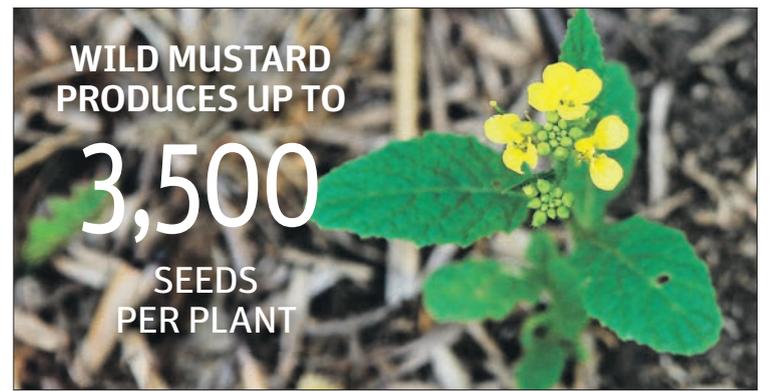
Ten plants per sq. metre in cereals can result in a 10 to 20 bushel per acre yield loss, while 10 plants per sq. metre in flax can cut yields by up to 50 percent and 33 plants per sq. metre can reduce yields by 65 percent in peas.

The good news is that a variety of herbicides are available to control the weed in a pre-seed burnoff and in-crop situations.

The only control challenges are in non-herbicide-resistant brassica crops and when the weed's growth stage is well advanced before application.

Mustard plants can be controlled with herbicides such as 2,4-D, Banvel, bromoxynil, MCPA, glyphosate and most ALS herbicides, including imidazolinone and sulfonyl-urea.

Some of the weed's population has developed tolerance to Group 2 ALS inhibitor herbicides, including ethametsulfuron-methyl, imazethapyr, thifensulfuron-methyl



FILE PHOTO

and tribenuron-methyl.

The most effective controls are multiple modes of action, crop rotation and limiting seed production. Control in pulse crops can be difficult, other than Clearfield lentil options. Odyssey can be used effectively in peas.

Weed wipers and wicks loaded with glyphosate can control the pest as it grows through shorter

pulse crops.

The spring annual has little or no resistance to tillage, but tillage can also disturb ungerminated seeds, causing a new crop of problems and creating moisture loss, erosion and increased production expense.

Look-alike weeds are its cousins tumble mustard and wild radish.

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PRECISION AGRICULTURE DRONES

A SPECIAL FEATURE OF THE WESTERN PRODUCER | E-MAIL: NEWSROOM@PRODUCER.COM | 306-665-3544 | EDITOR: BRIAN MACLEOD

TIPS AND ADVICE

Drones get civilized for agriculture

The wild west in the sky gets regulated and producers need to know rules involving unmanned aerial vehicles

BY ROBIN BOOKER
SASKATOON NEWSROOM

As drones become more affordable and flyable, an increasing number of growers are kicking the propellers as they try to figure out how to implement this emerging technology on their farms.

The sky's the limit in terms of the possible agricultural applications, but there is a limit to the amount of time and money farmers are willing to invest in a technology that doesn't show a quick return on investment.

Drones were primarily used to take photographs when they first became available. However, they are now well past the gimmick phase in terms of agriculture applications, and they have proven their utility in research and in the field.

Whether acquiring a drone makes sense for your operation largely depends on how badly you want to implement the technology because it takes a considerable amount of time to learn how to turn them into a meaningful contribution.

For those who are considering acquiring a drone for their farm, here are 10 things to keep in mind:

1. How will it be used?

There can be considerable value in using a drone just to get an aerial view of the backside of a your canola field or to help locate livestock. If that is all you need the drone for, there are many affordable consumer drones with an RGB camera that can do this job effectively.

However, the real value of drones comes from their ability to produce data that helps growers make real time decisions, said Markus Weber, President of LandView Drones.

So if growers want to produce actionable data, they need to know what information their farm could use from a drone and then seek out a platform that best fills this need.

"In order to produce data, you need software, you need some machine learning, you need different kinds of cameras with different wavelengths of light. A bunch of things come into play," Weber said.

2. Acres to monitor

The biggest thing to keep in mind when choosing a drone is the amount of acres that it will be covering, said Matthew Johnson, owner of M3 Aerial Productions.

"If they are covering a lot acres, then they might want to think about getting a fixed wing," he said.

"If they are covering more than a few thousand acres, probably three or four thousand acres, I wouldn't think a multi-rotor would be very



ABOVE: Matthew Johnson from M3 Aerial Productions in Manitoba says the producers need to treat the purchase decision like any other machinery choice. They must ask themselves how many acres and how fast. | M3 PHOTO

RIGHT: Markus Weber of Landview Drones demonstrates to producers at a farm near Gwynne, Alta., the tools producers can use to capture their own field data. | FILE PHOTO

useful at that point."

However, multi-rotor drones, commonly called quadcopters, are more versatile than fixed wings drones.

"You can get a 400 foot aerial perspective, or you can get a four foot aerial perspective," Johnson said.

"They can hover right over areas that you want to get a really close look at, take some pics with a high resolution camera."

3. Selecting a sensor

There are many drones that can be programmed to survey a field, but it's the type and size of the sensor or sensors with which the camera is equipped that determines the level of analysis that can be performed after a drone has flown a field. So it doesn't matter if you own the flashiest drone in the municipality. It's usefulness will be limited if you have only a tiny sensor.

"When you're starting to select what you're going to be flying, you want to choose something that gives you value from that sensor,"

Weber said.

A drone equipped with an RGB camera would suffice if a grower were primarily interested in monitoring his crop's emergence.

"But if you want to at midseason evaluate what parts of the field has the highest yield potential, for things like variable rate fungicide, then you're already into things like variable light sensors to be able to do that," Weber said.

4. Multispectral light sensor or converted sensor

Basic cameras, such as the one in your phone, are RGB (red, green, blue).

The sensors in these cameras are capable of seeing near infrared light, but it is blocked out because they are taking images meant for the human eye.

"There is a whole industry that's been built on converting those for crop imaging, and essentially all that is, is they remove the block for near infrared lights," said Weber.

"And then in it's place they block

some of the visible spectrum light. Every conversion is different: some will block red, some will block blue. It all depends on the conversion. At the core of it is they are allowing near infrared light into a consumer sensor and then doing some calculations on that imagery to create that false colour image," Weber said.

These converted sensors are the most commonly used by farmers and agronomists because they are the most cost effective at less than \$10,000.

As soon as you get into multi-spectral sensors as a complete package, then you are talking upwards of \$10,000 for the aircraft, camera and the software," he said.

"A multi-spectral system actually has separate sensors for each of the different wavelengths of light that it's sensing."

Most multi-spectral cameras will have a near infrared band, a couple visible light bands and something called a red edge.

"By breaking it down that way,

you can do a lot more analysis on the data you're collecting, you can do different vegetative indexes," Weber said.

"With a converted camera, you're basically stuck with one type of index."

A multi-spectral allows the drone operator to work with other indexes that can specifically filter out soil or highlight crop stress because four different sensors are running calculations against each other, he said.

"This is the area people understand the least, and how can I put this nicely? This is the area where there is the most smoke and mirrors in the drone industry, where people will say you will see yield increases because you'll see all kinds of things with this camera," he said.

"It's not really well understood, but it really is basic stuff."

CONTINUED ON NEXT PAGE »

RULES AND REQUIREMENTS

Do your homework before taking flight

BY BRIAN CROSS
SASKATOON NEWSROOM

Thinking of using a drone on your farm? If you are, make sure you know the rules and regulations before you take flight.

The first step is to apply for a Special Flight Operations Certificate.

"Anyone using a UAV (unmanned aerial vehicle) for work or research purposes, including for agriculture, must hold a Special Flight Operations Certificate (SFOC) from Transport Canada," says Natasha Gauthier, senior media relations adviser with Transport Canada.

"Every SFOC application is evaluated on a case-by-case basis, according to such criteria as the proposed use and the experience and safety record of the applicant.... Each SFOC contains specific terms on what the operator is and is not allowed to do. This can include restrictions and requirements such as maximum allowed altitude, mandatory communications with air traffic control and minimum required distances from aerodromes, people and buildings."

The use of drones for non-recreational purposes has grown by leaps and bounds over the past few years with the number of SFOCs issued by Transport Canada increasing to 1,672 in 2014 from 945 in 2013 and 345 in 2012.

They were once rarely seen in farming country, but their popularity in agriculture has grown quickly.

Matthew Johnson, president of M3 Aerial Productions Inc. in Winnipeg, says the vast majority of new drone users who he trains are involved in agriculture. Many of them are farmers.

"About 90 percent of our clientele is from the ag industry," Johnson said.

"The people that are coming to our course are the ones that know there are regulations in place. They may not know the ins and outs of all the regulations, but they do know that as of Dec. 21, 2016, anybody operating commercially has to have training."

Rapid growth in commercial drone use has prompted Transport Canada to revisit the regulations governing their use.

Before 2017, pilots could obtain an SFOC exemption if the drone they were using weighed two kilograms or less. However, the weight limit for exemptions was reduced Jan. 1 to one kg.

Transport Canada is also proposing additional changes to the Canadian Aviation Regulations, including new flight rules, aircraft marking and registration requirements, knowledge testing, minimum age limits and pilot permits for certain drone operators.

The proposed amendments focus on smaller drones — recreational and non-recreational — that weigh 25 kg or less and are operated within visual line of sight.

Canadians will have the opportunity to comment on the proposed regulations once they are published in the *Canada Gazette, Part I*, this spring.

It is widely expected that the new regulations, if passed, will take effect in 2018.

Johnson said federal regulations that govern drone use are aimed at addressing public concerns about safety and ensuring that users are flying their machines responsibly.

In spite of Canada's existing regulatory framework, there are still too

many cases of irresponsible drone use by people who don't recognize the potential risks.

"In general, having a lot of drones flying around overhead is ... not a safe thing ... especially when the number of drones is increasing (so quickly)," Johnson said.

M3 provides flight school training for new drone users.

Completion of a training program that conforms to federal guidelines for safe drone use is a pre-requisite to acquiring a SFOC.

In addition to training and SFOC certification, every commercial user must carry liability insurance.

Determining whether a drone is being used for recreational or commercial purposes is not always a black and white issue, Johnson added.

For example, taking aerial pictures of your farm may not be a commercial use, but taking pictures of your crops and making management decisions based on those pictures is a commercial application.

"There's a fine line between recreational use and commercial use," he said. "However, it can be fairly easily distinguished that if you're using a drone to gain benefit ... it's considered commercial."

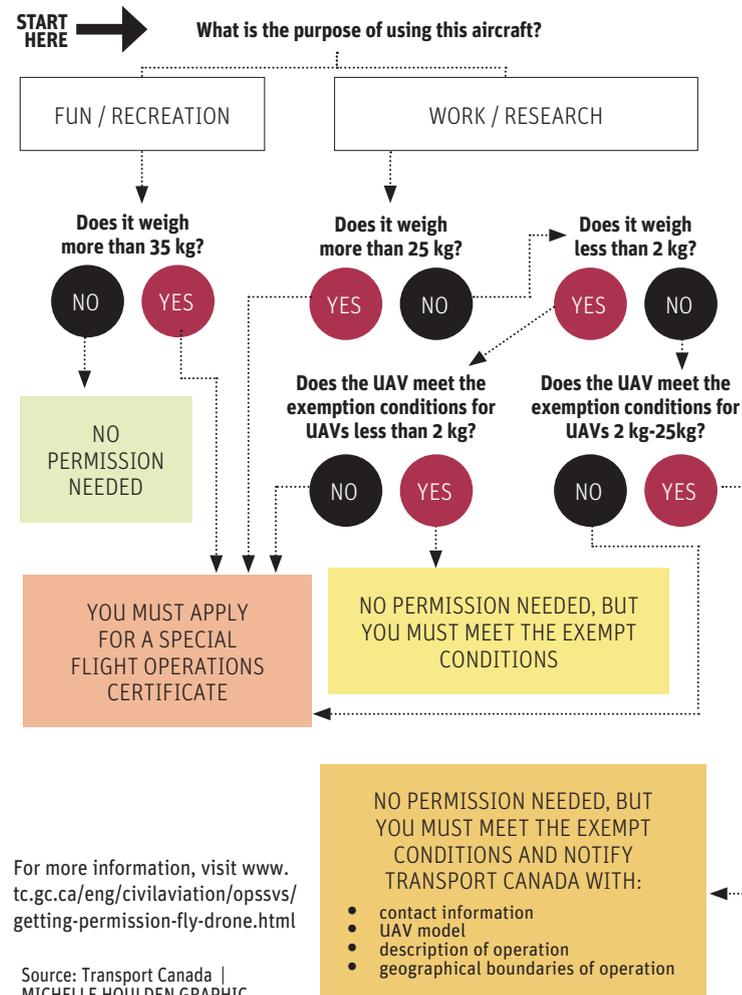
Flying drones on a regular basis on the farm could also be an indication of commercial use.

Markus Weber, president of LandView Drones in Edmonton, said agricultural users should be aware that regulations for small drones have changed.

Ottawa's decision to reduce the maximum weight for SFOC-exempt drones to one kg from two means more users will be required to complete a training program and acquire a SFOC.

REGULATIONS FOR OPERATING AN UNMANNED AIRCRAFT

Use this as a guideline to see if you need permission from Transport Canada before launching an unmanned aircraft this season.



"The regulations (for exempt drones) actually got a bit looser," Weber said.

"(Pilots of exempt drones that weigh one kg or less) still can't fly over buildings, but you can at least fly close to built-up areas, as long as you're away from an airport."

However, farmers who are assessing crop conditions using multi-spectral or near infrared light prob-

ably shouldn't be flying without an SFOC in most cases anyway.

"The bottom line for most farmers is that they will have some land that's close to a built-up area and if they want to do any multi-spectral or near infrared light at all, then they're probably above two kg anyway."

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» CONTINUED FROM PREVIOUS PAGE

5. Data is collected; now what?

Learning how to program a drone to collect information from your fields is only part of the battle. Now you have to do something with this information.

"It doesn't take long to pay it off if you are utilizing the data it produces and actually making decisions with it," Johnson said.

"(However), a lot of the time data is collected and decisions aren't made. It's providing good data, but it's not providing good savings."

It's important to know the limitations of how you can incorporate drone-derived data into your operation.

The largest savings that drones can offer is by helping collect information that helps growers make real time in-season decisions. Drones are often in the air because they are helping users make decisions. As a result, it's important to not sit on the data. Process the information quickly, make a decision and move on.

Whether a grower can use the information in their sprayer depends on the software system that is in their sprayer and how it talks to their farm's main software.

"It really is dependent on their equipment in their cab and what software they're running, either in the cloud or their home computer," Weber said.

"All of the systems that are out there right now produce some-

thing called a geoTIFF. So if the farmer is using FST or SMS or Ag Leader or John Deere Cloud or any of those, it's a standard image that you can pull into any of those software systems."

6. It's all about the maps

Their remote controller may intimidate new drone users because they may fear smashing their brand new shiny unit into the first power pole it comes across.

However, they become less intimidated once they learn that they don't have to take manual control of the drone and can instead just get it to fly a pre-programmed field map all by itself.

"People were amazed that they take off and land and fly the entire mission by themselves. So that ability of these consumer drones to be used for mapping is something that farmers should know about," Weber said.

"Once I show them the mapping, a lot of them want to use it for elevation modelling or just for general mapping. Say they have some test strips and they want to see what the difference is between them from the air. There are a lot of those uses people can make of just a regular consumer drone, just by getting it into that mapping functionality."

7. Pinpointing problem with that extra pass

Flying at high elevations is required for efficient field mapping, but you need to get it down to

the crop level if you really want to know what's going on at a specific location.

"After you've flown it at 400 feet to get a general sense of what's going on, then you can go down closer to the areas that look like they are under stress so you can get some better resolution pictures," Johnson said.

"The Sentara system allows you to, when you're still at the field, process the NDVI images, which is pretty revolutionary."

This means a grower can fly his field, figure out the trouble spots and send the drone out again to get up close to identify what is causing the problem, without having to fight through half a mile of canola.

8. Drones can help with variable rate, but it's no soil test

Drones are often touted as a tool to help with variable rate fertilizer, but Weber said this isn't a great use in Western Canada.

"When the variable rate occurs in the spring at seeding, we'd be better off using other data sources," Weber said.

"Long-term yield indexing from satellite imagery or soil sampling is a better source than a UAV image."

However, drones can be very helpful to determine fertilizer rates where split applying nitrogen is practised.

"In that scenario, it absolutely makes sense because you're measuring what the crop response is mid-season and you're basing your variable rate on that."

When it comes to variable rate

fungicides, NDVI (normalized difference vegetation index) images are used to determine what the yield potential is on different parts of a field.

"Then you can decide, where do you want to draw the threshold for where is there enough yield potential to make it worthwhile to put down the \$25 bucks an acre," Weber said.

"It's more of an economic analysis. It's not looking for disease and then going after the disease with the fungicide. It's really just assessing whether it's economically worthwhile to be applying products where you don't have much yield potential anyway."

9. Remember the other uses

There is a tendency in the agriculture drone world to start thinking that their uses are confined to dealing with crop health matters, but there are many other uses as well.

"Herding sheep works really well. Herding cattle, not so well," Weber said.

"It really depends on the animal and their response to it. Some of them you can fly right up to them and they are just curious and stare at it. Whereas a flighty heifer will take off in any direction when you're 100 feet away from them and you can't control your direction at all."

Drones can be useful when changing pastures to find the straggler cattle back in the bush and then to try flushing them out with a low, loud pass.

Elevation mapping is also possible, even for greenhorn drone operators once they install the right program.

However, crop health will remain a major use after the crop takes off because let's face it, it's a real pain to tramp around through a thick canola crop or tall corn stand.

"In Europe they use these to drop trichogramma wasp pellets into corn fields," Weber said.

"It's a beneficial wasp that will eat the corn borer larvae, so it's an integrated pest management tool."

There are also drones capable of carrying herbicides, and growers will soon be spot spraying weed patches without having to trample their crop.

10. You may not wed a drone to a paintball gun

This last tip should be about how it's important to understand the federal regulations about drone use, but that topic is being covered in a separate story (see above).

Let's just say that this last tip is about how an obvious practical use of drones in agriculture isn't allowed.

Yes, you may want to mount a paintball gun on your drone to mark that sick heifer in your feedlot or to chase off the neighbour boy that your daughter has been finding a little too charming lately.

However, Transport Canada is not cool with the mounting of any kind of weapon onto a drone.

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Felix Weber checks his drone prior to launch. | MICHAEL RAINE PHOTO

PRECISION AGRICULTURE

Preflight checklists make flights safe and data sound

Before you check off, there might be things to check out

BY BRIAN MACLEOD
SASKATOON NEWSROOM

When farmers are preparing drones for the season's reconnaissance, there are vital preparations and decisions that must first be addressed.

Producers should have a checklist of things to look at before launching their drones.

First, says Felix Weber, operators must check to see whether they have the right approvals.

"The law has changed as of January 2017. In a way, it has been made a little bit easier and... it probably is more clear of what the law is," said the president of Ag Business and Crop in Palmerston, Ont., which sells the EB Sequoia fixed wing unmanned aerial vehicle.

Anyone using a UAV must have a special flight operating certificate (SFOC).

"It doesn't matter if you're a farmer or if you're a personal user, the law is now very clear that anything over 250 grams needs somehow an SFOC," said Weber.

"It isn't very complicated, but you follow the rules. If you lift off or if you launch a UAV... you get into the air space, which means the air traffic. That's the first thing that somebody has to know.

"From a checklist perspective... you have to know how close you are to an airport and built-up areas and what the surrounding is."

Operators can read about the SFOC or how to apply for an exemption at Transport Canada's website at bit.ly/2aXX68.

At the beginning of the season:

- Make sure software is updated.
- Ensure all batteries are charged and that they're in good shape.

Lithium batteries deteriorate.

- Place fresh batteries in the backup controller.
- Lift the drone and check the computer to see if elevation and other instruments are registering movement.
- Rotary aircraft require service more often than fixed wings because of moving parts. Software indicates how many flight hours have been completed — 100 is typically the service interval. Warning lights on the Sequoia come on after 80 hours. Record how many hours of flight the drone logged last year for reference.
- Look for air-frame cracks and ensure the propeller is in good shape. A weakened propeller will not be able to push the drone effectively, reducing acreage coverage.

Bobby Vick with PrecisionHawk in Raleigh, North Carolina, markets the most common drone platform in agriculture — the DJI Matrice 100 quadcopter.

He said choices start long before pre-flighting:

- What kind of crops will the drone be flying over?
- How many acres and what crop stages will the drone be likely to fly over?
- What sensors, such as visual, multi-spec camera or thermal, are needed?
- What software will be used to fly the drone and process imagery?

Operators must also take into consideration sunlight and wind. Consistent sunlight is important for good imagery, said Vick, and winds should be below 10 metres per second.

"Depending on the timing of

what you're flying, you might be looking for something very different. If you're flying right after planting at emergence and you're trying to evaluate stand counts, the necessity of a high-resolution image is more important than later in the season when I'm just trying to assess overall crop health."

So, farmers must decide what resolution is needed to get the job done. That decision governs the altitude of the flight, based on the sensor and the platform used.

Farmers often use the drone four or five times during the season. First on the list is to scout out drainage and elevation.

The drone will likely fly again soon after emergence to assess the stand.

"Did you get the stand that you're looking for? Is there an option to go back and do any replanting or adjust input management decisions?"

Then, a mid-season flight will track the progression of maturity, looking for water, disease, pest or nutrient stress so farmers can make decisions.

Near harvest time, farmers can use the drone to make decisions on whether the crops have reached maturity and are ready to harvest, and also "which (fields) are most critical for me to get in and get the crop out."

Ultimately, a good plan on how to use the drone is important, said Vick. He advises farmers to ask themselves: "For the crop that I'm growing, what is it that if I had more information during the growing season, what management decisions could that impact?"

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PRECISION AGRICULTURE

Multi-rotor, fixed or hybrid: which is best for your operation?

BY ROBERT ARNASON
BRANDON BUREAU

The number of drones now on the market for agricultural uses almost equals the variety of breakfast cereals at the grocery store.

There may be many options for growers and agronomists, but there are basically three body types: multi-rotors, fixed wing and hybrids.

"It (a hybrid) is a vertical take off and launch fixed wing (drone)," said Matthew Johnson, president of M3 Aerial Productions in Manitoba, a drone service provider specializing in the agricultural industry.

"It's a vertical take-off and launch fixed wing. It's kind of like the American Osprey plane."

However, most of the UAVs on the market are either fixed wing or multi-rotor. A few companies and drone websites claim that fixed wing drones are best suited for agriculture because they are faster, have a longer flight time and can carry more weight than multi-rotor drones.

For instance, several manufacturers claim that fixed wing drones can fly 45 to 60 minutes and cover 200 to 300 acres in a single flight, depending on conditions.

Johnson uses both fixed wing and multi-rotor drones when he works for farm clients. Is one body type better suited for agriculture?

"I'm going to lean towards saying no," he said. "It really depends on what you need it for."

In late April, Johnson used a multi-rotor drone for elevation mapping of 320 acres. It required five flights, and he said a fixed wing drone probably could have done the job in one.

He estimated that fixed wing drones can cover five to eight times more acres in a single flight.

"Depending on the overlap of the images that you are trying to gather," he said, adding that elevation mapping on bare ground doesn't require a huge amount of overlap.

"(But) as soon as you have plants in there, which are waving around in the breeze, you have to have a much higher overlap.... So that cuts down the amount of acres you can fly in one flight."

Flying time and coverage are big pluses for fixed wing drones, but multi-rotors do have advantages. For one, they are simpler for novice operators.

"I would say the multi-rotors are the easiest to use," Johnson said.

"They can hover. You could feasibly put your controller down and not worry about the drone. Versus the fixed wing, which is always moving and you always have to

It's not about flying the UAV, it's about having data.... To get the right data, you've got to get the right tool.

FELIX WEBER
AG BUSINESS AND CROP

make sure that it's responding."

Felix Weber, president of Ag Business and Crop, which provides crop advice, technological support and drone services for farmers, isn't convinced that multi-rotors are easier to use than fixed wings.

However, he agreed that both are useful in agriculture.

"The rotary wing is more of an inspection tool," said Weber, who is based in Palmerston, Ont.

"If you know exactly where you're going to fly and quickly inspect small areas... then the rotary wing can have its place, or if you map a very small area."

Johnson and Weber said novice users typically start off with multi-rotor drones because they are less expensive. Plus, many people in the ag sector aren't sure what to do with drones, so the cheaper options are more appealing.

"They're getting the lower end, basic systems," Johnson said.

"I suggest if you have no drone experience, use the multi-rotors and get some experience at capturing imagery."

Putting the multi-rotor versus fixed wing debate to the side, Johnson said more attention should be given to the sensors attached to the drones.

A camera provides views of a field from a different perspective, but advanced technology such as near-infrared sensors can do much more.

"It's easy to get fooled into thinking that just having the drone is enough to do everything that you've heard that drones can do."

Weber made a similar comment.

"It's not about flying the UAV, it's about having data.... To get the right data, you've got to get the right tool."

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FIELD TOOL

Mini-drone fitted with sensor to aid crop scouting

BY TERRY FRIES
FREELANCE WRITER

Farmers know the value of early field scouting: finding stressed plants early can allow for quick intervention and save yields.

The real question often comes down to a matter of cost efficiency: how much to pay up front in the hopes that the investment will pay off later?

Crop scouting may have become more affordable with the announcement from a major drone developer that farmers can now get TrueNDVI on a small, existing drone.

Sentera's Mavic Pro has been around for a few years, but it now comes fitted with an NDVI sensor. As well, farmers who already own one can have their drone retrofitted to add the sensor.

NDVI, or normalized difference vegetation index, describes the health and density of vegetation through remote sensing.

"NDVI data helps growers quickly identify stressed areas and allows them to focus their attention and input on areas that need it," Kris Poulson, vice-president of agriculture for Sentera, said in an email.

"If an area of a field is drowned out and not growing, this will be reflected in the NDVI data."

NDVI has been available on other drones, but the Mavic is about 1/16 inch the size of most.

Sentera's TrueNDVI system upgrade involves installing a sensor onto the frame. The original three-axis gimbal camera remains and continues to operate as before.

With the NDVI sensor, the drone captures RGB (visual band images), NIR (near-infrared images) and NDVI data.

The information is added to Sentera's AgVault Pro software, where the information can be analyzed and used to identify problem areas in fields where action is needed.

The AgVault Pro includes a mobile flight app that helps manage overlap and sidelap for proper imagery.

When folded up, The Mavic Pro measures 83 x 83 millimetres (3.25 inches) by 198 mm (7.8 inches). When its arms are extended for flight, it measures 335 mm (13 inches). It has a flight time of 27 minutes.

Poulson said most farmers who have not operated a drone before should be able to get it up and running from the box to the air in about 30 minutes.

The Mavic Pro with the NDVI sensor upgrade is expected to be available in Canada in mid-March.

It costs about US\$3,600 to buy the drone with the sensor installed or about US\$2,650 to retrofit an existing Mavic drone.

Poulson said people can ship their drones to Sentera's location in Minneapolis, Minnesota, or they can work through a local dealer.

The upgrade takes a few days, he said.

"Growers of corn and soybeans are using Sentera's NDVI solutions today to help them assess their crops' health and make input decisions," said Poulson.

Terry Fries is a freelance writer based in Summerland, B.C.



ABOVE: The Phoenix 2, when paired with the state-of-the-art Sentera Double 4K sensor, can collect NIR, NDVI, HD color photography and LiveNDVI video of more than 1,000 acres in a single flight.

LEFT: The NDVI camera is designed to provide live field images ready for the agrologist or farmer to use immediately. | SENTERA PHOTO



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BIRD BEHAVIOUR

Experts study cage design for less aggressive hens

Examining poultry behaviour allows producers to improve housing

BY JOHN GREIG
FREELANCE WRITER

Researchers are delving deeper into the nesting motivations of birds and finding them as finicky about nesting as humans are about their comfort.

They are also finding more research needs to be done.

Michelle Hunniford, a postdoctoral researcher in the Department of Animal Biosciences at the University of Guelph, is researching the nesting behaviour of laying hens.

She has found that new ways of evaluating nesting behaviour are needed.

She told a session at the London Poultry Show that settling behavior, the process hens go through to find and get themselves comfortable to lay an egg, along with egg location should drive cage design evaluation. The speed that a hen gets to that comfort level is correlated to how much pecking it does to establish its space and how long it occupies nesting space.

The University of Guelph researchers observed hens through their waking period — lights came on at 5 a.m. — and recorded their behaviour.

They then created graphs that showed a “settled” laying hen

moved through its settling phases in more defined periods compared to an “unsettled” layer hen.

In most enhanced systems, the layers have a nesting area, with flooring and a scratch area.

Hunniford and her colleagues



MICHELLE HUNNIFORD
UNIVERSITY OF GUELPH

looked at what nests would motivate hens to settle in the desired nesting areas.

They found it was difficult to predict which hens would lay where and some hens preferred one system while others chose another.

As a result, one of Hunniford's recommendations include that providing two smaller nests is more important than providing one large, fully furnished nest.

In their experiments, they found that when there was a wire partition in the cage, the hens would also lay their eggs in the area be-

side the partition, as well as in the nesting area. When there was no partition, fewer laid their eggs in that area.

“Hens in cages with a wire partition searched less, sat less frequently and were less aggressive.”

Hens in their experiments laid eggs in both the scratch and the nest areas.

The most recent code of practice for poultry says that hens should have at least 65 sq. centimetres, but Hunniford said their research showed effective nesting and production at 62 sq. cm.

Hunniford said their research found that in nests that were 70 to 100 sq. cm, the hens had a sharper spike in laying time, meaning more of them were trying to lay around the same time. In smaller cages, 62 sq. cm, the time of laying was spread out, which means less aggression.

The hens used in the two trials had different genetics, but cage and nest size and design also were a factor, said Hunniford.

A trial was also conducted to test different flooring options for nests and the importance of curtains. Hens prefer straw or even astroturf, but both create problems with waste management in an egg production system.

Therefore, plastic pads form the solid portion of cages in most systems. Hunniford tested both yellow mesh flooring and solid red flooring, both with and without plastic curtains around the nests.

The results showed that hens spent equal time in the cages with both floor types as long as there were curtains. Without curtains, the hens chose to lay on the solid, red floor more often.

Hunniford said there needs to be more research to determine the hens' interest in different flooring.

Tina Widowski, who works with Hunniford, said that giving hens the ability to enter and exit the nest from several directions through the curtains is important.

“Not being trapped in a solid area is important to their safety and welfare,” she said.



Researchers found hens laid more eggs when the nesting area was partitioned with a curtain. | BIG DUTCHMAN INC. PHOTO

HEALTH AND SAFETY

Alta. farms exempt from OHV helmet law

LETHBRIDGE BUREAU

Helmets will become mandatory gear for Alberta riders of off-highway vehicles (OHVs) as of May 15, the provincial government has announced.

When on public land, riders of ATVs, snowmobiles, dirt bikes, four-wheel-drive vehicles and side-by-sides must wear helmets or face a fine of up to \$155.

Farming and ranching operations involving OHV use will be exempt under the existing Occupational Health and Safety code.

An exemption also applies when riding on First Nations lands and

when on the rider's own property or on private property with the owner's permission.

In addition, those of the Sikh faith who feel helmet use is not compatible with their religion and who are wearing a turban will be exempt.

Alberta Transportation said most injuries involving OHVs are head injuries.

From 2002-13, there were 19 OHV-related deaths per year, on average, and in 77 percent of injuries while using OHVs in that time period, riders were not wearing a helmet.

Each year in Alberta, OHV-relat-

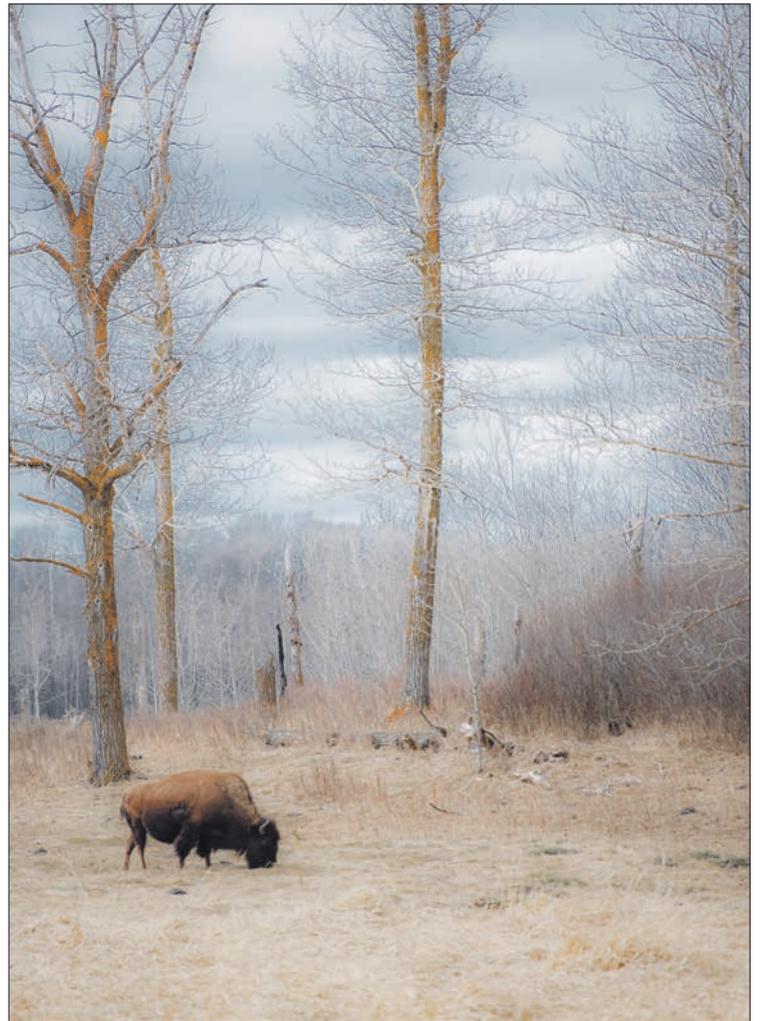
ed emergency room visits number almost 6,000 and in 2015, more than 1,000 children younger than 16 were injured while riding OHVs, according to government statistics.

Brent Hodgson, president of the Alberta Off-Highway Vehicle Association, welcomed the law.

“The government of Alberta struck the right balance with this legislation,” he said.

“Head injuries are the No. 1 risk to OHV riders. Making helmets mandatory will mean more riders will stay safe and continue to enjoy riding in Alberta's beautiful landscapes.”

PICTURE PERFECT



Bison graze in the meadows in Alberta's Elk Island National Park April 15. | DEAN MACDONALD PHOTO

LAKELAND COLLEGE

Construction starts on dairy learning centre, health clinic

Facility will give students hands-on training

LETHBRIDGE BUREAU

Lakeland College in Vermilion, Alta., turned the sod April 26 on two new agricultural learning centres.

The \$9.5 million Dairy Learning Centre and the \$7.1 million Animal Health Clinic are expected to provide greater opportunities for hands-on learning by students.

The 47,000 sq. foot dairy facility is expected to be completed this fall and will be used by more than 400 students annually.

It will house the 280-head Holstein dairy herd that includes 120 milk cows plus replacement heifers and young stock.

A Lakeland College news release indicates the dairy centre will have both a traditional milking parlour and a robotic system and will “focus on cow comfort for higher output production, animal care, safety and transition cow management.”

It will include meeting space and a mezzanine for public viewing.

A lagoon for liquid manure storage and two silage bunkers are also part of the project.

Lakeland's cattle and sheep facility will be expanded and converted to the new animal health clinic, expected to be ready by early 2018.

The new clinic “will allow Lake-



ALICE WAINWRIGHT-STEWART
LAKELAND COLLEGE PRESIDENT

land to double enrolment in the animal health technology and veterinary medical assistant programs,” said the news release.

It will have a modern surgical suite and more laboratory space within its 14,531 sq. feet.

Lakeland College president Alice Wainwright-Stewart said the new facilities are essential to the institution's legacy that has extended for more than 100 years.

“It's about innovation, academic excellence and new opportunities for our students to grow as leaders,” she said in the release.

Both projects received funding through the federal government's post-secondary institutions strategic investment fund. Alberta Milk is also a key contributor to the dairy centre, having provided milk quota and funding obtained through Growing Forward 2.

25 YEARS AGO

Changes to Crow Benefit distribution riled Sask. farmers

FROM THE ARCHIVES



BRUCE DYCK

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

75 YEARS AGO: MAY 7, 1942

Farmers were urged to grow more flax as part of their patriotic duty. "Vegetable oils provide a double-barrelled weapon for the assistance of the democracies' fight in that it provides both food and explosives," said Gordon Taggart, food administrator for Canada's Wartime Prices and Trade Board.

Agriculture Minister James Gardiner made public the names of seven people or companies who received more than \$5,000 for prairie wheat acreage reduction. The program had been intended to reduce 1941 acreage below that of 1940.

50 YEARS AGO: MAY 11, 1967

The Canadian Centennial Wheat



John Whitehead was doing some work on his cultivator near Viscount, Sask., in May 1980. | FILE PHOTO

Symposium was expected to be "the most important event in the long history of this cereal grain" when it was held at the University of Saskatchewan May 10-12.

Sixteen scientists were to make presentations at the event, which was expected to attract 250 specialists in agricultural technology.

The symposium was a Canada Centennial project of Saskatchewan

Wheat Pool, Alberta Wheat Pool, Western Co-operative Fertilizer and Federated Co-operatives Ltd.

Board members from Sask Pool and Federated Co-op met to discuss each other's plans in the farm supply business. The two organizations committed themselves to work closely together to obtain a higher share of the Saskatchewan

market for farm supplies.

25 YEARS AGO: MAY 7, 1992

Manitoba proposed allowing each province, and even individual farmers, to choose their own method of receiving their share of the \$720 million Crow Benefit. Alberta was on board, but Saskatchewan refused to discuss the idea.

Saskatchewan farmers continued to protest changes to the Gross Revenue Insurance Plan, even while Alberta crop insurance officials analyzing the changes said they had "a lot of merit."

Farmers in Saskatchewan were unhappy to be paying higher premiums for less coverage, but defenders of the changes said they were necessary.

10 YEARS AGO: MAY 10, 2007

The federal auditor general released a damning review of the Canadian Agricultural Income Stabilization program, calling it too complex, unpredictable, slow and secretive. Sheila Fraser said her auditors found evidence that thousands of farmers had received less than they deserved and yet CAIS administrators concentrated more on clawing back overpayments than correcting underpayments.

The Saskatchewan Organic Directorate lost its appeal of a ruling that denied farmers the right to launch a class action lawsuit against Monsanto Canada and Bayer CropScience regarding the introduction of genetically modified canola.

"The application for certification was replete with weakness in ever respect," the three judges said.

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LIVESTOCK

CAN YOU HEAR ME NOW?

Ear infections in calves are fairly common. Dr. John Campbell explains diagnosis and treatment. | **Page 59**



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SHEEP PRODUCTION

Better care needed as fertility rates rise

More is not better if lamb mortality increases with higher birth rates, says Saskatchewan veterinarian

BY **WILLIAM DEKAY**
SASKATOON NEWSROOM

As fertility rates rise for lambs and kids, so does the need for better management practices in keeping them alive.

However, therein lie the issues, said Dr. Fritz Schumann of the University of Saskatchewan's Western College of Veterinary Medicine.

"Even if fertility rates are high, there must be a point where physiologically the lambs can't survive if there are too many of them," the veterinarian said during the recent Healthy Sheep and Goat Workshop in Saskatoon.

"I think there must be physiologically an end to where we can't have too many lambs per ewe, except if you take them away right at birth and then that involves a lot of nursing care and a lot of feeding and management to get them over the first couple of days."

Some in the industry are asking whether encouraging more lambs per ewe is justified, but Schumann said opinions vary widely.

"Personally, I think if we have lamb mortality rates of 20 or 25 percent, and we do our best in keeping them alive and we get too many lambs born per ewe, I think yes, we went too far because it doesn't help us much," he said.

"If you have 25 percent mortality rate where our aim is five and 10 percent, then it's better to have less lambs per ewe and keep them alive than having five lambs, which are all weak and struggling to stay alive."

Schumann said the solution for increasing the fecundity of sheep and goats is the producer's ability and determination to micro-manage the operation during birthing season.

"I think producers need to realize that lambing sheep or kidding goats, that it's a major management issue, which has little to do with vaccines and antibiotics. It has a lot to do with passion for the sheep and to raise them proper," he said.

"It's the desire of the producer to keep the lambs alive, and management is probably the major, major component of that."

"For that reason, I personally think having two or three lambs per ewe is better than having five lambs per ewe.... I would think 160 to 180 percent would be good."

The most common causes of lamb losses are:

- abortions, stillbirths: 45 percent
 - infectious diseases: 14 percent
 - accidents, predation: 13 percent
 - hypothermia, starvation: 12 percent
 - dystocia: seven percent.
 - genetic defects, misc: 10 percent
- Schumann said many producers continue to underestimate the



Management is key to keeping newborn lambs alive, and it starts with a healthy ewe, says veterinarian. | FILE PHOTO

It's the desire of the producer to keep the lambs alive, and management is probably the major, major component of that.

FRITZ SCHUMANN
WESTERN COLLEGE OF VETERINARY MEDICINE

amount of colostrum that newborn lambs need.

"It's the same in beef cattle. Farmers need to know, the more colostrum the better, and that's what keeps them alive," he said.

"The lambs, especially, because they have a big surface area (to body mass), they need to produce a lot of heat and the only way they produce a lot of heat is by getting enough colostrum."

The health of the ewe is also critical during gestation because that affects how much reserve the lambs can store as brown fat in their system. Lambs are also born fat to produce heat and is a factor in warding off hypothermia.

"You think it's warm for them, but they come from a 39 degree uterus out into an environment, even if it's plus 10 and the wind is 15 km-h, it's

LAMBS NEED MORE COLUSTRUM THAN MANY REALIZE

Colostrum protects lambs against infection and pathogens. The amount of colostrum lambs need in the first 18 hours of life depends on heat production — they need at least 200 millilitres per kilogram of birth weight in mild weather, but need 50 percent more in rainy and windy conditions.

Breed & nutrition	number of lambs	total lamb weight (kg)	colostrum production (mL)			
			1 h	10 h	18 h	total
Scottish Blackface: well-fed	1	4.78	600	575	630	1,805
Scottish Blackface	2	7.90	715	675	690	2,080
Scottish Blackface: underfed	2	6.43	160	375	455	990
Suffolk: well-fed	1	5.17	650	860	830	2,340
Suffolk	2	8.37	865	1,120	850	2,835

Source: Dr. Fritz Schumann, Western College of Veterinary Medicine | WP GRAPHIC

very cold for them," he said.

"They will lose so much heat that in half an hour they won't get up to suck colostrum.... The management needs to increase drastically to make the lambs survive."

Bigger isn't necessarily better, and producers should aim for an average birth weight.

"The ideal birth weight should be three to six kilos because if they are lower than that they die more and if they're bigger than that you end up with a high mortality because you

have a lot of dystocia problems," he said.

Newborn lambs must overcome three major factors to survive: nutrition, temperature regulation and infectious disease.

Schumann thinks ewe nutrition is the most important, and body scoring needs to be done on a regular basis.

"You need to segregate the skinny ones from the other ones and then to watch the end of gestation," he said. "You need to realize that they

just can't live off of hay. They need to eat volume wise; too much and there's not enough space in the belly because the lambs take up more space than the rumen takes up. They need more energy dense rations (such as grain) so they can keep up with their energy."

He said the fetus grows 70 percent during the last third of pregnancy, which results in less space in the ewe's rumen as the womb increases.

Having adequate room for the ewes to move around also becomes more important, especially if they are fed grain.

"They all need to be able to eat at the same time. If you have too little bunk space, then the big strong ones get fatter and fatter and the less dominant ones get less and less feed. It doesn't solve the problem," he said.

"It's all an integrated system, but I think people need to realize that nutrition of the ewe and body condition scoring, which we always talk about, is an easy thing to apply."

"It's a hands-on thing and it takes time to do and you need to make decisions and trying to rule out other factors which cause them to lose body condition."

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MARKET INTERRUPTION STRATEGY

Plan sought for marketing during crisis

Disease outbreaks and border closures affect entire industry

BY BARBARA DUCKWORTH
CALGARY BUREAU

RED DEER — BSE transformed Canadian agriculture when it was first found in this country in 2003, but the industry has faced other disasters since.

Diseases such as H1N1 in hogs, avian influenza and catastrophic weather disasters all take a toll, so industry and government are developing plans to handle the next event through the livestock market interruption strategy.

Market disruptions and natural disasters require direct action and a common sense response when they occur.

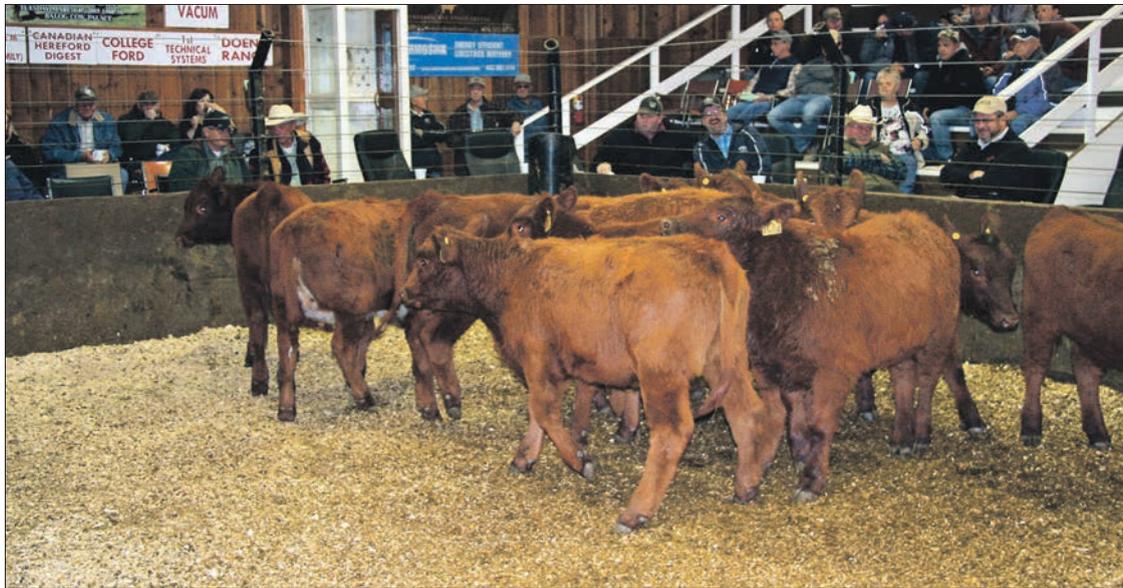
“The public policy objective is to demonstrate there is a problem, and the industry has the responsibility to show it has done everything possible to deal with the problem,” said Bob Burden of Serecon Management.

It is not business as usual during a crisis, and people need to think about how they might survive if their farm is quarantined or if borders were suddenly closed because of a disease like foot-and-mouth.

“You as an industry needs to be prepared,” said Brad Andres, who works with Alberta Agriculture and was involved in emergency management during the Slave Lake and Fort McMurray wildfires.

Getting in touch with people and monitoring movement are among the greater challenges on Alberta's 45,000 registered farms. Livestock moves from farms to auctions, feedlots and processors every day.

“The interconnectedness and with farms getting larger, we find they are moving animals more often,” he told the annual meeting



Auction markets are ground zero for a disease outbreak and must play a major role in disaster planning.

FILE PHOTO

of the Alberta Agricultural Economists Association, which was held in Red Deer April 27-28.

“An auction market is ground zero for a multiple disaster. Any disease that comes in on one cow is probably spread to every animal in that market.”

The Canadian Food Inspection Agency steps in in the event of a major reportable disease and assigns a team to confirm it. It generally assumes the disease is present until proven otherwise.

“The tendency is to err on the side of caution,” he said.

There may not be enough veterinarians to do the work of testing and diagnosis in the case of a big outbreak.

The logistics of destroying animals is daunting because of the large numbers to be handled and then finding a way to dispose of the dead to avoid land and soil contamination.

The current government policy is to manage the disease rather than

the market impact.

The direct costs associated primarily with disease control and eradication are a fraction of the losses caused by market interruptions. There is a \$5 to \$10 loss in the marketplace for every dollar lost due to disease, said Andres.

Any border closure longer than two weeks causes an immediate backlog, especially for hogs.

Processing backlog

Healthy animals outside a quarantined area may need to be depopulated because they have reached market weight and there is no place to house them.

Decisions need to be made about sending animals fit for human consumption for processing and who is willing to take them. As well, the domestic market cannot handle a large supply, so more cold storage is needed.

International markets would be closed a minimum of 12 months in

the case of foot-and-mouth disease, but in reality it would be up to two years to get back into business.

All borders immediately closed to Canada when BSE was discovered, resulting in more than \$4 billion in losses. Full market access is still not available.

The current investigation into bovine tuberculosis in southeastern Alberta continues, and estimated losses are difficult to calculate.

About \$36 million in compensation for animals ordered destroyed and \$3 million through Agri-Recovery has been paid.

A major issue for the more than 50 farms involved was holding cattle when they did not have feed or holding space.

“The lesson out of TB for our producers is you have to be ready for a stoppage. It could happen to you,” Andres said.

barbara.duckworth@producer.com

EMERGENCY PLANNING

Rural residents need strategy

BY BARBARA DUCKWORTH
CALGARY BUREAU

RED DEER — The agriculture sector needs to be prepared for any contingency because regional resources are being spread thinner, said the head of emergency management for Rockyview County.

“In a disaster situation, if 50 farms are affected, 72 hours is optimistic that help will come to you,” Randy Smith said.

Therefore, neighbours must often help each other.

An urban evacuation is relatively easy, but in a rural area local emergency people often don't know what is happening on a farm, he said at the annual meeting of the Alberta Agricultural Economists Association, which was held in Red Deer April 27-28.

Local rural municipalities may lack good emergency plans.

“In my business, a lot of people have a plan but they don't practice it,” he said.

People are advised to protect themselves and their families first, but plans are needed to figure out how to move livestock and how they will be cared for if a wildfire, flood or other disaster strikes.

They need to think about what happens if utilities are lost and make sure backup generators are available.

People are often asked what they would bring if they had five minutes to leave.

Smith suggested:

- computer, pictures
- medications, prescriptions and eyeglasses
- keys, wallets, cash, passports and valid identification
- clothing and blankets
- extra charger for a cellphone

For complete lists and advice on emergency planning, visit www.albertaemergencyalert.ca.

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BEEF NORTH CAMPAIGN

Ontario group's plan to lure beef producers north slow going

BY MARY BAXTER
FREELANCE WRITER

A Beef Farmers of Ontario effort to attract producers to northern Ontario is generating interest but faces plenty of hurdles.

Matt Bowman, president of the provincial organization and the fourth generation to farm his family operation near New Liskeard, said the goal of the Beef North campaign is to add 100,000 cows to the province's herd over the next 20 years. Currently, the herd stands at 275,000 animals.

Recruitment began in 2014 and targets a broad spectrum of producers, including those in the southern portion of the province squeezed out by urbanization and high land prices, as well as recent college and university graduates looking to start farming.

Another aim of the campaign is to put into production one million acres of crown land in the Clay Belt — a stretch of land that occupies much of the Cochrane District, an area in the north of the province around James Bay.

The main focus is an area close to Kapuskasing that has access to roads and electricity.

The beef farmers group is working with the government to get land released, Bowman said.

“There also is a certain amount of private land (available) as well.”

Organizing the release of crown land progresses slowly, and Bowman acknowledges some frustration.

Different ministries have to be consulted as well as interest groups such as First Nations and the touring, logging and mining industries, he said.

Dave Cockburn, who owns a 25-cow Charolais purebred breeding operation near Timmins, said he supports the initiative but would like to see more discussion about the many challenges that will face farmers who buy in.

Cockburn, 30, bought his 80 acre farm in late 2013.

“My wife and I both make extremely good money off-farm, and we've struggled to get this off the ground,” he said.

Lack of infrastructure for the cat-

tle business is the issue.

Until this year, no large animal veterinarian served the area. The closest farm supply store is two hours away in New Liskeard. There are no sale barns and no agriculture specialists at local banks.



With little demand nearby for the bulls he produces for breeding, he has to ship animals and seed stock south or out of province.

“This week I drove to Saskatchewan and Manitoba and spent all week out there going to bull sales because there's nothing around here and I have to advertise and I have to travel.”

He ships in hay from Quebec. Growing his own isn't an option —

the equipment is too expensive to justify buying for the short period he would use it. Moreover, because he works off-farm, it's tough to find the time to harvest during the very short window of opportunity that's usually available.

“Our mean average temperatures in the winter are pretty comparable to Fort McMurray,” he said, “but we get way more moisture in the winter-time than (western) provinces do.”

Cockburn has also had to clear land.

Provincial grants are available to support clearing and tiling, but he said producers must weigh clearing costs against the impact on land values.

“There's no way that you can make a living here farming full time cattle unless you have a serious (financial) backing.”

Andrew Gordanier, who has leased Agriculture Canada's former beef research farm in Kapuskasing since 2015, also talks about the lack of infrastructure.

He raises beef and sheep and like Cockburn, he has had to ship in feed, but he's working with local

growers to establish a steady supply of barley. Last year, he started Kapuskasing Meats to sell beef, pork, chicken and lamb.

He has even begun to sell livestock feed to people in the area who hobby farm. Through a new business, Kapuskasing Agri-Services, he is working with Collège Boréal to deliver introductory training for cow-calf production.

Gordanier said every week people call him to find out about farming in the region. And at a regional agricultural symposium held in Kapuskasing in March attended by 225 people, he estimated one-third were either farmers or planning to farm.

“I think that's a good sign.”

He's encouraged too that the Ontario ministry of agriculture is searching for a services adviser for the corridor. It shows government commitment to the area, he said.

He predicts that long-term optimism will be the best driver of the northern expansion. Good prices for an extended period of time will generate that enthusiasm, and he sees promising signs.

ANIMAL WELFARE

Corporate focus on animal care sparks on-farm changes

Companies want high welfare standards as well as reliable supply

BY BARBARA DUCKWORTH
CALGARY BUREAU

COLUMBUS, Ohio — Major food corporations have taken a role in mandating animal welfare standards and wide-reaching effects that impact the farm.

“Our ultimate goal is to make sure the animals are being taken care of as well as respect for the farmers and the suppliers,” said Christine Summers of Costco.

With \$116 billion in sales last year, Costco has clout, and while it has set high standards, it is also looking for sustainable supplies, she said during a panel that discussed welfare requirements at the National Institute for Animal Agriculture annual meeting held last month in Columbus, Ohio.

Costco has 725 stores in 11 countries. All its customers must be paid members.

“When you pay to become a member there is a little bit of expectation that comes with that. Costco is expected to do what is right,” she said.

Costco is involved with animal welfare audit programs that start



Many food suppliers have adopted a sustainability plan that requires producers to meet high animal welfare standards. | FILE PHOTO

from the farms and trace it to slaughter in processing facilities.

It relies on third party programs like American Certified Humane and independent auditors like Validus to work with suppliers. Some suppliers are already under the blanket of a commodity-based quality assurance program like those implemented by the pork and dairy industries.

“We do trust our suppliers that they are taking care of this for us,” she said.

In 2016, the company started an animal welfare task force to evalu-

ate its standards. Around the same time it joined the coalition for responsible antibiotic use from the Centre for Food Integrity.

Costco’s major concern is finding enough supplies that meet its standards. These are expected in all countries where the company operates.

“Our biggest issue is finding sustainable supply. We are a large consumer of goods. Last year we sold 83 million rotisserie chickens,” said Summers.

It expects to sell one billion organic and cage-free eggs in 2017 so

finding a reliable supply is ongoing.

The Kroger Company has 2,800 grocery stores across the United States and tries to offer a wide choice to consumers of different income brackets, said Mike Brown, who oversees dairy supply.

Krogers has an overall sustainability plan that includes animal welfare standards. The store is also broadening its organic selections but has agreed to work with farms in transition so they have a sales outlet for their products.

Krogers recently announced it will go for cage-free eggs based on

changing consumer preferences. However, people need to know there are added costs associated with meeting some of those requests.

As standards change, costs and prices may level.

“We expect to pay more for eggs and we expect over time the costs will moderate as egg suppliers have time to adapt,” he said.

As a major meat supplier, Hormel Foods has a detailed animal care program that starts at company-owned farms and processing facilities, said Jose Rojas, vice-president of farm operations at Hormel.

The company follows the national pork quality assurance program that covers welfare, balanced nutrition, good environments for the animals and properly maintained facilities. It also allows the use of antibiotics because it links good health and welfare with appropriate veterinary treatment, said Rojas.

In 2015, an animal welfare council was formed to discuss welfare practices. That includes a decision to move toward open housing systems in company-owned facilities in Wyoming, Arizona and Colorado.

Staff training is company policy, but issues can occur, said Rojas.

“It would be naïve to say our production systems are perfect.”

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ANIMAL CARE STANDARDS

Ohio’s livestock code of practice a model for other states

BY BARBARA DUCKWORTH
CALGARY BUREAU

COLUMBUS, Ohio — When the Humane Society of the United States appeared in Ohio with a challenge to change farming practices such as confinement housing or face a public vote, the state decided to act.

Following a meeting in February 2009 with the humane society, the Ohio Livestock Care Standards Board was formed with membership from commodity groups, state officials, academics and others in the livestock business. The standards became state law and went into effect September 2011 with codes of practice for all livestock species.

It took 179 meetings to pull this

together, said retired state veterinarian David Glauer at the National Institute of Animal Agriculture annual meeting held last month in Columbus, Ohio.

Committees developed livestock care requirements for all species based on current welfare research, the World Organization for Animal Health standards and rules from the European Union and Australia.

The rules cover biosecurity, disease prevention, housing, care and well-being of livestock and poultry, affordability of food and best farm management practices.

“Our rules ended up to be the minimal requirements. You have to have adequate feed and water to promote the health of the animal to promote health and growth,” Glauer said.

We wanted to make sure the process was respectful of the concerns expressed by the public, including those out of the state, and that it was a process that allowed the state to act in a way that is practical.

CANDACE CRONEY, PURDUE UNIVERSITY

There are chapters on euthanasia, penalties, dealing with disabled or distressed livestock and general considerations for the care and welfare of livestock.

Since the code was released, many other state standards for farm animals have been modelled after the Ohio approach, said Candace Croney of Purdue University’s Centre for Animal Care.

“We wanted to make sure the pro-

cess was respectful of the concerns expressed by the public, including those out of the state, and that it was a process that allowed the state to act in a way that is practical.”

The greatest impacts were felt in the swine industry, said Ohio farmer Bryan Black, a past-president of the National Pork Producers Council. The pork industry must be in full compliance by 2025.

“The new code had to be work-

able for the industry and be acceptable to the HSUS,” he said.

The code wants open housing but allows for gestation pens to be used as a hospital pen or a place to segregate aggressive sows.

“Producers have said it can be done but it takes a different set of skills to do it,” he said.

The standards are complaint driven and if producers do not comply they can be fined or taken to court. Some complaints from the public are a misunderstanding of normal animal behaviour.

One person reported seeing six dead horses in a field. Investigators found out they were actually lying down and sleeping, said Tony Forshy, Ohio’s state veterinarian.

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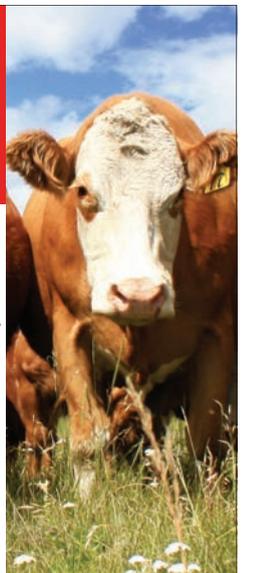


Photo Credit: Elizabeth R. Homerosky

CALF HEALTH

Early treatment required for calves with ear infections

ANIMAL HEALTH



JOHN CAMPBELL, DVM, DVSC

Ear infections are a common occurrence in young cattle. They can be seen at various ages, including young suckling calves, in older unweaned calves and also in weaned calves in the feedlot.

The diagnosis of an inner ear infection is usually easy because clinical signs are obvious. However, the problem may have existed for some time before the clinical signs became evident. Affected calves will often have a droopy ear and may have a smelly discharge from the affected ear if the ear drum has ruptured.

In some cases, associated damage to the facial nerve exists and the eyelid on the same side as the infected ear may be paralyzed, which may result in drooping of the eyelid and some mild eye lesions because the calf can't blink.

The hair around the ear may be matted and the calf will shake its head or rub its ears against other objects.

If the infection is mostly in the inner ear, the calf's balance may be affected.

The calf will have an obvious head tilt and may walk cautiously to maintain its balance.

We think that most ear infections ascend up into the ear via the eustachian tubes, which are the small tubes that travel from the back of the throat to the inner ear.

Many infections that can cause pneumonia in calves will also colonize the tonsils and the nose and throat regions of the calf.

In calves that are bottle fed, infected milk may cause an infection. Calves nursing on a cow with mastitis may also be infected this way. In up to 75 percent of ear infections, the calf will also have a concurrent pneumonia.

Many calves that show a droopy ear may have had an infection ongoing for several days before clinical signs have occurred. Producers should treat those calves as early as possible before the pneumonia and ear infection becomes more severe.

A variety of bacterial infections can cause ear infections. Common causes include some of the bacteria associated with pneumonia infections in young calves, including *Pasteurella multocida*, *Mannheimia hemolytica* and *Histophilus somnus*.

Some respiratory disease vaccines used in young calves may help protect against these infections, although we don't know how effective they are in preventing ear infections.

In my experience, most calves suffering from these infections will respond to antibiotic therapy if treated early in the disease process.

Mycoplasma bovis has become a common cause of calf inner ear infections.

It is also a cause of mastitis in cows and if calves are fed infected milk or if they nurse from an infect-

ed cow, the infection may ascend to their eustachian tubes and cause an inner ear infection. As a result, in dairy calves between two and eight weeks of age, *Mycoplasma bovis* has become a common infection.

We occasionally see outbreaks in beef herds as well. *Mycoplasma bovis* infections can also cause chronic pneumonia and arthritis, and affected calves may show signs of lameness and swollen joints in addition to the ear infections.

These infections are more difficult to treat and may not respond to antibiotic therapy. They present a much more frustrating scenario for both the producer and the veterinarian to handle. In addition, no vaccines are available to help pre-



Signs of an ear infection include droopy eyelids, smelly discharge or loss of balance. | FILE PHOTO

vent *Mycoplasma bovis* infections.

Ear infection outbreaks have been seen in some beef herds in older calves just before weaning. These outbreaks are more difficult

to explain and in some cases have occurred in well-vaccinated herds.

These animals will typically have pneumonia as well as an ear infection. Many of these outbreaks tend to occur in the winter or at times of inclement weather.

If ear infections occur, talk to a veterinarian about the most appropriate antibiotic therapy and treat calves early.

Veterinarians may want to swab the discharge from the animal's ear and send it to the laboratory to identify the bacteria causing the infection. Early treatment will help to prevent the complications of a more chronic pneumonia or a spread of the ear infection to other tissues.

The best prevention will be to

work with your local veterinarian to ensure you have a good vaccination program in place for respiratory disease in young calves.

Identifying and culling cows with chronic mastitis may also be important, especially for control of *Mycoplasma bovis* infections in young calves.

Dairy producers must ensure they are not feeding contaminated milk to young calves. Ensuring calves have received adequate colostrum is always an important prevention strategy for any infectious disease in young calves.

John Campbell is head of Large Animal Clinical Sciences at the University of Saskatchewan's Western College of Veterinary Medicine.

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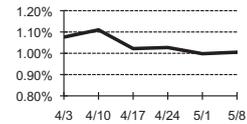
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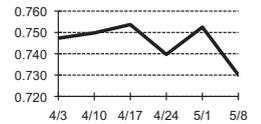
ed cow, the infection may ascend to their eustachian tubes and cause an inner ear infection. As a result, in dairy calves between two and eight weeks of age, *Mycoplasma bovis* has become a common infection.

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NYKOLAISHEN FARM EQUIPMENT

Pattison expands Sask. footprint

Pattison Ag assures farmers JD dealerships in Saskatchewan and Manitoba will have local decision-makers

 BY BRIAN CROSS
SASKATOON NEWSROOM

Pattison Ag continues to expand its reach into the western Canadian farm equipment market.

The company, a subsidiary of the Jim Pattison Group in Vancouver, acquired Nykolaishen Farm Equipment earlier this year.

Nykolaishen has locations in Kamsack, Sask., and Swan River, Man.

The two dealerships will continue to operate under the Nykolaishen Farm Equipment banner, at least for the time being.

The acquisition brings the number of Pattison-owned John Deere locations in Western Canada to 19, including 17 in Saskatchewan and two in Manitoba.

"From the customer's standpoint, nothing's going to change," said Pattison Ag president Art Ward when asked about the Kamsack and Swan River locations.

"The dealerships will continue to operate under the Nykolaishen Farm Equipment name, and Ron (Nykolaishen) and the family will remain actively involved in the dealership," he added.

"Our goal is to have local decision-making and to empower our front-line people to make sound decisions for our customers. We're not interested in being another large dealership ... where our customers don't know the decision makers."

Pattison Ag got into the farm equipment business about three years ago.

It started by acquiring a majority interest in Maple Farm Equipment in Yorkton, Sask.

It later expanded its stake in Maple Farm Equipment and acquired other John Deere stores that were previously owned by Jay Dee Ag Tech and Shaunavon Industries.

All John Deere outlets that had



Pattison official says large dealership chains can combine resources to invest in technology required to service machinery. | FILE PHOTO

previously operated under the Maple and Jay Dee banners were rebranded under the Pattison Ag name in January.

Pattison is now the largest John Deere dealership owner in Saskatchewan.

There are more than 40 John Deere stores in Saskatchewan owned by five companies.

Other companies that own multiple John Deere dealerships in the province include the publicly traded Cervus Equipment headquartered in Calgary, South Country Equipment of Regina, Nelson Motors of Avonlea and Western Sales of Rosetown.

Ward said consolidation in the John Deere equipment business reflects similar changes in the agriculture industry as a whole.

the world's population continues to grow, he said.

"We liked the long-term fundamentals of the machinery business," Cobb said.

Consolidation in the farm equipment industry will result in larger dealerships that offer modern farms the technology and the service that they require.

"We think there are advantages to having larger, well-capitalized companies, like our own, that can invest in the dealerships, invest in the technology and invest in the infrastructure that's really required to look after these ... growing farm entities," Cobb said.

In addition to maintaining expensive inventories, modern dealerships require larger facilities and more sophisticated equipment to service today's farm machinery.

"As the business grows and becomes more sophisticated, there's just more capital required to support it," Cobb said.

Pattison Ag will continue to look at other investment opportunities in the farm equipment sector as they arise, he added.

However, in the meantime, the company will step back, assess its position and ensure that existing customers are well served.

"We're still a relatively new player," Cobb said.

"We're just three years in, and we're one of the largest ag dealerships in Canada already, so I think our plan now is to absorb what we have and ... assess things.

"If there are other opportunities, we will certainly look at them, but I think we're quite satisfied with where we are right now ...

"We're just looking to our management teams now to run their businesses and do a good job. We always say that if we do a good job, then other opportunities will come."

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AG STOCKS MAY 1-5

U.S. job creation in April topped expectations and unemployment fell to 4.4 percent. Canada's job creation disappointed but the rate fell to 6.5 percent. For the week, the TSX composite was almost unchanged, the Dow rose 0.3 percent, the Nasdaq rose 0.9 percent and the S&P 500 climbed 0.6 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	42.43	45.75
AGT Food	TSX	30.21	31.53
Bunge Ltd.	NY	69.53	79.03

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	1.26	1.29
Cervus Equip.	TSX	12.80	12.31
Input Capital	TSXV	2.13	2.20
Rocky Mtn D'ship	TSX	9.30	9.70

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	37.74	38.78
Hormel Foods	NY	34.75	35.08
Lamb Weston	NY	41.57	41.75
Maple Leaf	TSX	34.27	34.17
Premium Brands	TSX	86.32	85.44
Tyson Foods	NY	63.33	64.26

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	55.85	55.43
AGCO Corp.	NY	64.00	63.99
Buhler Ind.	TSX	4.65	4.61
Caterpillar Inc.	NY	99.64	102.26
CNH Industrial	NY	11.03	11.10
Deere and Co.	NY	113.11	111.61

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	124.96	128.12
BASF	OTC	99.65	97.29
Bayer Ag	OTC	127.39	124.43
Dow Chemical	NY	63.09	62.80
Dupont	NY	81.14	79.75
BioSynt Inc.	TSXV	7.80	7.78
Monsanto	NY	116.20	116.61
Mosaic	NY	23.45	26.93
PotashCorp	TSX	22.49	23.02
Syngenta	ADR	93.50	93.03

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	101.87	98.67
CPR	TSX	211.27	209.16

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.

ANTITRUST REQUIREMENT

Bayer to sell Liberty crop protection brands in Monsanto deal

FRANKFURT, Germany (Reuters) — Bayer has agreed to sell its Liberty herbicide and LibertyLink-branded seed businesses to win antitrust approval for its acquisition of Monsanto.

The divestment of the two global brands, a requirement imposed by South Africa's Competition Commission, will account for the bulk of asset sales, worth about \$2.5 billion, which need to be made to satisfy competition regulators looking at the US\$66 million Monsanto deal, sources close to

the matter have said.

"Bayer has agreed to these conditions and is evaluating how best to execute the imposed divestiture," the company said.

It would not comment on revenues, number of affected staff or the value of the assets.

While South Africa is a relatively small market for the two global agricultural supply giants, the move marks the first time that Bayer has

acknowledged it has to sell the two related Liberty brands, which compete with Monsanto's Roundup and Roundup Ready seeds.

The planned divestitures are also widely expected to be required by competition regulators in larger jurisdictions, such as the United States, where approval has been requested, and the European Union, where an application for approval has yet to be made.

Bayer has yet to get approval in the EU and the U.S.

"Bayer will continue working with regulators globally with a view to receiving approval of the proposed transaction by the end of 2017," the company said, reaffirming an earlier goal.

LibertyLink seeds, mainly used by soybean, cotton and canola growers, are an alternative to Roundup Ready seeds for farmers suffering from weeds that have developed resistance to glyphosate, which is the main ingredient in Roundup.

The spread of Roundup-resistant weeds in North America has been a

major driver behind Liberty sales.

Monsanto, for its part, has responded by combining Roundup with older dicamba herbicide to finish off glyphosate-resistant weeds and developing seed varieties tolerant of the combined two herbicides.

As part of a global investment drive worth hundreds of millions of dollars to double the global output capacity of Liberty since 2013, Bayer has built a production plant in Mobile, Alabama, to complement a facility in Frankfurt, Germany.

GRAIN TRADING

Huge crops in storage signal woes for grain buyers

Farmers are willing to wait for higher prices and are cutting out grain handlers by marketing directly to end users

CHICAGO, Ill. (Reuters)—Facing a global grain glut that is crushing profits and raising questions about their long-term prospects, the world's big grain merchants maintain they need only a drought or other supply shock to return to the riches of the past.

But a two-day rout on Wall Street for two of the industry's biggest firms — Archer Daniels Midland Co. and Bunge Ltd. — underscores concerns that poor recent profits may be more than just a leg of a cyclical downturn and instead point to fundamental change.

ADM on May 2 downgraded its expected return on invested capital — a key performance measurement — by a full percentage point to a projected nine percent annual rate of return.

The next day, Bunge reported an 82 percent drop in first-quarter earnings and lowered its profit outlook for its unit that trades grain and oilseeds. It cut its 2017 capital expenditures budget by \$50 million, roughly a seven percent cut, prompting concerns about a possible decline in cash flow.

Spooked investors sent shares of Bunge down more than 11 percent, the steepest drop in 15 months. The previous day, ADM shares posted their biggest drop in eight years, down 8.9 percent to \$41.67 a share, with further losses May 3.

Soren Schroder, Bunge's chief executive officer, said the dour outlook is as impermanent as weather.

"All we really need for this to change is three weeks of hot and dry weather in the Midwest in July and the same in August and you're

back to markets that don't have enough. It can change quickly," Schroder said.

However, investors are beginning to fear the good times may not return for the grain giants, which have struggled to profit from their core grain trading businesses.

With grain busting out of storage bins all around the world, the merchants have fewer opportunities to capitalize on "dislocation" of supplies, the companies say.

"Everybody is wondering if there's some fundamental issue across the board for these grain processors," said Brett Wong, senior research analyst with Piper

Jaffray & Co.

Grain markets are notoriously cyclical, but some industry participants and observers say some of the changes are more permanent.

Farmers have invested heavily in new storage, making them less reliant on elevators operated by the trading houses, and the internet provides information that makes farmers smarter about marketing their grain.

Mike Boland, an agricultural economics professor at the University of Minnesota, said farmers increasingly are cutting out the grain handlers, selling directly to ethanol plants and other end users.

"The grain trading companies may never get their hands on those bushels to move it along," Boland said.

Grain companies are caught between farmers who do not want to sell crops at low prices and end users, such as food companies, hunting for bargains, said Gary Blumenthal, CEO of World Perspectives, a Washington-based agricultural consultancy.

"(They) are caught in the middle," Blumenthal said.

ADM's agricultural services division has reported its third quarterly loss in international grain merchandising in five quarters.



Farmers are able to store grain on site, making them less reliant on elevators and more willing to wait for better prices. | FILE PHOTO

GRAIN HANDLING

Viterra expands in North Dakota

BY BRIAN CROSS
SASKATOON NEWSROOM

Viterra is expanding its grain origination capabilities in North Dakota.

Viterra said last week that it had bought an elevator in Grand Forks, N.D., from Gavilon Grain.

The transaction was completed May 1. The price was not disclosed.

"We're pleased to add this facility to our asset network and to continue building our presence in the U.S.," said Kyle Jeworski, Viterra's president and chief executive officer for North America, in a news release.

The Grand Forks elevator has a storage capacity of 140,000 tonnes. It is served by BNSF Railway and has the ability to load up to 110 rail cars at a time.

It is also equipped with two truck receiving pits and a grain dryer.

Viterra plans to make immediate capital upgrades at the site.

Viterra also owns facilities in Ray, N.D., and Minot, N.D., and has an interest in a joint venture terminal at Northgate, N.D.

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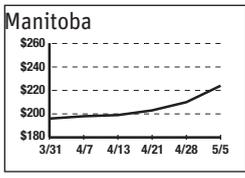
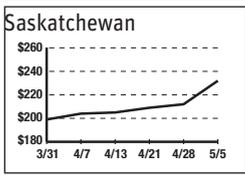
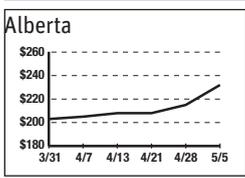
¹ HGCA Wheat disease management guide hgca.com, 2012. ² **AgCelence** benefits refer to products that contain the active ingredient pyraclostrobin. ³ All comparisons are to untreated, unless otherwise stated. ⁴ Stratus, 2016.

Always read and follow label directions.

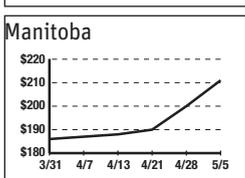
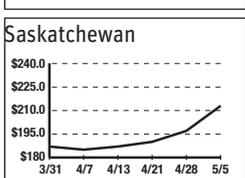
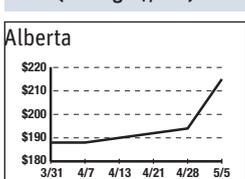
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CATTLE & SHEEP

Steers 600-700 lb. (average \$/cwt)



Heifers 500-600 lb. (average \$/cwt)



Canadian Beef Production

million lb.	YTD	% change
Fed	596.7	+1
Non-fed	123.1	+8
Total beef	719.8	+2

EXCHANGE RATE MAY 8
 \$1 Cdn. = \$0.73 U.S.
 \$1 U.S. = \$1.3698 Cdn.

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous	Year ago	Rail		Previous
	Apr 28 - May 4	Apr 21 - Apr 27			Apr 28 - May 4	Apr 21 - Apr 27	
Steers							
Alta.	187.25-198.50	174.00	151.40	302.50-308.50	294.00-296.50		
Ont.	159.65-176.46	153.85-168.51	137.38-157.38	280.00-286.00	271.00-277.00		
Heifers							
Alta.	195.00	n/a	n/a	302.50-307.00	n/a		
Ont.	156.03-177.09	142.91-166.91	136.30-157.17	279.00-285.00	270.00-276.00		

Feeder Cattle (\$/cwt)

	Sask.				Man.				Alta.				B.C.			
	Sask.		Man.		Alta.		B.C.		Sask.		Man.		Alta.		B.C.	
Steers																
900-1000	170-179	165-187	178-193	n/a												
800-900	190-203	179-208	190-208	180-212												
700-800	203-231	201-227	205-225	201-230												
600-700	224-249	212-243	220-245	216-244												
500-600	232-269	230-260	235-255	228-262												
400-500	230-275	237-279	237-262	230-260												
Heifers																
800-900	173-194	170-191	176-193	174-203												
700-800	188-209	177-203	186-207	181-212												
600-700	197-217	190-216	198-217	192-210												
500-600	204-228	200-228	204-227	200-228												
400-500	214-226	210-240	210-235	210-230												
300-400	198-224	215-256	220-235	223-254												

Average Carcass Weight

	YTD 17				YTD 16			
	Apr 29/17	Apr 30/16	YTD 17	YTD 16	Apr 29/17	Apr 30/16	YTD 17	YTD 16
Canfax								
Steers	857	880	907	939				
Heifers	808	830	828	858				
Cows	735	751	739	783				
Bulls	1,048	1,071	1,055	1,032				

U.S. Cash cattle (\$/cwt)

	Steers		Heifers	
	National	Kansas	National	Kansas
Slaughter cattle (35-65% choice)	144.56	145.12	144.26	143.03
National	144.56	145.12	144.26	143.03
Kansas	144.56	145.12	144.26	143.03
Nebraska	142.94	142.95	142.95	142.95
Nebraska (dressed)	230.00	230.00	230.00	230.00

Feeders No. 1 (800-900 lb)

	Steers	Trend
South Dakota	142-162.75	5-10
Billings	143-148	n/a
Dodge City	136.60-145.50	8-12

Cattle / Beef Trade

	Exports		% from 2016	
	Sltr. cattle to U.S. (head)	158,137 (1)	-18.2	
Feeder C&C to U.S. (head)	59,865 (1)	-33.2		
Total beef to U.S. (tonnes)	35,087 (3)	-11.6		
Total beef, all nations (tonnes)	49,562 (3)	-4.9		
	Imports		% from 2016	
Sltr. cattle from U.S. (head)	n/a (2)	n/a		
Feeder C&C from U.S. (head)	9,851 (2)	-153.2		
Total beef from U.S. (tonnes)	39,356 (4)	+4.9		
Total beef, all nations (tonnes)	57,246 (4)	-16.9		

(1) to Apr 22/17 (2) to Feb 28/17 (3) to Feb 28/17 (4) to Apr 29/17
 Agriculture Canada

Cattle Slaughter

To Apr 29	Fed. inspections only	Canada	U.S.
To date 2017	846,730	-	-
To date 2016	798,430	-	-
% Change 17/16	+6	+	+

Chicago Futures (\$/cwt)

	Close		Trend	Year ago
	May 8	Apr 28		
Live Cattle				
Jun	127.78	124.03	+3.75	120.73
Aug	123.25	120.05	+3.20	117.90
Oct	119.08	118.33	+0.75	117.38
Dec	118.70	119.25	-0.55	116.88
Feb	118.90	119.43	-0.53	115.88

	Close		Trend	Year ago
	May 8	Apr 28		
Feeder Cattle				
May	148.30	149.55	-1.25	147.38
Aug	156.65	154.70	+1.95	147.18
Sep	155.95	154.65	+1.30	146.05
Oct	154.18	153.55	+0.63	144.35
Nov	151.45	151.88	-0.43	140.50

Beef Cutout (\$/cwt)

	May 4		Apr 27		Yr. ago	
	US Choice (uss)	235.58	219.15	204.42	US Choice (uss)	235.58
Cdn AAA (cs)	n/a	279.29	270.50			

Sheep (\$/lb.) & Goats (\$/head)

	Apr 24		Apr 10	
	Wool sheep	2.40-2.70	2.20-3.10	
55-69 lb	2.40-2.70	2.20-3.10		
70-85 lb	2.31-2.70	2.25-2.70		
86-105 lb	2.03-2.30	2.00-2.15		
> 106 lb	-	-		

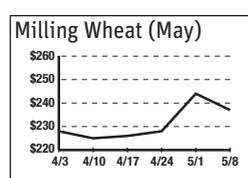
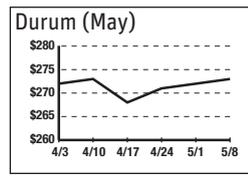
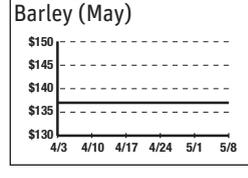
Shipping March

	May 1		Apr 24	
	New lambs	2.90-3.13	3.20-3.50	
65-80 lb	2.70-2.90	3.35-3.60		
80-95 lb	2.60-3.00	2.65-3.45		
> 95 lb	2.80-2.90	2.75-3.40		
> 110 lb	1.40-2.10	1.75-3.25		
Feeder lambs	2.70-3.00	-		
Sheep	1.15-1.25	1.20-1.40		
Rams	1.10-1.20	1.15-1.35		
Kids (head)	90-165	90-165		

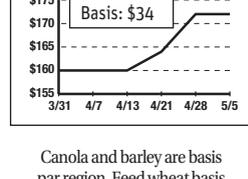
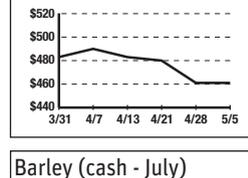
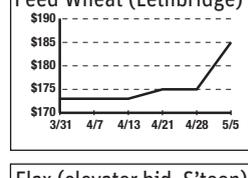
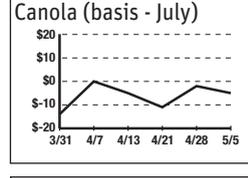
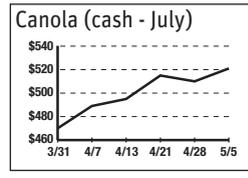
Ontario Stockyards Inc.
 Slaughter March
 Wool lambs <80 lb 2.15
 Wool lambs 81-95 lb 2.10
 Wool lambs 96-115 lb 1.90
 Hair lambs <95 lb 1.85
 Slaughter March
 Slaughter March
 Slaughter March

GRAINS

ICE Futures Canada

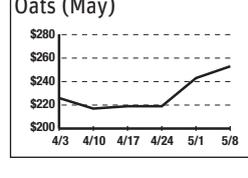
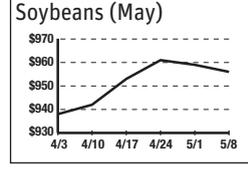
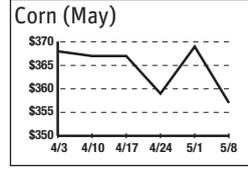


Cash Prices

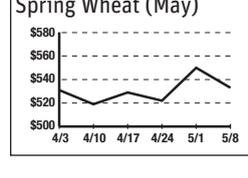


Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

Chicago Nearby Futures (\$/100 bu.)



Minneapolis Nearby Futures (\$/100bu.)



Pulse and Special Crops

Source: STAT Publishing, which solicits bids from AGT Inc., Canpulse Foods, CGF Brokerage, Maviga NA, Parrish and Heimbecker, Scoular Canada and Simpson Seeds. Prices for dressed product at plant.

	May 4	Apr 28	Apr 7
Laird lentils, No. 1 (c/lb)	48.57	48.57	48.86
Laird lentils, No. 2 (c/lb)	42.14	43.43	41.43
Laird lentils, Xtra 3 (c/lb)	30.17	30.17	31.50
Richlea lentils, No. 1 (c/lb)	45.20	45.20	45.20
Eston lentils, No. 1 (c/lb)	43.44	44.94	45.19
Eston lentils, No. 2 (c/lb)	39.31	40.31	40.31
Eston lentils, Xtra 3 (c/lb)	30.60	30.60	30.60
Sm. Red lentils, No. 2 (c/lb)	24.97	24.97	24.66
Sm. Red lentils, Xtra 3 (c/lb)	21.36	21.64	19.79
Peas, green No. 1 (\$/bu)	8.06	8.31	8.06
Peas, medium, yellow No. 1 (\$/bu)	8.81	8.58	8.33
Peas, sm. yellow No. 2 (\$/bu)	7.44	7.78	7.03
Feed peas (\$/bu)	6.53	6.53	6.53
Maple peas (\$/bu)	15.17	15.17	15.17
Mustard, yellow, No. 1 (c/lb)	30.25	30.25	30.25
Mustard, Oriental, No. 1 (c/lb)	34.43	34.43	34.33
Mustard, Brown, No. 1 (c/lb)	29.50	29.50	28.53
Canaryseed (c/lb)	19.75	20.04	20.04
Desi chickpeas (c/lb)	35.67	35.67	35.67
Kabuli, 8mm, No. 1 (c/lb)	59.58	59.58	39.58
Kabuli, 7mm, No. 1 (c/lb)	39.58	39.58	24.58
B-90 cpeas, No. 1 (c/lb)	46.00	46.00	29.75-

Cash Prices

	May 3	Apr 26	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	175.27	163.08	129.38
Snlflwr NuSun Enderlin ND (c/lb)	15.25	14.95	16.65-

U.S. Grain Cash Prices (\$/bu.)

USDA	May 5
No. 1 DNS (14%) Montana elevator	5.09
No. 1 DNS (13%) Montana elevator	4.71
No. 1 Durum (13%) Montana elevator	5.60
No. 1 Malt barley Montana elevator	2.88
No. 2 Feed barley Montana elevator	2.28

Grain Futures

	May 8	Apr 28	Trend	Year ago
Wpg ICE Canola (\$/tonne)				
May	525.70	526.60	-0.90	511.10
Jul	525.50	515.60	+9.90	516.10
Nov	507.20	501.20	+6.00	507.10
Jan	512.10	505.80	+6.30	508.50

	May 8	Apr 28	Trend	Year ago
Wpg ICE Milling Wheat (\$/tonne)				
May	237.00	244.00	-7.00	238.00
Jul	239.00	245.00	-6.00	236.00
Oct	239.00	242.00	-3.00	233.00

SWINGING SOURIS

This bridge in Souris, Man., was rebuilt and finished in 2013 and is the longest suspension foot bridge in Canada, measuring 184 metres in length. | JEANNETTE GREAVES PHOTO



THE WESTERN PRODUCER

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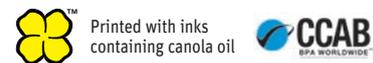
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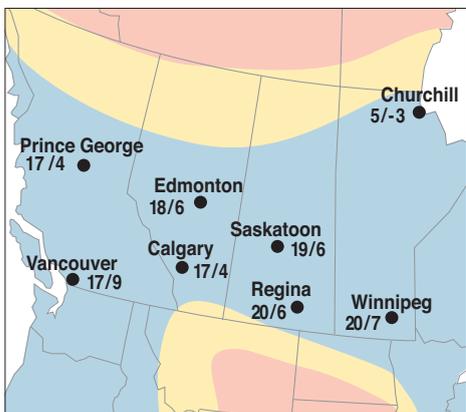
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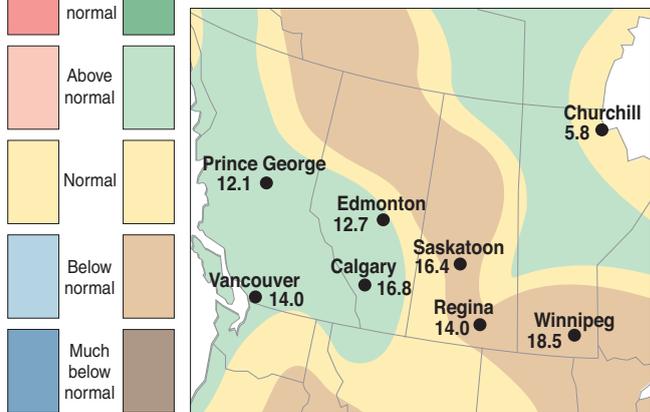
TEMPERATURE FORECAST

May 11 - 17 (in °C)



PRECIPITATION FORECAST

May 11 - 17 (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.weather Tec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

LAST WEEK'S WEATHER SUMMARY ENDING MAY 7

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	31.1	-2.3	2.4	33.5	111
Broadview	27.0	-0.4	7.3	19.1	52
Coronach	30.4	-2.2	11.5	40.4	119
Eastend Cypress	29.8	-1.5	7.3	42.8	135
Estevan	28.1	2.8	9.7	22.8	66
Maple Creek	30.9	-2.1	13.0	44.3	145
Meadow Lake	27.3	-2.1	2.1	58.0	188
Melfort	26.5	2.4	11.2	39.7	129
Nipawin	25.3	1.5	13.2	42.8	143
North Battleford	29.5	-3.6	4.0	37.8	121
Prince Albert	27.6	-4.2	13.5	41.7	126
Regina	31.3	-3.3	0.7	20.9	70
Rockglen	29.4	0.0	2.1	34.7	116
Saskatoon	31.2	-2.1	20.4	38.8	134
Swift Current	29.9	0.1	10.7	30.3	114
Val Marie	29.9	-1.6	13.0	36.3	134
Wynyard	26.4	2.1	1.6	23.0	78
Yorkton	25.9	1.8	0.8	28.8	87

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	29.9	0.3	6.0	29.7	92
Calgary	26.1	-0.9	0.6	56.3	147
Cold Lake	26.8	1.7	1.4	77.2	228
Coronation	28.5	-2.1	2.4	33.1	106
Edmonton	27.8	-2.5	0.9	56.0	146
Grande Prairie	22.8	-0.7	0.3	55.3	203
High Level	21.1	-1.6	0.2	4.4	20
Lethbridge	28.0	1.9	14.1	44.1	115
Lloydminster	28.0	0.1	1.5	55.3	158
Medicine Hat	30.6	1.3	3.7	49.0	168
Milk River	29.9	-1.7	4.9	63.3	144
Peace River	21.2	-0.1	2.4	31.6	115
Pincher Creek	24.2	-4.3	3.9	77.2	136
Red Deer	25.7	-1.2	0.1	30.1	80
Stavely	24.5	-0.2	3.7	94.5	219
Vegreville	28.3	-0.3	3.4	69.9	207

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.weather Tec.mb.ca

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brandon	25.5	-0.9	3.0	20.1	52
Dauphin	24.1	-2.5	0.0	10.9	26
Gimli	21.2	-2.3	1.1	53.1	157
Melita	25.7	2.3	3.6	24.9	69
Morden	24.8	-1.0	1.2	10.3	26
Portage La Prairie	23.6	1.2	1.2	35.5	86
Swan River	24.4	0.1	0.5	25.8	64
Winnipeg	23.8	-2.3	0.0	31.7	81

BRITISH COLUMBIA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	24.8	-2.0	9.8	52.6	141
Fort St. John	18.3	-0.3	4.9	77.7	295
Kamloops	25.9	1.5	6.3	29.0	142
Kelowna	24.3	-0.3	15.2	57.6	176
Prince George	20.1	-3.0	25.6	112.4	258

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Experience live demonstrations of field equipment, crops, livestock and services all together on 320 acres 15 minutes north west of Saskatoon in the RM of Corman Park.

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■ **PLOTS:** Over 50 acres of plots from a variety of seed and crop protection companies, all in one place, grown all summer long.



■ **LIVESTOCK:** Browse Livestock Central, presented by BMO Financial Group. Indoor and outdoor exhibitors, plus demos!

New Exhibitors, New Street, New Shuttle Routes



As **Ag in Motion** gains a whirlwind of momentum in its third year, attendees will see another site expansion to accommodate over 50 new exhibitors to the show this year.

This site expansion has created exhibit space for new companies like John Deere, Moody's Equipment - New Holland dealer and Redhead - Case IH dealer. As a result, farmers will have even more selection when looking for the right equipment for their farming operation.

The new street, located on the East end of the show site, also makes room for companies to expand and bring more equipment than in

previous years. Look for returning companies with bigger spaces, like Brant, Full Line, Unverferth Mfg. Co., Co-op and Ag Growth International (AGI).

Ag in Motion continues to grow in size to keep up with its exhibitor and attendee numbers. In 2017, the number of Meridian People Movers will be doubled and new routes will be introduced. Both attendees and exhibitors will be able to hitch a ride to and from the parking lots, as well as throughout the show site.

Plan your trip today. Visit aginmotion.ca for general information, exhibitor list, map and demonstration schedule.

Spotlight on Innovation

Farm equipment and livestock manufacturers, seed and crop protection companies, agribusinesses and more are bringing new technology to **Ag in Motion**. Introduced last year, the **Innovations Program** showcases the best innovations that agriculture has to offer, organized into three categories: Innovations in Equipment Technology, Innovations in Crop or Livestock Technology and Innovation in Agribusiness Service.

In the Innovation in Equipment Technology category, attendees will see improvements to agriculture equipment technology, as well as brand new concepts, to both the mechanics of the machines and the software that helps them do their job.

The Innovation in Crop or Livestock Technology category will showcase the latest

in genetics, non-mechanical improvements to pesticide application and improvements to the process of producing a crop.

Finally, agribusinesses will be recognized for their services provided to the industry in the Innovation in Agribusiness Service category. This

category includes important functions like monitoring, marketing, insurance, delivery and other services required to operate a successful business.

All Innovations Program entries are being unveiled to the Canadian agriculture market in

2017 and will be exhibited at the show. The entries will be judged by an expert committee. Plus, farmers will be able to grab a ballot and vote!

Entries will be on display all three days of **Ag in Motion**. The award winner for each category will be announced on Thursday, July 20 at 3:00 pm at the show.



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