

Reaction to livestock transport rules

Proposed regulations receive more criticism. | **P. 48**



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MULTI-TASKING | Cody Longson adds fertilizer to his air seeder May 14 as he prepares to plant canola in a field southwest of High River, Alta. | MIKE STURK PHOTO

RENTED OR LEASED

Farmers less likely to own land they farm: census

Initial capital outlay cited as major factor

BY BRIAN CROSS
SASKATOON NEWSROOM

Canadian farmers are producing more grain than ever and they're growing it on more land than ever.

However, a larger proportion of what they produce is being grown on land that's owned by someone else.

That's especially the case in Western Canada.

"We're seeing that an increasing proportion of the land being operated by farmers is rented or leased ... or crop shared," said Erik Dorff, an analyst with the Census of Agriculture. "I think there are a number of factors. One is the capital cost for land.... The other thing we know is that there are areas that are rented from people that aren't part of the agricultural universe. They're just landlords."

RAIL SERVICE

New grain transportation bill prompts cheers among farmers

Legislation broadens interswitching but confusion remains about exactly how the new system will work

BY KAREN BRIERE
REGINA BUREAU

Widespread grain industry support for new federal transport legislation introduced last week comes with questions about how new long-haul interswitching provisions will work and what happens when extended interswitching expires this summer.

Farmers and grain companies applauded Bill C-49, the Transportation Modernization Act, for containing much of what they had asked for to improve rail service.

It includes reciprocal financial penalties, a strengthened definition of adequate and suitable service, improved data sharing by the railways, and maintenance but tweaking of the maximum revenue

entitlement (MRE).

However, the new legislation likely won't be in place when the Fair Rail for Grain Farmers Act and its terms of 160-kilometre extended interswitching ends Aug. 1.

The new bill promises long-haul interswitching of up to 1,200 km or 50 percent of the Canadian haul, whichever is greater. It will apply across the country and to all commodities.

Jeff Nielsen, president of Grain Growers of Canada, said farmers told Transport Minister Marc Garneau during a discussion May 18 that they would like the 160 km limit to remain in place in the interim.

"The minister stated in front of the group that they will be closely monitoring rail transportation into the new crop year and if they had to



JEFF NIELSEN
GRAIN GROWERS OF CANADA

they would react," he said.

"We would still like to see that part carry on until the new act is in effect."

Other organizations, including the Canadian Canola Growers Association, have had similar comments.

"While C-49 introduces a new concept called long-haul inter-

switching as a replacement, the concept appears quite complex and will require considerable evaluation to assess its workability," said canola growers association chief executive officer Rick White.

Former Agriculture Minister Gerry Ritz, who said the bill "got most of it right," called that change troubling.

"I'm not sure how you make that work," he said.

"We're talking akin to joint running rights. It's something that isn't doable with today's safety concerns, and interoperability just isn't there. When cars move on, who's liable for what when it's changed over to someone else's line?"

SEE TRANSPORTATION BILL, PAGE 4

SEE FARMERS LESS LIKELY, PAGE 5



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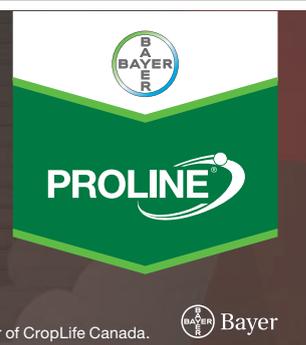
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CORRECTIONS

The story on page 21 of the May 16 issue regarding weeds should note that the reference to 89 percent of native species means specifically western barnyard grass, *Echinochloa muricata* var. *mycrostachya*, and the 11 percent of introduced grass refers specifically to barnyard grass, *Echinochloa crus-galli*.

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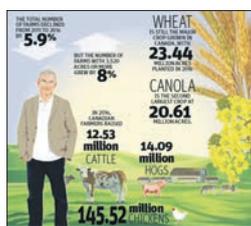
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FARMLAND OWNERSHIP
The recent Census of Agriculture shows more and more farmers working land owned by someone else. Capital cost of land is cited as one factor — what's your experience?



HONEYBEE POLL
A recent study shows ag areas provide the best environment for honeybee performance, yet some people loudly suggest otherwise. How are the honeybees near your farm?

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MAKING A DIFFERENCE
A Coaldale farmer's trip to Lebanon reinforces the importance of the foodgrains bank.



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



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IDENTIFICATION TIPS

Early scouting urged for blackleg

However, it can sometimes be difficult for growers to tell the difference between blackleg and root rot in June and July

BY ROBERT ARNASON
BRANDON BUREAU

Canola growers and agronomists often look for blackleg in August or September because it's a good time to spot signs of the fungal disease.

However, Justine Cornelson, an agronomist with the Canola Council of Canada, said growers should also scout for blackleg earlier in the season.

"If you're only scouting for blackleg prior to harvest, you don't know of all the plants you potentially lost earlier on in the year. They've dried out and are gone," she said earlier this spring at a CanoLab session in Dauphin, Man.

"That's why I encourage growers to scout all throughout the year."

Blackleg is a top of mind disease for Canada's canola industry.

For much of 2016 China threatened to shut the door to canola imports from Canada over concerns that traces of blackleg could contaminate the Chinese rapeseed crop. China was concerned about dockage, which is the amount of foreign material shipped with canola seed.

In September the two countries reached a three-year agreement on the blackleg issue, but Chinese officials are still concerned about blackleg levels in Canada.

"One way to mitigate risk to China is to start focusing on lowering levels of blackleg in the field," Curtis Rempel, vice-president crop production and innovation with the canola council, said last fall.

"While this is good for stable and open trade (with) China, I would submit ... it's also good for us. It increases our yield, it increases our profitability."

As part of that effort, it's important to recognize the symptoms of blackleg early in the growing season so that growers get a sense of the problem on their farm.

However, distinguishing blackleg



Pycnidia, or black specks on lesions, is a key way to diagnose blackleg early in the growing season. Another distinguishing feature of blackleg is it causes the root to dry out, so the root has a 'woody' appearance. | PHOTOS COURTESY THE CANOLA COUNCIL OF CANADA

from other diseases isn't easy in June and July.

"There's a lot of confusion with other diseases: root rots, foot rots," Cornelson said.

See the difference

At the meeting in Dauphin, Cornelson showed samples of infected plants to growers and ag industry reps. She held up two plants: one with blackleg and the other infected with *rhizoctonia solani*, one of the soil-borne pathogens that causes root rot.

She explained that blackleg starts on the leaves of canola and works its way down the plant.

Once in the root, it can cause a

pinching at the stem.

"With blackleg, you're going to see that constriction, which is very similar to root rot," Cornelson said.

"But if you were to cut that root and that stem right at the base of the plant, you're going to see that blackened tissue."

Root rot, in contrast, starts in the soil and moves up the plant. The disease makes the root soft and mushy, while blackleg dries out the root from the inside out.

"The blackleg plant, it's dried out. It's woody," Cornelson said. "That's one of the major ways I like to diagnose the difference between the two, is that woodiness in the plant."

There are other early symptoms for blackleg and root rot.

Blackleg

- Lesions can be grayish with a white centre.
- Black pycnidia, or black specks, are found on the lesion.
- With early infection on cotyledons, lesions will end up spreading and drying the cotyledon completely down.

Root rot

- Lesions vary in colour but typically range from gray to brown.
- Lesions can have irregular shapes.
- Decay and rot of roots moves up the stem and further down the root.

- Girdling is found at the base of the stem.
- Another key for diagnosis is that blackleg flourishes in warm, moist conditions, such as 16 to 20C.
- Root rot typically prefers cool or cold conditions.

Growers who can't tell if the disease is blackleg or root rot can send plant samples to a provincial lab.

Cornelson said knowing the type of disease is important, but it's probably more critical for upcoming crops.

"Most diseases have limited management options, in-crop," she said. "(It's) something to note and better manage before putting in future canola crops."

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SQUATTERS' RIGHTS IN ALBERTA

Politicians fume over failure of squatters' rights bill

BY BARB GLEN
LETHBRIDGE BUREAU

A bill that would have eliminated adverse possession, also known as squatters' rights, in Alberta failed to pass in the form originally intended May 15 when voted upon in the provincial legislature.

Bill 204, the Protection of Property Rights Statutes Amendment Act, is a private member's bill introduced by Wildrose Party MLA Pat Stier.

Second reading of the bill was not given in the legislature. Instead, an amendment made by NDP MLA Jessica Littlewood passed, which said the bill "does not strike the right balance between individual property owner rights, industry's need for certainty and the public's need to protect Alberta's water and public lands."

Alberta is one of few provinces with adverse possession still on the

books. It allows a person to claim ownership of land if he or she has been in open possession of that land for 10 years or more without having a valid agreement with the landowner.

Loss of the bill as initially presented drew swift public response from the Wildrose Party.

"Landowners have long memories," said Stier in a news release.

"They've been waiting patiently to see squatters' rights taken off the books, and the NDP government let them down. This bill would have accomplished many other great things for landowners, including removing barriers to the courts, granting fair hearings and awarding fair and timely compensation. Wildrose will continue to fight for the rights of Alberta landowners, despite this latest setback."

Speaking in the legislature, Littlewood acknowledged constituents'

They've been waiting patiently to see squatters' rights taken off the books, and the NDP government let them down.

PAT STIER
WILDROSE PARTY MLA

desire for substantive changes to protect property rights but said Bill 204 as presented would affect several other property rights issues and could also affect existing acts such as the Law of Property Act, Municipal Government Act and Irrigation Districts Act.

"Eliminating the doctrine of adverse possession is not a straightforward process and needs these careful considerations," Littlewood said.

"It's complex and may open gaps and create unintended consequences for Albertans."

Bill 204 as first introduced also included changes to the Alberta Land Stewardship Act, Energy Resources Conservation Act and several other acts affecting property rights that had generated controversy when Ed Stelmach was premier.

Wildrose MLA Drew Barnes, who supported the bill as originally introduced, said in the legislature that the NDP was against those acts when in opposition so its rejection of changes now is hypocritical.

Wildrose MLA David Hanson said the issue could galvanize rural landowners just as legislation on farm and ranch worker safety did two years ago.

"We've seen how landowners can get motivated, how farmers can get motivated with Bill 6, and I think this is another one of those where

you're going to see a huge backlash from landowners in the province. It extends," said Hanson, as reported in Hansard.

"You know, this isn't a centralized issue. This is going to cover the entire province, and I think you're going to get a huge backlash over this when it becomes public that you're using this referral amendment to kill this bill rather than take it to committee and fix the issues."

In closing debate on the proposed amendment to his bill, Stier said he intends to bring the matter forward again in "some other kind of legislation."

Bill 204 was his second attempt to change property rights in the province. He introduced Bill 210 in February but it died on the order paper when the legislative session ended.

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OUT WITH THE OLD, IN WITH THE NEW



Farmers burn last year's crop May 18 south of Fiske, Sask. Harvesting crops that are still in the fields before seeding the new crop is becoming an increasingly less attractive option for many producers as the seeding season grows late. | PAULA LARSON PHOTO

TRANSPORTATION
BILL CHEERED

» CONTINUED FROM PAGE 1

Barry Prentice, a transportation and supply chain expert at the University of Manitoba, said long-haul interswitching implemented Canada-wide could be a "disaster" because it is non-reciprocal with U.S. railways.

"We all live within about a couple hundred miles of the U.S. border, so well within that 1,200 km number," he said. "If you are allowed to designate a U.S. carrier, you can imagine that U.S. carriers would be trying to market to Canadian shippers."

The railways are still assessing the legislation.

Canadian Pacific Railway did not respond to a request for comment.

Canadian National Railway president Luc Jobin said, "Our initial view is that long-haul inter-switching may have unintended consequences with respect to investment and will give U.S. railways access to the Canadian market at regulated rates, without reciprocity."

On the other hand, he said he welcomed the changes to the MRE.

Those changes include a proposal to remove containerized grain from the calculations. Pulse Canada and Canadian Special Crops Association CEO Gordon Bacon said the industry would be watching.

"The industry expectation is that change must lead to improved containerized service, capacity and performance at competitive rates," he said. "Having clearly defined performance measures in place will be key to determining if the removal of container traffic from the MRE has achieved the intended results."

Under the MRE proposal, investments such as purchases of new hopper cars by one railway will no longer benefit the other.

Cereals Canada president Cam Dahl said this removes a disincentive to invest in cars and ultimately better service.

Garneau said he wants grain moved efficiently.

"It's 10 percent of what our railways carry in this country and we're extremely grateful to the farmers of this country who produce large amounts of grain, most of which goes to export markets in the United States or to foreign destinations," he said in a news conference. "It is in our interest that it's all working."

Canadian Federation of Agriculture president Ron Bonnett urged Parliament to pass the bill as quickly as possible but there are only a few weeks left before the House breaks for the summer.

Meanwhile, federal Agriculture Minister Lawrence MacAulay also announced last week the extension of the Crop Logistics Working Group's mandate for a fourth time. The group acts as a stakeholder forum to identify problems and solutions in the grain handling and transportation system.

MacAulay said the group would have input as the new transportation initiatives work their way through Parliament.

The grain monitoring program through Quorum, which monitors and reports on system performance, will continue for another three years, he added.

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CHILLIWACK CATTLE SALES

Abuse of cattle nets jail time
for B.C. dairy workers

It is the first time in Canada a company pleaded guilty to charges relating to employee actions

BY BARB GLEN
LETHBRIDGE BUREAU

Three men who pleaded guilty to 18 counts of abusing cattle at a British Columbia dairy farm in 2014 are going to jail.

Jamie Visser and Chris Vandyke were each sentenced to 60 days in jail and prohibited from owning animals for three years. Travis Keefer will serve seven days and is prohibited from owning animals for one year.

The sentences were handed down in a Chilliwack courtroom on May 18.

The charges under the provincial Prevention of Cruelty to Animals Act stemmed from an undercover video shot at Chilliwack Cattle Sales, the largest dairy in Canada with some 2,800 cows.

A member of Mercy for Animals, an animal welfare group, shot the video footage, which showed the three men and four others beating dairy cattle with chains and canes, as well as punching and kicking them amid laughter and cheers.

One cow was also lifted with a tractor while hanging by a chain around its neck.

The video and subsequent charges caused outrage among the public, animal welfare groups and in the dairy community.

I think it does send a strong message that this type of activity is not acceptable and it's not supported in industry either.

MARCIE MORIARTY
B.C. SOCIETY FOR THE PREVENTION
OF CRUELTY TO ANIMALS

Dairy groups condemned the actions of the employees and last year Chilliwack Cattle Sales owner Kenneth Kooyman pleaded guilty to three charges on behalf of the company and was fined \$300,000.

Wesley Kooyman, another owner, pleaded guilty to one charge and was also fined.

Four other dairy employees, Brad Genereux, Cody Larson, Jonathan Talbot and Lloyd Blackwell, were also charged in the matter and their trial was scheduled to begin May 19.

Mercy for Animals said it is the first time farm workers have been jailed for animal cruelty as a result of hidden camera footage and as such, it is a landmark.

"Animal abuse runs rampant in Canadian factory farms and the dairy industry is no exception," said Mercy For Animals vice-president Krista Hiddema.

"This isn't a case of bad apples, but a rotten tree."

She encouraged Canadian lawmakers to give the national dairy code of practice the force of law in all provinces.

Marcie Moriarty, chief prevention and enforcement officer for the B.C. Society for the Prevention of Cruelty to Animals, said May 18 that the jail sentences are important.

"I think it does send a strong message that this type of activity is not

acceptable and it's not supported in industry either," she said.

"I don't think you can really put a number of what number of days, for example, in jail would satisfy anybody in this type of case."

Moriarty said the matter marked the first time in Canada that a company pleaded guilty to charges relating to the actions of its employees. It also prompted the provincial government to incorporate the dairy code of practice into the B.C. Prevention of Cruelty to Animals Act. The code lists requirements for proper care and handling of dairy cattle.

"I like to look at this case as a whole and I think when you look at what transpired as a result of ... pretty tragic video footage, (it) was pretty incredible in that we've seen lasting legislative change that was supported by the government, industry and animal welfare groups that will hopefully prevent this type of situation from happening again," Moriarty said.

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CHAMPION EXPANDS

Pet food company building new plant in Alberta

LETHBRIDGE BUREAU

Champion Petfoods announced plans May 16 to build a new manufacturing plant in Parkland County west of Edmonton.

The Alberta company manufactures the Acana and Orijen brands of dog and cat food and will expand its capacity to produce kibble, freeze-dried food and pet treats in custom-fitted 400,000 sq. foot

kitchens at the new plant.

The facility will also have a distribution warehouse and logistics centre.

Estimated cost of the project was not revealed.

In a news release, Champion Petfoods president Frank Burdzy said he expects to break ground at the plant's 75-acre site in June. It will be built by Gray Construction Canada Co. and is expected to start making

product in spring 2019.

About 200 new jobs will be created in the plant. Gray Construction president Stephen Gray said in the news release that more than 95 percent of the more than 300 construction jobs for the plant will be local hires.

Champion already has a pet food facility in Morinville, Alta., with about 180 employees, which will continue to operate.

It also opened a plant in Auburn, Kentucky, in January 2016.

The roots of the company lie in Westlock, Alta., where it began more than 30 years ago as a feed mill that started offering pet food to farmers.

Champion now distributes product in more than 80 countries and promotes what it calls "biologically appropriate" pet food using regional ingredients.

LIVESTOCK GET LIMELIGHT



The Rimbey Interclub 4-H Show and Sale was held in Rimbey, Alta., May 14-15. Members from clubs in Bluffton, Winfield and Rimbey competed. | SCOTTY AITKEN PHOTO

FARMERS LESS LIKELY

» CONTINUED FROM PAGE 1

According to data contained in the 2016 Census of Agriculture, the total area used for agricultural purposes in Canada last year was roughly 159 million acres.

That number includes land used for all types of agricultural activity, from grain and oilseed production to grazing, horticulture, orchards and dairy production.

Of that amount, nearly 45 million acres (28.5 percent) were either rented or leased from other land-owners or crop shared.

In 2011, the area leased, rented or crop shared was up 41 million acres.

Land leases and rentals are the most common on the Prairies.

In Saskatchewan alone, the amount of land that is leased, rented or crop shared rose by nearly 2.5 million acres from 2011 to 2016.

The total area in the province that is managed by farmers but not owned by the farmers who manage it now stands at about 19.5 million acres. That compares to 37.8 million acres owned by farm operators themselves.

Todd Lewis, president of the Agricultural Producers Association of Saskatchewan, said rising farmland values are the primary factor behind the decision to lease or rent land, as opposed to buying.

According to Farm Credit Canada, average land values in the province have increased by nearly 18 percent per year since Jan. 1, 2011.

For farmers who own land and are nearing retirement, that's good news.

But for others who are looking to expand their operations, renting or leasing is often the only option.

"Rising land values are a two-edged sword," said Lewis.

"For people exiting the industry or those who are well-established, higher land prices are not a terrible thing for your net worth. But it can certainly end up being a barrier to entry for new people getting involved."

Dorff said young farmers are renting more land than ever, either from neighbouring farmers or from others whose only connection to agriculture is land ownership.

"Certainly, one of the things that we've noted is that young farmers are more likely to rent," Dorff said.

"Those that may not have as much access to capital right up front are using land rentals in order to get in (or get bigger)."

Dorff said the ag census does not keep statistics on the amount of farmland that's owned by investors or non-farmers.

"We can't really derive that from what we collect through the census," he said.

"Certainly, the vast majority of land that farmers have access to is still owned by farmers themselves, but we can't quantify what proportion of the land that is rented is held by investment-type companies."

Some leased land is owned by older producers who are scaling down their own operations but aren't ready to sell the farm, he said.

In other cases, the properties are family homesteads owned by non-farming relatives or investment properties owned by absentee or institutional investors.

BAYER-MONSANTO DEAL

Liberty Link put up for sale; unknown buyer sparks anxiety

Independent dealers worry that a new owner would mean they have no access to supply

BY SEAN PRATT
SASKATOON NEWSROOM

Bayer's announcement that it is selling its Liberty line of products has provided relief for Canada's canola growers and created anxiety for independent retailers.

Regulators in South Africa said one condition of their approval of Bayer's acquisition of Monsanto was that it had to sell off its Liberty Link technology and associated Liberty branded chemical business. Bayer agreed to those terms.

Janice Tranberg, executive director of the Saskatchewan Canola Development Commission, said that is a relief because Bayer would have owned 95 percent of the canola traits and accounted for 75 percent of canola seed sales in Canada.

"A merger would give the control of that to one single entity as well as the two most common pesticides that farmers use on canola," she said.

Renn Breitkreuz, vice-chair of the Alberta Canola Producers Commission, said that is way too much concentration of power.

"You need more than one player in the market to have it function," he said.

Both groups made presentations to the Competition Bureau contending Bayer would have a virtual monopoly over the Canadian canola industry.

Greg McDonald, general manager of crop protection and seed with United Suppliers Canada, worries that the sale of Bayer's Liberty assets could result in market concentration of a different kind.

Liberty products are distributed widely through most retail

Any time there's change and you're not sure what the change will be, you just wonder if you'll have access to that product line in the future.

GREG MCDONALD
UNITED SUPPLIERS CANADA



outlets in Western Canada, including the independents that comprise United Suppliers Canada.

That could change, depending on who buys the product line.

"Any time there's change and you're not sure what the change will be, you just wonder if you'll have access to that product line in the future," said McDonald.

The four companies being banded about in the rumour mill as potential suitors for the Liberty Link system and Liberty chemistries are BASF, Syngenta, Nufarm and Agrium's Crop Production Services (CPS) division.

The first three are seed and chemical manufacturers. CPS is a retail distribution company with more than 220 outlets across Western Canada, and that is the potential owner the independents fear.

"Then it's in the hands of a competitor," said McDonald.

He said canola is an extremely important crop for retailers, and the Liberty Link system accounts for more than 50 percent of Canada's canola acres, so it is vital that independents still get an adequate supply of the product at a

reasonable cost no matter who owns the system.

BASF is seen by some as the logical fit. It is the only one of the big six seed and chemical companies that is not part of a proposed takeover or merger deal. ChemChina is attempting to acquire Syngenta, Dow is merging with DuPont and Bayer is buying Monsanto.

McDonald said there has long been speculation in the crop input industry that BASF needs to bolster the seed side of its business.

"They have such a strong crop protection position that I'm sure they're looking to have more of a broad portfolio, and seed is important," he said.

McDonald isn't surprised that Bayer chose to sell off the Liberty line rather than Monsanto's Roundup Ready line to appease regulators. He said it is a strong performer with good market share and high valuation.

"Selling something that is probably at its peak isn't necessarily always a bad thing," he said.

Plus, while Liberty is the market leader in canola, Roundup is the leader in corn and soybeans, and

the merger of Bayer and Monsanto was predominantly a corn and soybean decision.

McDonald said it is possible Bayer will sell the canola business to one buyer and corn and soybeans to another.

"Anything could happen, but the more that could be sold to one possible buyer, probably the easier it is," he said.

Breitkreuz said while he is pleased that one company won't be in control of the canola industry, he is not happy that Bayer and Monsanto will no longer be in direct competition with one another.

"They were trying to out-compete each other, out-innovate each other for market share," he said. "That market force is no longer compelling them."

Adrian Percy, global head of research and development with Bayer, contends the merger will result in more new products rather than less.

"This deal between Monsanto and Bayer is all about innovation. It's all about accelerating innovation and about growth," he told reporters attending a news conference at the 2017 Commodity Classic earlier this year.

Percy provided an example of how the merger will get new products to market faster. He said chemical companies introduce new herbicides and then it might take a decade before a seed technology company comes up with a herbicide tolerant trait to pair with the chemistry.

"With this combination, we have the opportunity to co-develop," he said.

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MARKETS



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UKRAINE WEATHER

Forecaster sees drought for Ukraine

If serious problems develop, it could change trade's mindset about surplus grain supplies

BY SEAN PRATT
SASKATOON NEWSROOM

A drought in Ukraine could be the weather shock that sparks a grain price rally, says an analyst.

AccuWeather forecasts hot and dry weather developing in Poland, the Baltic States, Belarus and Ukraine this summer with "severe impacts" on agriculture.

"We do expect drought conditions across much of Ukraine, which may damage crops," meteorologist Tyler Roys said in a news release.

"This drought, combined with any damage to crops from the cold snaps of late spring, could yield a smaller crop and in turn lead to crop shortages and price increases across the rest of Europe."

A recent rainfall eased current soil moisture deficits in north-central Ukraine, which had received less than 50 percent of normal rainfall over the previous 90 days, according to the U.S. Department of Agriculture's latest *Weekly Weather and Crop Bulletin*.

"More rain will be needed to fully ease the impacts of this spring's acute dryness," stated the report.

Rainfall in other parts of the country helped maintain good to excellent prospects for the winter wheat crop and improved soil moisture for the planting of summer crops such as soybeans and sunflowers.



ARLAN SUDERMAN
INTL FCSTONE

In a separate report, the USDA said dryness last fall delayed planting of Ukraine's winter wheat crop, but unusually deep snow cover fully replenished subsoil moisture reserves in the spring and protected crops against frost damage.

However, if drought develops over the summer, it could quickly change the fortunes of Ukraine's winter and summer crops, and that could be the weather woe grain markets need to ignite a rally. The winter wheat harvest begins in July and corn harvest begins in late September.

Global grain prices currently reflect ideas that there will be ample grain production this year and total supplies will be bolstered by large supplies carried in from the 2016-17 crop year.



A hot, dry summer across Ukraine along with damage from spring frosts could reduce production and spark a price rally

| REUTERS/VALENTYN OGIRENKO PHOTO

To significantly lift prices, a serious cropping problem is needed in a major production region.

"Drought in Ukraine has a lot bigger impact on the market than does drought in the United States," said Arlan Suderman, chief commodities economist with IntlFCStone.

"Historically, we find a much stronger correlation when there is a weather issue there than if there's a weather issue here."

He has no scientific explanation for why that is the case, but he has a theory. He believes U.S.-based fund managers pay more attention to headlines overseas than ones at home.

"They get tired of hearing farmers complain here in North America about the problems, and so they kind of become numb to hearing complaints and it means more when it comes from over there," said Suderman.

Ukraine was the world's fourth largest exporter of corn and sixth largest exporter of wheat in 2016.

It was also the third largest

exporter of rapeseed-canola. Reuters reports that Ukraine's rapeseed exports are poised to explode this year. It quotes UkrAgroConsult's forecast of a 60 percent rise in 2017-18 to 1.65 million tonnes because of a 70 percent increase in production.

As a result, a significant drought in that country could help lift the prices of a number of key crops. Suderman said a rally would likely start with corn.

"If you combine (Ukraine's drought) with the reduction in corn

area in the United States and in Europe, then that starts to tighten things up a little bit," he said.

World corn ending stocks are expected to be a bloated 223.9 million tonnes at the end of 2016-17, but China holds 45 percent of the supplies and the U.S. another 26 percent.

Outside of those two countries, corn stocks are fairly tight, amounting to a 42-day supply of the crop, said Suderman.

Corn and wheat prices are closely linked, so he believes there would be upward pressure on wheat prices, especially if Ukraine's winter wheat crop sustains damage.

Australia's wheat crop is also under threat because of El Nino, and damage from a spring blizzard that dumped 250 to 500 millimetres of snow on the U.S. winter wheat crop might be more extensive than originally reported.

"One of our people went back to the area late last week, and from the roads things look nice, but you walk in the fields and there's a lot of

CROP FORECAST

Ukraine grain production and export forecast assuming normal weather.

(Million tonnes)

	2016-17	2017-18
Wheat prod	26.8	25.0
Wheat exports	17.3	14.5
Corn prod	28.0	28.0
Corn exports	19.0	20.0

Source: USDA

problems. It's getting worse," said Suderman.

The big funds are heavily net short in the wheat market, meaning they hold a preponderance of short positions that pay off when the market falls. Any weather-related rally that would force the funds to scramble to cover their short positions would exaggerate the rally.

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PRODUCTION IN
2017-18

POTATO SECTOR

Investment sizzles as potato demand grows

McCain Foods and Cavendish Farms are expanding their processing plants

BY ROBERT ARNASON
BRANDON BUREAU

After years of flat demand, North America's potato industry is enjoying a wave of investment.

In early May, McCain Foods announced a \$200 million expansion of its processing plant in Burley, Idaho.

That comes on the heels of a December announcement by Cavendish Farms. It plans to build a \$350 million frozen potato processing plant in Lethbridge to replace the company's aging plant in the city.

Last June McCain's said it will spend \$65 million to expand its processing plant in Florenceville, N.B.

Kevin MacIsaac, United Potato Growers of Canada general manager, said global demand for frozen potato products is driving the investment in the U.S. and Canada.

"(It's) related some to the dollar (loonie) but also to more exports of french fries," he said from his office in Charlottetown, P.E.I.

"More countries moving into a higher economic level, where they want to buy those kinds of foods."

McCain's, in a news release, said the Idaho investment is a response to "increased demand for McCain branded products in North America

and around the world."

The around the world bit refers mostly to Asia, where demand for french fries and frozen potatoes is swelling.

Demand continues to expand in emerging markets, thanks to a growing middle class and the growth of fast food restaurants.

Allied Market Research, in an April 2017 report, said the global market for frozen potatoes was valued at \$50.7 billion in 2016.

The market for french fries, hash browns and other frozen products is expected to grow 3.9 percent annually and reach \$66.6 billion by 2023.

Looking forward, MacIsaac isn't aware of further investments in process potato capacity in North America. But it's clear that North American players are in competition with European processors.

In recent years, Belgium has expanded its processing capacity and potato acres.

"How does Europe fit into the picture, in terms of french fry production?" MacIsaac said.

"Where they will fit in is the unknown, because it is truly a world market."

The industry investment in Canada is positive news, but national potato acres will likely be static in 2017.

"Basically it's pretty close to last year," MacIsaac said.

"There are going to be some increases that are justifiable... based on contract requirements, or expansion requirements in the processing side."

In an email, MacIsaac pointed to several outlook expectations:

- Prince Edward Island acres will be flat.
- New Brunswick acreage will rise to supply expansion of plant in Florenceville.
- Manitoba acreage is expected to fall by about two percent.
- Alberta acreage should be up slightly.

"In Alberta there will be some increase in processing acres as the growers gear up for that Cavendish plant expansion," MacIsaac said.

"It was announced to be up and running for 2019. But I see now they've delayed it to 2020."

On May 16, MacIsaac participated in a conference call with potato industry leaders from the U.S.

The word from America is that acres will remain steady.

"They expect the acreage to be pretty similar. And most importantly to be pretty similar in Idaho ... because they are the big producer."

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POTATO ACRES IN CANADA

	2014	2015	2016
P.E.I.	90,500	89,500	89,000
N.B.	48,000	48,000	47,000
Ont.	35,000	35,000	35,000
Man.	63,000	67,000	64,000
Alta.	53,000	53,000	52,300
Canada	347,000	348,000	347,000

Source: Agriculture Canada



HOG FUTURES

Spring hog rally creates hedging opportunities

BY ED WHITE
WINNIPEG BUREAU

Farmers in Canada and the United States haven't been shy to peg some prices in the recent hog market rally.

"They've taken to the recent rally and used it as a pricing point," said Tyler Fulton, director of risk management for Hams Marketing.

"Producers are viewing this as a trigger to price."

Fall futures have also increased but not as much as the July contract, about \$5 in the past month.

Meyer said both the summer and fall prices are worth taking because "we've got a lot of hogs coming." Slaughter volume will be high this summer, at around 2.2 million per month, and fall slaughter will come close to capacity.

Meyer said he thinks a more reasonable current summer contract price would be in the low-to-mid \$70s.

Fulton said he thinks summer contract prices might rise because demand is stronger than expected both in the domestic and export markets, but he doesn't know how long the market's bullishness will last.

"There's a view that we're going to have just insatiable demand dealing with the three to four percent more production, until we see the fall run of hogs," said Fulton.

"Expectations are pretty high."

Meyer said he urged farmers to do some pricing in the February-March highs, and now that those prices are available again, he's urging farmers to take action. Summer contracts often peak in May, so assuming that current prices will continue is risky.

Good exports, good domestic demand and surging cattle prices have helped hog prices recover to match their winter highs, but those factors can't be assumed to last, the analysts said.

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I wouldn't miss the chance to price hogs on this deal.

STEVE MEYER
EXPRESS MARKETS ANALYST

That makes sense, said Steve Meyer of the American analytical firm Express Markets because it's hard to justify higher or even current prices.

"I wouldn't miss the chance to price hogs on this deal," said Meyer.

"I think the whole complex is giving you some chances to price hogs for the rest of the year that you may not see in the cash market when you get there."

Since April 21, Chicago July lean hogs futures have rallied from US\$67.54 per hundredweight to briefly touch \$80 May 17. That takes them above the highs reached in March and almost as high as the peak in February.

GRAIN GUARD

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PORK EXPORT DEMAND

Expanding Chinese pig production is no black swan

MARKET WATCH



D'ARCE McMILLAN

Let's talk about black swans and pigs in this column. The black swan is a metaphor, while the pigs are real.

When I was in university, I had a summer job in a park in Moose Jaw, Sask. The park has a beautiful creek that was stocked with swans and ducks. One spring, the city bought a pair of black swans.

Wow, who knew there were black swans, I thought. Apparently I was not alone. For centuries the rareness of black swans has been noted, leading to the development of an economic theory.

And like many detailed theories, it has been popularized and simplified so that "black swan" is used to refer to any event that was not expected and changes generally accepted assumptions.

So when soybean prices plunged more than three percent May 18 because Brazil's currency plunged seven percent due to bribery allegations laid against Brazil's president in a corruption scandal, well, that was a black swan.

Sure, we knew that soybean prices were under pressure from the record large South American soybean harvest and the expected record large soybean acreage in the United States, but this was a shock.

The impact will likely be short



China's hog production faltered while it transitioned from backyard production to modern barns but is catching up with demand and the country might need less pork imports in 2018. | REUTERS PHOTO

lived, fading as new information on weather, seeding progress and weekly demand figures gain prominence. But on May 18 there were lots of farmers scratching their heads, wondering what was going on to hammer soybeans lower.

The explanation was that Brazilian farmers were slow this season in selling their record crop because they didn't like the price. The world price was down more than 10 percent from January.

That fall was made worse by the fact that Brazil's currency, the real, had rallied 5.6 percent since the start of the year. So that made the local soybean price in reals even lower.

When the presidential scandal caused the real to plunge seven percent in one day, it lifted the local soybean price, and farmers rushed to sell.

But all that extra crop coming on the market caused the Chicago soybean contract to fall and caused some American farmers to search for the black swan that was behind this one-day surprise.

But pigs in China, or a lack of them, have had a much longer-term effect on North American hog prices, and the future of China's pork demand should be predictable.

China's hog industry is undergoing a major transformation.

It consumes half of the pork produced in the world and has the largest hog herd, but scandals about dead pigs floating in rivers and urban pollution caused the government to launch a major push to end backyard pig production in dense population areas and expand modern hog production in more remote areas.

The new production hasn't quite

kept up with cuts to old style production, leading to a hog shortage and high pork prices.

This has created an opportunity for massive pork imports from Europe, the United States, Brazil and Canada.

Statistics Canada released trade figures for March that show the value of fresh, frozen and chilled pork exports to China is about \$128 million in the first three months of this year, up 57 percent from the first quarter of 2016.

It holds the hope that 2017 will carry on the growth of 2016.

In the full 12 months last year, fresh and frozen pork exports to China were about \$432 million, more than triple the \$144 million shipped in 2015.

And that does not include about \$150 million worth of offal, fat and processed product.

But these increased exports are

not guaranteed to continue.

The building boom of new large, modern barns continues in China, and the shortage of production is narrowing.

Reuters quoted Feng Yonghui, chief analyst at the Soozhu.com consultancy, as saying that by the summer the sow population should be more than adequate and pig production will likely be in surplus by early next year, leading to hog prices that are below the cost of production.

That will likely lead to reduced pork imports for a year or two, although longer term the import trend should re-establish.

Back in December, our reporter Barb Glen covered a speech by Brett Stuart, chief executive officer of Global AgriTrends in Denver, who warned that when the China pork import bubble bursts, maybe as early as December 2017, it could hit North American pork prices hard.

New slaughter plants are opening in the United States. Part of their pork production is slated for export, but if China cuts back imports, where will the pork go? If supplies back up, prices will be pressured lower.

It would be good for hog producers to keep this in mind in their price risk management plans.

Producers did a great job in 2016 managing marketing and hedging to avoid a predicted price crash in the fourth quarter.

The difference this time is that the danger period could last longer if exporters can't find replacement markets for the pork China has been buying.

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GRABBING OPPORTUNITIES

Weather-generated flash rallies requires quick action

HEDGE ROW



ED WHITE

holding since late 2016. It's as if the storm never happened.

Farmers who used the weather rally as a chance to price some old crop are no doubt happy.

Those who thought this was finally the big turnaround in the wheat markets are left rueing the lost opportunity, or assuming the real long-term reversal will occur soon.

So what happened here, and how can we hope to identify a lasting rally as opposed to a short-term bit of weather froth?

Every analyst has their own take on the latter question and set of gauges and metrics they use to spot trend changes. That's a fine art.

But as to the question of what really happened here, there's not much mystery.

There was a heavy dump of snow and freezing temperatures in the southern Plains, potentially damaging winter wheat crops in a wide area. And there was a bunch of rain in the Midwest, slowing planting progress and flooding some crops that had already been planted.

So there was a real chance that crops in both the southern Plains and much of the Midwest could be worse than had been expected a



Weather disasters often offer a short price rally window. | GETTY PHOTO

few days earlier. Crop surveyors a few days after the storm said it was too early to assess the long-term damage, so that added to the uncertainty.

The market initially reacted to the negative uncertainty, pushing prices higher because it was new and dramatic.

However, long-term grain traders weren't so panicked about the situation. One told me May 1 that "ultimately, it's all precipitation.... In the end, snow makes grain."

That same skeptical, wait-and-see attitude was shared by a number of brokers and traders I spoke with following the storm.

After a bit of waiting they saw there wasn't much follow-up bad weather to exacerbate the impact

of the storm.

The bullish effect wore off and traders returned to the familiar narrative of, "the world has too much wheat."

The market isn't one thing. It isn't a single organism. It's thousands of players all making independent decisions, and that plays a big role in weather market rallies.

A lasting joke is that crop markets will slump if it's raining in downtown Chicago. That's because traders can look outside, see rain, assume the same weather applies to the entire Midwest and believe higher yields are coming.

Similar weather in a remote part of Kazakhstan wouldn't have any such impact.

Such players can drive prices one

way or the other for a couple of days before people with different information or ideas can push it another direction if the initial reaction seems overdone.

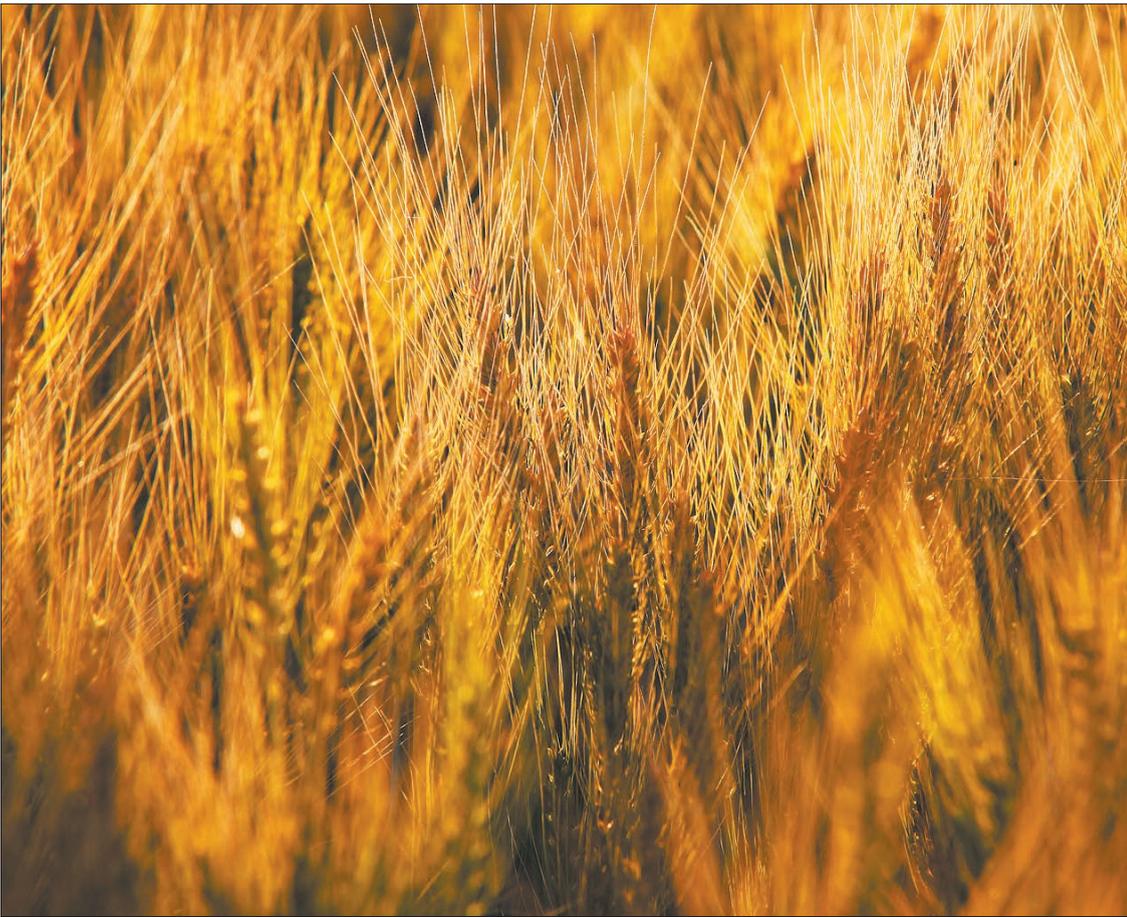
That's as true today as it ever has been, regardless of the plethora of speculative funds following algorithms that don't necessarily share all the same concerns as traditional crop market players.

There are all sorts of new players in the crop markets that really don't understand farming, crops or world agriculture. It's just another asset class for them. They're the kind of people who might look out their windows, see rain, snow or scorching sunshine and leap into a position thinking they are witnessing the birth of a lasting trend.

Weather markets are here to stay. We just saw one in action. They're a great chance for farmers to take some pricing action one way or the other.

It's just important for farmers to realize that the markets aren't necessarily smarter than them, and that sometimes the market is a gift horse that shouldn't be looked in the mouth.

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Kansas winter wheat was hit by a spring snowfall and heavy rain, so concerns over quality and protein content may lead to higher premiums for spring wheat. | FILE PHOTO

PRICE SPREAD

Minneapolis spring wheat premium widens over winter wheat

Analyst expects the premium to widen if protein and quality are issues

BY PHIL FRANZ-WARKENTIN
COMMODITY NEWS SERVICE CANADA

WINNIPEG — Concerns over poor quality North American wheat crops have seen the Minneapolis spring wheat premium widen over Kansas City winter wheat.

That spread could grow wider heading into the summer, according to a U.S. analyst.

The nearby Minneapolis spring wheat contract settled up 3.75 cents May 18, while the corresponding Kansas City hard red winter wheat contract lost half a cent.

July wheat in Minneapolis settled at US\$5.4475 per bushel May 18, which puts it at a premium of \$1.18 over the Kansas City July contract.

The spread between the two commodities has widened considerably over the past year with Minneapolis wheat trading at only a 50-cent premium to Kansas City at the same point in 2016.

Bryan Strommen of Progressive

MAY 18, MINNEAPOLIS
JULY WHEAT OFFERED A

\$1.18

PREMIUM OVER KANSAS
CITY HARD RED
WINTER WHEAT

Ag in Fargo, North Dakota, described the spread as “historically wide” and expected it would continue to widen, “especially if we see some protein demand come into play.”

He said the recent snow in Kansas, followed by rain, led to concerns over the quality and protein content of the winter wheat.

Millers are short bought and have upped their demand, said Strommen.

Major world wheat buyer Egypt is also looking for better quality wheat, he added, while Canadian seeding issues are also underpinning Minneapolis futures.

“Maybe there are some opportunities for some better (price) levels,” said Strommen.

WP LIVESTOCK REPORT

HOGS GAIN

Strong pork exports and expectations that market-ready supply will get smaller seasonally lifted hog prices.

U.S. hogs averaged US\$70.86 on a carcass basis May 19, up from \$69.73 May 12.

The U.S. pork cutout was \$87.26 per cwt. May 19, up from \$83.29 May 12.

The estimated U.S. weekly slaughter for the week to May 20 was 2.249 million, down from 2.258 million the previous week.

Slaughter was 2.115 million last year at the same time.

In Canada, the average for the week to May 18 Signature Five price was C\$178.01 per 100 kilograms, up from \$168.08 the previous week.

On a per hundredweight basis, the average price was \$80.74, up from \$76.24 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.

LAMBS RALLY

Ontario Stockyards Inc. reported that 891 sheep and lambs and 31 goats sold at the May 15 sale. Light lambs traded actively at higher prices. Good heavy lambs fetched premium prices.

Goats and good lean sheep were steady with heavy and thicker sheep under pressure.

CANFAX REPORT

FED CATTLE LOWER

The Canfax weighted average fed steer price was \$174.44, down \$5.58, and heifers were \$173.23, down \$5.96.

Most cattle were sold to Alberta packers, but there was some U.S. interest.

Dressed sales were \$292-\$293 delivered. Most sales were scheduled for delivery in two to three weeks.

Steers have been sold early, and now a large offering of heifers are coming in behind.

The Alberta cash-to-futures basis weakened modestly to +\$7.31 but remained strong for the season.

Weekly western Canadian fed slaughter to May 13 fell five percent to 34,613 head. Slaughter for the year is up five percent.

Weekly exports to May 6 rose to 5,507 head. For the year they are down 13 percent.

Fed steer carcass weights were 15-17 pounds lighter than the previous week.

Compared to the same week last year, Canadian steer carcass weights are down 49 lb. and U.S. weights are down 30 lb.

Market-ready supplies should increase modestly in the United States, and local supplies are expected to be steady.

Poor pen conditions in some feeding areas continue to affect performance and carcass weights, making it a challenge for packers to maintain production.

Lower beef cut-out values will likely pressure bids lower this week, but feedlots should maintain marketing leverage.

In the U.S., most live trade in the north was at US\$134-\$136 and in the south \$132-\$133. Prices were \$2-\$4 lower.

Dressed sales in the north were \$212-213 delivered down \$8-\$10.

COWS LOWER

D1, D2 cows ranged C\$100-\$117 to average \$109.40, down 43 cents. D3 cows ranged \$86-\$105 to average \$97.50.

Alberta D1, D2 cow prices have fallen for two straight weeks and are now \$1.50 off their annual highs. Rail grade cows ranged \$205-\$210.

Weekly Ontario prices rose \$7 to the highest levels since July 2016.

Often cow slaughter declines into the spring, but looking at regional data, different stories are developing in Western and Eastern Canada.

Weekly western Canadian cow slaughter to May 13 totalled 4,785 head, the smallest this year.

In Eastern Canada, slaughter has topped 2,000 head for the past two weeks, the most since late January and early February.

FEEDERS RISE

Canada's feeder cattle prices continued strong even with volatility in the futures market and sharp declines in the fed market over the last two weeks.

May has been busier than normal for many commercial auctions. For the first three weeks of May volumes (including forward delivery sales) are up 26,000 head over last year.

Ontario feeder prices have rallied less than western Canadian prices.

On average, Alberta heifer prices are up \$25 over the same time last year while Ontario heifers are down \$4.50.

From their lows in February, 850 lb. steers have rallied 25 percent. This stands as the second largest first half rally seen in the past decade, topped only by 2014.

The basis for 850 lb. steers is the strongest this year. It was the fourth strongest weekly basis since 2014.

Alberta calf and feeder values have moved back to a premium over the U.S. market. This suggests cattle will stay in Western Canada.

Weekly feeder exports were only 2,032 head.

Cow-calf pairs averaged \$2,600 per head with sales reported up to \$3,475.

On average, cow-calf pairs are nearly \$450 per head higher than last year. Pair prices usually decline into June.

The decline has averaged \$100 per head, but it might be less this year because grass conditions are good across much of the Prairies. Also, strong calf prices are adding confidence to the market.

U.S. BEEF MOSTLY LOWER

The Choice cutout was US\$247.21 per cwt., up 35 cents, and Select was \$221.66, down \$5.

The Choice-Select spread widened to a record \$26 as lighter carcass weights resulted in a large proportion of Select production. Also, demand for Choice middle meats was strong for barbecuing.

Buying for the U.S. Memorial Day weekend is wrapping up and beef prices could continue under pressure.

Canadian boxed beef prices for the week ending May 13 were C\$297.01 per cwt. on AAA and \$286.98 on AA.

CANADIAN FEEDLOT REPORT

There were 914,057 cattle in Alberta and Saskatchewan feedlots on May 1, the same as last year at the same time. It was the first time in nine months that inventories were equal with last year.

On-feed inventories have grown steadily over the past three months, partly because of bigger placements and historically low marketing volumes.

Placements in April were 128,832, up 25 percent over last year at the same time. It was the largest placement for the month since 2013.

Marketings in April were 105,099 head, down 10 percent from last year. It was the smallest for the month going back to 2000 when this report began. The marketings reflect steady domestic slaughter but a 35 percent decline in exports to the U.S.

Terminal feedlots have been buying grass cattle. These lighter stockers are entering feedlots much earlier than normal.

April placement of calves and stockers lighter than 700 lb. rose 66 percent, while feeders heavier than 700 lb. were up only 17 percent.

Heifers as a percent of total placements in April were 36.2 percent compared to 44.6 percent last year.

For the year, heifer placements are up 11 percent, or 19,000 head.

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.

GRAIN MOVEMENT

Transportation reform bill addresses most farm needs

Rarely has proposed federal legislation met with such widespread farm group support.

The new Transportation Modernization Act, called Bill C-49, has a host of measures designed to improve the movement of people and goods in Canada, but farmers are most interested in the part that addresses grain transportation.

Farm group news releases “welcomed” the legislation, said they were “pleased” with the content, and the Alberta Barley Growers went so far as to say it was “fantastic news.”

This support was a 180 degree reversal from the concern and rejection of much of the initial review of the Canada Transportation Act conducted by David Emerson, whose recommended reforms called for the grain transportation system to become more commercially grounded with less government involvement.

The public consultation on Emerson’s recommendations was initially light on hearing farmers’ views, but once Transportation Minister Marc Garneau did meet with producer groups, he apparently listened carefully and agreed with much of what was said.

Canada’s two major railways will likely be much less thrilled with C-49 because it would use the power of the state to offset the market power of their near duopoly.

The maximum revenue entitlement program will remain and be modernized. Railways will be credited individually for their capital investments. Previously the effect of capital investments by one carrier was shared equally when calculating the MRE.

Now if a railway buys grain hoppers, for example, it will fully reap the rewards in its own MRE.

New reciprocal penalties will mean railways will be charged for service failures, whereas in the past only shippers were penalized for contract failures.

Greater competition will be encouraged through longer interswitching provisions, to 1,200 kilometres in some circumstances.

The bill provides a definition of “adequate and suitable” rail service, which is important because previously, in any level of service complaint, the shipper had to argue its own definition, consuming time and resources and leading to inconsistent interpretation.

The need for transparency in grain transportation is addressed by a three-year extension of the grain monitoring program that produces data on rail and port performance.

Also extended is the Crop Logistics Working Group, a forum to exchange views and identify supply chain challenges and opportunities.

Of course, the details of the legislation must be examined before full satisfaction can be declared. Farm groups want clarification on the new long haul interswitching proposal and the formula that will be used for the maximum revenue entitlement.

And at the time of *The Western Producer’s* publication deadline May 19, there was no word on what had been another farm group desire — a full rail costing review.

The base line rail costs that are linked to the MRE process are long overdue for updating to recognize the great changes in the grain collection system, including elevator consolidation, branch line abandonments, more efficient locomotives and longer trains.

While the government’s carbon tax and proposal to eliminate deferred cash purchase tickets have met farmer resistance, this bill will likely be remembered as a major step forward in creating a fair and efficient grain transportation system for the 21st century.

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

CRAIG’S VIEW



BEE HEALTH

Our results indicate that the landscape’s composition significantly affected honeybee colony performance and development. Colony weight and brood production were significantly greater in AG (agricultural) areas compared to the NAG (non-agricultural) area.

UNIVERSITY OF TENNESSEE STUDY, PAGE 15

HUNGER AT HOME

Canadian food insecurity report shows need for national plan

CAPITAL LETTERS



KELSEY JOHNSON

It’s hard to believe that in a country like Canada, so many people still go hungry.

But they do, every day. The Conference Board of Canada recently released its annual provincial food report card. The report, in its second year, takes a look at various provinces’ food systems, including food insecurity figures.

The report found about four million Canadians are food insecure, while 15 percent of respondents admitted to going hungry at least once in the past 12 months because they didn’t have enough

money to eat.

Many of those going hungry are children.

Children living in single parent households were even more at risk. The report found 23 percent of single parent families reported they were moderately to severely at risk of going hungry.

One in three single parents in Nova Scotia and Saskatchewan said they had experienced being food insecure.

Three provinces were given D grades because residents were unable to feed their hungry children: Prince Edward Island, Saskatchewan and Nova Scotia. (Food affordability is a key concern in P.E.I.)

Head north, though, and the figures become even more concerning.

The conference board found one in four people living in Nunavut are food insecure — a crisis triggered by high food prices and its isolated location. It’s a situation,

the reports authors argued, that “needs remedial action.”

That number jumps to one in two, or 51 percent, when looking at indigenous Canadians.

At the risk of being blunt, those numbers are completely unacceptable in 2017.

Ottawa’s beleaguered Nutrition North program has been criticized for years. Critics say the program, which is supposed to deliver healthy and nutritious food to residents across the North, must be overhauled.

Photos of high prices and mouldy goods are routinely spotted on Twitter. After all, food prices in Nunavut alone are three times the national average. (For example: a bag of flour can often cost nearly \$14.)

During the 2015 election campaign, Prime Minister Justin Trudeau promised to reform the Nutrition North program and infuse it with \$40 million in new funding.

Ottawa formally launched consultations on the program in January 2016. Three months later the program was expanded to include communities in northern Ontario as part of the 2016 federal budget, along with a promise of \$64.5 million in funding over five years, starting immediately.

Whether that funding boost — and Ottawa’s reforms thus far — will be enough is unknown.

Canada prides itself on being a global leader, especially now, when so many around the world are turning to Ottawa for guidance on how to navigate the unpredictable waters of international diplomacy being churned up by Washington and others.

We’re routinely called upon to help deal with food crises in other countries and regions, including Venezuela, Syria and Africa. Those actions cannot stop.

But food insecurity here at home cannot be ignored either. If history is any indication, it’s a non-parti-

san problem that is not going to go away any time soon.

There are hungry Conservative voters and there are hungry Liberal voters.

Not one of them should be ignored.

And, in a country as well-positioned as Canada, children should not go hungry, period.

Ottawa has vowed to come up with a national food strategy for Canada. Conversations on that are expected to start soon, Agriculture Minister Lawrence MacAulay told the House agriculture committee this week.

What that strategy will look like remains anyone’s guess.

The Liberals campaigned on a promise to help Canada’s growing middle class.

Ensuring Canadians have enough to eat must be part of that plan.

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

& OPEN FORUM

PUBLIC PASTURES

Privatization could put grassland at risk

BY PUBLIC PASTURES
-PUBLIC INTEREST

The Saskatchewan government announced the end of the Saskatchewan Pasture Program in its March 2017 budget.

Public Pastures-Public Interest (PPPI) wants the public to be aware and have its say on the future of these lands.

The province's official position is that the pasture program has outlived its usefulness. The Ministry of Agriculture says the livestock community does not need community pastures anymore and the government should not be in the business of managing cattle.

Most cattle producers in the province seem to disagree, but even if the government position was true, cattle production is merely one public good among many that well-managed community pastures provide.

Light to moderate grazing keeps the land healthy. The other values that come from these lands — carbon sequestration, habitat for species at risk, protection of rare ecosystems in the province's Representative Areas Network, sites for research — are often best served by a system of management influenced by a sustainable and long-term public agenda, rather than short-term private interests of lease-holding producers.

More than three-quarters of the 780,000 acres in Saskatchewan pastures, especially in the south, are still in native condition. This type of land can be home to many species at risk, and long-established stands of non-native grass often provide important habitat too.

The Ministry of Agriculture is



The community pasture program protected native grasslands and species at risk, increased biodiversity and carbon storage capabilities, all of which could be lost if pastures are privatized. | FILE PHOTO

looking at options, which could include leasing the land to corporations of farmers and ranchers with livestock operations, but initial communications from the ministry said that it will also look into the possibility of selling some of the lands.

PPPI sees the closure of the pasture program as another step in privatizing Saskatchewan's grassland commons.

By removing public involvement and management of these lands, the province is giving up the infrastructure that could be used to do a better job of managing public grasslands for climate change mitigation and species recovery.

It is also exposing their carbon storage capacity, biodiversity and species at risk to the market forces and private interests that inevitably drive land-use decisions and lead to habitat erosion and fragmentation over time.

This can occur when good private

stewards retire and are eventually superseded by managers who push the land harder for short-term gain.

A community pasture management system gives government the ability to protect the commons for the long-term public good.

The grazing on these lands must be monitored to ensure preservation of the natural habitat. But the Ministry of Agriculture is unlikely to replace the 130 pasture management staff who are losing their positions with enough range-ecologist staff to properly support the private management of these ecologically critical public lands.

These lands and the system that manages them are crown assets as much as crown corporations. The only difference is that if land is degraded or plowed, the native prairie can't be restored.

Outside of the grazing season, they are accessed by hunters, naturalists, First Nations people, educators, writers and photographers.

Keeping them publicly owned ensures this kind of access will be retained.

The government is conducting a consultation with stakeholder meetings and an online survey.

Unfortunately, the survey doesn't ask the primary question: do people want the Saskatchewan Pasture Program to end?

The government could also take the opportunity to bring together for dialogue all those concerned about pastures: pasture patrons, environmentalists, First Nations and people who look forward to local, sustainably produced beef.

Public Pastures-Public Interest is a network of individuals and organizations supporting the preservation and sustainable use of crown pasturelands and grasslands in Saskatchewan and internationally.

TRUMP ON TRADE

NAFTA threats overblown?

EDITORIAL NOTEBOOK



BRIAN MACLEOD
EDITOR

The trajectory of the United States' comments on the North American Free Trade Agreement over the last few months has wavered so much that figuring out what's ahead is difficult. But President Donald Trump has one tendency that may show the way. More on that below.

Trump has long vowed to tear up NAFTA, calling it a disaster.

But by late January, Prime Minister Justin Trudeau said the Trump administration was "not overly preoccupied with Canada in terms of much of their protectionism and much of the rhetoric they put out."

In February, Trump noted that "we have a very outstanding trade relationship with Canada. We'll be tweaking (NAFTA). We'll be doing certain things that will benefit both of our countries."

But in late March a draft letter to Congress by acting U.S. Trade Representative Stephen Vaughn on NAFTA negotiations included "rules of origin," which is what we know as country-of-origin labelling. Then in April, farmers in Wisconsin complained that Canada had closed a trade loophole, leaving an oversupply of ultra-filtered milk south of the border. Trump then assured that "we're also going to stand up for our dairy farmers. Because in Canada some very unfair things have happened to our dairy farmers and others and we're going to start working on that."

Last week, U.S. Trade Representative Robert Lighthizer triggered a process that would see NAFTA negotiations begin later this summer. Lighthizer's letter to Congress mentioned farming twice, but only in passing.

"...we will continue to review elements of NAFTA and, where appropriate, update U.S. approaches to address challenges faced by U.S. consumers, businesses, farmers, ranches and workers in an increasingly global economy," it said.

Then, in the last paragraph Lighthizer writes, "we are committed to concluding these negotiations with timely and substantive results for U.S. consumers, business, farmers, ranchers, and workers, consistent with U.S. priorities and the negotiating objectives established by the Congress in statute."

While these words give reason to pause, they are far from the fighting words that Trump is infamous for.

Observers of the president note that he favours achievement over actual policy implications. If so, it may be that agriculture won't be subject to the heavy-handedness that some fear.

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REVENUE PROTECTION

Taking risks OK, but prepare for the next downturn

HURSH ON AG



KEVIN HURSH

The energy sector has had to adapt to the new reality of crude oil prices in the range of \$50 a barrel, when the assumed norm used to be the \$100 range.

What will agriculture do to adapt if and when the price range for canola becomes \$7 to \$9 a bushel rather than the \$10 to \$12 producers have come to expect?

Grain prices have been relatively strong for much of the last decade. Rapidly escalating land values have been a testament to the returns being generated.

There are ways to get into financial difficulty even with buoyant economic conditions, but a great deal of farm equity has been gener-

ated since the turnaround in grain prices that occurred around 2008.

Good profits have generated higher land rents, and most producers have made substantial investments in new machinery. Those who have been bold with land purchases and expansion have done well, but some highly leveraged operations would struggle if grain prices tumbled.

When grain prices are strong, crop insurance does a good job of mitigating production risk, and that's the case for the current growing season. However, if market prices were to plummet, crop insurance coverage for the subsequent growing season would reflect that new reality.

Crop insurance is production insurance. Revenue insurance is supposed to come through the much maligned AgriStability program, from which producers have opted out in droves.

At this point, no one seems to have any idea whether AgriStability will be revamped or replaced in the next agricultural policy frame-

work agreement. When grain prices are good, not much thought goes into farm safety nets.

In fairness, revenue protection programs, no matter how they are designed, will offer only short-term help. Government programs can't and shouldn't guarantee ongoing profitability in the event of a prolonged grain price downturn.

While no one can predict the future, it's probably naive to think that grain prices will always be this strong relative to production costs. Many analysts thought crude oil could never drop to \$50 a barrel and stay there.

It would seem equally naive to think that a world grain glut couldn't cut grain prices by a third or even by half for a prolonged time period.

That would cause all sorts of economic pain, and there would be calls for government assistance. The time for governments and producers to design a realistic and workable farm safety net is in advance of the next downturn rather than during the downturn.

For their part, producers should understand the limitations of what government can and should do to support farm revenue, and they should take measures to ensure their own economic viability.

Timing is everything in agriculture. If you're always cautious and guarding against the next economic downturn, it's difficult to expand. If you aggressively expand and overspend, you can be among the first casualties of a downturn.

The story about an expanding world population and an increasingly affluent middle class buying all the food we can grow is getting rather old. It's been repeated endlessly at farm conferences for years.

This isn't a prediction of impending doom. Grain prices aren't showing signs of crashing any time soon, but good times and sizable profits don't typically last forever.

Hope for the best, but don't count on it.

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*.

SASK. HEALTH CARE

To the Editor:

Health Minister Jim Reiter appears to have a recipe for reducing our provincial health-care spending. Unfortunately, it may not be a good recipe that Saskatchewan people will have an appetite for, as I don't think it will either improve or even maintain quality long-term care services in our province.

The first ingredient was to remove any commitment to safe staffing levels in our community nursing and special care homes. The Saskatchewan Party accomplished this in 2011 when it repealed the Special Care Homes and Housing Act. Although the previous mini-

mal care hours per resident were insufficient, upon repeal of same, our government effectively removed the minimum standard. In place, they established guidelines that are unenforceable and wholly inadequate. This has resulted in chronic unsafe staffing levels in long-term care.

As a second ingredient, the Sask Party government is in the midst of removing any notion of local control and autonomy in the delivery of health care services. This has been accomplished in the recent passing of the Provincial Health Authority Act. The provincial government will now be able to call all the shots when it comes to health care across the province, yet they will have one appointed board that they can blame when an individual

has a complaint.

If you analyze the workforce demographics in long-term care, it is obvious that the role of continuing care assistants is instrumental in the provision of hands-on care to residents — we provide the bulk of personal care to the residents. Yet, approximately 40 percent of CCAs (in Saskatoon Health Region) are over the age of 50 years and many have surpassed 25 years of service.

The third ingredient, therefore, is the Sask Party plan to reduce all health care workers' wages by 3.5 percent, thus putting all CCAs back to their 2014 rates of pay and holding them at these rates until 2021. This will ensure an exodus of those seniors who can qualify for pension benefits.

It is called forced bed closure in many (particularly rural) commu-

nities due to a shortage of qualified staff to manage long-term care resident needs. With the advent of one provincial health region, our family members who need long-term care may be placed in locations quite a distance from home and family. This puts many families in a position to consider private for-profit options as an out-of-pocket expense, which represents a savings to government as well.

As a CCA who has been working in long-term care for 46 years, I feel the need to share my perspective with others about the direction our government appears to be taking and how I see them transforming change in health care to provide fewer public options to the people of Saskatchewan. It's most unfair and will reduce access, increase our personal cost and create hardship for our families and our communities. We should all let our MLAs know that we share no appetite for this recipe.

Esther Dupperon, SEIU-West
Executive Board Member
Regina, Sask.

SUPPLY MANAGEMENT

To the Editor:

I write in response to Premier Brad Wall's comments in *The Western Producer*, April 13 edition. (Sask. Premier suggests supply management trade-off.)

It is most unlikely that the higher price for cheese in Saskatchewan groceries is solely the result of the dairy supply management system. Locally, grocery items vary widely over time and among the various outlets, even within the same network of stores. Columnist Tom van Dusen wrote in *Ontario Farmer* April 18, 2017, that he had bought cheddar cheese in a new local store at \$3.77 for a 450-gram block. I often wonder how a \$1.75 kilo of pork (farm price) is on our grocery shelf at as much as \$17.50.

High prices, whether for electricity, housing, automobiles or labour, affects low income folks to a greater degree than those with more substantive resources. I recently saw an F-150 pickup advertised for over \$96,000 — what portion of the public does that price eliminate?

Grains, hog and beef grow on my farm. None is under a supply management system. Prices for these commodities fluctuate frequently, and often widely. Planting expenses are now appearing for seed, fertilizer, fuel and repairs.

Hopefully, weather, pestilence and markets will be kind enough to supply enough revenue to cover these expenditures and leave some extra for family expenses. Producers of supply managed commodities have the benefit that their prices are steady so they can focus on productivity and cost management. Salaries are stable for a significant portion of Canadians. Supply management provides the same security for a portion of the farming population.

As for cheese, I find imported, European cheeses are priced well above Canadian product, as much as \$50 per kilo. Increased imports from Europe will not likely find their way to my kitchen.

Ed Pridham
Stayner, Ont.



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Crop Production Services 

ALBERTA MUNICIPALITIES

Improvements sought in grain bag recycling

Some landfills do not accept the plastic bags and burning them is illegal in Alberta because they release harmful toxins

BY BARB GLEN
LETHBRIDGE BUREAU

A number of Alberta rural municipalities are pondering ways to recycle grain bags and keep them out of regional landfills.

Cypress County and the County of Forty Mile in southern Alberta are surveying taxpayers to find out what farmers do with their used grain bags, how many they typically use and whether they think their municipality should assist in recycling efforts for the bags.

Cypress County is accepting used grain bags from farmers with the intention of shipping them to a recycler.

Wheatland County, east of Calgary, is going one step further. It has a bag-rolling machine that it takes to farms.

Agriculture fieldman Russell Muenchrath said the county first approached the problem by lending a machine to farmers so they could roll their own used bags and take them to a plastics recycler.

"It was kind of hit and miss when they would accept them. Cleanliness was a big factor," said Muenchrath.

"Ultimately, what we decided to do, as a service to our ratepayers, we would go out and start rolling the grain bags on farm."

County employees get permission from the landowner to access the land, where they collect and roll the bags. Once a substantial amount has been rolled, the plastic is taken to the recycler.

As of last month, Muenchrath said they had rolled about 400 bags since they began collecting them in 2015 and the county receives \$100 per tonne for the plastic.

"It's a service where we are getting funds from selling this plastic, so it's not a straight cost to the municipality," he said.

"It's working out really well. Producers appreciate it from a cost

standpoint. I think we're close to break even when you consider the cost it takes to landfill this plastic. There's a cost to that."

Farmers don't need to have a lot of used grain bags to warrant a visit with the roller.

"We'll kind of hit farmers that are in an area. We're looking at it as a service," Muenchrath said.

"If they have one bag and we're able to fit that in, we'll do that, rather than just waiting until they have a whole bunch pile up. The bags are cleaner if you can get them fresh off the extractor when they're hauling the grain."

The approach keeps used grain bags out of the Drumheller and district regional landfill, which is where at least some of the bags in

Wheatland County would likely end up.

Muenchrath said other municipalities have contacted him, seeking solutions to the grain bag disposal problem.

Wheatland has the advantage of having a recycler within its boundaries, which keeps transport costs in check.

Merlin Plastics sources the material and has a joint venture arrangement with Crowfoot Plastics, operated by the Green Acres Hutterite Colony near Bassano, Alta.

Crowfoot turns the plastics into resin pellets, which are then sold to other buyers and made into various products.

Darrel Wolski of Merlin Plastics said the company is working with

quite a few Alberta municipalities to accept used grain bags.

"We have a standard guide that we mail out to the farmers or the county that's doing it and then we work with each individual farmer or the county ... and then we make sure that the grain bags are rolled and meet our specs and then we can accept them," said Wolski.

Grain bags have been in use on prairie farms for decades as a cheaper method of storage, but dealing with them once they've been used has been an issue from the start. Burning them releases toxins and is illegal in Alberta, although some farmers have disposed of them in that manner.

"Producers want to do the right thing. If there's an option to recycle

it, that's obviously their preference rather than burning it or disposing of it in some way that isn't environmental or doesn't make sense to them," said Muenchrath.

A 2015 survey among Alberta municipalities about agricultural plastics showed used grain bags are not always accepted at landfills and there are a variety of barriers preventing municipalities, companies and farmers from finding markets for used plastics.

The survey also showed a strong interest among agricultural fieldmen in finding recycling options for used bags.

Survey results can be found at bit.ly/2qSgOir.

barb.glen@producer.com



FILE PHOTO

TRADE

Canada has nothing to fear in NAFTA negotiations: experts

BY ED WHITE
WINNIPEG BUREAU

Farmers might be scared of what renegotiation of the North American Free Trade Agreement could mean, but it could be a chance for Canada to fix and improve some problems, say a number of analysts and economists.

"It's an opportunity for us to become way more ambitious around trade, whether it's domestic or international," said Sylvain Charlebois, a Dalhousie university expert on Canada's food industry.

"We can actually use NAFTA as an opportunity to make internal commerce much more effective than it is now."

And for most farmers, it shouldn't be a source of excessive fear, others said.

"I don't see a lot of things to worry about," said Kevin Grier, a livestock markets analyst.

However, supply management industries are clearly in the U.S. president's crosshairs and will almost certainly face some additional shots, said economist Al Mussell of Agri-Food Economic Systems.

"We have to assume that the U.S. will probably want at least as much and probably more access ... to Canadian dairy, poultry and egg markets than they had secured in (the Trans-Pacific Partnership)," said Mussell.

Canada's agricultural exports to the U.S. and Mexico have multiplied many times since NAFTA was signed in 1993.

For 23 years NAFTA seemed a permanent feature of an integrated North American economy, but then Donald Trump was elected U.S. president and began speaking about renegotiating or even ending the agreement.

Canada's response has been to work quietly through diplomacy

and to work with trade allies to build support for NAFTA.

While many Democrats in Congress dislike or feel neutral about NAFTA, most Republicans are trade supporters who are unlikely to support moves to kill NAFTA.

If you can actually think of it as an opportunity you can actually come up with a really strong strategic model which can make the sector even bigger and stronger.

SYLVAIN CHARLEBOIS
FOOD INDUSTRY EXPERT

That was why Grier isn't too fearful about a NAFTA renegotiation.

"There's no real body in the United States (farm and food industry) that's very protectionist, with the

exception of R-CALF," said Grier.

Brian Innes, president of the Canadian Agri-Food Trade Alliance, said the chance to renegotiate could be a good thing.

"Clearly there are opportunities to make it work better, even though it has been an incredible success."

Innes told the House of Commons international trade committee that flaws and lingering irritations could be reduced in a reformed NAFTA.

He identified issues to examine:

- harmonization of pesticide maximum residue levels (MRLs)
- harmonization of farm chemical regulatory approvals
- removal of border disparities, such as the problems U.S. grain has being delivered to Canadian grain elevators and the extra inspection Canadian meat exports are subject to at the U.S. border

"There's huge opportunity when

it comes to regulatory alignment," said Innes.

Mussell said he too hoped to see more regulatory standardization come out of a reworked NAFTA.

Charlebois said if Canada gets it act together it could clean up both NAFTA and internal trade by embracing a strategic commitment to improving trade flow.

The same goes for supply management industries, he said. Rather than defending supply management as it exists now, Canada should consider reforming the system so farmers are still stable but also allows for more industry growth.

"If you can actually think of it as an opportunity you can actually come up with a really strong strategic model which can make the sector even bigger and stronger," said Charlebois.

"Right now it's just shrinking."

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SEEDING UNDER SUNNY SKIES | Tyson Scott of Scott Acres Farm fills up the cart to sow canola near Aylesbury, Sask. | MICKEY WATKINS PHOTO

MARKET ACCESS

More money needed for ag research: Senate report

The document urges Ottawa to stop talking and start spending on helping farmers get their products to global markets

BY BRIAN CROSS
SASKATOON NEWSROOM

A new report prepared by Canadian senators says the federal government needs to do more to support farm exports and ensure that producers and processors have better access to key international markets.

Among other things, the report calls on Ottawa to invest in grain transportation infrastructure, establish a renewal plan for the federal hopper car fleet, increase research capacity at Agriculture Canada and take steps to address costly non-tariff trade barriers.

All told, the document contains 18 policy recommendations and touches on a wide range of topics, including trade agreements, trade dispute resolution mechanisms, harmonized registrations of pesticides and biotech traits, the establishment of consistent maximum residue limits (MRLs), domestic research capacity, food safety, product branding, transportation

infrastructure and farm labour.

The report, *Market Access: Giving Canadian Farmers and Processors the World*, was released by the Senate's agriculture and forestry committee.

"Our farmers are some of the best in the world. They're only limited by the climate and their ability to get their products to market," said Terry Mercer, deputy chair of the committee.

"That's sort of what we wanted to tackle: what needs to happen to ... (make sure) our farmers ... are getting their products to market and to the customers who want them."

Mercer acknowledged that many of the recommendations contained in the report deal with issues that have been at the top of the ag industry's wish list for many years.

However, with global demand for food growing every year, it is imperative that Ottawa take action now.

"We've heard these same messages for years at the committee," Mercer said.

"It's time to stop talking and it's time to start doing."

According to the report, other steps that Ottawa should take include:

- establishing a national committee to monitor non-tariff barriers that affect Canadian trade
- pushing for more efficient dispute resolution mechanisms at the World Trade Organization
- developing a comprehensive national marketing strategy program that reinforces the Canada Brand in foreign markets
- reviewing immigration policy and the Temporary Foreign Worker Program to facilitate the industry's needs for farm labour
- improving transportation services that are available to agricultural shippers by ensuring greater reciprocity between shippers and railway companies

The report also calls for Ottawa to "adequately invest in grain transportation infrastructure" and "establish a renewal plan for federal hopper cars."

That may or may not mean Ottawa should spend money on tangible assets, Mercer said, but at least the government should have a plan in place and facilitate changes that benefit agricultural exporters.



TERRY MERCER
SENATOR

"The government isn't in the business of owning hopper cars these days," Mercer said when asked about hopper car renewal.

"Do we have the answer (regarding hopper car renewal)? No. But we need to talk about it."

Mercer's comments about research capacity at Agriculture Canada were more direct.

"Over the last number of years, our research capacity has diminished," he said.

"I'm hoping the new government will be putting more money back (into agricultural research)."

Brian Innes, vice-president of government relations with the Canola Council of Canada, said the canola industry was generally pleased with the report.

"It's very positive that the Senate is doing a report on what we need to do to grow the agriculture sector," Innes said.

"Market access is huge for the canola industry, so this attention is

helpful to articulate what we need to do to grow even more."

Innes said the report drew attention to both tariff and non-tariff barriers that negatively impact the Canadian canola industry.

For example, the absence of a formalized trade agreement with Japan means tariffs restrict the export of Canadian canola oil to that country, Innes said.

The lack of harmonized regulatory approvals for pesticides and biotech products is an important non-tariff trade irritant.

The canola industry has been pushing for a harmonized approval process that would see Canada and its trading partners approve crop input products simultaneously, but progress has been slow.

A harmonized approval process would help to address prickly questions pertaining to maximum residue limits in canola, Innes said.

It would also give Canadian producers access to the products they need without posing a risk to major export markets.

He pointed to quinclorac in canola and Manipulator in wheat as examples of asynchronously approved products that can disrupt trade.

Innes said international bodies such as the Codex Alimentarius Commission were set up to establish mutually acceptable chemical residue limits in agricultural commodities such as canola.

However, Codex is not a perfect system and there is room for improvements, he added.

"There is a lot of opportunity to make things (like Codex) work better," Innes said.

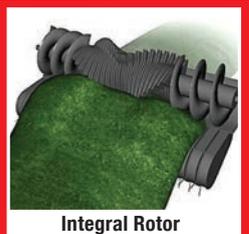
"So this report is helpful because it draws attention to how we can make that system work better."

Mercer said the Senate agriculture committee will be seeking feedback on its report from government departments and federal agencies, including the Canadian Food Inspection Agency.

"One of the things that we're going to do as a committee is hold government accountable for this report," Mercer said.

"We want them to come back to us and tell us what they've done."

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BEE RESEARCH

Bees dining on farmland thrive: study

American scientists determine that agricultural areas provide the best environment for honeybee performance

BY ROBERT ARNASON
BRANDON BUREAU

A recent study has determined that cropland benefits bees.

In a paper published in the *Journal of Economic Entomology*, University of Tennessee scientists, including lead author Mohamed Alburaki, compared beehives located in agricultural land to bee colonies in non-farming areas.

They found that bees that foraged on farmland thrived, and bees that foraged on non-farmland struggled.

“Our results indicate that the landscape’s composition significantly affected honeybee colony performance and development,” the paper’s abstract said.

“Colony weight and brood production were significantly greater in AG (agricultural) areas compared to the NAG (non-agricultural) area.”

Alburaki said in a University of Tennessee news release from early May that cropland provides more food for bees.

“Our study suggests that the benefits of better nutrition sources and nectar yields found in agricultural areas outweigh the risks of exposure to agricultural pesticides.”

The bees kept on non-agricultural land couldn’t find sufficient food, and two colonies in the experiment collapsed because of starvation, the news release said.

The findings might be of interest to the Ontario Beekeepers’ Association, which maintains that ne-



FILE PHOTO

nicotinoid insecticides, used as a seed treatment on crops such as corn, soybeans and canola, are a major threat to bee health.

In a statement released in March, the OBA encouraged the House of Commons agriculture committee to ban imidacloprid, a Bayer neonicotinoid.

The Pest Management Regulatory Agency has proposed phasing out imidacloprid because the insecticide may be hazardous to aquatic insects.

“The broad application of neonicotinoid pesticides like imidacloprid on field crops has been linked by PMRA to the decline in bee populations in Ontario,” the OBA said.

Our study suggests that the benefits of better nutrition sources and nectar yields found in agricultural areas outweigh the risks of exposure to agricultural pesticides.

MOHAMED ALBURAKI
SCIENTIST

“Bees are exposed to these highly toxic, water-soluble insecticides via contact with dust from planting, from pollen gathered from target and adjacent crops.”

However, the PMRA, the U.S. Environmental Protection Agency and the State of California released a joint report in January 2016 that said imidacloprid is not a threat to honeybees when used as a seed treatment.

“We did not have positive findings of risk for the seed treatment uses we assessed,” the EPA said at the time.

“Residue levels in pollen and nectar appear below the threshold for effects on honeybee colonies.”

The University of Tennessee scientists found pesticide residues in bee pollen, including imidacloprid, but at concentrations significantly below lethal

levels for honeybees.

The researchers concluded that exposure to pesticides from agricultural land didn’t compromise bee colony productivity.

“We train agricultural producers on careful selection and conscientious application of pesticides to reduce bee exposure,” said Scott Stewart, an integrated pest management specialist at the university.

“But it’s becoming more clear that the influences of varroa mite and food availability are more important factors in honeybee health than agricultural pesticides.”

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NATURAL PEST CONTROL

Biological control seen as combo tool with synthetics

BY ROBERT ARNASON
BRANDON BUREAU

With a price tag of nearly \$300 million to develop a synthetic chemistry, crop science companies have shifted research dollars toward biological pest control products.

However, company representatives don’t envision a future where biologicals replace chemistries.

They say biological products will be used in combination with chemistry and other tools.

“It’s challenging to come up with complete solutions, based on just biologicals,” said Wayne Barton, manager of research and commercial development for BASF Canada.

In 2016, Phillips McDougall, a British consultancy, released a report on the research and development cost to commercialize a synthetic crop protection product.

Phillips McDougall surveyed the major firms, including BASF, Bayer, Dow and DuPont, and found it costs \$286 million to bring a fungicide, herbicide or insecticide to market in 2010-2014.

It also takes, on average, 11.3 years to commercialize an agricultural chemistry.

With those timelines and costs,

crop protection firms are dedicating more R&D dollars to biologicals, which are described as natural micro-organisms that provide pest control or plant health benefits.

The survey found that by 2014, crop science companies spent 7.4



CROP SCIENCE COMPANIES SPENT 7.4% OF RESEARCH AND DEVELOPMENT FUNDS ON BIOCONTROL IN 2014

percent of R&D budgets on bio-control.

By 2019 that’s expected to hit 9.2 percent. Those figures don’t include acquisitions of bio-control firms or spending by smaller players that specialize in biologicals.

The industry may be investing hundreds of millions in biocontrols, but the products won’t push chemistry aside.

“We’re looking for the complementary,” said Paul Thiel, Bayer CropScience’s vice-president of product development and regulatory science, from his office in Calgary.

“In other words, can you use a biological in a program with synthetic chemistry and other things, to come up with the best solution for the customer?”

Bayer is selling a line of bio-fungicides, called Serenade, which is used on potatoes, vegetable and fruit crops.

The company is also promoting its use as a biological foliar fungicide for canola, pulse and bean crops.

Bayer makes it clear, on its website, that Serenade “works best” when used in a program with other chemistries.

Thiel said apple and potato producers use multiple applications of

fungicides to control things like apple scab and blight. A bio-fungicide could replace one of those treatments during the growing season to cut the likelihood of fungal resistance or extend the time between the last pesticide application and harvest.

Using a biological by itself isn’t realistic because the technology isn’t as effective.

“To achieve the equivalent level of biological activity, with a biological product versus a chemistry, we haven’t been able to do that in all cases,” Barton said.

“That doesn’t mean we don’t believe there’s a future there.... We’re certainly learning and investing.”

It seems logical that a biological could be effective on smaller organisms, like a fungi or an insect. But could they kill or suppress a 50 centimetre tall weed?

Thiel said it’s possible, but there are limitations.

“I would not exclude the potential for biological weed control,” he said. “But biologicals are extraordinarily targeted. You would never control broadleaf weeds, you may control a specific weed with a biological.”

There’s also the matter of how it’s applied. If growers have to use a

PESTICIDE RESISTANCE

Globally, hundreds of weeds, fungi and insect species have developed resistance to pesticides.

Weeds	251
Fungi	235
Arthropods	586

Source: staff research

huge volume of product, handling and applying the bio-control becomes a nuisance.

Thiel said urban markets, where jurisdictions are restricting or banning the use of synthetic pesticides, represents a new opportunity for biological products.

As well, there is the organic farming market.

“There is a role for exclusive biologicals as part of a program say in an organic production scheme,” he said.

Looking ahead, Thiel expects bio-control products will become more common in the mid term.

As for cost, he said research and development for biologicals is lower than synthetic pesticides.

“I don’t think it’s an order of magnitude less. But it is less.”

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FARMLIVING

FARMERS BEFORE THEIR TIME

A change in life circumstances meant settling into farming sooner than expected for a young Pincher Creek, Alta., couple. | **Page 19**



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FOOD PRODUCTS

Good things come in safe packages

Demands for fewer preservatives can mean a reduction in shelf life, freshness, appearance and flavour

KAREN MORRISON
RECENTLY ATTENDED THE SIAL INTERNATIONAL FOOD AND TRADE SHOW AND FILED THIS REPORT. SEE MORE ON PAGE 17.

TORONTO — Fewer ingredients in food products could mean a higher cost and shorter shelf life.

Carol Zweep, manager of packaging, food and label compliance at NSF International, said some ingredients are necessary for food safety and “product functionality.”

“There are a lot of chemical sounding names, but they have a function and sometimes can’t be substituted with something else,” she said.

Speaking at the SIAL show in Toronto, Zweep said bleached flour is enriched by ferrous sulfate, which adds iron to diets.

Nancy Dummer, a registered dietitian, said sometimes it’s all in a name, noting how chicory root sounds better than its other name, inulin.

When trans fats were removed from crackers and cookies, shelf life decreased until a new process was created, said Dummer. In addition, removing artificial colours leads to a different looking product.

Zweep said innovations in packaging food can reduce the need for certain ingredients.



CAROL ZWEEP
NSF INTERNATIONAL

Modified atmosphere packaging extends shelf life and hinders microbial growth by substituting air with a mixture of carbon dioxide and nitrogen. It can be used in baked goods, pasta and deli meats but at a higher cost, she said.



Consumers want fewer preservatives in food but they need to be prepared to pay for innovative packaging like vacuum-packed products in which air has been replaced with carbon dioxide and nitrogen to slow microbial growth. | KAREN MORRISON PHOTOS

A strong antimicrobial compound extracted from mustard and horseradish is currently used in label film in Japan.

Recent research has focused on the use of natural antimicrobials such as bacteriocins, enzymes and plant extracts.

Zweep said herbs such as rosemary are natural preservatives, while citric acid can be used to acidify food and MSG can be substituted with fish or mushroom sauce to enhance flavours.

Franco Naccarato, program manager with the Greenbelt Fund, said using high quality ingredients would eliminate much of the need for additives.

Cooking fresh ingredients daily would be the ideal but is not the reality.

“We have to realize that certain ingredients are needed,” he said.

“It’s a hard balance.... You want to have healthy food for us but also

want healthy food for our food system, too. It’s kind of a Catch-22.”

Added Dummer: “Consumers want it both ways and that’s where education is needed.”

She stressed the need for more food education for consumers, citing the proliferation of nutrition information from blogs and dubious sources.

“It’s a wild, wild west out there with social media,” said Dummer.

Bob Bauer, president of the Association of Food Industries in New Jersey, said the United States is currently working out the details of labelling genetically modified products and defining what constitutes “natural” products.

He cited the difficulties in declaring honey as free of GMOs.

“You can’t control where the bees go,” he said.

Citing Vermont’s recent legislation calling for GM labelling on food products that was overturned

federally last July, Bauer said one state determining rules for the whole country is not workable.

“We just need to all work together and come up with something and influence the legislation with something that is meaningful and something we can all live with.... We need to keep the zealots out at both ends and just work together.”

Tia Loftsgard, executive director of the Canadian Organic Trade Association, said no product can ever be GM free, but standards and minimums can be applied.

Whole Foods Market will require its suppliers to provide non-GMO certified products by the end of 2018.

“If organic has to do it, GM should have to do it as well,” she said.

Canadian consumers seeking transparency in the products they purchase will get help from the federal government’s Healthy Eating Strategies.



BOB BAUER
ASSOCIATION OF FOOD INDUSTRIES

That includes revisions to Canada’s Food Guide to provide credible dietary guidance. The marketing of low to no nutrition foods and beverages targeting children will be restricted and the public and industry will be asked to provide input on package labelling to help Canadians make more informed choices on ingredients like sugars, sodium and saturated fats.

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SIAL INTERNATIONAL FOOD AND TRADE SHOW

Food trends focus on health benefits

Consumers are looking for natural ways to enrich their diets

BY KAREN MORRISON
SASKATOON NEWSROOM

TORONTO — Tilapia ice cream may never win over fans of rocky road, but it offers a sweet way to add protein to the diet.

Developed by the Central Luzon State University and funded by the Department of Agriculture in the Philippines, the unique ice cream was one of thousands of products displayed and taste tested at the SIAL international food and trade show in Toronto in May.

Dana McCauley, executive director of the Food Starter consulting firm, advised against dismissing fads in health trends, citing the example of the protein rich Atkins diet as an example.

"You can get some insights that will echo forward," she said.

Registered dietitian Jane Dummer agreed, citing people's inclination to jump on fleeting trends toward certain foods or products for health.

"So when developing a healthy food product, you need to think long term," she said.

"When you do primary research, it's important to ask what they did, not what they will do," added McCauley, who noted how people often have "a willful blindness and a gap between intention and action."

Consumers are looking to food for additional health benefits and moving away from pharmaceutical and nutraceutical sources. That includes looking beyond meat and entrees into dessert offerings with extra protein such as seen in the explosion in demand for Greek yogurt.

Food with gut and bone benefits or rich in prebiotics are among popular choices.

"Everyone is looking at ingredients for new potential and looking at ingredients we didn't even think of in the past," said McCauley.

"There seems to be no limit to people's creativity."

For example, she said liquids are extracted from nuts to make dairy-like products such as cheese



spreads and drinks.

Food innovations range from algae, seeds, nuts and pulses to insects such as crickets and mealworms.

Dummer conceded insects might be a tough sell.

"I have to get my mind around the ick factor," she said.

Other trends include a focus on fibre, a concern about sugar, and a return to fats such as butter, which has seen an uptick in consumption.

"Science has debunked information about low-fat diets, low-fat products being good for us," said McCauley, who predicted that greater emphasis will be paid to dairy-based and saturated fat.

Also expect to see a greater focus on sugar with all sources to be listed on package ingredient lists.

Isabel Morales, consumer insights manager at Nielsen Marketing Research, said almost 60 percent of Canadians consider themselves overweight. Many are increasing activity levels and adjusting their diets to include more produce and water.

"They want to buy the items



Duane Ellard of Canada Beef, top, shows how to cut and prepare a Triple A Canadian striploin steak at the SIAL food trade show in Toronto in May, while chef Justin Cournoyer of Actinolite Restaurant, above, shared how to reduce food waste in the kitchen. | KAREN MORRISON PHOTOS

that haven't been touched too much," she said.

Morales said consumers are going back to basics, turning away from artificial flavours, sweeteners and colours.

She used jams, ice cream and

yogurt as examples, noting that growth numbers are down for lighter and low-fat, no-sugar versions and up for regular varieties.

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SIAL NOTES

FORK TO FIELD

TORONTO — Gone are the days when farmers and food processors brought their wares to market to sell.

Consumers are now directing what is provided, said Paul Uys, senior director of the University of Guelph's Food Institute.

"Now it's fork to field," he said. "It's coming from the market and pushing its way down."

He said consumers are used to a customized marketplace, where coffee is served according to their exact requests.

Speaking at the SIAL food show in Toronto, he said consumers are seeking antibiotic- and hormone-free meat and greater transparency in how food is produced.

"That influence is going down to the farmgate, rather than farmers saying we will provide whatever crop will be best this season."

Uys said food retailers will start working closely with farmers on what they require.

"It's coming from consumers who have an expectation," he said. "They want to trust where the products are coming from, and they have expectations that retailers will push that expectation down the supply chain rather than it coming up."

FOOD WASTE

TORONTO — About 40 percent of food in Canada is wasted, said Cher Mereweather of the Provision Coalition.

That translates into \$31 billion worth of food a year, or two percent of Canada's gross domestic product.

She said 47 percent of the waste happens in households and 20 percent in manufacturing and processing.

Her group's mission is to help companies reduce waste at the source by first reducing the amount of surplus food that is generated and then feeding the needy through donations of excess food supplies. The rest would be fed to animals through food scraps, anaerobic digestion would tackle industrial waste and landfills would be used only as a last resort, she said.

Mereweather said waste continues because it's considered a cost of doing business. A product with a labelling error cannot be sold, but is still safe for consumers and could be donated to feed vulnerable communities.

Wasted food ending up in landfills contributes to climate change by producing methane, she said, citing the three percent of Canada's national greenhouse gas emissions is the result of food waste.

Her organization provides a free audit to companies, waste disposal methods and offer ways to reduce product losses.

"It's about creating awareness so we can tackle it. Let's measure it and change it," said Mereweather.

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CANCER RESEARCH

Program studies Alta. plants to use as ammo against cancer

BY BARB GLEN
LETHBRIDGE BUREAU

The search continues for ways to treat the 202,000 Canadians diagnosed with cancer last year, and the many others affected before and since.

That search is taking place, in part, in the native grasslands of southern Alberta.

It's not a place many others have looked, said Roy Golsteyn, a University of Lethbridge researcher and head of the cancer cell laboratory on campus.

"The plants in southern Alberta had never been tested before for anti-cancer activity," Golsteyn told

a recent meeting of the Lethbridge Horticultural Society.

"Great expeditions have gone almost everywhere else on the planet to look, so it's very, very hard to believe that here, where I live, where I work ... that this had never been done."

He was instrumental in launching the Prairie to Pharmacy program, which has been in place since 2013.

Among its goals is to analyze prairie plants and identify chemicals that might be useful in the fight against cancer.

"All the important chemicals for food and health are in plants," said Golsteyn. "Of the prescription



Gallardia contains a chemical that is toxic to cancer cells

drugs, including those that are used in cancer therapies, actually half of them ... come from plants."

If cancer treatments are identified in some of them, farmers in southern Alberta have the exper-

tise to cultivate them, he added.

One of the best anti-cancer drugs made, based on a chemical called paclitaxel and marketed as Taxol, is derived from the Pacific yew, a tree that grows only in Canada and the northwestern United States.

Golsteyn and his research students have already examined golden beans, also known as buffalo beans, for their potential cancer-fighting properties and have recently turned their attention on wild gallardia or blanket flower.

Animals don't eat gallardia, likely because of certain chemicals the species contains.

Golsteyn said one of those chem-

icals is sesquiterpene lactone, reported to be toxic to cancer cells.

About 1,200 plant species native to southern Alberta have now been catalogued and for the purposes of his studies, he has eliminated any that also grow in other countries.

That leaves about 100 different native plant species, unique to the prairie ecological zone that he and his team have or will study. Forty-two of those have been analyzed for their chemical content, with 38 showing promise.

Since 2013, they have collected samples of these plants from public and private lands in the region.

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RECIPES

Everything's coming up rhubarb

TEAM RESOURCES



SARAH GALVIN, BSHEc

Fresh picked rhubarb dipped in sugar was a real treat in my childhood. Even with its tartness, it was enjoyed on a warm spring day after a long winter of eating mostly frozen or canned fruits and vegetables. The early shoots are tender but wilt quickly and need to be stored in the fridge and eaten within days. Keep the leaves on until you're ready to eat to keep it fresh.

RHUBARB BUTTERMILK LOAF

1 1/2 c.	all-purpose flour	375 mL
1 tsp.	baking soda	5 mL
1/4 tsp.	salt	1 mL
1	egg	
1 c.	brown sugar	250 mL
1/2 c.	buttermilk	125 mL
1/4 c.	vegetable oil	60 mL
1 tsp.	vanilla	5 mL
2 c.	rhubarb, chopped	500 mL
1/2 c.	pecans, chopped	125 mL
1 c.	icing sugar	250 mL
4 to 5 tsp.	lemon juice	20-25 mL

Preheat oven to 350 F (180 C). Lightly spray the bottom of an eight by four inch (20 x 10 cm) loaf pan.

Stir flour with baking soda and salt in medium bowl. Whisk egg with brown sugar, buttermilk, oil and vanilla in large bowl, then stir in flour mixture. Add rhubarb and pecans and stir until combined. Scrape batter into prepared baking pan. Bake in centre of oven until a cake tester inserted in centre of loaf comes out clean, about 70 minutes. Transfer to a rack to cool for 10 minutes before turning out of the pan.

Stir icing sugar with lemon juice in a small bowl, adding juice one teaspoon (5 mL) at a time until it is thick and smooth. Drizzle glaze over warm loaf, letting it run down the sides.

RHUBARB HAND PIES

Buttery Pie Crust:

1 1/2 c.	all-purpose flour	375 mL
1/2 tsp.	sugar	2 mL
1/4 tsp.	salt	1 mL
1/2 c.	chilled unsalted butter, cut into 1/2-inch pieces(1.2 cm)	125 mL



ABOVE: French rhubarb tarts, and below, rhubarb buttermilk loaf and hand pies. | SARAH GALVIN PHOTOS

Pulse flour, sugar and salt in a food processor. Add butter. Pulse until it is the texture of coarse meal. Add 1/4 cup (60 mL) ice water. Pulse, adding more water if dry, until dough comes together in clumps.

Form into a flattened square, wrap in plastic, and chill until firm, about two hours. Makes a single pie crust or eight hand pies.

When ready to use, roll out to 1/4 inch (6 mm) thickness. Cut into five inch (12.5 cm) circles.

Crust can be made three days ahead. Keep chilled. Let stand at room temperature 15 minutes before rolling out.

Source: Adapted from *Bon Appetit*.

Filling:

1 1/2 c.	rhubarb, chopped into 1/2 inch pieces (1.5 cm)	375 mL
1/2 c.	sugar	125 mL
1 1/2 tbsp.	all-purpose flour	22 mL
1/4 tsp.	salt	1 mL
1 1/2 tsp.	coarse sugar	7 mL
1	egg	

Toss rhubarb, sugar, flour and salt in a medium bowl until combined. Scoop two heaping tablespoons (30 mL) of rhubarb mixture onto centre of each round. Whisk egg and one teaspoon (5 mL) water in a bowl and brush edges of rounds. Fold dough over the filling to form a half-circle, pressing to seal. Crimp edges with a fork and prick the tops with a fork. Place on a baking sheet and refrigerate 20 minutes.

Bake at 375 F (190 C) for about 20 minutes or until lightly browned.



FRENCH RHUBARB TART

2 c.	thin rhubarb, chopped	500 mL
1	vanilla pod, seeds removed and reserved	
2 tbsp.	sugar	30 mL
	juice of 1/2 lemon	

Pastry:

1 1/4 c.	all purpose flour	310 mL
9 tbsp.	chilled unsalted butter	135 mL
1/2 c.	icing sugar	125 mL
1/4 c.	ground almonds	60 mL
1 large	egg yolk	
1/4 tsp.	salt	1 mL

Creme patisserie:

1 c.	whole milk	250 mL
4 large	egg yolks	
2 tbsp.	sugar	30 mL
1 tbsp.	cornstarch	15 mL
1 tbsp.	all purpose flour	15 mL
1/2 c.	whipping cream	125 mL

Cut rhubarb into one inch (2.5 cm) pieces. Put the vanilla pod, sugar, lemon juice and enough water to cover the rhubarb in a wide pan or shallow casserole set over a medium heat. Once the sugar has dissolved, add the rhubarb and simmer for two minutes. Remove from heat and leave to cool in the syrup, preferably overnight or for at least one hour so rhubarb will be cooked and hold its shape.

To make the pastry, put the flour, almonds, sugar and butter in a food processor. Pulse until the mixture resembles bread crumbs. While the motor is running, add the egg yolk. Dribble in about two tablespoons (15-30 mL) cold water, if necessary, to bring it together. Dump onto a work surface and knead briefly to form a dough. Wrap in cling film and chill for 30 minutes.

While pastry chills, make creme

patisserie. Heat milk and reserved vanilla seeds in a pan over a medium heat until nearly boiling. In a large bowl, whisk egg yolks, sugar and flours together until pale. Continue whisking while you pour the hot milk over the egg mixture. Strain the liquid back into the pan through a sieve.

Set over a medium-low heat and stir continuously until mixture has a thick custard consistency. Transfer to a clean bowl, cover the surface with cling film to prevent a skin from forming and chill for at least one hour or up to two days.

Remove pastry from fridge. If it is a little hard, leave it at room temperature to soften for 10 minutes. Press into six or eight individual tart tins, preferably the kind that has a removable bottom. Chill 30 minutes.

Heat oven to 400 F (200 C). Remove the pastry from the fridge. Bake for 20 minutes, or until light golden. Cool in the tin.

Strain rhubarb from the syrup and set aside. Return the syrup to the stovetop and boil until thick and sticky. Leave to cool slightly. To finish the creme patisserie, whisk the cream until it holds soft peaks and fold this into the chilled mixture. This is easier if you start by beating in a little cream and then folding in the remainder.

Remove the pastry from the tin and put on a plate. Fill with the creme patisserie and smooth over the surface. Carefully top with the rhubarb. Drizzle with the rhubarb syrup. Chill for 30 minutes before serving.

This tart will keep for three days in the fridge, but it is best eaten on the day it is made.

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.

SIDE-EFFECTS

Taking bone density pills

HEALTH CLINIC



CLARE ROWSON, MD

Q: I am 60 years old and female and have some borderline osteoporosis and low minerals in my bones. My doctor has prescribed Alendronate, which I am supposed to take once a week, but it gives me heartburn and makes me feel ill for a couple of days. Is it worthwhile to take it?

A: Alendronate or Fosamax and related drugs such as Risedronate-Actonel are known as the bisphosphonates. Two rare side-effects include osteonecrosis or bone death of the jaw and atypical fractures near the top of the femur were reported a few years ago.

It led to fear of these medications, resulting in large numbers of women abandoning the drugs altogether. A 2015 report in the *Journal of Bone and Mineral Research* stated that the rate of bisphosphonate use fell by half between 2008 and 2012.

"The perception of risk is so much greater than the actual risk," said Dr. Meryl LeBoff, director of the skeletal health and osteoporosis unit at Brigham and Women's Hospital in Boston.

She said access to good therapies can reduce the risk of osteoporotic fractures by 70 percent at the spine and 40 to 50 percent at the hip.

Statistics cited in a 2016 *New York Times* article show that for every 100,000 women taking a bisphosphonate, fewer than three will have osteonecrosis of the jaw and one will have an atypical femur fracture, but 2,000 will have avoided an osteoporotic fracture.

At one time, hormone replacement therapy after menopause played an important role in preventing osteoporosis, but now most women are no longer taking it due to increased risks of heart attacks and breast cancer with their continued use.

Women need to weigh the risks versus benefits with their doctor.

Denosumab (Prolia) is a newer medication shown to reduce the risk of osteoporotic fracture in women and men. As it is not from the bisphosphonate group, Denosumab could be used by people who are unable take a bisphosphonate, including those who suffer from poor kidney function.

Side-effects that you mention are common but usually wear off after your body gets used to the medication. This could take a few weeks.

Take the medicine first thing in the morning on an empty stomach and with a large glass of water. Stand up or at least sit up straight for about an hour after taking it. Do not eat anything for an hour because it will interfere with the absorption of the drug.

Your doctor could also recommend a monthly dose of medication if it is better for you.

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

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ON THE FARM

Ranching and rodeo with focus on family

Couple says the lifestyle and community values are something they want to pass on to their children

BY BARB GLEN
LETHBRIDGE BUREAU

PINCHER CREEK, Alta. — Bobby and Kaycee Peters and their daughter, Eva, are embarking on “the unfinished business tour” this year.

Bobby has set his sights on qualifying for the Canadian rodeo finals in bareback riding and is already on his way after winning that event at the Kananaskis Rodeo.

Kaycee, a registered nurse now on maternity leave, and Eva, will be travelling to rodeos too, when ranch work allows the time.

Ranching is a priority for the couple. They have 300 cows and own about two sections of land in southwestern Alberta. They also rent additional land in the area for grazing.

It's a scenic location in view of the Rocky Mountains and close to Waterton Lakes National Park.

Bobby grew up in the Pincher Creek region and ranching has been part of his family for generations. He and Kaycee moved to this ranch after they were married in 2013.

Though they are happy with their life, work and land, they didn't plan to start ranching quite so soon.

The death of Bobby's father, Clay, last year brought him home after he and Kaycee had worked in Calgary for a few years, he as a consultant in land rehabilitation and she as a nurse at Foothills Hospital.

Bobby's rodeo aspirations are the unfinished business he wants to complete while his skills for bareback bronc riding are still sharp.

“Our goal always has been to give our kids a ranching lifestyle, so we always wanted to be back here eventually, but I was thinking maybe in 10 years or something,” said Bobby.

Added Kaycee: “I think it was always Clay's plan, that was always his goal. His life's desire was to have something to give to his kids.”

Both of them mention the support from community after their loss. The neighbours baled hay for them last summer and that generosity is top of mind.

“Whenever I'm taking the strings or the net wrap off, I'm just so thankful,” said Bobby about the 10 or more families that helped.

Kaycee is also impressed with the community.

“We can't say enough about the support, family and friends that this community provides. It's truly amazing through anything like baling hay or bringing over food when you have a baby.

“It's pretty cool. It's values that you want to pass down to your kids, that's for sure.”

The ranch is a legacy, one they plan to preserve and conserve. On a day in late April, Bobby had just returned from checking the heifers. He and Kaycee have seven saddle horses, which are used for cattle handling work.

“When we're calving, I keep two horses in the corral every day and usually one of them gets saddled. It's just the best way to check for calves because you can be quiet. You're not spooking them.

“And then when you go to a branding, you might have a horse



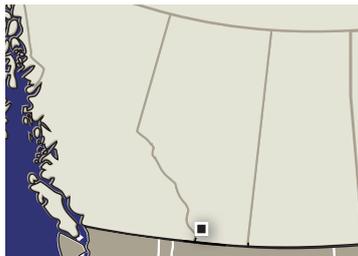
Kaycee and Bobby Peters and their daughter, Eva, raise Black Angus on an Alberta ranch. | BARB GLEN PHOTO

that's just a little bit broke.”

The herd is certified Black Angus, a designation that requires at least half of the genetics to be Angus. All the bulls are registered and over time they are breeding out the Hereford and Simmental influences from the past.

They keep and background all heifer calves and sell the lighter ones when the market looks right.

ON THE FARM



BOBBY & KAYCEE PETERS
Pincher Creek, Alta.

“We're keeping probably more replacement heifers than we ever have and that's kind of our goal. Now that we're getting these heifers and these young cows black, we're going to keep more and

more,” said Bobby.

They make enough hay to feed the cows through the winter but that's the extent of any farming involved in the operation.

“I think it's a goal for us now to maintain and improve, because we want to keep our numbers and keep them constant ... and put more money into the ones that we have too. We really enjoy that kind of stuff,” said Kaycee.

The couple met at Montana State University, where Bobby attended on rodeo scholarships earned through previous success in competition.

Kaycee grew up on a ranch in Montana so the lifestyle is familiar and comfortable.

“It's a blessing, that's for sure. It's pretty awesome. You get a better grasp of it when you actually have kids, too. I wouldn't want her anywhere else, so I'm very thankful for it.”

Baby Eva often accompanies her parents on ranch chores. Kaycee is ambivalent about returning to nursing because the operation requires a lot of attention.

“It's hard to run a ranch on your own, and you have days when you

need support. It's important for both Bobby and myself. We make a pretty good team out here. We've got to support each other on days when it's hard.”

They've developed a mission statement for their operation that lists long-term sustainability, conservation and environmental improvement as goals. Also on the list is using opportunities to be advocates for agriculture.

Striving for those goals while running a cattle operation make for a busy life and they are approaching it with caution.

Once the cows are out on grass this summer, rodeo travel can begin in earnest. Competition in about 40 rodeos is the plan.

“I'm also a realist. I don't want to be gone to the point where the neighbours have to feed the cows,” Bobby said.

For Kaycee, the rodeo circuit is an opportunity for some adventure.

“After the kind of year we've had, it's a fun thing for us because we can travel and camp and kind of get to go places we wouldn't normally get to go.”

barb.glen@producer.com

CONVERSING WITH OTHERS

Socializing comes easily for some, but for others it is hard work

SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

Q: I love watching my husband when we go out for an evening. He can walk into a room of strangers and by the time we are set to go, he has a number of them patting him on the back like they are long lost friends.

I can't do this. I have not yet been able to figure out what he does that makes him so attractive to others. If I understood what he is doing, I might be a little more comfortable with my own forays into a social world. I mostly sit and wait for the evening to end. Can you figure this out?

A: The trick is not just to watch but to know what you are watching. If he is with people he is not familiar with, he is not likely to

be brazen or brash, he is likely listening. People love it when someone is listening to them.

The more he listens, the more that strangers connect with him. He is on his way to making friends.

That must be a tremendous confidence maker. Most likely when he is at home, he might admit to being unsure of himself at times. But with the confidence he has when meeting people, he is different out there than he is at home.

Socially successful people do not worry about whether they are going to be liked by other people. They have some kind of innate confidence.

Compare that to those who struggle socially. They are often so busy wondering who is around who might possibly like them that they do not listen and therefore do not connect.

People who struggle socially do not have fun when they meet new people. Your husband does. The more fun he is having, the more that people are attracted to him and the more attracted they are to him, the more fun he has.

It is a delightful circle. My guess is

that if you also had more fun when you joined your husband in his

social enclaves, you too would find your share of companions.

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

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50 YEARS AGO

Wheat breeders told to focus on yields not quality

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 21, 1942

The National Dairy Council warned of a serious butter shortage before the end of the year unless butter prices were brought into a more "balanced relationship" with other dairy products.

The council recommended increasing butterfat prices by five cents a pound but didn't say whether it should be paid by a subsidy or an increase in the retail price of butter.

The federal government had been hoping Canadian farmers would double the number of acres they would seed to flax, but a seeding forecast by the Dominion Bureau of Statistics indicated that acreage would be only 537,100 acres more than the previous year, or a 54 percent increase.



Hay was harvested at the dominion government's Central Experimental Farm in Ottawa in 1892. | FILE PHOTO

50 YEARS AGO: MAY 25, 1967

G.N. Irvine, director of the Board of Grain Commissioners' Grain Research Laboratory, said high quality wheat was becoming less important and urged breeders to concentrate more on increasing yields in new varieties.

The federal and provincial governments agreed to spend \$85 million over the next 10 years to redevelop Manitoba's Interlake region. The project was the third big experiment in upgrading the standard of rural life under the Agriculture and Rural Development Act and the Fund for Rural Economic Development. The first two had been in New Brunswick.

25 YEARS AGO: MAY 21, 1992

Saskatchewan farmers fighting government changes to the Gross Revenue Insurance Plan won their first round in court. A judge extended the program deadline until a court could decide if the changes made by the provincial government were legal.

Prime Minister Brian Mulroney promised to strongly defend Canadian farmers' interests when he visited U.S. President George Bush in Washington. It sounded like he would be particularly focusing on American farm subsidies, which he said cost U.S. taxpayers billions of dollars, drove Canadian farmers out of business

and hurt the Third World. "They don't make any sense," Mulroney said. "These are the kinds of arguments we will be making."

10 YEARS AGO: MAY 24, 2007

There were different ways to approach the 2006 Census of Agriculture. Bob Friesen, president of the Canadian Federation of Agriculture, focused on fewer farms, older farmers, rising input costs, squeezed margins and increased off-farm work. "This does not look like an industry that is sustainable," he said. But Catherine Cromey, manager of the census for Statistics Canada, focused on bigger and more diversified farms, greater use of technology and a sharp increase

in the number of Canadian farms grossing \$1 million or more in 2005. "I would say this reflects a sector that is very resilient, considering the disease and weather problems the industry has faced," she said.

Farm equipment thefts were drawing so much attention that Keystone Agricultural Producers in Manitoba had begun including reports of missing equipment in the weekly updates it emailed and faxed to members. John Schmeiser, executive vice-president of the Canada West Equipment Dealers Association, said tractor thefts had been reported at consistent levels for the past three or four years.

bruce.dyck@producer.com

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ANTIQUE EQUIPMENT 0703

1949 FORD 8N, with blade, cultivator and post hole digger. Motor overhauled, painted, new tires and rad, \$6500. Middle Lake, SK, 306-367-2043.

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

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

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



1962 ALLIS CHALMERS D19 diesel, fully restored, new engine. Call 204-243-2453, High Bluff, MB.

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

1968 COCKSHUTT 1750, diesel, c/w Degelman blade, 4500 hrs., cab with heater and cooler, hydropower, asking \$5500. 306-536-4276, Grayson, SK.

CASE DC4 FOR PARTS, good front and rear tires, new rad, \$500. Call 306-768-2812, Carrot River, SK.

JOHN DEERE ENGINE off JD combine; Hercules engine off Nichols & Shepard combine. 306-868-4601, Trux, SK.

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

1952 JOHN DEERE 60 Good running condition. High boy model, asking \$3200. Email: mehall.hall5@gmail.com Eyebrow, SK.

ANTIQUE EQUIPMENT 0703

1953 COCKSHUTT 50, new rubber; 1946 Farmall M; 1940 LA Case. All parade ready. Call David 306-463-8018, Smiley, SK.

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ANTIQUE VEHICLES 0705

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

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.

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.

ANTIQUE MISC. 0710

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

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

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

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

ANNOUNCEMENTS 0200

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COMMUNITY CALENDAR

ALBERTA 0320

PONOKA JAM & CAMPOUT June 9, 10 & 11th, 2017 at Moose Hall (2 kms. South of Ponoka on Hwy 2a). 20\$/person for weekend - camping included. Bring your instruments and dancing shoes!! Jamming and dancing starts at 10:00 AM Friday. Meal tickets available for the weekend. **Band: Friday 7:00PM Steve Potter "Black Velvet". Saturday 7:00PM Jerry Goertzen "Country Gems"**. For more info call Lloyd 403-887-5677 or Gary 403-746-0057

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ANTIQUE AUCTIONS 0701
SHELL GAS PUMP, June 10th at 10:00 AM in Lestock, SK. Visit ukrainetnauction.com to view. 306-274-4667.

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

WESTERN ANTIQUES & Collectibles Estate Auction for Val Rothenburger & Prairie Moon Marketing. 9:00 AM, Saturday June 10th, Pasqua Hall, Pasqua, SK. 2 miles South of Junction #1 and #39 Highways. Viewing: 5:7:00 PM, Friday, June 9th. Saddles, tack, shoulder mounted bison, hall tree, Lincoln Coke truck; Coca-Cola collectibles including signs; Granite ware; Occupied Japan items, furniture, unused western bedding and decor, movie props & much, much more! www.2sauctioneers.ca has photo and details. Or call Tex 306-692-2515 or Brad 306-551-9411, www.2sauctioneers.ca PL# 333133

LIONS VULCAN SWIMMING Pool Raffle Early Bird- Prize \$1000; 2nd Prize- New 2016 Kawasaki Mule Pro-DXT. Retail value \$14,500. Early Bird Prize will be drawn on November 24, 2017. Main Draw on March 10, 2018. 1st Prize- HighRiver Ford. New 2017 Ford Focus SE Hatchback. Retail value \$22,245. Tickets available: from various businesses in Vulcan. From Vulcan Lions Club Members. Online: e-clubhouse.org/sites/vulcan By cheque made and mailed to: Lions Club of Vulcan, Box 717, Vulcan, AB. TOL 280. No cash in lieu, prizes to be accepted as awarded. Must be at least 18 years of age to purchase. Prize might not be exactly as pictured.

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AUCTION SALES 0900

SAT., JUNE 3, 2017 - 10:00A.M.
Farm Auction for Marlo & Lynda Iverson, Outlook, Sk. 10 m. N. of Junction of Hwy. 15 & 219, 1/2 m. W. on Sask River Church Road. Full line of older farm equipment, haying equipment, tools & shop items.

SAT., JUNE 10, 2017 - 10:00A.M.
Farm Auction for Brian & Betty Latsay, 5 m. E. of 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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FARM RETIREMENT Auction for Regan Wilkinson - Eddystone, MB. Thursday June 1st at 10:30AM. Featuring: 2013 JD 6125R MFWD tractor c/w JD H340 SL-FEL, bucket & grapple, 3PTH, all new tires; (2) JD 1830 tractors, 3PTH; JD 4230 tractor, 16 spd. quad shift; JD 4430 tractor, Fact duals; Universal 445 tractor, 3PTH (needs engine work); Universal 445, 3PTH (parts); NH BR780 and NH BR780A round baler; IH 4000, 20' SP swather; NH HW305, SP 16' MoCo; JD 3970 silage chopper, c/w grain & corn heads; Richardson 14' hi-dump silage wagon; Renn Stockmaster 1414 silage mix wagon, scale; Jiffy bale processor; 3PTH round bale fork; Viccon 1050, 9 wheel hay rake; Hay sweep with steel teeth; 2003 GMC 2500 ext. cab, gas, 4x4, safetied; 1997 F-250 3/4 ton, reg. cab, 8' box, XLT package, may be safetied; 2004 Norbert 24' tri-axle stock trailer, good rubber; 1988 GMC 7500 TC70042 truck c/w 14' steel B&H, silage gate included; 1979 GMC 7000, 350-582, c/w 16' steel B&H, Exc Regal scissor hoist, silage gate incl.; Older Ford cabover truck, c/w Steel B&H (suitable to make trailer); Chev #30 "step van" delivery van (as is); **Plus Much More!! Brought to you by Gartons Auction Service. See our website at: www.gartonsauction.com**

AUCTION SALES 0900



ONLINE AUCTION
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ONLINE TIMED AUCTION of Farm, Industrial Equipment, Vehicles & More! Bidding Opens 12 PM, Thursday, June 1. Bidding Closes 12 PM, Monday, June 12. On offer: 2012 JD 326D Skid Steer, shows 2625 hrs.; 1986 Spra-Coupe, Melroe 220, shows 766.8 hrs.; 1993 Great Dane 28' TA, Pup Spring ride barndoor w/Thermo King Reefer Trailer; 2007 Suzuki C50 Boulevard Motorcycle, shows 13,111 kms.; 2004 Ford F550 dsl. 2WD auto/OD, AM/FM/CD, PW, PDL, 12' deck, SK plated, runs and drives good. Items coming in daily! Deadline to consign June 1st. To Consign, call Brad 306-551-9411. Visit www.2sauctioneers.ca for more info. PL #333133

AUCTION SALE for Estate of John Liske of Russell, MB, July 29, 2017. Featuring mint 2 bdrm. 1036 sq. ft. cabin at Lake of The Prairies. Also exc. construction tools, household and antiques. Ukrainetz Auctioneering, 306-647-2661, Insinger, SK PL #915851. Watch for complete listing or visit www.ukrainetzau.com

AUCTION SALES 0900

AUCTION SALES 0900

AUCTION SALES 0900

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Roy & Darlene Isley
(2) Surface Material Leases - Selling as 1 Auction Lot of Industrial Real Estate
101± Acres w/Gravel Reserves on Leased Public Land - Elmworth, AB

Online Bidding Opens June 8
Closes June 15

Parcel 1 - PSW 31-68-11-W6 & PSE 36-68-12-W6
101± Acres - Gravel Reserves

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SML 00001 - 63.78± ac
Located on PSW 31-68-11-W6 & PSE 36-68-12-W6
SML 030058 - 37.26± ac
Located on PSE 36-68-12-W6

Property Details

Approximately 101 acres under two gravel extraction permits. Good all weather access roads. Pits have been opened up and actively operated, approximately 44,350 tons of crushed product available. Pits have no water problems and aggregate is dry material.



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From Elmworth, AB go 4 km (2.5 miles) West to Range Rd 120, then 12.9 km (8 miles) South. Road ends at gravel pits.

Open Pit Upon Request:
Contact Rick Wallan to View



SML 000013 - Pit 2

For more information contact:

Roy & Darlene Isley - Contact: 780.814.1200
Kiefer Smiley - Ritchie Bros. Territory Manager; 780.357.3659, ksmiley@rbaction.com
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Alfred & Eileen Combres
1 Parcel of Farmland - 161± Title Acres - Speers, SK

For more information contact:

Alfred & Eileen Combres - Owners: 306.246.4595
Brendan Kramer - Ritchie Bros. Territory Manager
306.441.6519, bkramer@rbaction.com
Brokerage - Ritchie Bros. Auctioneers Real Estate - Ed Truelove
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Online Bidding
Opens May 29 & Closes June 7



Bill & Brenda Halewich
768± Sq Ft Cabin, Title Lot - Cochin, SK

For more information contact:

Bill & Brenda Halewich - Owners: 306.441.7499
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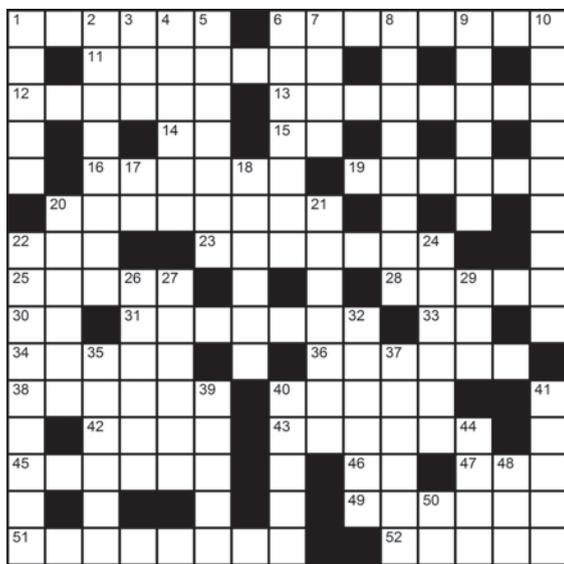
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Entertainment Crossword
by Walter D. Feener



Last Weeks Answers

ACROSS

- Casablanca director
- The dying alien planet in *This Island Earth*
- Jean Harlow's real first name
- 1969 western film starring Elvis Presley
- What the time machine is referred to in *Timeless*
- Initials of one of the stars of *F Troop*
- Initials of the actress who played Dianne in *Shaun of the Dead*
- He played "The Amazing" Yen in *Ocean's Eleven*, *Ocean's Twelve*, and *Ocean's Thirteen*
- General Sternwood's oldest daughter in *The Big Sleep*
- Winner of the most Best Director Oscars (2 words)
- Major ____ (sitcom that ran from 1989-93)
- Home (2 words)
- Birthplace of film director Youssef Chahine
- She was married to Kurt Voss
- Marshall who played Juror #4 in *12 Angry Men*
- His film *Eadweard* was nominated for a Canadian Screen Award in 2016
- Waldron who was one of the creators of *The Dukes of Hazzard*
- Elizabeth and Michael
- Fillion from Alberta
- Scott Pilgrim vs. the World director
- She starred in *Rocky*
- He plays Father Joseph (Father Brah) on *Crazy Ex-Girlfriend*
- Actor who starred in the four French action-comedy *Taxi* films
- 2008 Jessica Alba film (2 words)
- ____ Said, She Said
- Bette's conjoined twin on *American Horror Story: Freak Show*
- 2009 Canadian Sci-Fi drama film
- Dunsmore from Alberta
- He was the voice of Boris Badenov on *The Rocky and Bullwinkle Show*

DOWN

- 2009 Canadian/Czech horror film starring Daryl Hannah and Leah Gibson (with *The*)
- 1954 Elizabeth Taylor film
- ____ Angel (2001 Canadian drama film)
- Khan who played the adult Pi in *Life of Pi*
- Creator of the TV series *MacGyver*
- Alex and Jennifer's sister on *Family Ties*
- Australian silent film actress Bennett
- ____ Sweethearts
- Road to ____
- Bull co-creator
- Initials of one of the stars in *The Firm*
- She starred in *In America* with her sister
- Winner of the Academy Award for Best Supporting Actor for *Twelve O'Clock High*
- He played Remi Vogel in the Canadian horror film *Hellions*
- ____ Horizon
- He played Kyle Bates on *V: The Series* (1984)
- Where most of XXX was set
- She played the community announcer in *The Island*
- Taylor who played Alexandra in *Tangerine*
- Man of ____ (film directed by Keanu Reeves) (2 words)
- Terry and Hawthorne
- The ____ Life (2 words)
- Fox and Samantha Mulder's mother on *The X-Files*
- The Man from ____ River
- Director of the final four films in the Harry Potter film series
- Each Dawn ____ (2 words)
- Rogue ____: A Star Wars Story
- Mulholland ____

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MACK AUCTION CO. presents a large Equipment - Trucks - Vehicle - RV auction Saturday June 24, 2017 at 9:00 AM at Estevan Motor Speedway, Estevan SK. CONSIGN TODAY! Live internet bidding at www.bidspotter.com. 1999 Champion 740A grader w/front dozer and rear rippers; 2005 NH LS 185 skid steer, 2210 hrs.; 2003 Elgin Road Wizard street sweeper; 2015 GMC Sierra 2500HD Denali, dsl., 4WD, crew cab, 38,600 kms.; 2012 GMC Sierra 3500, reg. cab, 4WD, w/service deck and Amco-Veba 805 picker; 2011 GMC Sierra 3500 reg. cab, 4WD, dsl., w/service deck and Amco-Veba 805-3S picker; 2011 Ford F550, reg. cab, 4WD, dsl., dually, w/service deck and Amco-Veba 805-3S picker; 2009 Ford F550, reg. cab, 4WD, dsl., dually, w/service deck and gin poles; 2009 GMC Sierra 1500, ext. cab, 4WD, 75,600 kms.; 2008 Ford F350, reg. cab, 4WD, dsl., w/deck and Danco 805-3S picker; 2007 Dodge Ram, 4WD, dsl., dually, long box, auto. w/6.7L Cummins; 2006 GMC Sierra 3500, reg. cab, dsl. 4WD w/service box and gin poles; 2006 GMC 3500 reg. cab, 4WD, dsl., w/service deck and gin poles; 2006 Ford 150, 4WD, super cab; 2005 Chev Express 2500 Cargo Van; 2001 GMC Sierra 1500, 4WD, ext. cab, w/350 eng. and auto.; 1998 Dodge 2500, dsl., 4WD, 12 valve, club cab, long box, 5 spd. manual; 1989 Grand Caravan; 1993 Ford Ranger, 2WD, 66,326 km; 2004 Honda Fourtrax ES 350 4WD quad, 3937 kms.; 2008 Peterbilt PB340 TA dsl. gravel truck w/6 spd. auto.; 1988 GMC 3 ton w/582 trans., with oil tank w/spray bar and wand; 1979 Ford F700 tandem T/A grain truck w/429 eng.; 2013 PJ TA 30' gooseneck flat deck trailer w/beaver tail and ramps; PJ triple axle gooseneck flat deck trailer w/beaver tail and ramps; M&R Machines TA flatdeck trailer; 2011 7x13 Tarnel flat deck trailer; 2011 Tarnel flat deck 6x11 trailer; 2010 PJ flat deck 5x10 trailer w/ramp; JD D antique tractor; JD B antique tractor; 1952 GMC 1-ton w/B&H; 2012 Dixie Chopper 3674 zero turn dsl. mower; 2012 Dixie Chopper 2760 zero turn gas mower; 2003 Kubota F2560 front mount mower w/60" deck; MF 165 2WD tractor w/3PTH and FEL; MF 2135 2WD tractor w/3PTH; Cub Cadet HDS 2185 lawn tractor w/72 hours; 2-Arow C66 gas engines w/40 HP; Kongskilde grain vac; Buhler FarmKing 480 mobile seed cleaner w/16 screens; NH 971 24' straight cut header; Suckup propane grain aeration dryer; large assortment of shop tools; Plus much, much more! Consign today! Visit www.mackauctioncompany.com for more information or call 306-421-2928 or 306-487-7815. Like us on FB and get daily additions and news. PL #311962.

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 1-1984 Ford LTL 9000 Diesel c/w 20 Ft. Box & Hoist
 1-Kenworth 1989 T600 Diesel
 1-1989 Lode-King 32 Ft. Grain Trailer
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FARM & LIVESTOCK EQUIPMENT AUCTION

FOR KENNETH HALL ESTATE
 Beechy, Sk. (306) 747-3568
SATURDAY, JUNE 3 - 10:00 am.
 1 mile South of Beechy on #342 Hwy. to curve, 4 miles South, 1 mile West
 1998 JD 7810 MFWA Tractor, 4121 hrs. *2002 JD 6420 MFWA Tractor w/FEL, grap. fork *JD Bale Spear *2012 Dodge Ram 3500 1-ton Truck *Norbert 25' 5thWh F/D Trailer *Norbert 20' 5thWh Stocktrailer (Like New) *1979 Chev C70 4-Ton Grain Truck *30' Flexicoil 820 Air Seeder *60' Flexicoil System 95 Harrow Packer Bar *60' Harmond Field Sprayer *25' MM Cult. *26' IH 5000 Vibra Shank Cult. *18' Morris Seed Rite Hoe Drill *2 Haul Alls *Packers *14' NH 116 Haybine *22' Bale Wagon *NH 358 Mill *Brandt Bale Processor *JD 556 Rd. Baler *NH 273 Sq. Baler *Panels, Wind Breaks, Oiler, Troughs, Feeders *3 Pt. Ht. Linden Post Pounder *Bales *Bins *Aeration Fan *1987 JD 7720 Titan II pto Combine, 212 JD pickup *25' MF 35 pto Swather *18' MH pto Swather *Grain Augers *For Further info call Sara at (306) 747-3568. Machinery & Vehicles Sell at 2:00 p.m. Selling w/2 Rings.

FARM EQUIPMENT AUCTION

FOR BRIAN & BRENDA WOODLEY
 Briercreech, Sk. (306) 693-9495; (306) 631-0401
MONDAY, JUNE 5 - 10:30 a.m.
 6 miles North of Briercreech on #339 Hwy., 2 miles West, 1/2 mile South
 1990 JD 4755 MFWA diesel Tractor, 4632 hrs. showing *1982 JD 4440 diesel Tractor w/FEL *1997 GMC C8500 Top Kick 5-ton Tandem diesel Grain Truck, 49,738 kms. showing *1990 Ford F250 3/4 ton SLT Lariat Ext. Cab diesel Truck *2008 28' Cherokee Lite Bumper Pull Holiday Trailer *Port. Shaw Direct Dish *32' Case IH Air Drill *60' Flexicoil System 82 hyd. Harrow Drawbar *90' Flexicoil 62 Field Sprayer *36' JD 610 Cult. *10' Land Leveller *1996 JD 9500 SP diesel Combine *1997 30' JD 930 Flex Header *30' Honeybee Draper Header *Grain Augers *Grain Bins *Inline Aeration Fans *15' Schulte Gyro Mower *For further info call Brian at (306) 631-0401. Machinery & Bins Sell at 12:00 Noon.

LARGE WILDLIFE COLLECTION AUCTION

FOR KAREN BERG & THE LATE RALPH BERG
 Swift Current, Sk. (306) 587-7376
SATURDAY, JUNE 10 - 10:00 am.
 To be held in the Stockade Building at Kinetic Park, Swift Current, Sk. (1700 South Railway St. East)
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EUGENE AND RUTH CHORNEY Auction, Ukrainetz Auction. Farm Auction, Kelvington, SK., Sunday, June 4, 2017, 10:00 AM. Directions: From the railway tracks on the North end of Kelvington go 27 kms North on Hwy #38, 1 km West. Online bidding 1:00 PM. Contact: Eugene at 306-327-4631 or 306-322-7277. Machinery - Tractors: 1996 JD 6400, MFWD, 5800 hrs., w/640 SL FEL, grapple, 3 PTH, 3 hrs., 18.4x38 tires; 1985 MF 3545 FWA, 5100 hrs. 20.8x38 and 14.9x28 tires, 256 HD loader, used very little, new clutch - fall 2016; 1980 Case 4490 tractor, PTO, 18.4x34 duals, 5100 hrs; Allis Chalmers Model B. Combines: 1991 JD 9600, 2574 threshing hrs., heater, reverser, 2 spd. cyl. chaff spreader, 30.5x32 tires, shedded, vg shape; 1986 MF, 2500 hrs., w/24' straight cut header, 2 spd. cyl., shedded. Haying Equipment: 2- New Idea 486 bales; NH 116 haybine, spare knife and pads and hoses; bale wagon, 14-17 bales. Trucks: 1197 GMC C6500, 535,000 kms, flatdeck and bale hauler attach, wireless remote control winch, beaver tail and ramps, bottom end of motor has about 400,000 kms, new clutch done in spring 2016, brand new starter and water pump, Cat 3116 motor, 6 spd. trans., previously registered in SK; 1992 GMC Topkick 3 ton, 132,000 kms, 16' box w/roll tarp, previously registered in SK; 1984 GMC 1 ton, 350 eng., 4 spd., 17,000 orig. kms, previous reg. in SK; 1992 Mitsubishi mini truck, gas 660cc, 2x4, 4 spd. tranny, AC, heater, radio, S/N #U41T0111271, SK, certified, approx. 50,000 kms, sharp looking mini truck, previously reg. in SK; 1970 Int. D1000 1/2 ton, running, previously registered in SK. Plus swather, seeding, Cadillac Eldorado convertible, recreation items, misc. and shop. Auctioneers Note: Major equipment is in above average condition with many good hours left. Equipment was used on a small amount of acreage and also has been shedded. Visit: www.ukrainetzauction.com for updated listing and pictures. PL #915851.

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AUCTION SALES 0900



MACK AUCTION COMPANY presents a Large Collector Car - RV - Vehicle Auction Sunday June 18, 2017 @ 12 Noon for Derrick Big Eagle and guest consigner's. Directions from Carlyle, SK: 12 km East of Carlyle on Hwy 13. Open House Saturday Jun 17th to pre-register and view. Unbelievable collection of muscle cars and recreational vehicles. 1971 Plymouth Satellite Road Runner; 1970 Plymouth Valiant Duster, 1965 Ford Galaxie 500 XL; 1973 Plymouth Cuda; 1968 Chevrolet Camaro SS Coupe; 1970 Ford Mustang Fastback Boss 302 Tribute; 1968 Ford Mustang Coupe Survivor; 1965 Plymouth Valiant Barracuda Glassback; 2007 Ford Shelby GT Mustang Convertible, 8700 mi.; 1991 Volare Street Legal NASCAR; 1951 Hudson Hornet; 1931 Essex Rat Rod; 1974 Chev Camaro Z-28 Street Legal Drag Car; 2006 Jim Nasi Custom Chopper; 2000 Harley Davidson Road King, 3300 mi.; 2014 Custom Chopper; 1967 Chev C-10 Step Side Resto-Mod truck; 1987 Jaguar XJS Coupe; 1964 Oldsmobile 98 Custom Sport; 1962 Ford Thunderbird 2-door; 2008 Cadillac CTS 4-door Sedan; 1973 Cadillac Fleetwood Brougham 4-door car w/36,000 mi.; 1994 Chevrolet Corvette Convertible; 1975 Firebird Trans-Am; 1946 Dodge Custom 1 ton truck; 1995 Ford Mustang GT; 2001 Harley Davidson Deuce; 2004 Freightliner S/A Highway Tractor toy hauler; 2015 Polaris 800 Switchback ProX sled w/400 mi.; 2010 Ski-Doo TNT 500; 1998 21' Larson 206SEI fish & ski boat; 2011 Rainbow Excursion 14' dump trailer; 1995 Dodge 2500 12 valve Cummins truck w/flatbed; 2012 Arctic Cat 700 Prowler side by side w/931 mi.; 2013 Arctic Cat Wildcat side by side; 2006 Arctic Cat 650 side by side; 1975 Pontiac Grand Prix; 1997 Hurricane 34' motor home; 2015 Canadian Hauler enclosed sled trailer; 1996 Cajun Tournament Edition bass boat; 2 - 2008 Arctic Cat 700 EFI 4x4 quad; 2008 Arctic Cat 700 EFI 4x4 quad; 2015 Polaris 800 Pro RMX; 2009 Arctic Cat M8 Snow Pro; Ski-Doo Elite 2 seater snow machine; 2006 Arctic Cat 400 4x4 quad; 6 - unused Road Rat Racer go karts; Camoplast T4S quad tracks; 2006 Ford F150 King Ranch truck; NASCAR/dirt track race car video simulator; Master Spas 4-person hot tub & Michael Phelps Signature Series swim spa; 1979 Dodge Power Wagon; 1980 Chev Camaro Z-28 w/no eng.; 1990 Chev 1500 reg cab; 1983 Ford Mustang; 1999 Ford F250 7.3 Powerstroke dsl.; 1987 Chev Custom Deluxe truck; 1995 Chev 1500 4WD Step-side truck; 1990 GMC 4WD Suburban; 1986 Chev 1500 reg cab 4WD truck; 1979 GMC 3 ton flat deck truck; 1975 GMC C-65 fire truck; 2002 Dodge 1500 4WD truck. The following are parts cars: 1957 Chev 4 door; 1974 Trans Am Hobby Stock chassis; 1975 Trans Am chassis; 1973 & 1977 Camaro chassis; 1972 Satellite Sebring chassis; 1976 Chevelle Hobby Stock chassis; large selection of race car parts; 4 - used Shaw race car chassis; modified race engines 383-412 CID; Hoosier & American Racers 15" tires; race blocks & heads; MSD ignition boxes; 9" rear ends; race seats, springs & suspension parts; shopbuilt 30' TA gooseneck flatdeck trailer; race pit tool boxes; shopbuilt S/A utility trailer; S/A bumper pull horse trailer; Cytech 4-post mobile car lift; Model DP-7 7000 lbs. lift; Homak 2-pc. upright tool cabinet; Hot Rod Grills B8Q; Eagle upright air compressor; CIH 4690 4WD tractor; CIH 885 2WD tractor; CIH 2255 FEL; Vers 500 4WD tractor; Husqvarna YTH 2448 lawn tractor; FarmKing 3PTH 6' mower; Craftsman PT roto-tiller; UTV dozer blade; Remington 12 gauge double barrel shotgun; Husqvarna Vapenfabrik double barrel shotgun; plus much more! For new items and cars everyday, visit www.mackauctioncompany.com Or join 'Mack Auction Co.' on Facebook. Call 306-421-2928 or 306-487-7815 for more information. PL #311962

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WRECKING TRUCKS: All makes all models. Need parts? Call 306-821-0260 or email: junkman.2010@hotmail.com Wrecking Dodge, Chev, GMC, Ford and others. Lots of 4x4 stuff, 1/2 ton - 3 ton, buses etc. and some cars. We ship by bus, mail, Loomis, Purolator. Lloydminster, SK.

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SASKATOON TRUCK PARTS CENTRE Ltd. North Corman Industrial Park. New and used parts available for 3 ton trucks all the way up to highway tractors, for every make and model, no part too big or small. Our shop specializes in custom rebuilt differentials/transmissions and clutch installations. Engines are available, both gas and diesel. Re-sale units are on the lot ready to go. We buy wrecks for parts and sell for wrecks! For more info, call 306-668-5675 or 1-800-667-3023. www.saskatoontruckparts.ca DL #914394

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AUTO/TRUCK PARTS 1100

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ONE OF SASK's largest inventory of used heavy truck parts. 3 ton tandem diesel motors and transmissions and differentials for all makes! Can-Am Truck Export Ltd., 1-800-938-3323.

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Misc. TRAILERS 1515



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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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.

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TRUCKS

NEWEST TO OLDEST 1595

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.

FOUR WHEEL DRIVE 1670

2013 F150 KING RANCH, 76,000 kms, 4x4 Eco-Boost, loaded, mint cond., factory powertrain warranty til Sept./18. All taxes pd, \$35,900. 306-837-2374, Loon Lake, SK

WANTED: 1987-1996 FORD F-150 automatic 4x4 gas truck in good running condition. Call 403-318-8135, Delburne, AB.

GRAIN TRUCKS 1675

10+ TANDEMS: Standards & Automatics, \$46,000 and up. Yellowhead Sales, 306-783-2899, Yorkton, SK.

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.

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.

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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GRAIN TRUCKS 1675

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GRAVEL TRUCKS 1676



2000 VOLVO WG64F, 14' gravel box, Volvo VED12-345 HP, 10 spd, 18,500 frts, 46 rears, 4-way lock up, 495,000 kms, \$12,900. Norm 204-761-7797 Brandon MB

2012 IHC TRANSTAR, low pro, Max 300 HP diesel, Allison auto. trans., single axle, loaded cab, 13' Armstrong landscape dump, \$39,900; **2010 CHEV 1 ton** dump truck w/10' gravel dump, \$14,900. **K&L Equipment and Auto.** Call Ladimer, 306-795-7779, Ituna SK. DL #910885.

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

ATTENTION GRAVEL HAULERS: 6 tandems in stock, 1998-2007; 2013 Candace 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.



2001 FL80 S/A tractor, 300 HP, 3126 Cat, 5 spd. Allison auto, nice unit, only 360,000 kms, fresh safety, \$25,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2001 PETERBILT 378 Tandem, 18 spd., Eaton 46 rears, alum. front bumper, 478,000 kms, \$30,000 OBO. 780-983-0936, Clyde, AB.

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

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



2010 IHC PROSTAR Premium trim, new factory drop in 485 HP Cummins with warranty, new clutch, new 245 drivers, 18 spd. full lockers, Jake, only 850,000 kms, fresh safety. Cam-Don Motors Ltd., Perdue, SK. 306-237-4212 ask for Kevin or Scott.

2010 PETERBILT 455 Cummins, 18 spd, 40 rears, super high rise bunk, 900,000 kms, \$26,000 OBO. 780-983-0936, Clyde, AB.

2011 KENWORTH T800 550ISX, 18 spd., 3.91, Super 40s, GPS, full lockers, 814,000 kms., \$58,900. 306-921-7721, Melfort, SK.

VARIOUS 1685

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2008 GMC C7500 REGULAR CAB 8.1L V8 Allison, 2300 Series, 5 spd, Driver Seat w/air Suspension, Air, Cruise, Tilt, Pwr Door Locks, Pwr Mirror, Electric Air Compressor, Dual Fuel Tanks, Traction Control, Dual Note Electric Horn, AM/FM Radio, 8.5x16x55" CIM Box & Hoist, Roll Tarp, White, 32,723Kms
Stk#M7220B \$44,995



2006 WESTERN STAR 6121 TRI AXLE Detroit 6Cyl, 14.0L, 475 H.P. 18 Spd Full CV 60 Series, Loaded, 8 1/2'x24'x65" Ultra 2 CIM Box, K-110 Harsh Hoist, Michells 24' Electric Tarp, Airshift PTO, Remote endgate & Hoist, 11-24-5 Tires, Aluminum Wheels, Led Clearance Light, Grey Box, 632,505Kms, Stock#M7272 \$74,995

2001 INTERNATIONAL 9100 SERIES C-12 CAT 375-450HP 10 SPEED FULLER TRANS Air ride seats, Pwr Passenger Window, Trailer, Castleton 36 Foot, Dual Openers, Side Chutes, Aluminum Grain Trailer, White, 530,000Kms, Stk#G1440A \$64,995

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VANS 1700

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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.

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ALLIS CHALMERS ROAD GRADER, 14' moldboard, \$6000. Phone 306-642-8111, Assiniboia, SK.

2004 CAT D6N dozer with 6-way blade and ripper, \$78,000. Call 204-871-0925, MacGregor, MB.

SKIDSTEER: 2008 CASE 465 Series III, cab, heat, new tires, 2700 hrs., \$21,000. Call 306-940-6835, Prince Albert, SK.



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.



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2008 CIH MAGNUM 275

MFWD, 3182 hrs, PTO, LH rev, powershift, weights, rear duals..... **\$12,800**



2009 MD FD70

40' flex draper, transport, pea auger, AHHC, header fore/aft, new knife and guards..... **\$54,800**



TRACTORS



2004 JD 9620T
500 HP, 36" tracks in 70% cond, 4 hyds, 3PH, 9798 hrs, clean & well maintained..... **\$109,800**

2007 DEGELMAN 6600
14', 2 way hyd control, fits CNH 275-335 HP 4WDs, excellent condition..... **\$7,900**



2008 CIH 535 QUAD TRAC
535 HP, 5204 hrs, 16 speed p/s, weights, 30" tracks, front tracks NEW, nice cab.. **\$182,800**

LEON 2530
12', 6 way hydraulic blade, very little use, off Farmall 140A, can be made to fit other tractors..... **\$8,980**

SEEDING



2007 BOURGAULT 5725 SERIES II
47' coulters drill, 9.8" spacing, single shoot, MRB, NH3..... **\$29,800**

1998 JD 1900
350 bu, 6 run, double shoot, tow behind, 8" auger, clean unit..... **\$17,900**



2013 SUMMERS 2510DT
18' tandem diamond disc, 23" notched discs, very good condition..... **\$18,900**

GARWOOD IND. PULL SCRAPER
12 yard, hyd. control, 9' cut width, forced injection..... **\$16,900**

COMBINES



2010 JD 9870 STS
1715 hours, Contour Master, bullet rotor, nice condition, pickups available..... **\$148,800**

2011 JD 615P
16', header and pickup, nice belts, auger & floor 80%, overall very good condition..... **\$19,800**



2009 NH CX8080
1556 hours, AHHC, lat tilt, Intelliview 3, long auger, very good cond, pickups available..... **\$147,800**

2000 CAT LEXION 465
2542 hours, tracks 75%, RWA, Cebis, AHHC, 2 spd cyl, pickups available..... **\$64,800**

HEADERS



2010 HB 88C
Flex draper, 36', Ull PUR, DKD, hyd F/A, runs well..... **\$29,800**

2010 MD D60
40' swather header, DKD, transport, new knife and guards, good condition..... **\$22,800**



NEW MD PW8
16' pickups for CNH & JD, trades wanted!..... **\$29,800**

2011 AGCO 4200
16' header \$11,900 or \$19,800 with Swathmaster pickup, header height control, very good condition..... **\$19,800**

MISCELLANEOUS



2012 HOULE GEA EL48-6D6100
Liquid slurry spreader, 7300 gal, hyd. power steering, extended hopper, 28L-26 tires..... **\$59,800**

2001 INGERSOLL-RAND SD70F
Padfoot packer, 2902 hrs, 3.9L Cummins, 66" Drum..... **\$32,800**



2013 WACKER NEUSON 750T
164 hrs, telescopic wheel loader, Deutz 60 HP turbo, 4WD, 4 wheel steer, excellent condition. **\$73,800**

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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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\$34,995

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STK# SK-U01834
6 Speed Auto, 5.7L V8,
White with Grey interior,
43,441 Kms

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STK# SK-S3976A
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Blue with Black interior,
37,614 Kms

\$33,495

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White with Black interior,
76,330 Kms

\$28,995

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5 Speed Auto, 3.6L V6,
Black with Black interior,
134,744 Kms

\$19,995

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STK# SK-S4427A
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Black with Black interior,
58,907 Kms

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 Twin Wing, SP Packers, DS Dry, 800 TBH Tank, Auger, Bag Lift, Viper SCT Monitor, Stk: 017842; (SA)



\$132,000
2010 SEEDMASTER 72-12 AIR DRILL
 JD 1910 Air Cart, 3 Tank Metering, Stk: 020958; (SC)



\$488,000
2015 CASE IH PATRIOT 4440 SPRAYER
 120 Ft, 320's & 710's, AIM Pro, Pro 700 Monitor, Accu-guide, Stk: 019638; (ME)

COMBINES

- 2016 Case IH 9240** 620 Duals, Lux Cab, Lat Tilt w/Rocktrap, Accuguide, 50 Ft Folding Unload, Magnacut Chopper, HID Lights Stk: 022940 (SC) **\$499,000**
- 2016 Case IH 8240** 520 Duals, Lat Tilt, Rocktrap, Ext Wear Rotor, Standard Chopper, Deluxe Cab, Leather Seat, Trailer Hitch, Pro 700, Accuguide Ready Stk: 022147 (SC) **\$425,000**
- 2014 Case IH 7130** 800 Singles, Deluxe Cab, Lateral Tilt, Extended Wear Rotor, Electric Folding Hopper Cover, Chopper, Yield & Moisture Stk: 014705 (SA) **\$279,500**
- 2012 Case IH 7230** 520 Duals, Lat Tilt, Ext Wear Rotor, Hyd Folding Cover, Std Chopper, HID Lights, Accuguide, Air Compressor Stk: 021503 (PA) **\$269,000**
- 2010 Case IH 8120** 900 Singles, Leather Seat, Ext Wear Infeed, Fine Cut Chopper, HID Lights, Accuguide, Small Tube Rotor Stk: 018938 (SC)..... **\$205,900**
- 2010 Case IH 7088** 800 Singles, Lateral Tilt, AFX Rotor, Chopper, Yield & Moisture, Trailer Hitch, New radiator, 1200 Engine & 900 Rotor Hours Stk: 017933 (SC) **\$182,000**
- 2001 Case IH 2388** Long Auger, Specialty Rotor, Chopper, SwathMaster Pickup Stk: 021973 (LL) **\$89,000**
- 2006 Case IH 8010** 14' CIH 2016 Pickup, 520 Duals, Rocktrap, Pro 600 Monitor, Std Rotor, Maurer Topper, Fine Cut Chopper, Long Auger Stk: 021412 (ME) **\$155,500**
- 2014 John Deere S670** 520 Duals, 28L Rear Tires, Autoguidance, Fine Cut Chopper, HID Lights, 615 Pickup Header Stk: 022003 (SA)..... **\$375,000**
- 2010 John Deere 9770STS** c/w JD 615 Pickup, Deluxe Cab, Bullet Rotor, Long Auger, Fine Cut Chopper, 2600 Monitor, Hopper Topper, Steer Ready Stk: 022038 (ME)..... **\$245,000**
- 2006 New Holland CX860** c/w 76C Pickup, Duals, Redekop Chopper, Diff Lock, Small Grain Combine, Yield and Moisture Stk: 021870 (LL) **\$134,900**

AIR DRILLS

- 2012 Bourgault 3320** QDA 66 Ft, 10 In Spacing, C/W L6550 Tank, Midrow Banders, NH3 Kit, Duals, CRA 591, Dual Fan, Deluxe Auger, Double Shoot Dry Stk: 023175 (SA) **\$295,000**
- 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 **\$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**
- 2013 Seed Hawk 60-12** 60 Ft, Twin Wing, Semi Pneum Pckrs, Dbl Shoot, SH 800 TBH, Sect Control, 10" Auger, Bag Lift, Viper SCT monitor Stk: 017840 (PA) **\$335,000**
- 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**
- 2010 SeedMaster 72-12** 72 Ft, 12" Spacing, JD 1910 Air Cart, 3 Tank Metering Stk: 020958 (SC) **\$132,000**
- 2004 SeedMaster 50-10** 50 Ft, 10" Spacing, Duals Front And Back, Liquid Kit, Triple Shoot, Single Knife, No Cart Stk: 019856 (PA)..... **\$59,000**

TRACTORS

- 2015 Case IH Steiger 500 Quadtrac**, PTO, 6 Remotes, Luxury Cab, HID Lights, Hi Cap Hyd, Tow Cable, Accuguide, Pro 700 Monitor, 372 Receiver HP/XP Stk: 020528 (SA) ... **\$525,000**
- 2015 Case IH Steiger 540** Triples, Diff Lock, Hi-Cap Pump, Full Hyd GPS w/ Pro 700, 4 Remotes, Tow Cable, Front Weight Bracket, 284 Hours Stk: 019374 (SC)..... **\$384,500**
- 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**
- 2013 John Deere 9560R** Triples, Wheel Weights, Rear Weights, JD Steering c/w Receiver & Monitor, Dual Hyd Pumps, 5 Remotes, Xenon Lights, Tow Cable Stk: 020587 (ES) **\$400,000**
- 2014 New Holland T9.700** Michelin 800/70R38 Duals, Full Weight Pkg, Luxury Cab, HID Lights, Twin Hyd Pumps, 6 Remotes, Autoguidance Stk: 019952 (SC)..... **\$459,000**



\$75,000
2007 FLEXI-COIL 5000HD AIR DRILL
 57 Ft, Double Shoot, 2010 CIH 3430 TBT VR Cart, Dual Fans, Stk: 020648; (ES)



\$350,000
2013 CASE IH 9230 COMBINE
 3016 PU Header, 620 Duals, HID Lights, Hyd Hopper Cover, Magnacut X-Fine Chpr, AccuGuide, Stk: 021990; (ES)



\$475,000
2015 CASE IH 4440 SPRAYER
 120ft, Aim Command, Autoboom, Accuboom, 320's & 620's, Stk: 023061; (SC)

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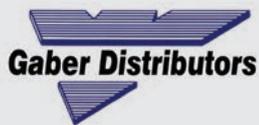
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2011 BUHLER FARM KING 16-104 Auger, hyd. swing out, low hrs., exc. cond., can deliver, one owner - selling due to buying new equip., \$29,000. Call 204-743-2324, Cypress River, MB.

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JOHN DEERE 956 MOCO Discbine w/flails, exc. cond., new in June 2008, field ready, \$19,500. 306-867-6511, Conquest, SK.

SWATHERS 4145

2013 JD W150, c/w 35' header, double knife, double reel, 650/500 hrs., exc., \$135,000. 780-679-7795, Camrose, AB.

25' U2 PU REEL on 1986 IH 4000 swather, good condition, \$4500; IH 4000 parts swather. 306-867-6511, Conquest, SK.

2015 JD W150 435D, PU reel, fore/aft, double knife drive, hydraulic tilt, free form roller, integrated GPS, 147 engine hrs. Call 306-537-9636, Riceton, SK.

2008 NH H8040 SP windrower, 36', PU reel, fore/aft, Roto-Shears, rear axle susp., 920 hrs., pea auger, \$67,500. Can be seen at Shoal Lake Farm Equipment, Shoal Lake, MB. Call Ron at 204-895-1064.

1996 MF 220 SP 26', 1970 hrs., sliding table, diesel, UII PU reel, very good, asking \$21,000. 306-648-7518, Gravelbourg, SK.

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COMBINES

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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

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 sower, 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

ATTENTION

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., \$195,000 OBO. Call 780-205-4423, Lashburn, SK.

1990 JD 9500, 4100 eng. hrs., 912 PU header, many new parts, harvest ready, \$22,000 OBO. 306-946-7928, Watrous, SK.

4 JD COMBINES: 2010 T670, 966 sep. hrs., PU header, GPS; 2009 T670, 1178 sep. hrs., GPS; 2004 9760 STS, 2186 sep. hrs.; 2001 9650 STS, 2314 hrs. All owned 4+ yrs., yearly maintenance records. Also selling 4 JD 630F headers. Call for price. 780-934-6384, Fort Saskatchewan, AB.

SEVERAL LOW HOURS, 9770, 9870, S670, S680, S690 available options. Headers and delivery. Save \$\$\$! 218-779-1710.

JOHN DEERE 7721 Pull Type, 212 PU, open to reasonable offers. 306-867-6511, Conquest, SK.

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.ca Call 320-848-2496 or 320-894-6560.

2006 9660 WTS, 914 PU, duals, 2300/1550 hrs., \$132,500. A.E. Chicoine Farm Equipment 306-449-2255, Storthoaks, SK.

2000 JD 9750-STs, 2980 separator hrs., 3966 engine hrs., w/dual wheel kit, \$60,000. 306-896-2311, Langenburg, SK.

WHITE 4190

WHITE 8900 SELF PROPELLED combine, 2100 hrs., open to reasonable offers. 306-867-6511, Conquest, SK.

COMBINE ACCESSORIES

COMBINE HEADERS 4199

2000 MACDON 972 draper hdr, 36' adapter to fit JD 50 series and 9600, good cond., \$22,000 OBO. 306-483-8691, Alida, SK.

COMBINE HEADERS 4199

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.

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.

1999 AGCO 800 flex platform, 30', PU reel, poly skids, fore&aft, reconditioned, \$17,900 Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.



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.

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.

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

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.

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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.

JD 930 DRAPER header, c/w PU reel, new pea auger, built-in transport, prem. cond., limited use. 403-823-1894, Drumheller, AB.

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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.

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 Walkedden, 306-861-6849, 306-861-7822, Tribune, SK

2002 JD 930F flex platform, 30' flex, single point, F/F auger, PU reel, poly skids, fore&aft., reconditioned, \$19,900. Reimer Farm Equipment, Gary Reimer, 204-326-7000, Hwy. #12, Steinbach, MB.

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.

635F JD HYDRAFLEX, 2010 with single point hook-up, stubble lights, full finger auger, PU reel with hyd. fore&aft., clean head, \$28,000. Add tandem trailer for \$5750. Call 204-841-4061, Neepawa, MB.

Misc. ACCESSORIES 4205

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ROCKPICKERS 4223

ROCK-O-MATIC 546, hyd. drive, floatation tires, \$8500; Degelman 7700 PTO drive, \$12,500. 780-679-7795, Camrose, AB.

LEON HYDRAULIC DRIVE rockpicker, in good shape, \$3000. 306-961-9312, Prince Albert, SK.

WANTED: DEGELMEN 570S rockpicker in good cond. 306-526-8882, 306-488-2109, Dilke, SK. jonmitch@westnet.com.au

STONE PICKERS WANTED: Degelman. Top \$\$ for good machines. 306-526-8882 or 306-488-2109, Regina, SK.

SPECIAL EQUIPMENT 4232

ALLOWAY 20' corn shredder, in very good condition, used very little, \$8500. 204-243-2453, High Bluff, MB.

GAS PUMPS, OIL Cans and Signs. Brands like Red Indian, Buffalo, B-A, White Fox, Texaco, Purity 99, Red Head, North Star, White Rose, Ford, GM, Tires. Paying cash! 306-715-0121, Saskatoon, SK. Thanks!

JOHNSON MFG HYGRADE 1600RS pull grader, 16' blade w/rear steer, like new, \$19,500, 306-896-2311, Langenburg, SK.

SPRAYING EQUIPMENT

PT SPRAYERS 4238

2002 FLEXI-COIL 67, suspended boom, 80' 800 gal., Raven AutoBoom height control, autorate, \$21,000 OBO. 403-820-0145, Drumheller, AB.

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.

2014 NH SP240F 120', 1200 gal. SS tank, IntelliView IV, AccuBoom, AutoBoom, Stk 024111, \$299,000. 1-888-905-7010, Lloydminster. www.redheadequipment.ca

SP SPRAYERS 4241

2013 JD 4940 120', BoomTrac, sect. control, AutoSteer, 2630 monitor, Stk: 02415, \$240,000. 1-888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2013 NH GUARDIAN SP240FXP, 100' boom, 1200 litre SS tank, IntelliView IV monitor, luxury cab, 6.7L Cummins, 275 HP, only 420 hours, asking \$325,000. 306-524-2109, 306-746-7422, Semans, SK

WILLMAR 765 SE, 90' boom, GPS, mapping and AutoSteer, 6500 hrs., 18.4x38 radials, 12.4x42 tires, 4 Tridekon crop dividers, 600 gal. tank, \$25,000; Sprayer trailer also avail. 204-825-7166, Clearwater, MB.

2003 JOHN DEERE 4710, 90', 800 gal. SS tank, 2600 display w/swath control and Norac AutoBoom height, 20.8 tires and skinnys, triple nozzle bodies with tips, 3700 hrs, \$95,000. 306-861-7620, Weyburn, SK. kingpin1959@outlook.com

READY FOR MUD?! FenderXtenders for CH Patriot sprayers. Spring sale \$1749. 306-660-8485, www.fenderxtender.ca

1998 CASE/IH SPX3185 90', 2 sets tires Stk: 017817, \$79,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2001 WILLMAR 8500 Eagle, 90', 825 gal. tank, Outback SX3 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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1995 SPRA-COUE 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.

1999 ROGATOR 854 high clearance, 90', w/factory AutoSteer, 2700 hrs, 2 sets tires, \$79,000. 306-648-5394, Ferland, SK.

SPRA-COUE 3630, 60', 400 gal. tank, GPS, 2260 hrs., shedded, \$25,000 OBO. 306-486-4411, Frobisher, SK.

SP SPRAYERS 4241



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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

2011 SPRA-COUE 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 teasdalejw@gmail.com

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 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.

2010 JD 4830, 100' booms, 1000 gal. tank, AutoSteer, Swath Pro. AutoBoom Stk: 021520, \$215,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2014 NH SP275R, 100 hrs., 1200 gal. SS tank, 100' boom, 2 sets tires, all options, \$250,000. Dave 403-556-3992, Olds, AB.

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2009 MILLAR CONDOR 40, 100' boom, 1000 gal. tank, 100 gal. rinse tank, AutoBoom, AutoSteer, AutoHeight, 2 sets rear tires, crop dividers, 1600 hrs., new diff. and planetary, good cond. 306-769-8887, 306-276-7788, Arborfield, SK.

2015 CASE/IH 4440 120', AIM, Auto-Boom, AccuBoom, Pro 700 Stk: 023153 \$475,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

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, Ungre, SK.

SPRAYING VARIOUS 4244

CHEM HANDLER III 3" hoses with Honda pump, \$3300 OBO. 306-243-4242, 306-867-7642, Macroe, SK.

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FLOATER TIRES: Factory rims and tires: John Deere 4045, 710/60R46, \$19,500; 800/55R46, \$23,500; JD 4038, Case 4420, 650/65R38 Michelin tires and rim, \$13,500. Sprayer duals available. Phone 306-697-2856, Grenfell, SK.

FLOATER TIRES: Four 24.5x32 fits Rogator 1254, \$5000; Four 20.8x42 fits Case/IH, \$6000. 306-922-8155, Prince Albert, SK.



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 - Fits most holders or caps.
 - Two piece construction makes for easy cleaning.
 - Available in ISO color coding ie: you use a red 0.4 then replace with red 0.4 Easy Jet.
 - Life expectancy on average 70,000 acres.



AIR DRILLS 4250

CONSERVA PAK 35', 12" spacing, DS, plus liquid, knock-on carbides, c/w 1996 Concord 2300 TBH, hydraulic or diesel fan, \$14,000. Call 306-221-0712, Osler, SK.

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.

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.

2008 SEEDMASTER AIR drill 60', c/w Case 3380 tank, 10" space, 380 bu. tank, done approx. 16,000 acres, vg condition, cart shedded and field ready, \$142,500. Call 306-548-4357, Sturgis, SK.

2006 BOURGAULT 5710 40' 9.8" spacing, steel packers, 6200 Stk: 020500, Cart \$60,000. www.redheadequipment.ca or 1-888-905-7010, Swift Current, SK.

MELROE 36' DISC DRILLS w/cARRIER; Morris 36' and 48' rod weeder; JD HD 32' cult. 306-283-4747, 306-291-9395, Langham.

2014 BOURGAULT 76' QDA drill, fully optioned: 10' space, all run blockage, X20 monitor, MRB III, 4 tank metering, bag lift, \$352,000. 306-472-7704, 306-315-4393, Woodrow, SK. gerry.bourgeois@shaw.ca

2000 SERIES BOURGAULT air seeder model 2155 w/Valmar. Call 306-868-4615, Truax, SK.

2009 SEED HAWK 72-12 72', 12" sp., twin wing, pneum. packers, 600 TBT cart, Stk: 021477, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2012 BOURGAULT 3320 QDA 66', 10" sp., c/w L6550 tank, MRB, NH3 kit, duals Stk: 02317, \$295,000. Call 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2010 SEEDMASTER 72-12 72', 12" space, JD 1910 air cart, 3-tank metering, Stk: 020958, \$132,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

54' BOURGAULT 5710, w/5350 air tank, DS w/dutch openers, steel or rubber packers, shedded, \$55,000. 306-876-4517 Goodeve

MORRIS MAXIM 30' double shoot, 10" spacing, Atom Jet side band openers, 3.5" packers, w/1780 TBH Morris tank, \$30,000. 306-237-7571 eves., Perdue, SK.

2008 60' SEEDMASTER, 12" spacing DS, low acres, very nice tips, new manifold, new hoses, exc. cond., \$75,000 OBO. 306-861-4592, 306-722-3228, Fillmore, SK

2008 SEEDMASTER SXL 2100 50', 12", 300 bu. seed, 2100 gallon fert. all on-board. Smart Hitch, 4 cameras, 1 owner \$100,000 Must sell. Call 306-591-1133, Pense, SK.

2013 SEED HAWK 60-12 60', twin wing, semi pneumatic packers, DD, SH 800 TBH, Stk 017840, \$335,000. Prince Albert, SK., 1-888-905-7010. redheadequipment.ca

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.

2003 FLEXI-COIL 3450 air tank, TBH, 10" auger, good cond., \$19,500 OBO. 306-861-4592, 306-722-3228 Fillmore, SK.

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2009 SEED HAWK 66-12 66', 12" sp., single knife, pneum. pkrs, 30.8 rear tires, Stk: 021475, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2015 SEED HAWK 84-12 84' 12" spacing, steel seed and fertilizer knives, Stk: 022334, \$352,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

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.

2010 CASE/IH ATX700 70', rubber packers, high float tires, double shoot, Stk: 020407, \$94,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

FLEXI-COIL 5000, 33', 12" spacing, all re-capped steel packers, new front tires on drill, 3" Stealth openers, c/w Flexi-Coil 1720 TBH tank, new front tires on cart, cameras in tank, metering area good, \$23,000 OBO. 306-726-7516, Earl Grey, SK

50' BOURGAULT 5710, NH3 mid rows with 5300 air tank, double fan, \$32,000 OBO, will separate. 306-795-2774, Ituna, SK.

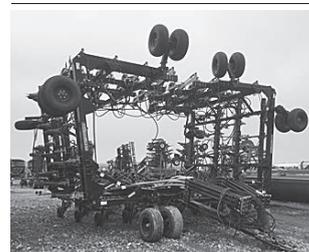
AIR DRILLS 4250

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.



2003 40' MORRIS Max II, 7180 tank, SS, NH3, MRB's, 10" spacing, AI cond., 12,000 acres, 1 pass machine, trades welcome, \$46,900. 306-862-7524 or 306-862-7761, Nipawin, SK. www.agriquip.ca

2006 JD 1820, 61', 10" spacing, SS, steel packers, new hoses, all dual wheels, exc. cond, \$16,500. 306-861-4592, Fillmore, SK



2008 SEEDMASTER, 66', 12" space, large tire pkg, TBH pkg, DS, Agron blockage, \$65,000. Flexi-Coil 380 tank available. Corner Equipment SL 1-888-689-3837, Carroll, MB., 1-888-626-3215.

2008 JD 1890 36' air drill, w/1910 cart, DS tank, var. rate, all-run blockage, 7.5" spacing, 340 bu., done 9800 acres, shedded, vg condition. Ph. 204-745-7445, Carman, MB.

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.

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

2009 BOURGAULT 3310 PHD 75', 10", single shoot, MRB, 4.5" pneumatic packers, block sensor, exc. cond., \$85,000 OBO. 306-861-4592, 306-722-3228, Fillmore, SK

2013 SEEDHAWK 5010 w/1910 JD cart, 430 bu., dbl. shoot, var. rate, \$130,000 OBO. Call 306-647-2760, Jeddburgh, SK.

2010 JOHN DEERE 1830 61', 10" sp, DS dry, Poirier openers, Alpine liquid kit Stk: 023964, \$67,500. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

AIR SEEDERS 4253



BOURGAULT 8800 with 3225 tank, mid row NH3, poly packers, nice clean unit, \$29,900. Corner Equipment SL 1-888-689-3837 Carroll, 1-888-626-3215.

JD 1850 42', 10" spacing, high flotation's, all dual wheels, w/JD 787 air tank, exc cond, \$28,000. 306-861-4592, Fillmore, SK

2009 BOURGAULT 3310, 65' w/6550 cart, 10" spacing, MRB's, X20 monitor, \$160,000. 701-570-2390, Ray, ND. Knox@nccray.net

BOURGAULT 40' FH36-42, 8" spacing, QA on-row packers, QA 40' harrows, Bourgault 3225 tank, excellent condition, \$17,000. Call 306-567-8614, Davidson, SK.

JD AIR SEEDER 35', 12" sp. on 1610 tool w/FH Morris gang packers, 2.5" Eagle Beak openers, JD 777 160 bu. tank, cab Cam \$5000. 306-331-8388, Fort Qu'Appelle, SK

HARROWS/PACKERS 4256

MORRIS WRANGLER III packer harrow, 40', wingup, good shape, \$7500. 780-679-7795, Camrose, AB.



SPRING DISCOUNTS on new and used rollers, all sizes. Leasing and delivery available. 403-580-6889, Bow Island, AB.

50' FLEXI-COIL HARROW packers w/P30 packers, \$3800; 36' Wilrich vibrashank cult w/harrows, \$1300. 306-210-8186, Reward

NEW 2017 51' DEGELMAN landroller. Odessa Rockpicker Sales, 306-957-4403, Odessa, SK.

PRICED TO SELL! Gandy Air Spread 5424, fert.,, grass, clover, canola and chem. spreader, mid, on 50' Flexi-Coil harrow drawbar, good time harrows, new hoses & clamps. 306-642-5740, 306-642-8060

2001 INGERSOLL-RAND SD70F padfoot vibratory packer, 2902 hrs., 3.9L Cummins (95HP), 66" drum, Goodyear 14.9x24 tires, fresh service, operates well, \$32,800. 1-800-667-4515 www.combineworld.com

37' ASSIZ ROLLER, 42"

TILLAGE EQUIPMENT 4262



LANDOLL 33' VT w/rolling baskets, 2014, balance of warranty, \$72,500. Corner Equipment SL 1-888-689-3837 Carroll, MB., 1-888-626-3215.

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.

BREAKING DISCS: KEWANE, 14' and 12'; Rome 16' and 9'; Wishek 14' and 30'. 2-DMI 7 shank rippers. 1-866-938-8537.

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.

JOHN DEERE 425 14' offset disc, had new tires put on a few years ago, \$5000, 306-896-2311, Langenburg, SK.

2013 JOHN DEERE 2623 vertical tillage unit, 40', excellent shape, \$75,000. 780-679-7795, Camrose, AB.

DISCS: JD 330 25' -30', IH 30', \$10,000; Bush Hog 25' and 28', \$7500; JD 15', \$3500; Wishek 13', \$4000; Row Crop cults 4-12 row; Lilliston 8-13 row; JD 830 #7000 planter; Valmar applicator, \$2000; Phoenix harrows H-11, H-14, H-17; Melroe auto reset plow, 7-8 furrow; Big Mac force type rockpicker, \$4000; Degelman 570 rockpicker, \$2500. Call 1-866-938-8537.

3-12' JD DISCERS (36'), fair condition, not used for 10 years. Offers, 306-463-4866, 306-463-8800, Kindersley, 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.

2008 **KELLO-BILT 225TWS** discer, 24', field ready, 1 owner, \$43,500. Call 306-542-7674, Kamsack, SK.



2014 GATES VERTICAL tillage 32' series, 2 full adjustable gang angle w/baskets and harrows, great shape, \$92,500. Corner Equipment SL 1-888-689-3837 Carroll, 1-888-626-3215.



NEW VERSATILE SD550 Ezee-On, tandem offset disc, notched 26" front blades, smooth rear, HD bearing, blades, wear plates, in stock and ready to go! Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

IHC 6400 54' chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

TILLAGE/SEEDING VARIOUS 4265

MORRIS 435-37 CULT, shovels & harrows; 24' IH 300 discers & packers. Open to reasonable offers. 306-867-6511, Conquest.

TRACTORS

ALLIS/DEUTZ 4277

WANTED: 4W305; 4W220; 220 and D21. 8070, 8050 or 8030 MFWD. 701-240-5737, Minot, ND.

1982 ALLIS 7010, c/w 795 Allied loader, very good condition. Call 306-865-3927, Hudson Bay, SK.

BELARUS 4283

BUYING BELARUS TRACTORS



925 825 820 800 572
520 5100 5200 5300

RUN OR NOT RUN 4WD OR 2WD
Offer Price
Pick Up Anywhere

Please email pictures, call, or text
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320.339.7268

CASE/IH 4286

CASE/IH STEIGER 450 HD, 3PTH, 2012, 1820 hrs., PS, 800 Firestone's, loaded, no PTO, 35 month - 1500 hr. extended PowerTrain warranty, Pro 700/372 Auto-Steer, \$278,000 OBO. Call 306-960-3230 or 306-981-3281, Prince Albert, SK.

2006 CIH STX375, powershift, PTO, 1917 hrs.; 2009 STX335, c/w 6-way Degelman blade/guard, 1281 hrs; Two 2013 Magnum 260, FWA, deluxe cab, leather, 320 hrs; 2015 Magnum 280, FWA, CVT, deluxe cab, leather, 608 hrs; 2014 Versatile 250, FWA, GPS, etc. Ph Dave 403-556-3992, Olds, AB.

1998 STEIGER 9370, 3695 hrs., standard 12 spd., 360 HP always shedded, \$90,000. Call 780-943-2039, Heinsburg, AB.



2007 CIH 430HD, 710/70R42 tires at 60-70%; 5 hyd. remotes, diff. lock, 3752 hrs., nice shape, \$141,500. Call or text Brandon, 306-577-5678, Carlyle, SK.

2009 CASE/IH 435, Outback guidance, 710/70 tires, rear weights, std. trans., 4 hyd., 3100 hrs., shedded, \$180,000, Nipawin, SK. 306-862-7138 or 306-862-5993

1466 IHC, duals, new sleeves and pistons, 5500 hrs.; Also 2001 Dodge Adventurer SLT, 4x4, auto., 5.9L, 187,000 kms.; Ford 3 ton F700, 301 HD engine, 45,000 miles. 403-304-9217, Hoosier, SK.

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.

NEW UNDERCARRIAGE REPLACEMENT parts for CIH Quadtracs, Bogeys \$798 & seal \$189. More shipments arriving. Call 1-800-667-4515. www.combineworld.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.

1983 CASE 2290 w/Leon 707 FEL, 4700 hrs., rebuilt PS and diff., 4 remotes, dual PTO, good tires, duals, \$18,500. Prince Albert, SK. 306-922-8155, 306-960-3230.

1984 2094, 1000 hrs. since major motor, rad and torque convert OH, \$16,000 OBO. 306-221-8461 or 306-544-2707, Hanley

STEIGER 4289

STEIGER TRACTOR PARTS. New and used, from radiator to drawpin, 1969 to 1999. Give us a call 1-800-982-1769 or www.bigtractorparts.com

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

UTILITY TRACTORS: John Deere 6200, 4400 hrs; JD 6310 w/640 loader, 4500 hrs. Call 204-522-6333, Melita, MB.

JD TRACTORS: 8650, 8450, 4650 FWD, 4255 FWD, 4440. Will take tractors that need work. Call 204-871-5170, Austin, MB.

1977 JD 4430 w/606 PT mower behind, very low hrs., always shedded, excellent condition. 306-717-2971, Saskatoon, SK.

NEW MANDAKO CATEGORY II 3PTH for JD 7000 Series tractors, still in crate, \$2600. 306-744-7955, Saltcoats, SK.

2001 JD 9300 4 WD, 24 spd. w/diff lock, 5000 hrs, 620 duals, always shedded, exc. condition. Call 204-741-0121, Souris, MB.

2010 JD 7330, MFWD, 3 PTH, 20 spd. quad (40 km) trans., only 2896 hrs., dual hyd./PTO, no emissions, exc. cond., \$96,000 OBO. Ph/text 306-535-1083, Vibank, SK.



JOHN DEERE 7510 MFWD 740 loader grapple, 5180 hrs., 20 spd., LH reverser 3PTH, 2 SCV's, buddy seat, field office, immaculate, \$85,000 OBO. 403-634-7696, Picture Butte, AB. Steven.vanderveen@yahoo.com

2009 JD 6430, MFWD, Premium cab, 2950 hrs., 673 loader and grapple, FWA, Power quad w/left-hand reverser, exc. cond., \$90,000. 403-326-2199, 403-664-0435, Cereal, AB. ejfoot@netago.ca

JD 4020 PS, dual hyd. and PTO, good tires, \$6800. Call 204-525-4521, Minitonas, MB. www.waltersequipment.com



JOHN DEERE 4640 with blade, good condition. Call 306-283-4747, 306-291-9395, Langham, SK

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

JOHN DEERE 4295

2012 JD 9510R, 4 WD, 2850 hrs., PTO, 5 SCV, hi-flo hyd., HID lights, PS trans., full weight pkg., 800/70R38, 7" screen, receiver with Activation, excellent condition, \$316,000. 306-472-7704, 306-315-4393, Lafleche, SK. gerry.bourgeois@shaw.ca

STEVE'S TRACTOR REBUILDER specializing in rebuilding JD tractors. Want Series 20s, 30s, 40s, 50s, 7000s to rebuild or for parts. pay top \$\$ Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

JOHN DEERE 4430 w/JD 148 loader, QuadShift, 18.4x38 singles, 2 hyd., exc. cond. 306-283-4747, Langham, 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.

2008 JD 5625, 99 HP CAHR, FWA, 3 PTH, c/w JD FEL, approx. 2600 hrs., \$54,500 OBO. Call 306-291-4869, Dundurn, SK.

1995 8100 FWA, 16 spd. powershift, big 1000 PTO, 520/85R38 duals, \$15,000 work order on eng. rebuild, 11,000 hrs., vg cond., \$59,000. 306-948-7223, Biggar, SK.

JOHN DEERE 4650 w/powershift, approx 8000 hrs., 20.8x38 duals, 1000 PTO, \$30,000. 306-948-7223, Biggar, SK.

1976 JOHN DEERE 4630, 4550 hrs., 20.8x38 duals at 10%, quad range, 2 hyd., c/w Degelman 45/57 12' blade, good condition, \$26,500. 306-960-9586, Meath Park, SK. jodylysk@sasktel.net

RARE!! 1983 JD 750 MFWD 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.

2008 JD 5303, 2 WD, 60 HP, 3 PTH, PTO, 522 loader, 565 hrs., exc., \$31,000 OBO. Retired. Call 306-771-0001, Balgonie, SK.

2010 JD 7730, MFD, 620x42 rear tires, Powerquad trans., 746 loader and grapple, 3350 hrs. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

JD 4630, loader, cab; Case 2870, 4x4, Degelman dozer; Cockshutt 550 gas; 1981 GMC 17' B&H. 306-238-4411, Goodsoil, SK

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.

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.

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

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



TJ 430, 3200 hrs., 710/ 42 tires, cloth, 57 GPM, \$164,500. Corner Equipment SL 1-888-689-3837, Carroll, 1-888-626-3215.

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

2006 TG210, FRONT wheel assist, 7900 hrs., excellent tires, 3 PTO 540/1000, exc. cond., \$63,500 Cdn OBO. 218-779-1710.

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 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.

946 FORD/VERS., 1992, 20.8x42 duals, 6020 hrs, always shedded, just serviced, exc. cond., \$52,500 OBO. 306-634-7416, Estevan, SK.

VERSATILE 836, POWERSHIFT, PTO, 4 new tires, very clean unit. Call 403-823-1894, Drumheller, AB.

1992 FORD/VERSATILE 946, 20.8x42 duals, AutoSteer JD Globe and monitor, very nice, \$48,000 Cdn OBO. Delivery available. Call 218-779-1710.

VERSATILE 4310



2012 VERSATILE 435, powershift, 80 GPM, PTO, 710 Michelins, 6 remotes, GPS, very nice, \$229,000. Corner Equipment SL 1-888-689-3837, Carroll, 1-888-626-3215.



VERSATILE 550 DT 2016 500 hrs., 110 GPM PTO, GPS full load, \$415,000. Corner Equipment SL 1-888-689-3837 Carroll, MB., 1-888-626-3215.

VARIOUS TRACTORS 4319

GRATTON COULEE AGRI PARTS LTD. Your #1 place to purchase late model combine and tractor parts. Used, new and rebuilt. www.gcparts.com Toll free 888-327-6767.

2008 MCCORMICK MTX150, 2300 hrs.; 2005 McCormick MTX120 w/Quicke loader, 3100 hrs. 204-522-6333, Melita, MB.



2009 FENDT 936 4000 hrs., 800 rubber, \$169,500. Corner Equipment SL 1-888-689-3837 Carroll, 1-888-626-3215.

CASE 830 TRACTOR, loader, bucket, fair cond., rubber good, runs well, \$3000; Fordson Power Major, 3 PTH, bale fork, 2-furrow plow, runs good, \$2800; MF 1080, not running, needs engine work, loader, bale fork and bucket, \$2000. Hudson Bay, SK., call 306-865-4168 or 204-734-2623.

LOADERS/DOZERS 4322

LEON 707 LOADER, 5' bucket with heavy duty grapple and valve controls, \$4000. 306-795-2800, Ituna, SK.

NEW DEGELMAN BLADE, model 12-46/57, \$15,500; NEW JD 360 loader, \$15,500; Ph Henry 403-588-0958, Alix, AB.



2011 HITACHI 270 CL-3 excavator Isuzu, 4 cyl, 147 HP dsl. eng., 5' WBM bucket w/hyd. thumb, 32" tracks, 8692.5 hrs., AC, heater, 2 spd., exc. working cond., \$125,000. Can deliver. (Warranty). 204-743-2324, Cypress River, MB.

2010 NEW HOLLAND W130B wheel loader, 5200 hrs, 2.75 yard bucket with Grabtech grapple, 20 ply tractor tread tires, excellent condition. Can send pictures, \$85,000 OBO. Please call 306-768-8541, Carrot River, SK. russellwiens82@gmail.com

DEGELMAN 9' DOZER BLADE, Model 9STD, \$2500. 306-867-6511, Conquest, SK.

LOADERS/DOZERS 4322

DEGELMAN BLADES: 14', 2-way hyd. control, fits CNH 275-335 HP 4 WD's, excellent condition, \$7900; 12' 2-way blade, manual tilt, good cutting edge, mounts fit 30' tractor frames, \$4980. 1-800-667-4515 www.combineworld.com

MISCELLANEOUS 4325

FORD 750 w/18' B&H, rollover tarp, \$8500; Case/IH 2870 4 WD, Degelman blade, \$17,000; Vac tank, 1800 gal. and pump \$8000; IHC Model 252 forklift, gas, \$5000. 306-238-4411, Goodsoil, SK.

RETIRING: 30' BOURGAULT 2630VM cult. and harrows; Flexi-Coil System 92 harrow packer, 50'; Flexi-Coil System 62 hyd. harrows, 60'; Bourgault 540 PT sprayer, 80'; 5 yd. Ashland scraper; 1977 Ford F600 grain truck, steel B&H; 1979 F600, steel B&H. 306-944-4325, 306-231-8355, Bruno, SK.

FLAX STRAW BUNCHER and land levelers. Building now. Place orders and don't delay! Two straw bunchers available for sale. 306-957-4279, Odessa, SK.

FOR POST-EMERGENCE WEED management- Harrison 60' tine weeder, excellent condition. 306-382-9024, Saskatoon, SK.

20' SHOP BILT roller for hayland/ peas, 9/16" side wall, 22" diameter, \$1500. Call 306-746-7307, Semans, SK.

ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Straw-master, rockpickers, proflit, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

WESTEEL BINS, various sizes, 30c/bu.; 33' Ezee-On cult., side slide markers, w/Chinook air tank, \$7500; 1974 Dodge 600 truck w/tag lift, 18' box w/head lift hoist, as is, \$3500. 204-738-4766, Petersfield.

WANTED: SLIDE-IN TRUCK SPRAYER. 306-640-8034 cel, 306-266-2016 res, Wood Mountain, SK. gm93@sasktel.net

2 - JD 9-BOLT RIMS w/tires, 18.4x38; 2 - JD 10-bolt rims only, fits 20.8x38 tire; 1 Case 8-bolt rim only, fits 18.4x38 tire; PTO shaft for JD 7721 combine, fits small 1000 PTO. 306-867-6511, Conquest, SK.

2010 CNH 7120 combine, 830 hrs.; 2011 CNH 2142 header, 2500 ac.; 2010 CNH WD1203, 30', 350 hrs.; 1996 Tyler Patriot sprayer, 90', 2920 hrs.; 2004 Freightliner Columbia,

FENCING 4400

GUARANTEED PRESSURE TREATED fence posts, lumber slabs and rails. Call Lehner Wood Preservers Ltd., ask for Ron 306-763-4232, Prince Albert, SK.

FENCING OUTFIT: 1987 GMC 2500 flat deck 4x4 truck. Heavy hitter, wire roller w/drills, saws, and related tools. Located in Aylesbury, SK., \$22,000. 403-650-8369.



16" PEELED RAILS, SPECIAL 2-3" \$3 ea., 125/bundle; 3-4" \$9.25 ea, 100/bundle. Vermette Wood Preservers, Spruce Home, SK., 1-800-667-0094. info@vwpltd.com

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FIREWOOD 4475

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.



BLOCKED AND SEASONED FIREWOOD: \$180 per 160 ft. x 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.

FISH/FISH FARMING 4500

CLEAR SPRINGS TROUT FARM Rainbow Trout, 4", 6" and 8" for spring stocking. 204-937-4403, 204-937-8087, Roblin, MB.

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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.

HEATING/ AIR CONDITIONING 4850

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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.

2-7/8" OILFIELD TUBING, \$40 each; 3/4" sucker rods, \$6 each. Truckload quantities only. Call 306-861-1280, Weyburn, SK.

FOR SALE: 3 1/2" oil field tubing. Please call after 6:00 PM, 306-741-1066. Swift Current, SK.

IRRIGATION EQUIPMENT 4980

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

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 WREG PLACE: Used pumping motors, PTO carts, 6" - 10" alum. pipe. 50 years experience. Call Dennis 403-308-1400, Taber, AB.

LANDSCAPING

LAWN/GARDEN 4988

2012 VERMEER SC272 stump grinder, 1260 hrs., Yanmar diesel, very good cond, \$21,000 OBO. 204-871-4509 High Bluff MB

NURSERY/GARDENING SUPPLIES 4990



SHAVINGS: BULK PRICING and delivery available. Vermette Wood Preservers, Spruce Home, SK.. 1-800-667-0094. Email info@vwpltd.com View www.vwpltd.com



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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@harmonhealthfoods.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.

BISON/BUFFALO 5001

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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 Yr., old bulls, you come and pick what you like. Call 306-728-4906 or 306-728-8506 after 6:00 PM, Melville, 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.

QUILL CREEK BISON has 200 2015 breeding heifers, raised right, ready to go! Call Doug 306-231-9110, Quill Lake, SK.

BUYING: CULL COWS, herd sire bulls, yearlings and calves. Now dealer for Redmond Bison mineral. Call Elk Valley Ranches, 780-846-2980, Kitscoty, AB.

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.

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 Bintrner 306-873-3184.

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

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.

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

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

REG. BLACK ANGUS yearling bulls. Semen tested, ready to go. Delivery avail. Brookside Angus 204-841-5466, Brookdale, MB.

BLACKT OF ANGUS COW/CALF pairs, calves born Jan/Feb. Canadian bloodlines. Call 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

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

SOUTH VIEW RANCH has **Black and Red Angus** yearling and 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

30 BLACK ANGUS 2 year old bulls. Calving ease and performance lines. Board and delivery available. Rob Garner 306-946-7946, Simpson, SK.



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

BLACKT OF ANGUS OFFERS Canadian bloodlines yearling and 2 year old bulls, semen tested and full vaccinations. 780-662-2024, Tofield, AB.

BLACK ANGUS 2 year old bulls, semen tested and guaranteed. Call Andy 306-697-7897, Grenfell, 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

MIDNITE OIL CATTLE CO. has on offer semen tested yearling and 2 year old bulls. 306-734-2850, 306-734-7675, Craik, SK.

2 YEAR OLD and yearling Angus bulls. 306-345-2046, Pense, SK.

BLACK ANGUS 5010

OLE FARMS is offering a large selection of Black and Red Angus 2 year old bulls. Call 780-689-8324, Athabasca, AB.

PUREBRED BLACK ANGUS long yearling bulls, replacement heifers, AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

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.

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.

ANGUS BULLS for sale, tested for rate of gain, feed conversion, semen, many suitable for heifers. Breeding Angus since 1981. Blue Gentian Angus, call Norman Bednar 204-380-2551, Vita, MB.

QUIET TOP QUALITY 2 yr. old and yearling Purebred Black Angus bulls. Call Spruce Acres, 306-272-3997, Foam Lake, 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.

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.

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.

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.

2 YEAR OLD & yearling bulls, semen tested & delivered. Call Guy Sampson, Davidson, SK., 306-567-4207 or 306-561-7665.

20 RED ANGUS 2 yr old bulls. Calving ease and maternal lines. Board and delivery avail. Rob Garner 306-946-7946, Simpson

RED ANGUS and SIMM./Angus cross yearling and 2 year old bulls. Call LVV Ranch, 780-582-2254, Forestburg, AB.

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

RED ANGUS YEARLING bull, AI sired by LSF Conqueror, 67 lbs. birthweight, sure calving ease. Blue Gentian Angus, Norman Bednar 204-380-2551, Vita, MB.

MCTAVISH RED ANGUS yearling bulls. Semen tested and quiet. Delivered. Call/text Jared at 306-435-9842, Moosomin, SK.

2 YEAR OLDS and yearling Red Angus, Simmental/Red Angus hybrids and Black Angus bulls. Developed on oats for longevity. Phone Triple H Cattle Co. 306-723-4832, 306-726-7671(cell) or Cory 306-718-7007, Cupar, SK.

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

FOR SALE BY Private Treaty: Yearling and 2 year old Red Angus bulls. **Arm River Red Angus,** 306-567-4702, Davidson, 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.

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.

YEARLING AND 2 YR. OLD bulls for sale. Balance of BW and performance, semen tested. KC Cattle Co. Call 306-290-8431, Saskatoon, SK. www.kccattleco.com

2 YEAR OLD and yearling purebred Red Angus bulls for sale. High Caliber Angus, 306-745-3786, Esterhazy, SK

QUALITY TWO YEAR old bulls. Select group of yearlings also available. Excellent semen tests. Decorah Red Angus, call Murray 306-867-7206. Dinsmore, SK.

3 YEAR OLD Red Angus herd sire. Excellent producer use on purebred herd. Little de Ranch, 306-845-2406, Turtleford, SK.

QUIET TOP QUALITY 2 yr. old and yearling Purebred Red Angus bulls. Contact Spruce Acres, 306-272-3997, Foam Lake, SK.

PB YEARLING BULLS, semen tested, guaranteed and delivered. Deposit holds until you need them. Clarke Ward, Saskatoon, SK., 306-931-3824, 306-220-6372.

2 YR. OLD Red Angus bulls, pain 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.

BLONDE D'AQUITAINE 5035

POLLED YEARLING BLONDE BULLS for sale, Estevan, SK. area. Phone 780-634-2174 or cell 306-421-6987.

CHAROLAIS 5055

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.

COMING 2 YR. old polled PB Charolais bulls, come red factor. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

MCTAVISH CHAROLAIS YEARLING bulls. Calving ease, performance, semen tested. Delivered. Call/text Jared 306-435-9842, Moosomin, SK.

CHAROLAIS 5055



PB CHAROLAIS BULLS, yearlings and 2 year olds, whites and tans. 306-424-7446 or 306-529-6268, Glenavon, SK.

REGISTERED PB CHAROLAIS yearling and 2 yr. old bulls by private treaty. Semen tested and guaranteed. Call Brad 204-537-2367, 204-523-0062, Belmont, MB. www.clinecattlecompany.ca

GOOD QUALITY YEARLING and 2 year old Charolais bulls. Mostly AI sired. Semen tested. Some Red Factors. Will feed until breeding time. Contact Bar H Charolais, Grenfell, SK. Kevin Haylock, 306-697-2901 or 306-697-2988.

2 YR OLD and yearling bulls, polled, semen tested, guaranteed, delivered. Prairie Gold Charolais, 306-882-4081, Rosetown, 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.

YEARLING AND 2 YEAR old bulls, sired by Silver Bullet and Roundup, semen tested, Martens Charolais & Seed. Boissevain, MB. Phone 204-534-8370, 204-534-6952

CHAROLAIS BULLS, YEARLING and 2 year olds. Contact LVV Ranch, 780-582-2254, Forestburg, AB.

REG. CHAROLAIS VIRGIN 2 yr. old and yearling bulls, reds, whites, polled and horned, semen tested, fusogard treated. Richard Smith 780-846-2643, Kitscoty, AB.

YEARLING & 2 YEAR old Charolais bulls, Creedence Charolais Ranch, Ervin Zayak, 780-741-3868, 780-853-0708 Derwent, AB

DEXTER 5065

OLDER DEXTER COWS, bred Speckle Park, due April; Polled Red Dexter 2 yr. old bull; Speckle Park/Dexter cross 2 year old bull. 403-845-5763, Rocky Mountain House, AB.

GELBVIEW 5075

POLLED YEARLING and 2 year old bulls, quiet, good haired. Call Selin's Gelbvieh 306-793-4568, Stockholm, SK.

PUREBRED YEARLING BLACK and Red Gelbvieh bulls. Semen tested, vaccinations up to date, docile, EPD's and pics available. Double JI Gelbvieh, Dinsmore, SK. Call Jim at 306-846-4733 or 306-846-7199.

GELBVIEW BULLS Reg. 2 yr. old and yearling polled bulls from our 38 year breeding program. Reds and blacks. 780-672-9950, Camrose, AB. Email: gwinder@syban.net

HEREFORD 5090



MANCHESTER POLLED HEREFORDS Yearlings and 2 yr olds. All bulls semen tested, guaranteed sound. Bulls sired by MHPH 521X Action 106A and Glenlees 68Y Indeed 39A. Call Darren 306-228-7462 or Kari-Rae 306-893-8148, Senlac, SK.

YEARLING BULLS FOR sale: HMS Hi-Cliffe 306-867-4231, carm.dvm@sasktel.net www.hmshicliffe.com Outlook, SK.

ROSELAWN POLLED HEREFORDS have a good selection of yearling and two year old bulls for sale at the farm. Good thick bulls bred for calving ease and performance. Semen tested, delivery avail. Hereford bulls and black cows is a super cross. Also have a group of black baldie open yearling heifers for sale. Call Wally at home, 204-523-8713 or 204-534-8204. Killarney, MB. For pictures and details check out our website: roselawnfarms.com

EXCELLENT SELECTION of 2 yr old bulls. Fed for service not for show; 2 herd sires. Polled Herefords since 1950. Call Erwin Lehmann 306-232-4712, Rosthern, SK.

2 YR OLD polled Hereford bulls. Crittenden Bros. 306-963-7880, 306-963-2414, Imperial, SK. Email h.s.crittenden@sasktel.net www.crittendenbros.com

EXCELLENT SELECTION of polled 2 yr. olds and several proven 3 year and select yearlings. Properly developed to last. Deposit holds til needed. Delivery avail. Longworth Land & Cattle, Harris, SK., 306-831-9856.

REGISTERED POLLED HEREFORD yearling & 2 year old bulls, semen tested. Harold or Tim Strauch, 306-677-2580, Shamrock, SK

SQUARE D BULLS: Two year old, fall and spring yearling bulls for sale. Quiet, semen tested, delivery can be arranged. Call Jim Duke 306-538-4556, 306-736-7921, Langbank, SK. square.d@sasktel.net Website: www.square-dpolledherefords.com

HOLSTEIN 5100

FRESH AND SPRINGING heifers

CATTLE VARIOUS 5240

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

300 RED & BLACK Angus bred heifers. Can sell as bred or calved. Call 306-773-1049, 306-741-6513, Swift Current, SK.

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

HORSE AND TACK SALE, Heartland, Prince Albert, SK, Thursday, June 1st, 6:00 PM. Call 306-763-8463.

RANCH COUNTRY HORSE SALE (Perrin, Parsonage, Bertram) in Maple Creek, SK accepts consignments of broke horses for Saturday, Sept. 9th Sale. Deadline June 30th. Ph. Tanya Parsonage 306-662-5081, tjparsonage@xplornet.ca Forms online at www.northernhorse.com/ranchcountry.

HORSE SALE, JOHNSTONE Auction Mart, Moose Jaw, Thursday June 1, 2017. Tack Sells: 2:00 PM; Horses Sell: 4:30 PM. All classes of horses accepted. Next sale, August 3rd. Phone 306-693-4715 or visit www.johnstoneauction.ca PL #914447

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 bodnarusauktionering.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.candiacuctionmart.ca Candiac, SK.

BELGIAN 5325



STANDING AT STUD: Unregistered Brabant Belgian, 16.2HH, Blue Roan color. Call Dan 204-234-5254, Shoal Lake, MB.

DONKEYS 5335

DONKEYS: 15 HH Mammoth Jack and 14 HH Mammoth Standard Jack. Both have pasture bred mares, produce nice minded mules. 204-385-2764, Gladstone, MB.

PERCHERON 5400

GREY REGISTERED PERCHERON stallion, 4 yrs. old, harness broke, quiet, 17.1 HH. Call 306-742-7575, MacNutt, SK.

QUARTER HORSE 5415

9 GRANDDAUGHTERS of Mr. Baron Red, from 2-7 years old for sale. Located Near Steinbach, MB., call 204-392-3830.

HORSES VARIOUS 5460

HORSES FOR SALE: Two 4 yr old stallions: 1 roan, 1 black and white. Taking offers. Call 306-372-4907, Luseland, SK.

4 FILLIES, 2 COLTS Friesian/Haflinger yearlings, 3 Fjord/Haflinger filly yearlings, \$900 each. 306-682-2899, Humboldt, SK

BROWN AND WHITE Gypsy Banner cross Paint team, broke to drive and ride. Also several other younger and saddle horses. 306-435-3634, Moosomin, SK.

HORSE EVENTS/ SEMINARS 5467

KINDERSLEY ANTIQUE THRESHING Club. Horse drawn antique seeding and tillage demo. June 9th at 11:00 AM. Kindersley Museum. Lunch will be available. Call Greg 306-463-8080 or Garth 306-463-7102.

HARNESS/VEHICLES 5470

HORSE COLLARS, all sizes, steel and aluminum horseshoes. We ship anywhere. Keddies, 1-800-390-6924 or keddies.com

SHEEP

AUCTION SALES 5505

SHEEP AND GOAT SALE, Heartland Livestock, Prince Albert, Thursday, June 1st, 6:00 PM. Call 306-763-8463 to pre-book.

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

SWINE

SWINE VARIOUS 5670

SELLING PATRICK, YORKSHIRE and cross bred boars, serviceable age. Ph Brian Braumberger 306-336-2763, Lipton, SK.

POULTRY

POULTRY VARIOUS 5740

CARFIO HATCHERY. Guinea fowl, quails, gamebirds, ducks, geese. 1-877-441-0368 carfio@videotron.ca www.carfio.com

POULTRY EQUIPMENT 5741

ORGANIC MOBILE POULTRY Abattoir. Complete mobile processing unit built in motorhome chassis for on farm slaughter. Incl. drop down kill floor, scaldler, plucker, crates, UV system, icemaker, scale labeller and all the equipment to produce a whole chicken for market, \$48,000. 250-505-9632 Nelson, BC. artisanworx@gmail.com

SPECIALTY

ELK 5760

ELK WANTED! If you have elk to supply to market let AWAPCO be your first choice. \$11.50/kg. Call our office at 780-900-7589, info@waptiriver.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.

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.

LIVESTOCK VARIOUS 5785

WHEELER'S STOCK FARM: Quality yearling & 2 yr. old bulls. Semen tested, delivery available. 306-382-9324, Saskatoon, SK.

DUNDURN GRAZING Association has room for cattle in the non-breeding field for the 2017 season. Call Fred at 306-381-6070.

SUMMER MINERAL

MORE CALVES OR MORE POUNDS OR BOTH?
Free Delivery right onto YOUR RANCH. (yes you heard right)
306.500.6417
www.nutrition1.com

LIVESTOCK EQUIPMENT 5790

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, \$340; 24'x6' panels, 2-7/8" pipe with 6-1" rods, \$365; 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.

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.

FROSTFREE NOSEPUMPS: Fully sustainable livestock watering. No power required to heat or pump. Prevents contamination. Grants available. 1-866-843-6744. www.frostfree-nosepumps.com

FREESTANDING CORRAL PANELS for cattle, horses, bison and sheep. Bale feeders; Belted feed troughs; 10' panels; Windbreak frames; Swinging gates; Framed gates; Panels with gates mounted; Round pen kits starting at \$1495; Palpation 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

20' LIFTOFF CATTLE TRAILER; Two horse trailer; 16' 5th wheel cattle trailer; Post pounder on MF tractor. 306-283-4747, 306-291-9395, Langham, SK.

MCKEE 18' MANURE SPREADER with tandem axles and hydraulic end gate, \$35,000 OBO. Call 403-321-2105, Blackie, AB.

CATTLE SHELTER PACKAGES or built on site. For early booking call 1-800-667-4990 or visit our website: www.warmanhomecentre.com

HI-HOG CATTLE SQUEEZE. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

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 payloader w/grapple fork. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

IHC 8840 14' auger and tub guards, 2279 hours, \$20,000. 403-932-2131 days only, Cochrane, AB.

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

INTERMEDIATE WHEAT/GRASS & Slender where grass seed for sale, \$3/lb, minimum order 1000 lbs. 204-792-7274, Cartier, MB. E-mail: buqually@mymts.net

FFS- FUCHS FARM SUPPLY is your partner in agriculture stocking mixer, cutter, feed wagons and bale shredders and in-fustry leading Rol-Oyl cattle oilers. 306-762-2125, Vibank, SK. www.fuchs.ca

ORGANIC PRODUCTS

CERTIFICATION SERVICES 5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agrolgist 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

GRAINS 5947

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK. 306-640-8600, 306-640-8437.

ORGANIC SWEET CLOVER good quality, cleaned and bagged. Ph. 306-281-8097, Saskatoon, SK.



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

WANTED: FEED RYE, peas and soybeans. Call 204-379-2451, St. Claude, MB.

CURRENTLY BUYING ORGANIC wheat, Hard Red Spring & Red Winter wheat. Also have new crop contracts. 306-354-2660, Mossbank, SK. rworganic@sasktel.net

CERT. ORGANIC BLACK silage pea seed, 98% germ; Certified organic alfalfa silage bales. Gilbert Plains, MB. area, call 204-648-7383, 204-548-2932.

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

DO YOU KNOW an amazing single guy who shouldn't be? Camelot Introductions has been successfully matching people for over 22 years. In-person interviews by Intuitive Matchmaker in MB and SK. www.camelotintroductions.com or phone 306-978-LOVE (5683).

AGE 40 PLUS Singles Dance, Albert Community Hall, 610 Clarence Avenue South, Saskatoon, SK., June 10, 2017 at 8:00 PM. Price/ticket \$40 (at door only).

PEST CONTROL 5960



WANTED: BARN PIGEONS for dog training within 200 kms of Okotoks, AB. Will come catch and remove them! Call 403-620-7682

PETS

THE ANIMAL PEDIGREE ACT
No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

WORKING DOGS 5973

RED HEELER PUPS: 5 female, 1 male, from working parents, first shots, ready to go June 1st, \$500. 306-725-4510, Bulyea, SK.

GREAT PYRENEES PUPS from working parents. Intact. DOB Mar. 18/17. For more info: heathernelsonfarm@gmail.com

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.

REAL ESTATE

B.C. PROPERTIES 6110

CRESTON: 19 acres. 1500 sq. ft. house, 3 bdrms, 1-1/2 baths. Nice yard w/garden, fruit and berry trees. 850 sq. ft. trailer, w/garden area is presently rented. Also includes barn, tool and chicken houses. Property is on Lister water. 3 acres seeded to grass, remaining 15 acres being grain farmed. 250-402-8178 or 250-402-8142.

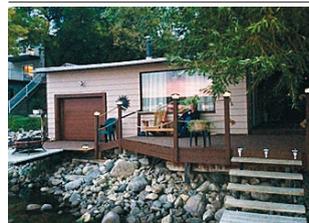
CONDOS/TOWN HOUSES 6120

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

MOOSE JAW CONDO - Lynbrook Place, 1255 sq. ft. NW/Sunningdale, 3 bdrm, 3 bath, walkout bungalow style condo in gated community across from Lynbrook Golf Course. Backs open greenspace. Amazing sunset views and wildlife. For sale by owner. \$459,000 OBO. Please call 306-692-4216, 306-630-5325, Moose Jaw, SK. Email: n.forsyth@sasktel.net

COTTAGE/LOTS 6125

WE MANUFACTURE MACHINED profiled logs in cedar and pine. We also have log siding, wood flooring, cedar T&G, live edge counter and mantel tops, kilned dried. We are one of Canada's most innovated craft sawmills. Rouck Bros., Lumby, BC., 1-800-960-3388 or Rouckbros.com



LAKEFRONT CABIN KATEPWA. Cozy 1000 sq. ft., 3 season, no maintenance yard. Fully furnished, c/w new renovation, dock and boat lift. Move in ready. For sale by owner. Great deal! \$289,900. Call 306-331-8581 or 306-539-6207.



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, Bk 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.



PERFECT WAKAW LAKE LOCATION: 3 season cottage, fully furnished, ready for use! 850 sq.ft., 3 bdrms, 1 bath, boat track w/winch and dock on wheels. Walk to Regional Park and golf course. \$289,000. For more info or to view, call Jim or Linda at 306-374-5756 or 306-291-5756.

LAKEFRONT CABIN ON titled lot. Open House: May 20, 21, 22, 2-4 PM. \$398,800. MLS. George, C21 Fusion 306-230-4663, Weyakwin Lake, SK homesales@glbsailor.ca

COTTAGE AT LAKE OF THE PRAIRIES: 303 Keating Drive at Prairie Lake Lodge Development. 864 sq.ft. lakeview cottage. Fully finished basement. 2 bedrooms, 1 1/2 baths. Low maintenance yard, deck. Well for water. 18 hole/3 par golf course in Development. \$259,000. MLS #1700975. Please call Karen Gorulak, Salesperson, at 204-773-6797, NorthStar Insurance and Real Estate, www.north-star.ca

HOUSES/LOTS 6126

LOG AND TIMBER HOMES, Saskatoon, SK. Visit www.backcountryloghomes.ca or call 306-222-6558.

SHINGLES COLORS SILVERWOOD \$1999 OXFORD GREY BDL DISTRIBUTOR CLEARANCE!!!
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HOUSES/LOTS 6126



COMFORTABLE HOUSE TO BE MOVED in Calgary, AB. Extensively renovated in 2000: New drywall, insulation, plumbing, electrical, kitchen cabinets with granite countertops, bathroom reno, windows, and flooring. 950 sq.ft. Available August 2017. \$2500. Call 403-270-7521.

TIMBER FRAMES, LOG STRUCTURES and Vertical Log Cabins. Log home refinishing and chinking. Certified Log Builder with 38 years experience. Log & Timber Works, Delisle, SK., 306-717-5161, Email info@logandtimberworks.com Website at www.logandtimberworks.com

TO BE MOVED: 1977 27x40' bungalow on farm, 2 bdrms, 1 bath, 16x24' wrap around deck, new hardwood floors, windows and doors, siding and insulation 5 yrs. old, new never used fridge/stove microwave, built-in dishwasher. Would make a perfect cabin or starter home. Have mover's quote. Asking \$60,000. 780-205-4423, Lashburn, SK.

MOBILE HOMES 6127

DILKE, SK: \$169,500, 1400 sq.ft. 3 bdrm, 2 bath home. 98x27' lot. Large dbl garage, appliances incl. Enquire now! Angelo and Jennifer Coppola, Sutton Group Results Realty. MLS 589359. 306-536-6944.

2011 MODULINE MODULAR 20x76, 1,520 sq. ft. 3 bdrm, 2 bath, excellent shape! \$105,000. Contact Delee 403-396-8509. FOB. Thorsby, AB.

MEDALLION HOMES 1-800-249-3969 Immediate delivery: New 16' and 20' modular homes; Also used 14' and 16' modular homes. Now available: Lake homes. Medallion Homes, 306-764-2121, Prince Albert, SK.

YELLOWHEAD MODULAR HOME SALES, Canadian built by Moduline. Elite price event on now: 960 sq.ft., 2 bdrm, 2 bth, \$79,900; 1216 sq.ft., 3 bdrm, 2 bth, \$89,900; 1520 sq.ft., 3 or 4 bdrm, 2 bth, \$109,900. 306-496-7538, weekend calls. www.yellowheadmodularhomesales.ca

TO BE MOVED: 1991 16x78' 2 bdrm, 2 bath, new 10x26' addition, tin roof, garden doors, decks and appl. 4 yrs ago. HE furnace and AC. Porch w/lots of closets, storage room, \$50,000 OBO. 403-575-7045, Veteran, AB.

READY TO MOVE 6128

RTMS AND SITE built homes. Call 1-866-933-9595, or go online for pictures and pricing at: www.warmanhomes.ca

RESORTS 6129



YEAR ROUND RESORT LIVING. Whispering Pines Golf and Country Club is a gated maint. free community overlooking Pine Lake on golf course with year round amenities 20 mins. from Red Deer, AB. 1900 sq. ft. on 3 fully finished levels, 3 bdrms, 2-1/2 baths, fireplace in bdrm ensuite. Beautiful club house with fine dining, pool, fitness room. For sale or trade. 780-482-5273, admin@nilssonlvestock.com

RECREATIONAL PROPERTY 6130

50'X150' LOT PROVINCIAL Forest hunting, fishing, etc. Route 66, \$22,500. Call 306-536-3574, Reserve, SK.

FARMS & RANCHES

BRITISH COLUMBIA 6131

178 ACRE RANCH, beautiful view of the Seven Sisters mountains, exc. land and water, house, barn, shop, hay shed and outbuildings, on Hwy #16 between Smithers and Terrace, \$650,000. 250-849-8411.

BRITISH COLUMBIA 6131

WEST KOOTENAY RIVERFRONT acreage. 2,860 sq. ft. home, barns, garage, guest house, trees, gardens, full sun. all services. \$437,500. View by appointment only. Call 250-304-4669, Castlegar, BC.

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ALBERTA 6132

BUYERS for farms and ranches. Henry Vos, 780-835-1992. Royal LePage Realty. www.peacriverfarmsandranches.com

INVESTMENT OPPORTUNITY! 1200 acres north of Cereal, AB. Land is rented for this current year. Oil and gas revenue of approx. \$11,000. Custom built 3 bdrm, 2.5 bath home. Can be sold separately. www.bigskyrealestateltd.com Information call 403-854-4444.

ALBERTA 6132

BY TENDER: The executors of the Estate of Albert Hills hereby offer the following two parcels of land, subject to the existing reservations on title. Parcel 1: Meridian 4, Range 20, Township 46, Section 12, Quarter North East. Containing 160 acres more or less. Excepting Thereout: Plan 1420587, Road 2.86 acres more or less, excepting thereout all mines and minerals. The owners are currently in the process of subdividing an approx. 5 acre parcel out of this quarter. The proposed subdivision is not included in this tender; Parcel 2: Meridian 4, Range 20, Township 46, Section 12, Quarter North West. Containing 160 acres more or less. Excepting Thereout: Plan 1420587, Road 1.98 acre more or less. Excepting thereout all mines and minerals. The owners are currently in the process of subdividing an approx. 10.5 acre yard site out of this quarter. The proposed subdivision is not included in this tender. An easement regarding the existing power line to the yard will be registered prior to closing. The lands are located approx. 3 miles south from the Camrose Regional Exhibition, about a mile from the Cargill Seed Crushing Plant. The NE-12-46-20-W4 earns annual income from Cargill of \$1300, road allowance income of \$2500, and pipeline income of \$2485. The NW 12-46-20-W4 earns annual pipeline income of \$1189. Tenders will be considered for the purchase of both parcels or for individual parcels. Tenders are to be submitted in sealed envelopes marked "Hill Tender" to Jon Stolee at Farnham West Stolee Kambeitz LLP, Barristers and Solicitors, 5016 - 52 Street, Camrose, Alberta, T4V 1V7, on or before 12:00 PM, June 30, 2017, and shall be accompanied with GST number and cheque payable to Farnham West Stolee Kambeitz LLP in trust for 10% of the tender price. No conditional tenders will be accepted and the highest, or any tender, will not necessarily be accepted. Tenders will not be opened in public. The deposits of all unsuccessful tenderers will be returned to them by mail. The successful tenderer shall be obligated to complete the purchase on or before Sep. 29, 2017. The 10% deposit shall constitute deposit towards the purchase price. For further info or to view the property, contact Leta Shillington at 780-679-3720.

SASKATCHEWAN 6133

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.

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.

3672 ACRES SOUTH OF CONSUL ID#1100522 Consul, SK: 22 deeded quarters and 1 leased quarter south of Consul. 18 quarters in one block, 5 in another. 2,778 acres of previously cultivated (SAMA) is currently in tame grass, balance is native. MLS® Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com



HANLEY-KENASTON AREA. RM of McCraney #282, 160 acres, 1120 sq. ft. bungalow, new shop, barn with added stock shelter, good water, natural gas, 40 mins. from Saskatoon. Asking \$379,000. Call 306-252-5200.

GRAIN FARMLAND WANTED: Contact Terry at 306-520-8863 or by email to: saskfarmland@outlook.com

LAND FOR SALE: RM of Antler #61, 2 quarters: NW & SW 07-07-33 W1, 330 acres (275 cultivated). Includes 1 oil surface lease, \$2000/year. Ph. 403-470-1354.

Farmland Wanted

- Powerful international marketing network
- Powerful English & Chinese Websites
- Farmland Marketing Specialist
- Featured on CTV / Global TV/ The Globe & Mail
- Farmland Seminar exposure

SASKATCHEWAN 6133

WANTED
GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

LOOKING FOR LAND w/Aggregate Potential In Saskatchewan Call POTZUS LTD.
Phone: 306-782-7423
Fax: 306-786-6909
Email: info@potzus.com

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.

RM OF SPIRITWOOD No.496: 32 ac. new proposed subdivision w/approx. 2100 sq.ft. two-storey family home w/attached double garage built in 1997. Very large kitchen and family area, natural gas fireplace and all major appliances remaining are natural gas. Landscaped yard and tree shelter belt. 32x48 heated workshop w/cement floor. 40x60 steel quonset w/dirt floor. 2 water wells, 3 water bowls. This property is a must-see! Located 8 1/2 miles northeast of Spiritwood. MLS® 610213. To view, call Lloyd Ledinski at RE/MAX of the Battledorfs, 306-446-8800 or 306-441-0512.

findit THE WESTERN PRODUCER CLASSIFIEDS PRODUCER.com

SASKATCHEWAN 6133

DWEIN TRASK REALTY INC. East 1/2 of 6-39-8 W3. 136,300 FMV. Flat & stone free. For details, call Dwein 306-221-1035.

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

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.

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.

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

PASTURES 6136
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.

SUPERVISED PASTURE FOR RENT: 4 wire fence, lots of water, grass, corrals, different sized parcels. Private pasture for 200 cow/calf pairs or more. 25 miles south of Battleford, SK. 24 years of pasturing service. Ph 306-937-3510 or 306-480-2107. Serious inquiries only.

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

WANTED 6138

WANTED TO PURCHASE FARMLAND with lots of oil wells and battery sites on property. 780-499-2367, Edmonton, AB.

ACREAGES 6139

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 www.dreamrealtysk.com

160 ACRES, w/two new 40'x80' drive through shops (14'x14' doors), attached 400 sq. ft. office, A/C, 5 acre gravel yard, 800 sq. ft. log cabin (with loft), septic field and RV dump, town water. Located 2 mi. North of Nobleford, AB. 403-818-8615.



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 Battledorfs, 306-843-7898.

Justin Yin Farmland Realtor
NOA REALTY
Cell: 306-230-1588
Office: 306-361-8926
Fax: 306-665-1443
justin.yin.ca@gmail.com

SASKATCHEWAN 6133

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Farm Boy Realty will advise and guide you in achieving a successful sale.
Guy Shepherd
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MANITOBA 6134

3 QUARTERS WITH YARDSITE: 477 acres in a block. Mixed farm, 300 arable acres. Fenced and cross fenced, 2 shallow wells., 40'x60' machine shed, 34'x44' pole shed, barn, corrals, hay fence. 24'x32' bungalow, w/double attached garage. Located beside the Riding Mtn. National Park. Contact Karen Goraluk-Salesperson, 204-773-6797. NorthStar Insurance & Real Estate. MLS® L701622. www.north-star.ca

CATTLE FARM - 11 quarters and 2 Crown quarters in a block. Near Roblin, MB. along the Duck Mtn. Prov. Park. Approx. 1100 workable acres, majority is hay. Fenced. Dugouts. May consider selling parcels. Scenic area. Yardsite has a 30'x66' pole shed/work shop. 2 cattle shelters. Corrals. MLS #1627477, Karen Goraluk, Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

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, Rorke-ton, 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.

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.

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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 Battledorfs, 306-843-7898.

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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 rndoody1@me.com or call 780-384-2456. Sedgewick, AB.

RECREATIONAL VEHICLES

BOATS/WATERCRAFT 6162

1995 GLASTRON 170 SSV, 17', 130HP Johnson outboard, tarp, depth finder, SS 5 blade prop, \$8500. 306-768-7105 Carrot River, SK

21' GLASPLY INBOARD, cabin tandem trailer, \$10,000. During the day, please call 403-932-2131, Cochrane, AB.

MISTY RIVER 14' aluminum boat, 9.9 HP Yamaha 4-stroke motor, Sprint E-Z Loader trailer, like new, \$3500. 780-856-6929, 780-842-9633, Hughenden, AB.

CAMPERS/TRAILERS 6164

2009 SUNSET TRAIL 30', alum. frame, 1 large slide-out - livingroom, sleeps 6, rear bdrm. large awning, easy pull vg cond., \$15,500 OBO. 306-232-4720, Hague, SK.

FALCON II TRAILER HITCH, 6000 lbs. capacity, tow bar, c/w mounting parts. Phone 306-259-4430, Young, SK.

RENTAL/ACCOMODATIONS

APARTMENTS/HOUSES 6210

APARTMENTS FOR RENT, Langham, SK. Quiet, well maintained, close to schools. 1 and 2 bedrooms starting at \$650. Contact Blaise at 306-349-9351.

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BARLEY 6404

CERT. CDC COPELAND, AAC Synergy, exc. germ. and disease. Fraser Farms 306-741-0475, Pambrun foc@sasktel.net

CERTIFIED #1 LEGACY (6R), Call Fenton Seeds, 306-873-5438, Tisdale, SK.

CERTIFIED #1 METCALFE, Pratchler Seeds Farm, 306-682-3317 or 306-231-5145, Muenster, SK.

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WE BUY:
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Farm Pick up Available
1-800-258-7434 matt@seed-ex.com

AC METCALFE, CDC Copeland; Cert. and Reg., low fusarium/graminearum. Terre Bonne Seed Farm, 306-921-8594 or 306-752-4810, Melfort, SK.

REG., CERT. CDC COPELAND, AC Metcalfe. Call for early order and bulk discount pricing. Visa, MC, FCC financing. Custom treating available. LLSEEDS.CA Phone 306-530-8433, Lumsden, SK.

CERT. AC METCALFE, AC Newdale, CDC Copeland, Legacy, CDC Austenson, CDC Maverick, Van Burck Seeds, Star City, SK 306-863-4377. www.vanburckseeds.ca

CERT. #1 AAC Synergy, CDC Copeland, excellent quality. Northland Seeds Inc., 306-324-4315, Margo, SK.

CDC COPELAND BARLEY, reg. and cert. top quality seed. Gregoire Seed Farms Ltd, North Battleford, SK. 306-441-7851, 306-445-5516. gregfarms@sasktel.net

BARLEY 6404

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CERT. #1 COPELAND, 95% germ., 94% vigor, 0 fusarium. Sandcock Seed Farm, 306-334-2958, Balcarres, SK.

TOP QUALITY CERT. #1 CDC Copeland, AC Metcalfe, Newdale, Frederick Seeds, 306-287-3977, Watson, SK.

DURUM 6407

CERTIFIED TRANSCEND DURUM. Call Craswell Seeds Ltd., Strasbourg, SK., 306-725-3236.

REGISTERED, CERTIFIED AAC MARCHWELL VB, AAC Spitfire, AAC Raymore, Eurostar Durum. High quality, low disease. Reinsner Seed Farm, 306-642-8666, Limerick, SK. breisner@sasktel.net

OATS 6410

SUMMIT, CDC RUFFIAN, AC Morgan, Fdn. Reg., Cert. Terre Bonne Seed Farm, 306-921-8594, 306-752-4810, Melfort, SK.

CERT. #1 CS CAMDEN, Triactor, Souris, excellent quality. Northland Seeds Inc., 306-324-4315, Margo, SK.

CERT. CDC RUFFIAN, CDC Minstrel, AC Morgan, Van Burck Seeds, Star City, SK 306-863-4377. www.vanburckseeds.ca

CERTIFIED #1 AC MORGAN, 0% fusarium/graminearum, 95% germ., 98% vigor. Lepp Seeds, 306-254-4243, Hepburn, SK.

CDC BOYER, CERT. #1, 99% germ., 96% vigor, produces plump seed, good for greenfeed and milling. Stoll's Seed Barn Ltd., 306-493-7409, Delisle, SK.

CERTIFIED #1 CDC RUFFIAN, AC Leggett, CDC Orrin. Call Fenton Seeds, 306-873-5438, Tisdale, SK.

EXCELLENT QUALITY CERTIFIED #1 CS Camden, Summit, CDC Minstrel, CDC Ruffian, CDC Orrin. Frederick Seeds, 306-287-3977, Watson, SK.

WHEAT 6419

CERTIFIED AAC BRANDON, AAC Jatharia Grant, Greenshields Seeds, 306-746-7336, 306-524-4339, Semans, SK.

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CERT. CDC PLENTIFUL early, MR fus. resistance, AC Enchant VB & AC conquer VB. 306-843-2934 Wilkie SK. www.herle.ca

AAC JATHARIA VB, certified #1, midge tolerant, high yielding. Stoll's Seed Barn Ltd., Delisle, SK. 306-493-7409.

CERTIFIED CARDALE, AAC Redwater, CDC Plentiful, CDC Utmost, Pasteur. Van Burck Seeds, 306-863-4377, Star City, SK. www.vanburckseeds.ca

CERTIFIED CDC Plentiful, CDC Utmost VB. Craswell Seeds Ltd., Strasbourg, SK., 306-725-3236.

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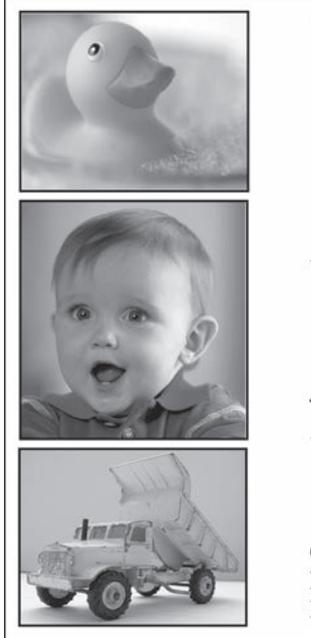
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THE WESTERN PRODUCER

MOUNT VERNON TOUR

Tour provides insight on famous U.S. president

George Washington was a hands-on farmer, credited with having the first manure composter in the country

BY ED WHITE
WINNIPEG BUREAU

MOUNT VERNON, Virginia — George Washington: soldier, rebel, president, slave owner, manure management expert.

Washington is better known for some of his roles than others, with his time as soldier, revolutionary and founding president memorialized in the American national capital, in a state's name, in statues, stamps and dollar bills, but in recent years his lesser known roles are becoming better known.

Washington's farm complex west of Washington, D.C., known as Mount Vernon, is a much-loved historical attraction, recreating a sense of Washington's final home and profession in the years before the nearby capital city took on the form we know today.

The parcel of five farms sprawls over rolling, verdant countryside above the Potomac River and is operated by a trust founded by the Mount Vernon Ladies Association, the charitable group that saved the Washington farm from dispersal in 1858.

Like hundreds of other historical recreations, the farm complex at Mount Vernon is a combination of surviving structures and faithfully recreated buildings. It presents workers and tradespeople in period garb scurrying about doing activities of the time such as blacksmithing, feeding livestock and sewing.

The unique elements of Mount Vernon are the connections it makes between the U.S.'s founding president and slavery and farming.

Indeed, Washington's role as a slave owner and his moral qualms about the dehumanization of Africans and African-Americans now play a central and even dominant role in the exhibitions and interpretive language throughout the plantation.

(Mount Vernon employed about 350 slaves. Washington offered rewards for the return of runaway slaves. He felt that slavery needed to be abolished sometime. His personally owned slaves were freed after his death in his will. Martha Washington's slaves and their descendants were bequeathed to her children from her first marriage.)



LEFT: Tours of George Washington's farmhouse at Mount Vernon in Virginia give visitors a history lesson on the president and his contributions to agriculture.

BELOW LEFT: Washington's interest in agriculture is evident in this restored experimental garden.

| GETTY IMAGES

A tour guide poses with one of the animals at the farm.

| ED WHITE PHOTO



However, while farming is a less highlighted element of Mount Vernon, it is the underlying theme of everything there, because, after all, this was a working farm for generations of the Washington family.

The various crop-growing, livestock-pasturing and orchard-keeping activities of the farm are well-presented and not too dissimilar to those at other 18th century historical recreations, providing a pleasant setting for rambling walks through the lush, upland countryside.

But for somebody with agricultural interests, one relatively recent reconstruction could seem particularly noteworthy: the "repository for dung."

Washington had this primitive

manure and organic waste structure built in 1787 and used it to compost materials that he would later have used as fertilizer. It is unknown how much hands-on manure handling Washington performed personally and how much he had his slaves do.

Ahead of his time

According to the signpost at the dung repository, this is the first known composting structure built in the United States. It was reconstructed in 2001.

Washington was no mere pseudo-aristocrat, lordling over an estate and having the farming overseen entirely by farm managers and slave-drivers. He took an active and

determined interest in agriculture and was a committed farming innovator and evangelist.

He was positively glowing in how he described the value of manure.

"When I speak of a knowing farmer, I mean one who understands the best course of crops ... and above all, Midas-like, one who can convert everything he touches into manure, as the first transmutation towards gold," Washington wrote in a 1785 letter, shortly after the Revolutionary War and before he presided over the crafting of America's constitution and serving as its first president.

Washington didn't get to spend as much time farming as he would have liked. Soldiering and rebellion took up many years of his life,

as did post-revolutionary political work. He was tied up with presiding from 1789 to 1797 and only had a couple of years afterward full-time at Mount Vernon before he died in 1799.

But his body lies in a family crypt on the farm in the midst of his multiple legacies, and one could feel that he would not regret having his bones resting nearby the manure management system that he pioneered and promoted.

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AG NOTES

MAPLE GOES TO MARKETS

The federal government is investing up to \$1.5 million to tap new markets in the United Kingdom and India for maple syrup. Through its Stratégie nouvelle génération de l'érable 2020, the Federation of Quebec Maple Syrup Producers will promote and commercialize Canadian maple products to both markets.

Marketing activities include traditional and social media, blogs, commercial events, educational and promotional tours.

Canada exported about \$380 million in maple products in 2016.

CLEAN INNOVATION RESEARCH

Ottawa is investing \$2.2 million with the University of Guelph to develop technologies, practices and processes so farmers can reduce greenhouse gas emissions.

The three projects with the university are supported by the \$27 million Agricultural Greenhouse Gases Program to help the farming sector become a world leader in the development and use of clean and sustainable agricultural technologies and practices.

Priorities for the program include livestock systems, cropping systems, agricultural water-use efficiency and agro-forestry.

LIVESTOCK MARKETERS SELECTS PRESIDENT

Alan Jackson was recently nominated the new president of the board for Livestock Marketers of Saskatchewan.

Tyler Cronkhite, manager and auctioneer at Cowtown Livestock Exchange in Maple Creek, is now vice-president.

Past-president Stewart Stone, chief operating officer of Heartland Livestock Services, will remain on the board.

Six others round out the LMS board: Blair Brooks of Meadow Lake Livestock Sales, John Williamson of Mankota Stockman's Weigh Co., Pat Tellier of Saskatoon

Livestock Sales, Scott Johnstone of Johnstone Auction Mart, Rhett Parks of Whitewood Livestock Sales and Roy Rutledge of Weyburn Livestock Exchange.

CREATING GREEN OPPORTUNITIES FOR YOUTH

Ottawa plans to invest \$5.2 million over two years for the Agricultural Youth Green Jobs Initiative.

The plan is to attract young Canadians to green jobs within the agriculture and agri-food sector.

The initiative is to help create good, well-paying jobs and to support young Canadians as they transition into the workforce.

Support is available to fund youth internships, both on the farm and with organizations engaged in the agriculture and agri-food sector for environmentally beneficial activities.

The Green Farms stream will provide matching funds of up to \$10,000 to help a farmer hire high school or college students to support environmentally beneficial activities on the farm.

The Green Internships stream will provide matching funds of up to \$16,000 to help organizations involved in the agricultural industry hire young graduates to pursue environmental activities, services or research that benefit the agriculture sector.



Barley seeding began May 11 as the Coaldale Lethbridge Community Growing Project volunteers gathered to put in a quarter section of barley. Proceeds from the crop will be donated to the Canadian Foodgrains Bank. | BARB GLEN PHOTOS



ABOVE: Albert Hofer lifts the endgate while Matt Slingerland makes his way to the back of the truck. The two were among the volunteer crew for the growing project.

RIGHT: Wesley Wipf uses the remote control to guide the auger in filling the grain and fertilizer cart.



GROWING FOR CHARITY

Foreign trip reinforces value of foodgrains bank

Farmer says after a trip to the Middle East he was more eager than ever to participate in the growing project

BY BARB GLEN
LETHBRIDGE BUREAU

TEMPEST, Alta. — Coaldale, Alta., farmer Ed Donkersgoed has long been a supporter of the Canadian Foodgrains Bank, but a trip to Lebanon brought home the true value of the charity.

It has made him even more eager to participate in the Coaldale Lethbridge Community Growing Project for the foodgrains bank, which seeded a quarter section of barley May 11.

"I always felt good about the foodgrains bank but I'd never had the opportunity to see the other side of it. I'd heard the stories but there's something about experiencing that first-hand that I think impacts you. How can it not? It's so extreme, the environment, compared to Canadian life. I'm a bigger fan than I was before."

Donkersgoed and many other volunteers were on hand recently

I always felt good about the foodgrains bank but I'd never had the opportunity to see the other side of it. I'd heard the stories but there's something about experiencing that first-hand that I think impacts you.

ED DONKERSGOED
ALBERTA FARMER

in a field south of Tempest owned by Elaine and Phil Klassen. The equipment, seed and fertilizer were all donated and there will be many more volunteers and donations involved as the crop progresses.

The goal is to raise \$100,000 from this crop through sale of the grain and straw, other donations and the four-to-one matching funds pro-



vided by the federal government.

Larry Penner, a member of the organizing committee, said the Coaldale Lethbridge group is passionate about its annual project.

"We're working to raise money to help feed less fortunate people in the world. It is an incredible opportunity to get people in the community to work together," said Penner.

"We've all watched the news in the last couple weeks with the focus on the drought in Sudan (and) Ethiopia. We see the war and the conflict going on in Syria and Iraq. Canadian Foodgrains Bank is involved in all of these locations, in incredible ways."

The crop seeded May 11 will be auctioned off at an event in July. When it is harvested later this fall, those products will be delivered to the buyers and the money will be given to the CFB for use where needed.

There are about 150 growing projects across Canada this year, said Penner.

This particular project also includes a research element. Crop Production Services supplied two totes of a new variety of semi-dwarf barley called Oreana.

It wants to see how the new pedigreed seed, produced in northern Alberta, performs under irrigation in the south. The rest of the field

was seeded to Champion barley.

A hot seeding day with rain in the near forecast should bode well for a good crop start, said Mandy Otrhalek, a crop production adviser and agronomist with CPS.

As the first seeds went into the ground, Donkersgoed said it was a good feeling.

"It's a good news story in agriculture. There's just no part of it that you can't get behind and feel good about as a Canadian. Canadian farmers are maybe the actuating arm of this project but its Canadians that are supporting it," he said.

"In a small grassroots kind of way, we're making a difference around the world."

barb.glen@producer.com

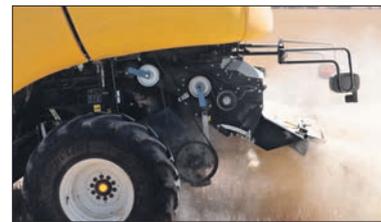


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PRODUCTION

NEW WEED CRUSHING TOOL FROM DOWN UNDER

After a decade of chaff grinding technology testing and limited releases, a new combine mounted unit makes its debut. | **Page 43**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM

FIELD STRATEGIES

Trials test grass and corn as roommates

With Iowa farmland at \$8,500 per acre and corn at US\$3.25 per bushel, squeezing out more per acre is the goal

BY RON LYSENG
WINNIPEG BUREAU

Farmers in a corn and soybean rotation have long recognized the benefit of a cover crop to prevent erosion, but their cover crop seeding window typically slams shut before harvest is complete.

This soil erosion dilemma is compounded by the fact that corn stover is removed from the field because of its dollar value as livestock feed and, more significantly, as a renewable biofuel in producing cellulosic ethanol.

If left on the field surface, corn husks, stems and leaves would protect the soil.

However, farming is a business, so stover gets baled.

The obvious answer to the dilemma is to have a cover crop already growing between the corn rows during the summer, so it's ready to take off and grow again after the bales are gone. The obvious next question is where to find such a cover crop?

That's a question into which researcher Cynthia Bartel has been delving the past two years. She is working toward her PhD at Iowa State University.

In reviewing previous corn cover crop research, she decided there were still numerous unexplored opportunities in seeding perennial grasses between corn rows.

She said she wanted to find grass varieties that would reliably establish and grow adjacent to corn, go dormant in the summer when corn needs all the moisture and nutrients it can find and then pop up again and grow some more before freeze-up.

Another factor high on her list of criteria was that any cover or companion crop must improve soil quality.

"We envision that perennial grass seed might be purchased and planted only every four to five years, which would greatly reduce expenses compared to annual cover crops," Bartel said.

"The success of the system largely depends on using a compatible species."

With Iowa farmland selling for US\$8,500 per acre and more, Bartel knew there was no way corn growers could afford to take land out of production to establish a perennial cover crop. Any potential cover crop had to be planted and established at the same time as the corn.

Her team conducted the field study at two locations: the university's Agronomy and Agricultural Engineering Sorenson Research Farm at Ames and the Northern Research Farm in Kanawha, 120 kilometres north of Ames.

At the Kanawha farm, grass and



Iowa State University researcher Cynthia Bartel says a grass cover crop has a slight impact on corn yield in the establishment year. In subsequent years, yields equal those of the control plots and weed control is enhanced.

| KEN MOORE PHOTOS

corn were planted at the same time. At the Ames farm, they tried to establish grass first but were forced to over-seed grass while they planted corn because of poor grass emergence.

Each farm had 36 plots for the establishment of grass cover in corn and 36 plots for the establishment of grass cover in soybeans. Everything was planted on 30-inch row centres.

They planted Kentucky bluegrass in some plots and creeping red fescue in others.

The older grass varieties selected for the project failed to establish, while the modern grass varieties stayed green too long into the corn season.

At both locations, grass seeding was done with a Tye Pasture Pleaser and corn and soybeans with a John Deere 7100 planter.

"Where the grasses established properly, weed suppression was a definite benefit to using a living mulch," Bartel said.



Bartel's research encompassed 36 grass in corn plots and 36 grass in soybean plots at two separate sites, for a total of 288 plots in the two-year study. Grasses were seeded with this Tye Pasture Pleaser while corn and soybeans were planted with a JD 7100.



Once the perennial grass rows are established, they remain close to the ground and do not shade out the young corn and soybean seedlings. The grass cover can prevent soil erosion and control weeds.

Corn is a C4 warm season grass species. We chose the C3 cool season grass species because we thought it might have genetic traits that would make it more compatible with corn.

CYNTHIA BARTEL
RESEARCHER

"It wasn't as much of a factor in the first year while the grasses were getting a start."

Corn and grass are in the same family, leading to questions about whether this cover crop would contribute to weed and disease problems. Would it have been better to experiment with a broadleaf cover crop?

"Corn is a C4 warm season grass species. We chose the C3 cool season grass species because we

thought it might have genetic traits that would make it more compatible with corn," Bartel said.

"C3 has an inherent summer dormancy, which is something we need, and it has a faster green-up in the spring, which is good for nitrate recycling and reduction of leeching. It has a tolerance for living in the shade of a row crop canopy. Plus, it's low-growing, so it won't shade out young corn and soybean seedlings."

Corn and grass are genetically similar, but Bartel said it would still be prudent to use caution in selecting chemicals for weed control. She said it's been documented by other researchers that a living mulch like this can be very effective in weed suppression.

However, it's still not known whether the living mulch has enough impact to reduce the number of chemical applications.

Bartel said grain yield was slightly less in the first year because the grass was getting a toe hold. In the

second year, control corn and the grass cover corn had similar yields. The grass did not affect stover quality by the second year or stover quantity in either year.

More research required

"Ultimately, there may be a first-year yield penalty for perennial grass establishment in exchange for the natural resources benefits, but refining the system further to ensure compatibility between the row crop and grass cover species should largely minimize that penalty," she said.

"We identified key challenges in varietal selection to ensure that further research efforts are focused effectively. This could very well become a common practice in the future. Right now we're in the very beginning stages of this concept. We're at the 'don't try this at home' stage right now."

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WEATHER

Crop protection firm buys weather company

BASF seeks better product efficacy through weather data collection and modelling

BY RON LYSENG
WINNIPEG BUREAU

In the competitive world of ag fungicides, it's logical that the company providing its customers with the most precisely tuned application recommendations should have an advantage in the marketplace.

That's the thinking behind BASF's recent purchase of ZedX, a global leader in the development of agronomic weather, crop, and pest models engineered to convert data into practical management information, thus leading to more efficient crop production.

The benefit of the deal is obvious to farmers battling crop disease.

More precise label information means the grower uses less product to kill more pathogens.

More effective fungicide use has the immediate effect of a better crop this year, coupled with the long-term impact of fewer pathogens escaping into the residue.

Based in Pennsylvania, ZedX has become recognized as a global leader in the development of digital agricultural intelligence.

Joe Russo, founder and president

As agronomists watch the geographic spread of resistance on their computer screen, they know exactly where they should go with new products. It makes very good use of new chemical technology because you only spray where it's needed.

JOE RUSSO
ZEDX FOUNDER

of the 30-year old weather data analysis company, said the two parties struck the purchase deal after a three-year collaboration working together to develop better prediction models for BASF crop

protection products.

"Our modelling expertise, coupled with BASF's knowledge of chemistry, has benefited growers and agriculture in general. Within the collaboration, we tackled a

number of specific projects," said Russo.

"For example, based on important weather and environmental conditions, we developed a model that gave the right window of application for a BASF herbicide.

"It's not just disease and fungicides. ZedX does global tracking of all pests, insects and weeds. The whole BASF team analyzed our collection of weather and soil data and pest models. It's a mammoth amount of data."

BASF has challenged ZedX over the past three years with various timing scenarios for different crop protection products, said Russo. ZedX would then use its database to establish better computer models for the timing of fungicides, herbicides and insecticides.

"BASF had heard about the weather-based models we could build, so they came to us with a proposal for this three year collaboration," he said.

"The collaboration was really a shakedown for them to understand what we had and how it was compatible with crop protection products they were taking to market."

With formal training in both agronomy and meteorology, Russo said he realized 30 years ago that the interaction between weather, soil and crops was going to be crucial to the future of agricultural production. That's why he started ZedX. At the time, very few people in agriculture realized how deeply farming would come to depend on models that could merge those three factors.

"I wanted to take basic weather data, put it together with basic knowledge of how plants grow and create products that are practical and useful for growers. Since the early 1990s, we've been supplying products that do just that. The models had been more regional in nature until now.

"But the models we've developed more recently are global. When

they evolved and became more sophisticated, that's when we attracted the attention of companies like BASF who saw the value of our products."

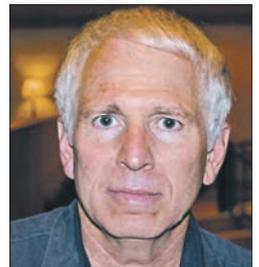
Russo said the pilot collaboration began in Canada and the United States and has since branched out to Europe.

He said the role of his company was not to deal directly with the crop protection product. Whether it was disease, weeds or insects, the chemical component was in the hands of BASF.

Russo focuses solely on tracking the myriad of factors that would prompt a specific crop enemy to rear its head.

He uses the models to predict when a target enemy would begin to appear, in what areas it would erupt and the degree of severity. Armed with that information, BASF then designs the most appropriate application recommendation, which ultimately appears on the label.

"BASF gives me a list of specific weeds or diseases or insects for a certain crop in a defined region of Canada. Then we pull out our inventory of models and fire them up to meet their requests. The information we provide allows them to define the application window more precisely."



JOE RUSSO
ZEDX

Russo said his models have become even more useful as North American farmers begin to pay more attention to the problem of fungicide immunity. ZedX already actively tracks every pest outbreak on the continent, including diseases. Russo can easily call up geographic patterns of resistance for any type of crop enemy on the continent.

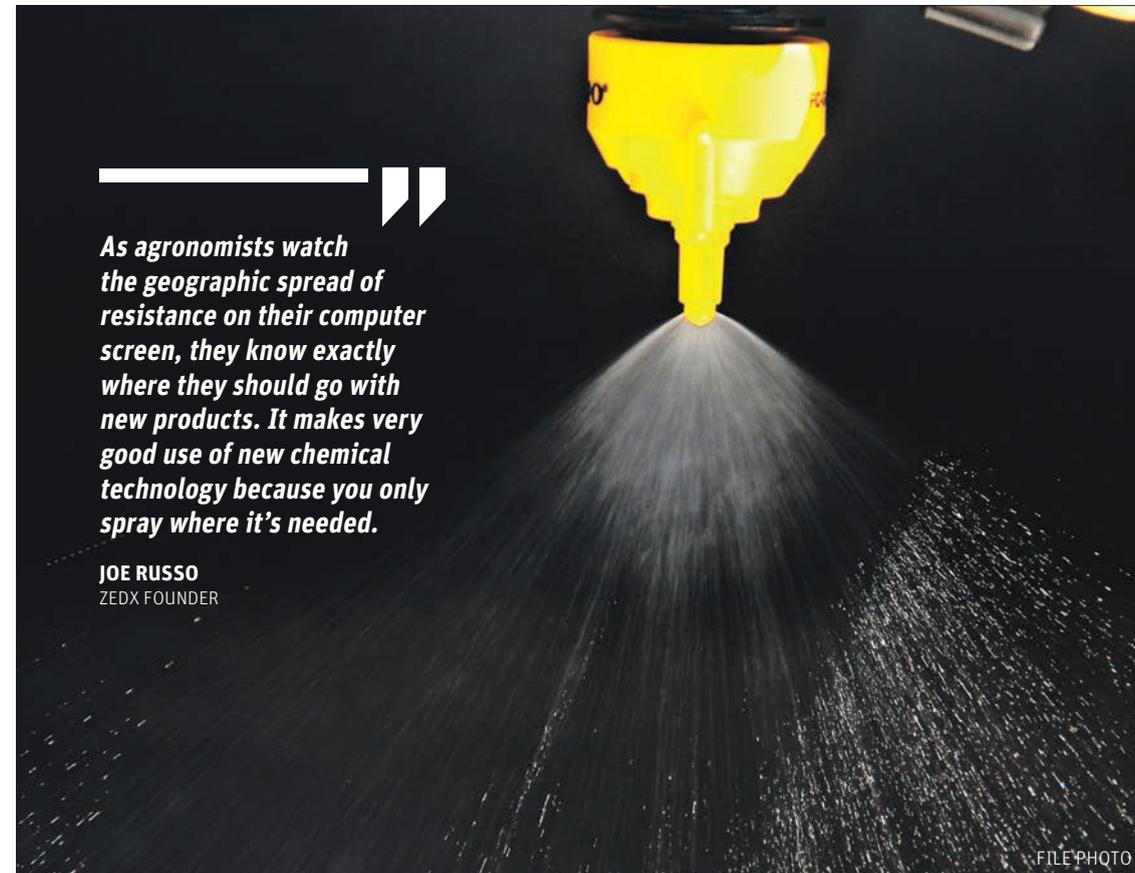
"We've been tracking corn diseases, for example. As agronomists watch the geographic spread of resistance on their computer screen, they know exactly where they should go with new products. It makes very good use of new chemical technology because you only spray where it's needed," he said.

"Moving into the future, as we get into more sophisticated chemistry, products will be much more sensitive to the stage of the crop, the timing of application and weather conditions. Our models provide those windows now.

"The company that's done the best job of fine tuning their label will have an advantage in the marketplace. That's also a big advantage for the grower because now he makes better use of the product. It's a win-win."

The deal is expected to be wrapped up by late May. Modelling products from ZedX will be available shortly after that, the company said.

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FILE PHOTO

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SEED TERMINATOR

Hammering chaff makes mash of weed seeds

The Australian-designed multi-stage hammer mill is mechanically driven, unlike its hydraulically driven competitor

BY ROBIN BOOKER
SASKATOON NEWSROOM

Another harvest weed-seed smasher is being rolled out to Australian producers and may be available to Canadian growers as soon as next year.

The Seed Terminator is a multi-stage hammer mill that can be retrofitted to a range of Class 7, 8 and 9 combines.

“We call it the colour blind approach,” said Nick Berry of Seed Terminator.

“We are trying to commercialize it without having any preference of colour machine. We’ve put it on John Deere, Case and New Holland machines at this stage. We have some plans for Claas and some Massey machines potentially.”

Another machine designed to manage weed seeds discharged out the back of combines, the Harrington Seed Destructor, was originally developed in 2007 by Australian crop producer, Ray Harrington. It is not sold in Canada on a large scale.

Berry said there are major differences between the two technologies.

“Basically, the only thing that is similar is that it mounts onto a harvester and kills weed seeds. The mill technology is totally different,” he said.

“As well, the drive system is mechanically driven rather than a hydraulic drive. So, obviously, that saves a lot of power and cost compared to dealing with hydraulics.”

Canadian farmers may be able to buy the Seed Terminator next year if the limited commercial release in Australia goes well this year.

Last year nine prototypes of the Seed Terminator were installed and tested in nine combines to assist the company’s research and development.

“We had a harvest trial last year during the Australian harvest and

learned a lot, and now we’re going into limited production this year in Australia and hopefully full scale next year,” Berry said.

The company was founded in the middle of last year when it developed its multi-stage hammer mill that it says kills more than 90 percent of weed seeds.



NICK BERRY
SEED TERMINATOR

“It leverages what has been known about hammer mills for a long time, is that they kill weed seeds in a pile of chaff. But until the multi-stage hammer mill, it didn’t really have the capacity to mount onto a harvester,” Berry said.

The straw is separated with a baffle arrangement in the combine, and only the chaff is fed through the Seed Terminator.

“If you end up with too much straw in it (the mill), it could potentially plug up, but that’s more about how you set up this baffle arrangement than anything,” Berry said.

The company aims to sell the Seed Terminator for around \$100,000

The mill draws power from the combine, and because it takes a lot of energy to kill weed seeds in a mill, its efficiency was a top priority.

In addition to having a direct drive as opposed to a hydraulically

powered unit, the Seed Terminator’s efficiency is improved by its trademarked Aero-IMPACT™, which the company totes as a low-turbulence impact technology that uses aerodynamic efficiency.

“When you are dealing with these high speeds in this type of mill, you end up generating a lot of turbulence, which is hot air that is wasted energy basically.... So with our air impact technology, we try to reduce the amount of turbulence that is needed but still get the impact that is needed,” Berry said.

The air impact technology uses the airflow caused by the mill to suck material off of the cleaning shoe and help capture ejected material.

“Because you have all the suction, it’s actually pushing out a huge amount of air on the exit. That means you can direct the airflow and get a pretty good spread. Because the material is all smashed up it actually blows around anyways,” Berry said.

He said the company installed a Seed Terminator into a 16-year-old Class 7 John Deere 9760 STS and it worked well, suggesting the efficiency of the product.

Seed Terminator is currently testing the power requirement of its harvest weed seed destroyer.

“We built two test stands and one more is on the way. One of them is going to be all about testing the power-to-kill relationship with different settings. And we’ve got a torque transducer so we are going to button down that number (power requirement),” Berry said.

The ability of the Seed Terminator to destroy a broad spectrum of weeds is unknown. However, the South Australian Grain Industry Trust has recently committed funding to test the machines efficacy on a broad range of weed seeds, Berry said.

Seed Terminator is committed to

keeping its product below the \$100,000 mark, while the integrated Harrington Seed destructor costs approximately \$160,000.

Berry said how much time it takes to install the Seed Terminator depends on the combine being fit because some modifications are necessary. But he said installation usually takes about two days.

“Basically, it just mounts onto the hitch of the harvester and it is belt driven from the side of the machine.

“It’s a very quick job to remove the machine once it’s installed. You can literally put it on tractor forks or

blocks and have it off in half an hour,” Berry said.

The Seed Terminator does not, however, have to be removed if a grower doesn’t want to use it in a certain crop because operators can simply bypass the mill by taking off the shoots that feed it and then run the combine as usual.

Canadian weed scientists have said harvest weed-seed control with such a machine could become an essential strategy in the fight against the development of herbicide resistant weeds.

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Gina Feist, AAg
Research Program Manager
Western Grains Research Foundation
Saskatoon, SK

Gina’s passion for research has led her to her current role as Research Program Manager at the Western Grains Research Foundation (WGRF). WGRF funds research for the benefit of western Canadian farmers and Gina is responsible for managing the variety development portfolio.

“Being registered as an agrologist (AAg) connects me to a vast network of experts focused on the common goal of advancing agriculture.”

Gina was born and raised in Prince Albert, SK. She received an MBA and a BSc in Biology from the University of Saskatchewan. Prior to WGRF, Gina worked as a Business Development Officer at the National Research Council.



Kirsten Roy, AAg
Sales Agronomist
Sharpe’s Soil Services
Moosomin, SK

Kirsten provides agronomic services and recommendations to producers. She scouts fields, helps load up producers with fertilizer blends, chemical, and seed and assists with inventory management at Sharpe’s Soil Services.

“Being registered as an agrologist (AAg) provides credibility to my recommendations, ensures my knowledge is up to date, and is a resource for networking with other professionals in the industry.”

Kirsten was born and raised on a mixed farm near Moosomin, SK. She received a BSc in Agriculture with a major in Agronomy from the University of Saskatchewan. Kirsten has previous experience as a farm hand prior to joining Sharpe’s Soil Services in 2014, and she currently owns a Farrier business.

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The Seed Terminator mounts onto a combine’s rear frame and requires a belt and pulley system to be installed to provide it power. More than 90 percent of seeds became non-viable in germination testing of weed seeds that were run through the Seed Terminator’s mill. | SEED TERMINATOR PHOTO

PRECISION AGRICULTURE AGRONOMY

A SPECIAL FEATURE OF THE WESTERN PRODUCER | E-MAIL: NEWSROOM@PRODUCER.COM | 306-665-3544 | EDITOR: BRIAN MACLEOD



Researchers examine soil aggregates, which are groups of soil particles that bind together, to develop a soil health test. Spaces within and between aggregates provide pores and pathways for air and water to move. | FILE PHOTO

SOIL HEALTH

Stop and smell the dirt

University of Alberta researchers develop a soil health test by evaluating the composition of the soil

BY ROBERT ARNASON
BRANDON BUREAU

Most farmers and gardeners recognize healthy soil.

It has a certain look and smell and likely feels softer than poorly conditioned soil.

That sense of quality is mostly based on experience and scientists have struggled to measure the traits of healthy soil — until now.

Researchers at the University of Alberta have developed a test to measure soil health by assessing the aggregates within a soil sample.

Aggregates are groups of soil particles that bind together. Spaces within and between aggregates provide pores and pathways for air and water to move.

“Aggregation is very important because better aggregated soils are better able to hold water available for the plant, and to infiltrate water, to manage (wet) conditions,” said Guillermo Hernandez, a University of Alberta assistant professor in agricultural, life and environmental sciences and one of the develop-

ers of the new test.

It seems strange to test and quantify something that is sensory, but farmers and agronomists like metrics.

“There’s a big movement switching toward this idea of having soil

That’s what we want to see in soils. The ability of the soil to hold water and air, which are (critical) for plant growth.

GUILLERMO HERNANDEZ
UNIVERSITY OF ALBERTA

health scores,” said Marla Riekman, land management specialist with Manitoba Agriculture.

Producers are already using soil health tests, such as the Solvita test, which measures the amount of carbon dioxide that a soil sample releases.

More carbon dioxide equals

more microbial activity in the soil.

Cornell University has a comprehensive method to generate a soil health score, which looks at things like soil tilth, soil drainage, the number of beneficial organisms and aggregate stability.

The University of Alberta test assesses the structure of the soil by evaluating soil aggregation.

“How the soil is put together. How the particles in the soil are adding to one another and building the structure of what we call soil,” Hernandez said.

The U of A scientists used 3D laser scanning to get a detailed look at soil aggregates, ranging in size from .25 to 16 centimetres in diameter.

In a news release, the University of Alberta said the results of the tests correlate nicely with known markers of soil health.

“Recent advancements in laser technology have now enabled accurate, rapid measurement of such fractal aggregation, which was previously unfeasible,” the U of A said. “Validation results showed close agreement with soil carbon

and water retention, collectively leading to robust metrics of land sustainability.”

Hernandez said larger aggregates are often “fluffier” than smaller aggregates within soil, likely because the bigger aggregates have more pores for holding water and air.

So with larger aggregates there is more space for water and nutrients to move and additional room for roots to grow.

“That’s what we want to see in soils,” Hernandez said. “The ability of the soil to hold water and air, which are (critical) for plant growth.... People have been able to gain this insight that soil health is what powers the ability of the cropping system, to deliver productivity in the long term.”

However, the scoring system for the U of A test, which doesn’t have a name, is counter-intuitive.

When a sample is tested it receives a score between 0.9 and 1.0. The closer to 0.9, the better the soil quality.

“It (the soil) becomes softer... the

number becomes lower,” Hernandez said.

The U of A researchers used the test on a variety of soil types and different cropping systems and reached several conclusions:

- Native forest and native grassland had the best quality soil.
- Perennial crops and diverse plants enhanced soil quality.
- Fallow and annual cropping decreased soil quality.
- A few years of controlled traffic farming seems to increase soil quality.

Having a test to measure soil health could become essential because consumers and corporations want to know how farmers are managing the land, Hernandez said.

“In order to have access to market, nowadays, and to be able to have social licence, the agricultural sector needs to show those (measures) of sustainability,” he said.

“This would be one way to (quantify) the soil management.”

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Farmers who take images with a camera on a drone can use the Field-Edge Plant Population Analysis program to produce maps that pinpoint problem areas. | SENTERA PHOTO

FIELD MONITORING

Field edge analysis platform delivers the news fast

Sentera's new software allows growers to send their drones out to gather photos, determine trouble spots and take action quickly

BY RON LYSENG
WINNIPEG BUREAU

Farmers who access early warning data on poor emergence have the opportunity to spray out or rip up those tardy acres for replanting or go in with remedial nutrition to rescue them.

The key is to know as soon as possible after emergence if you need to take such action.

One week too late can easily mean a missed opportunity to salvage significant income. Waiting for a professional to fly suspect fields for you might cost that extra week, something prairie farmers often can't afford.

This is precisely what Sentera had in mind this spring in launching its new Field-Edge Plant Population Analysis program.

The Minnesota-based crop imaging company says the platform does exactly what the name implies.

From the edge of your field, it addresses the fundamental issue of putting tools in grower's hands so they create their own crop emergence maps quickly and when they want them. It means better odds of turning those slow acres into profitable acres instead of writing them off.

Timing is the significant feature of the system. Farmers themselves run their own Field-Edge Plant Population Analysis program using RGB images generated by their own drones. There's no waiting for an outside party to arrive.

If a grower wants emergence maps Wednesday morning at 10 a.m., he loads his drone and heads

out to the field, where he's able to generate instant accurate in-field emergence maps mere moments after flying a field.

The analytic program calculates an emergence measurement and visually depicts results with a coloured heat map at the side of the field. It shows where plants are growing and not growing during critical early growth stages.

The grower, along with his agronomist or crop consultant, can then make replant decisions on the spot. The equipment can be out in those delinquent zones half an hour later.



KRIS POULSON
SENTERA

The closed beta program is available to clients in Western Canada who subscribe to the AgVault software platform, said Kris Poulson, Sentera's vice-president of agriculture.

"Right now, we're working with V4 corn, so the plants are touching in-row. We're quickly getting the system to work with V3 corn and then soon with V2 corn," said Poulson.

"That means you'll be able to use your own drone imagery in V2 corn to find the problem areas and deal with them right away. It gives you

instant field-edge data on which plants emerged and which didn't so you can make informed decisions. Is your best course of action to dig up, chemically kill or interseed weak areas with short-season faster-maturing varieties?"

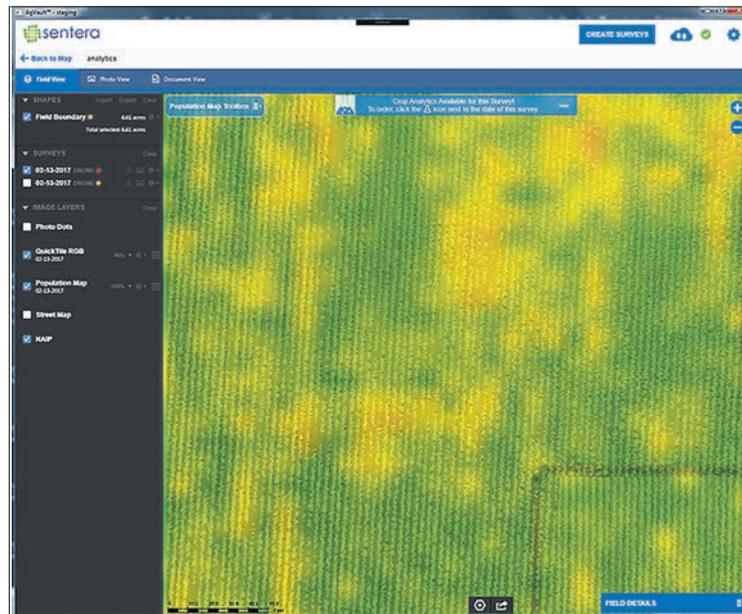
"Replant is the one thing that comes to mind when you hear 'stand analysis,' right? Here's the flip side. The client has this shape file map in the cab, so he can think about nutrient management. Now he has information to help him decide if he wants to bump up the nitrogen or fungicide in the healthy stand and maybe cut back in the weak areas. And it's based on real data gathered that same day."

Poulson said that, conversely, some clients this year have decided to use their stand analysis data to apply TLC to those poor areas in an attempt to rehabilitate them and turn them into productive corn acres. The earlier that decision can be made, the greater the odds of it working.

"We see this more often in the prairie pothole regions where you get bad stands in the low areas," Poulson said.

"If you can identify and chart those bad stands with your drone, then you can count the acres and make a better decision about what to do."

"If you plow down, you don't necessarily have to put those acres back into corn. I owned a crop insurance agency for many years. I had clients who ripped up poor corn acres and put them into soybeans. And not just if you have to do the whole field. It's worthwhile even if you're doing a big piece like



Sentera's Field-Edge program shows areas where plant populations and stress are present and action is needed. | SENTERA IMAGE

50 or 60 acres. If the corn fails, guys figure it's better to put that piece into beans rather than turn it black for the whole year."

Poulson said the platform produces an emergence heat map that's seamless and easy to use. The grower simply scouts a field using a drone-based RGB sensor.

AgVault quickly performs algorithms to produce a colour-coded Plant Population Analysis map within the respective boundary. The result is instantly delivered to the user in AgVault.

All features are available at field edge without an internet connection or upload and to AgVault web and cloud users once the data is uploaded.

"We're targeting corn right now, but we're having real good results with soybeans, sugar beets, potatoes and a few others."

Poulson said the new software is not necessarily tied to Sentera systems, the company they can guarantee excellent results when a farmer does use its systems.

He said Field Edge Plant Population is compatible with many other systems on the market, as long as they can carry the Sentera AgVault platform.

Field Edge runs with nearly all geo-referenced RGB imagery systems, and the list of compatible systems grows daily.

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Drones spit out facts, not answers

UAVs have the ability to alert producers of problem areas, but in-field scouting is needed

BY ROBIN BOOKER
SASKATOON NEWSROOM

LACOMBE, Alta. — Chris Neeser has been studying drones for Alberta Agriculture since 2014 to gauge the usefulness of current technology in agricultural applications.

“We examined the usefulness of imagery from UAVs (unmanned aerial vehicles) for the purpose of weed and disease forecasting, and hopefully the process might answer some of the questions in case you are thinking of getting one for yourself,” Neeser told Murray Hartman’s Science-O-Rama held last month in Lacombe.

Fixed wing and multirotor drones were used to capture images of six crops on two fields each, so 12 fields altogether, and images were



Alberta Agriculture weed researcher Chris Neeser, left, who is seen here attending a field day in Alberta three years ago, is learning how to use drone technology to scout for weeds and disease. | FILE PHOTO

captured three times throughout the year.

Neeser said it was easy to see patterns of vegetative growth in the field when scouting for diseases.

“Patterns can be identified individually, or you could also identify

them using an algorithm,” he said.

“They worked about equally well with some calibration.”

However, it was difficult to know whether these patterns represented diseases or were caused by features in the landscape.

“We can identify patches. We wouldn’t know what they are, but we can locate them and then we have the options to go with a GPS and walk the area to check it out,” he said.

“Or perhaps you could load up the map in a UAV and have that UAV take pictures of that area.”

Weeds were easily identified when in large patches, but it was difficult to discern weeds from crop when it began to canopy.

“From the point of view of the map, we couldn’t make a proper decision in terms of weed control based on this,” Neeser said.

The resolution limitations of the images that drones take are a major problem when it comes to early weed identification.

The camera Neeser used had a resolution of six centimetres per pixel, and if there was a weed seedling that was one cm across, the background overwhelmed the image and the weed was not picked up.

“My images for a quarter section are about 400 to 500 megabytes,” he said. “If you go to the one cm per pixel resolution, you are up into the 10 to 15 gigabytes. Your normal computer can’t handle that anymore. You need a special work station to handle images that size, and it becomes cumbersome to transfer this kind of file and work with this kind of file.”

Instead of taking high-resolution images of the entire field, Neeser took images and measured particular spots in the field.

“(We) developed an algorithm to take out the crop rows... (and then) we can assume that that is weeds,” he said.

“That would allow us to calculate the ground cover of weeds, based on the number of green pixels compared over the total number of pixels without the crop included.”

This allowed him to calculate the density of weeds per image, which allowed him to create grid samples of the fields and create weed density maps.

However, a large number of sample images need to be taken in

order for a grid sampling method to accurately reflect the weed numbers in a field.

“Work that was done in Nebraska in the 90s showed that to do a green map and have some level of confidence in that map, you have to have sample distance of substantially less than 20 metres, so 10 metres or so is what we’d be looking at,” he said.

We can identify patches. We wouldn’t know what they are, but we can locate them and then we have the options to go with a GPS and walk the area to check it out.

CHRIS NEESER
ALBERTA AGRICULTURE

“Ten metres in a quarter section, which is about 800 by 800 metres, it would take you quite a few samples, when you’ve got 6,400.”

He said a fixed wing drone must be equipped with a high speed camera to perform grid sampling, but a multirotor drone requires lots of stopping and starting to perform grid sampling, which quickly depletes its battery.

There is a steep learning curve when it comes to using drones in an agricultural application, he said.

“Do you have the time and inclination to start working with a UAV?” Neeser said.

“It’s a new piece of technology, can be finicky. It certainly takes some time and there is time involved in using it. It can take more time than you would think.”

It is also crucial that users know how to handle the images once they are taken.

“When you capture all these images, if you can’t process them or store them properly or put them onto a GIS, then they are not really that useful,” he said. “Images become powerful once you can overlay them.”

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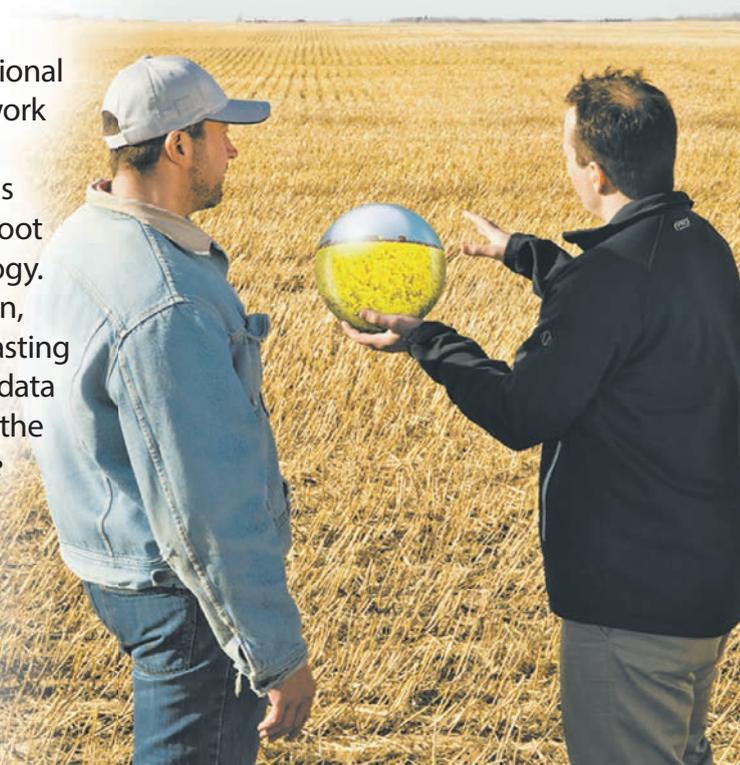
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TECHNOLOGY

Agronomy software manages information during growing season

CropMatrix is tailored for agronomic conditions on the Prairies

BY RON LYSENG
WINNIPEG BUREAU

CropMatrix, an agronomy platform previously available in Australia and the United States, is now available to western Canadian farmers who deal with Richardson Pioneer.

The new, state-of-the-art software is designed to enhance service to farm customers, said Heather Durie, agronomy manager for Richardson Pioneer.

She said Pioneer's version of CropMatrix is specific to crops and conditions on the Prairies.

"The framework or the skeleton is similar for all users around the globe," she said.

"The CropMatrix version we are using is tailored for our agronomic environment and is familiar to our crop mix."

Durie said Richardson Pioneer picked this software because it met its needs.

"Being a retailer, we saw that so

many of the existing software programs were grower specific. We're well accustomed to planning with our customers and making recommendations in the field with our customers, but we needed a system to go beyond that. We couldn't do that until now," she said.

"We needed to organize that agronomic information for internal purposes so we could share it with colleagues on staff, but also we needed a system that's more transparent with each customer as we scout and make recommendations for each field.

"Whether one of our reps was making notes in a notebook or on an Excel document, it just wasn't efficient. CropMatrix allows us to have a two-way interaction as we're planning with our growers. It's more user friendly in the field."

The new platform offers what Pioneer calls a "full-systems" approach to agronomic planning. Its news release says it will enable

reps to work with customers throughout the growing season in developing detailed farm plans.

The information that's collected and assessed will enhance growers' ability to make more informed decisions all year round.

CropMatrix also allows for the interpretation of satellite imagery and the potential to work in precision farming in the future.

"Some people assume we're tackling this just from a precision ag standpoint, but for us, the immediate goal is to service the core of our business today, which is planning and scouting and recommendations. We're not doing the site-specific fertility recommendations you think of when you think of precision ag.

"CropMatrix has the ability to use imagery coming to it, to store point data, to create variable rate recommendations. It has all those options. But as a company, we haven't yet decided our approach to all that. We aren't active in that



The new CropMatrix agronomic software encompasses more than other platforms that are grower-specific, says Heather Durie, an agronomy manager for Richardson Pioneer. | RICHARDSON PIONEER PHOTO

space today, but we understand that in the future we'll need to position ourselves to grow into it.

"Right now, this is simply a year-round tool agronomists can use for planning. The insight and value still comes from our employees in the field. It allows them to more easily present all the options to

our growers."

A side benefit of the program is that it will allow Pioneer to streamline management of field trials across the Prairies and get information out to customers quickly and efficiently.

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LIVESTOCK

THE BATTLE AGAINST HORN AND FACE FLIES

Flies not only annoy cattle but also reduce weight gain. Dr. Roy Lewis discusses available treatments. | **Page 50**



LIVESTOCK EDITOR: **BARB GLEN** | Ph: 403-942-2214 F: 403-942-2405 | E-MAIL: BARB.GLEN@PRODUCER.COM | TWITTER: @BARBGLEN



Reducing the length of time cattle can be in transport without food, water or rest to 36 hours from the current 48 hours is among proposed changes. | FILE PHOTO

LIVESTOCK TRANSPORTATION

Transport times a major issue

Cattle marketers say the proposed new regulations don't suit Canadian transport realities

BY **BARB GLEN**
LETHBRIDGE BUREAU

Some of the proposed changes to Canada's livestock transport regulations don't sit well with the Livestock Markets Association of Canada.

The group represents livestock auction market owners across Canada and many of the changes proposed by the Canadian Food Inspection Agency will directly affect them.

"It will affect a lot of the way that we do business," said LMAC past-president Scott Anderson.



SCOTT ANDERSON
LIVESTOCK MARKETS ASSOCIATION
OF CANADA

"Given the Canadian landscape and geography, it's an everyday occurrence to ship cattle long distances."

Among the concerns is a proposal to shorten the length of time cattle can be in transport without food, water or rest. Current regulations allow cattle to be transported for 48 hours at a stretch, which can be extended to 52 hours in certain circumstances.

Proposed regulations would see that shortened to 36 hours.

Anderson said that number appears to be based on American or European regulations, where available slaughter plants and unloading stations are more widely available and/or transport distances are shorter.

"We have to realize that given Canada's geography, (the system is) not broken, so why should we try to fix it," said Anderson. "As market operators and order buyers and cattle dealers, it's up to us, the person who buys the animal and ships the animal, it's up to us to make sure that the cattle get off the truck at the other end healthy and safe because we aren't going to get paid if they don't."

Anderson, who is co-owner of Winnipeg Livestock Sales and owner of Anderson Livestock, said Manitoba cattle destined for a federal slaughter plant have to travel west to southern Alberta, south to an American plant or east to Ontario.

Transport times can be lengthy in all cases, but are manageable within the current 48 hours allowed.

The LMAC made submissions to the CFIA during a comment period that ended in mid-February. It specifically noted the issues involved in shipping cattle out of Manitoba.

For example, Thunder Bay has the only two cattle unloading, feeding and watering facilities in northern Ontario if cattle must be offloaded for feed, water and rest between Manitoba and eastern Ontario.

Cattle going there from Winnipeg would be arrive within 10 to

12 hours of loading. A stop in Thunder Bay would be too soon into the trip, but continuing on to eastern Ontario plants without stopping would keep animals on the truck longer than 36 hours.

"If there's going to be an injury, chances are the injury will occur during unloading or loading, so it's tough to say what is best."

SCOTT ANDERSON
LMAC PAST-PRESIDENT

As well, facilities in Thunder Bay have a combined 38 pens, which might not be enough space given peak shipping periods and the need to segregate animals in some cases. Animals in transit that originate in Alberta and Saskatchewan often use the Thunder Bay facilities.

There is also increased risk in unloading and reloading cattle.

"If there's going to be an injury, chances are the injury will occur during unloading or loading, so it's tough to say what is best," Anderson said.

Added the LMAC in its submission: "Travelling the most direct route through the north, there are no other locations between Thunder Bay and Ottawa to unload cattle destined to eastern Ontario or Quebec."

The common practice under current rules for Manitoba loads heading east is for drivers to run

until they need a rest break. They then stop and sleep for eight to 10 hours before continuing. Cattle reach the destination within the 48-hour time frame.

"Consideration must be given to the fact that there is not enough infrastructure and facilities to accommodate the volume of cattle moved during peak times (fall and spring) if the 36-hour regulation is implemented," the LMAC wrote.

It further noted that Canada's trading partners have not asked for changes to transport regulations, nor have the current ones restricted trade.

In its impact analysis statement that accompanied the proposed new regulations, the CFIA said it expects that changes to the maximum transport intervals "would contribute to increased consumer confidence in animal food products purchased."

The LMAC took exception to this in its response, saying the CFIA stance "insinuates that an ethical decision must be taken into consideration, which may indicate that the regulator have (sic) the opinion that the producers, and the additional parties involved in the raising and transportation have no ethics when it comes to their livestock. Nothing could be further from the truth."

Comments provided to the CFIA by all parties are now under consideration, according to Dr. Cornelius Kiley of the CFIA. A large number of responses were received.

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ANIMAL NUTRITION CONFERENCE

New rules on use of antibiotics for livestock

Regulators promise smooth transition

BY **BARBARA DUCKWORTH**
CALGARY BUREAU

QUEBEC CITY, Que. — New antimicrobial regulations could be published this year changing the way medications for livestock are bought and sold.

No products will be prohibited and officials at Health Canada's veterinary drugs directorate have promised a smooth transition to the new system.

"Our role in ensuring stewardship of antimicrobials is to make sure the products on the market are safe and effective and high quality," said Mary Jane Ireland, director-general of the directorate. She described the rule changes at the animal nutrition conference of Canada held May 10-11 in Quebec City.

The first round of regulations and policy changes was enacted last year and Ireland said the final regulations are expected sometime in 2017.

The six major changes are as follows:

- Increase oversight on the importation of veterinary drugs for own-use on farm. This will be prohibited with the exception of certain products. No products that are medically important to humans or prescription drugs will be allowed.
- More oversight on the importation of active pharmaceutical ingredients to ensure these products are of the highest quality and produced with good manufacturing practices, as well as require persons who import, fabricate, package, label or test veterinary APIs (active Pharmaceutical Ingredients) to do so in accordance with an establishment licence.
- Mandatory reporting of sales and imports is coming because there is poor understanding of what is sold in Canada. Manufacturers will report on an annual basis on the total quantity sold and which species it was intended for. This covers imports of drugs and APIs.
- Access to low risk veterinary products will be allowed.
- The interim notification pilot program has been in place since 2012 to allow sales of products like vitamins, minerals or

CONTINUED ON NEXT PAGE >>

HEALTH CRISIS

Antimicrobial resistance a global issue

In some countries, antibiotics are used as a substitute for sanitation

BY BARBARA DUCKWORTH
CALGARY BUREAU

QUEBEC CITY, Que. — Resistance to antimicrobials has turned into a major health crisis, says the head of the centre for disease dynamics, economics and policy.

"We have not seen a problem of this magnitude that encompasses the world since HIV," said Ramana Laxminarayan, who is also affiliated with Princeton University.

Bacterial resistance to antimicrobials became a significant problem at about 2000. Today, serious medical problems have developed over the issue, such as when hospitalized patients develop infections and no antibiotic can cure them.

Various types of bacteria are showing high levels of antimicrobial resistance in many parts of the world.

African studies have shown newborns with resistant infections are far more likely to die.

"A 50 percent chance of a newborn dying of infection seems unacceptable to me," he said.

Countries in the Far East report the highest number of resistant bacteria. About 58,000 deaths in India have been attributed to resistant bacteria.

However, probably more people will die because they did not have access to antibiotics versus those who faced drug resistance, said Laxminarayan.

Infectious diseases are declining but not fast enough. Most of the improvement is attributed to better hygiene, sanitation and water treatment, as well as active public health departments.

Antibiotic use in the agriculture sector is increasing globally, particularly in places like India and China.

Antibiotic use for livestock is increasing around the world with the top 10 consumers being China, United States, Brazil, Germany, India, Spain, Russia, Mexico, France and Canada.

Too often these drugs are used as



Antibiotic use in agriculture is increasing, but research into alternative medicines is costly.
| CHERYL HARE PHOTO

a substitute for sanitation and hygiene rather than as a complementary product, said Laxminarayan. Consequently, there are diverse and abundant antibiotic resistant genes in Chinese swine farms, he said.

"There are alternatives for antibiotics but we haven't really got very far."

There are alternatives for antibiotics but we haven't really got very far.

RAMANA LAXMINARAYAN
PRINCETON UNIVERSITY

Tim McAllister of Agriculture Canada at Lethbridge said people must accept that microbes are part of the natural world and will never be eliminated.

Antimicrobial products are used for production of animals, aquaculture, seed crops, fruit, companion animals, industrial and household chemicals, as well as to treat humans.

Most of the push to get rid of antibiotics comes from consumers who fear residues and resistance.

"Removing antimicrobials in

terms of their use is not a guarantee you will eliminate antimicrobial resistance," McAllister said.

"Antimicrobial resistance may go down but it is unlikely it will ever go to zero," he said.

The problem comes down to the bacteria themselves.

They are masters of adaptation and can take in new information into their chromosomes to protect themselves against a host of threats. Finding new products to stay ahead of resistance is time consuming and expensive.

There are 37 new antibiotics in development among 34 companies. Only five of those developers are from the top pharmaceutical companies.

Probably 80 percent of products in development are pursued by small companies, many of which are venture capitalists hoping to be taken over by a larger corporation.

New products focus on the basic premise of figuring out how to kill the bacteria.

Some work by destroying the bacterial cell wall or impairing its ability to synthesize protein.

However, the target bacteria may have already integrated several different ways to resist an antibiotic.

Further, most bacteria grow in

biofilms that offers a protective layer to prevent outside attacks.

Vaccines present a promising alternative, but most operate in traditional ways. Currently, the best vaccines are only about 70 percent effective.

Plant extracts like tannins and essential oils, as well as organic acids, probiotics, prebiotics, bacteriocins and bacteriophages have all been considered.

Probiotics may occupy the binding sites on the epithelium and prevent pathogens from attaching in the guts. They may also reduce inflammation. However, probiotics have to be administered every day.

Bacteriocins are toxins produced by bacteria to inhibit the growth of similar or closely related bacterial strains.

Bacteriophages overtake bacterial cells as a form of biocontrol but they kill only a precise bacterial strain and do not have a broad spectrum application.

McAllister said research into antimicrobial resistance and alternatives to antibiotics needs to grow into a major science if it is to deliver innovative therapies. However, it is very costly, he said.

barbara.duckworth@producer.com

» CONTINUED FROM PREVIOUS PAGE

Chinese medicines. It has allowed about 600 oral and topical products to enter Canada for pets and horses. It will be expanded to food producing animals and allows products like calcium boluses to prevent milk fever.

- Growth promotion claims from medically important antimicrobials will be removed. Health Canada has not approved one of these since 2004 and there is no modern data that says they work. About 64 products are implicated. Regulators do not want to take them off the market but need to find other ways to describe them.

- Increase veterinary oversight and prescriptions for all antimicrobials sold. This includes over-the-counter and medicated feed products.

Provinces and territories may make additional rules about who can sell veterinary drugs.

"The bottom line for in-feed medications containing medically important antimicrobials is that we want you to have a prescription and provide vets notice before you receive it," Ireland said.

"We want to make sure you have the same tools available to you to mix, blend, refer or reference."

The same products will still be included in the Canadian Medicat-

IN THE U.S.
23,000
DEATHS ANNUALLY
ARE ATTRIBUTED
TO ANTIMICROBIAL
RESISTANT BACTERIA

ing Ingredients Brochure.

The changes are partly motivated by the growing problem of antimicrobial resistance around the world. More drugs are less effective in preventing and controlling infection.

Antimicrobial resistance is often blamed on the widespread use of treatments for livestock. Antimicrobials can include anti-virals, antibiotics, anti-fungals and anti-parasitics.

"There is no doubt antimicrobial use in animals is only one part of a very complex issue. In Canada, we estimate 70 percent of all medically important antimicrobial drugs are sold for use in food producing animals," Ireland said.

That number sounds surprising but it is important to remember how many animals exist as well as their size.

Health Canada estimates more than 20,000 hospital patients in Canada develop infections that

are resistant to antimicrobials resulting in more than \$250 million in direct medical costs every year.

Globally, the use of antimicrobials in food-producing animals is estimated at 63,000 tonnes in 2010 and it is expected to grow to more than 100,000 tonnes by 2030.

Canada estimates about 1.6 million kilograms of antimicrobials were distributed for animal use in 2013.

Health Canada reports infections caused by antimicrobial-resistant bacteria cause at least two million illnesses and at least 23,000 deaths annually in the United States.

In Europe, about 25,000 patients die each year from drug-resistant bacterial infections.

The full comments on the changes may be viewed at: bit.ly/2dTh2MO.

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MEDICATION USE

Drugs take time to work: vet

BY WILLIAM DEKAY
SASKATOON NEWSROOM

Patience is a virtue when it comes to administering medications to food-producing animals.

"Be patient. Once you've started treating, and it depends a little bit on what drug, but with an antibiotic once you start treating, that antibiotic usually needs at least 24, if not 36 to 48 hours before you decide it is not working," said Fabienne Uehlinger from the Western College of Veterinary Medicine at the University of Saskatchewan.

Uehlinger spoke about the appropriate use of medications during the Healthy Sheep and Goat Workshop at the U of S in April.

The veterinarian said her patience can sometimes be tested when producers call to say drugs they have administered the day before are not working and wonder about switching medications.

"Producers often expect a miracle response to drugs. You have to be patient. I think that's a problem for all of us. We sort of want an immediate cure. It's not happening. Drugs need time to work."

Other factors to consider are correct timing and duration. Uehlinger said producers shouldn't wait to use medications until it's too late and they shouldn't use a medication when it's not needed.

"We need to strike a balance between not waiting too long, but also not just treating because the animal may seem off a little bit. That's a difficult one. It comes with experience," she said.

Uehlinger said drugs are both the producer's and veterinarian's responsibility.

However, most producers treat their own animals, particularly with minor livestock species such as sheep and goats.

Gordon Schroeder, president of the Saskatchewan Sheep Development Board, said his organization is against ad-hoc drug use. He expressed concerns that there are not enough large animal veterinarians to handle additional regulations and needs of producers.

"You need a veterinarian to give you that antibiotic drug. If the vet-client relationship is not there, nor do they have time to develop that, what is the alternative?"

The ability for vets to use a full range of medicines in food-producing animals is essential.

"So we as veterinarians (in Canada) can actually decide that in specific circumstances we want to use a drug in a different way than what it says on the label. We have that privilege for a lot of the drugs," Uehlinger said.

"If we're not careful with that sort of willy-nilly use of it, just because it's convenient, then that can be taken away from us.

"I just don't know whether they (producers) always understand some of the implications that routine and blind management practices have."

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INSECTICIDES

New products help treat horn and face flies in cattle

ANIMAL HEALTH



ROY LEWIS, DVM

Producers today have a larger arsenal of products available to combat horn flies and face flies compared to 15 years ago.

These insects can cause considerable livestock weight loss and irritation issues.

Horn flies are the ones we see on cattle's backs in summer. They bite through the hide 20 to 40 times

daily and draw blood. This makes quiet cattle nervous, which leads to lower milk production, and that can reduce calf weaning weights by as much as 14 percent. The calves get a double whammy — less milk plus fly bites and irritation.

Face flies feed on animal secretions, such as eye discharge, and can be so bothersome to cattle that they graze one hour less per day. That leads to less weight gain. As well, face flies can spread diseases such as pinkeye.

The life cycle of both flies involves eggs being laid in cattle manure. Their entire life cycle lasts two to three weeks, which means there can be up to five life cycles through the summer in our northern climates. More than 50 face flies per

animal are significant.

Several options exist including insecticide ear tags that have been around since the 1980s, pour-on macrocyclic lactones (ivermectin type products like Solmectin or Ivomec) and pour-on pyrethroid products like Saber, Boss or Cylence.

Flies, lice, internal parasites and ticks can all reduce cattle weight gains or milk production

Several years after the fly tags came out, resistance started to develop so different chemical compounds were developed.

Now, we can watch for the reoccurrence of flies. These products

should give almost 100 percent protection from flies for the first few weeks.

If this is not the case, resistance may be developing and a switch to a different product may be necessary. There are also fly control products given by cattle oilers mixed with mineral oil or canola oil.

The cattle oiler options have been reduced lately with the removal of Malathion and I would recommend producers avoid mixing with diesel fuel if using cattle oilers.

The cattle oiler product available

in Canada is a permethrin insecticide. One of the trade names is Ectiban but there are others and with insecticides we need to follow the label.

Oilers can provide continual treatment for flies, and lice and mosquitoes are indicated as well. A disadvantage is that oilers require a large capital outlay and yearly maintenance. There is a one day withdrawal time from an oiler before shipping cattle to slaughter.

The macrocyclic lactones (primarily the ivermectins) are the pour-on products most of us are familiar with.

They are still highly effective against lice and warbles but the effectiveness is waning against internal worms and many producers or veterinarians don't think of them as a fly treatment even though they could be.

They are on label for fly control for 35 days and because the product goes systemic and is excreted in the manure, the fly larvae will be killed. Killing the larvae is a big benefit before they become flies.

These products have a longer slaughter withdrawal (49 days for most) but the ivermectin products have come down greatly in price over the years so are economical to use.

The broad spectrum of activity with an easy way to apply make these types of products advantageous.

The pour-on pyrethroids are the next category of insecticides producers and veterinarians can use for fly control.

These products generally work for both flies and lice. Some have efficacy for certain ticks as well. They require a small volume of material poured over the back. The products I am most familiar with are Saber, Boss and Cylence.

All of them work about the same way and control lice biting and sucking, as well as have a few weeks duration for effective fly control. Withdrawal times range up to a week but slaughter dates rarely come into play on pasture cattle.

The fly tags available on the market have a longer duration at about three months but are limited to fly control. Longer duration leads to higher cost and more labour to take old tags out and put in the new ones.

With point-in-time treatments, the closer a producer can treat to the actual fly season, the greater the benefit.

Any time a producer is running cattle through the chute in later spring or during summer, fly control should be on the to-do list.

With multipurpose products, weight gains are generally cumulative with flies, lice, internal parasites and in some cases ticks, all adding to decreased gains.

By breaking the fly cycle and killing adults early, we reduce the fly level for the entire season.

In our neck of the woods, July and August are the worst times for flies. Ask your veterinarian about recommending good fly control products. Apply it properly at the right dosage and reap the benefits of good quality fly control for your entire herd.

Roy Lewis works as a technical services veterinarian part time with Merck Animal Health in Alberta.

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CROP REPORT

ALL CONDITIONS AS OF MAY 19 VISIT WWW.PRODUCER.COM REGULARLY FOR UPDATED CROP REPORTS

MANITOBA

SOUTHWEST

- Seeding progress was good at 30 to 35 percent.
- Early seeded cereals are emerging slowly because of moderate soil temperatures and colder nights.
- Producers are applying burn-off treatment before or right after seeding for weed control.

NORTHWEST

- Rainfall ranged from 13 to 30 millimetres.
- Soil moisture is rated as adequate, and topsoil temperatures range from 5 to 10 C.
- Field progress includes harrowing, fertilizer applications, pre-seed herbicide applications and seeding of wheat, silage corn and canola.

CENTRAL

- Precipitation varied from 10 to 30 mm with near normal temperatures.
- More than usual spring fertilizer is being applied because few acres were cultivated last fall.
- Seeding progress ranges from 40 to 95 percent complete, and a significant number of producers have wrapped up seeding operations.

EAST

- Rainfall was marginal, and most topsoil moisture conditions on cropland are adequate, while hay and pastures are rated 80 percent adequate.
- About 80 percent of seeding is completed.
- Winter wheat fields are being terminated and reseeded into spring wheat, canola and soybeans.

INTERLAKE

- Precipitation ranged from four to 17 mm.
- Seeding is about 80 percent complete with some spring cereals emerged in higher ground.
- Low forage production is delaying the movement of cattle onto pastures.

SASKATCHEWAN

SOUTHEAST

- Seeding operations are rapidly advancing and 60 percent complete compared to the five year average of 33 percent.



A farmer near High River, Alta., sprays fertilizer onto a field in early May. | MIKE STURK PHOTO

- Rainfall ranged from three to 22 mm along with strong winds.
- Topsoil moisture conditions for cropland, hayland and pastures are about 71 percent adequate.

SOUTHWEST

- With optimal field conditions, seeding is quickly advancing at 46 percent complete.
- Rainfall ranged from small amounts to 10 mm.

- Cropland, hayland and pasture topsoil moisture has an average rating of 97 percent adequate.

EAST-CENTRAL

- Seeding is 19 percent complete.
- Precipitation varied from small amounts to 10 mm.
- Topsoil moisture conditions for cropland, hayland and pastures average 76 percent adequate.

WEST-CENTRAL

- Wet field conditions are slowing seeding, combining and herbicide applications, but seeding is 16 percent complete.
- Precipitation ranged from three to 32 mm, while hail was reported in the Rosthern area and frost in the Tugaska area, although damage was minimal.
- Cropland topsoil moisture is rated 80 percent adequate, while hayland and pastures are rated 91 percent adequate.

NORTHEAST

- Four percent of crop is in the ground compared to the five year average of 20 percent.
- The majority of the region has saturated fields and further rainfall ranged from 10 to 30 mm.
- Cropland topsoil moisture is rated 68 percent surplus and 32 percent adequate, while hayland and pastures are 61 percent surplus and 39 percent adequate.

NORTHWEST

- Eight percent of the crop is in the ground compared to the five year average of 34 percent.
- Precipitation varied from 15 to

47 mm and the Pierceland area has received the most precipitation in the province with 178 mm since April 1.

- Cropland topsoil moisture is rated as 41 percent surplus and 59 percent adequate. Hayland and pastures are 29 percent surplus and 70 percent adequate.

ALBERTA

SOUTH

- Seeding operations are 64 percent complete with about 16 percent emerged.
- Fall seeded crop conditions are 55 percent good and 38 percent excellent.

- Pasture and tame hay conditions are rated 71 percent good and 23 percent excellent.

CENTRAL

- Harvesting will soon wrap up while seeding is 33 percent completed, and three percent of crops have emerged.

- Pasture and tame hay conditions are rated 72 percent good and 21 percent excellent.

- Fall seeded crop conditions are rated 78 percent good and 15 percent excellent.

NORTHEAST

- Seeding stands at eight percent complete because many fields

remain extremely saturated with 40 percent excessive surface soil moisture.

- Fall seeded crops are rated 78 percent good and 15 percent excellent.
- Pasture and tame hay conditions are rated 75 percent good and 21 percent excellent.

NORTHWEST

- Only five percent of seeding is completed.
- Combines and seed drills aren't able to work because many fields are extremely saturated with 40 percent rated as having excessive surface soil moisture.

- Pasture and hay conditions are rated 54 percent fair, 39 percent good and seven percent excellent.

PEACE

- Seeding is 18 percent complete, up 17 percent from last week.
- Pasture and tame hay conditions are rated 55 percent good and 31 percent excellent.
- Fall seeded crops are rated 30 percent fair, 60 percent good and 10 percent excellent.

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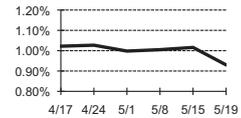
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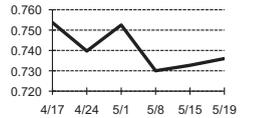
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Peter Hall, vice-president and chief economist for EDC, holds up a "made in China" signature Donald Trump tie to illustrate international supply chains and how they work during his economic update organized by the Saskatchewan Trade and Export Partnership in Saskatoon May 9. | WILLIAM DEKAY PHOTO



TRADE OUTLOOK

Sunny export market forecast

Economist says Saskatchewan produces many products in demand by 'hungry markets in the world'

 BY WILLIAM DEKAY
SASKATOON NEWSROOM

Trade policy bluster from the administration of President Donald Trump is just that, bluster, says a leading economist.

"It's about getting a better deal," said Peter Hall, chief economist at Export Development Canada.

"The idea is to move the needle this way and that's why individual industries (softwood, dairy) are being picked on. They are showcases to demonstrate that they mean business," he said May 9 during his economic update in Saskatoon, sponsored by Saskatchewan Trade and Export Partnership.

"But undo the whole thing is way too risky, way too damaging."

Hall said people need to consider how trade restrictions would hurt Americans.

"We have to look at how policies that inhibit trade would hurt the average American. And some of those are very deep effects on average Americans and average American businesses," he said.

"If you pick on something that's actually going to undermine your very growth architecture, then you're in a lot of trouble from the very people that you are trying to make better off"

Trade with Canada creates many jobs in the United States. Thirty-two states count Canada as their number one international customer and nine more as number two. Hall said 1.7 million jobs are at

risk if there is a trade disruption between Canada and the U.S.

However, looking past the ongoing policy turbulence, Hall is confident about future economic growth and particularly export markets in Canada.

"Growth is actually happening out there and I'm very excited about that for us here in Canada and the world situation. I'm also

When we see pent-up demand in key economies around the world, that's one of the surest signs that things are about to ramp up.

 PETER HALL
EXPORT DEVELOPMENT CANADA ECONOMIST

excited about what it means for the architecture of policy, because nobody wants to wreck what is actually a good thing that is going on out there in the marketplace," he said.

Hall's robust forecast sees world economic growth will rise to 3.8 percent from 3.5 percent. In Canada, he predicts modest increases in commodity prices and the dollar remaining below US80 cents.

However, he cites low interest rates as it relates to an overbuilt housing market throughout Canada for a dismal domestic economy.

"Our consumer indebtedness ratio is the same as it was roughly

speaking as it was in the United States just before the recession occurred. We've enjoyed low interest rates but we've overdone it a bit," he said.

However, the backdrop for Canada's export economy looks solid. EDC believes exports will grow six percent this year and five percent next year.

Saskatchewan's exports are expected to rise nine percent this year thanks to a rebound in energy exports and a further three percent next year.

While conditions will remain stable, the province's agri-food sector exports will slow to about two percent over the next few years, mostly because of global conditions and current inventories across a number of commodities.

Chris Dekker, chief executive officer of STEP, said a two percent increase in a large sector like agriculture is significant.

"Over the last two or three years, the agriculture industry has really been the saviour of the economy in light of very low commodity prices for our other propulsive sectors..."

Hall's strong forecast sees an even brighter future on the near horizon.

"Hang on to your hat because what we are seeing is the reinvigoration of world growth, starting in the United States, spilling over into western Europe and going into the emerging markets space will resume a very powerful growth force in the world economy," he said.

"When we see pent-up demand in key economies around the world, that's one of the surest signs that things are about to ramp up."

As a result, diversification, particularly for Saskatchewan's high export ratio, will grow.

"Diversification will happen automatically because of the differential rates of growth.... So that enables Canada to actually gain market share in those high growth places..." he said.

Hall said Saskatchewan export prospects are well positioned for the medium- and long-term.

"We at EDC are paying attention to that ... because you are producing all those things that are needed by these increasingly hungry markets in the world."

"They're consuming food in a brand new way that creates a lot of demand for Saskatchewan product."

Hall said EDC is for the first time offering market intelligence to its customer base.

"That's one of the first things companies are looking for.... We're there to mitigate the risks that Canadians feel going into markets that they're not familiar with."

Hall said EDC's aggressive expansion means that its customer base will rise from its current 7,500 clients to about 30,000 by 2020.

"We're very serious about that given global conditions and given the new ways that we're actually doing business," he said.

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AG STOCKS MAY 15-19

The turmoil around the investigations into the Trump campaign's alleged connections to Russia drew momentum away from promised tax cuts and economic stimulus. For the week, the TSX composite fell .5 percent, the Nasdaq fell .6 percent and the Dow and the S&P 500 both dropped by .4 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	41.50	41.96
AGT Food	TSX	25.76	25.31
Bunge Ltd.	NY	69.68	69.93

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	1.04	1.18
Cervus Equip.	TSX	12.01	12.00
Input Capital	TSXV	1.98	1.91
Rocky Mtn D'ship	TSX	9.68	9.86

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	37.72	37.46
Hormel Foods	NY	34.83	34.41
Lamb Weston	NY	44.38	42.20
Maple Leaf	TSX	34.27	33.79
Premium Brands	TSX	91.83	85.28
Tyson Foods	NY	58.56	58.24

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	57.00	58.82
AGCO Corp.	NY	64.18	63.74
Buhler Ind.	TSX	4.40	4.51
Caterpillar Inc.	NY	102.43	100.71
CNH Industrial	NY	11.18	10.72
Deere and Co.	NY	120.90	113.11

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	125.12	124.67
BASF	OTC	96.16	98.10
Bayer Ag	OTC	130.74	127.54
Dow Chemical	NY	61.29	62.04
Dupont	NY	77.82	79.30
BioSyent Inc.	TSXV	8.15	7.86
Monsanto	NY	116.10	116.22
Mosaic	NY	23.65	22.91
PotashCorp	TSX	22.48	22.37
Syngenta	ADR	92.78	92.81

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	101.24	101.66
CPR	TSX	210.40	213.10

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.

Buhler still suffering losses

SASKATOON NEWSROOM

Buhler Industries reported a \$300,000 loss in the second quarter but expects profits will improve later this year as cost cutting measures take effect.

Equipment demand is hurt by weak crop commodity prices. The weak Canadian dollar makes imported parts more expensive. However, equipment demand so far in 2017 is better than in 2016.

For the first six months there was a net loss of \$2.7 million, but that was better than a loss of \$7.2 million in the same period last year.

CAPITAL GAINS EXEMPTION

How to determine if you are an active farmer

TAKING CARE OF BUSINESS



COLIN MILLER

Quick, check your heart rate. No, not to see if you are living an active lifestyle but to see how nervous this subject makes you.

I recently received a question on the consequences of being an active versus inactive farmer. We notice many clients coming in with a different perspective of how these rules apply, maybe because being an active farmer effects more than one tax rule.

Being an active farmer affects your eligibility for the lifetime capital gains exemption (LCGE) and the family farm rollover rules.

Not following the rules correctly could result in the loss of your \$1 million exemption on capital gains or even cause you to pay tax on the entire increase in the fair value of the land that could have been avoided.

In simple terms, active farming is when a farmer who runs an operation and is engaged in day-to-day farming activities earns income. This can include agreements such as a joint venture with a neighbour.

However, one caution is to show you are involved in management and day-to-day decisions.

Inactive farming income is earned by a farmer who rents out his land for cash or crop share and is not involved in day-to-day operations of the farm.

The lifetime capital gains exemption allows a \$1 million capital gains exemption per person for the sale of the farmland or qualified farm corporate shares. Therefore, this can result in huge tax savings on the sale of land or a corporation that owns land.

If you, your parents or your grandparents owned the land before 1987, the LCGE rules are easier to meet. As long as the land has been actively farmed by an immediate family member for any five years or in the year before disposition, you have met the rules that allow you to use your capital exemption.

More restrictive rules apply if you acquired the land after 1987. The key is to be actively involved in farming the land on a regular and continuous basis and the land must have been your main source of revenue for at least two years.

Land held in corporations

Farmers whose land is owned by a corporation and are looking to sell would likely want to sell the shares of the corporation in order to use the LCGE.

The following rules must be met for the shares to qualify:

- At the date of sale, 90 percent of the corporation assets must be used in active farming.

- Fifty percent of the assets must be part of an active farm operation for two years before the sale.
- An immediate family member must be involved in day-to-day operations.

Assuming land is the main asset in your corporation, you need to ensure you are actively involved in farming it as discussed above.

Family farm rollover rules allow you to transfer your qualifying farm property on a tax deferred basis to a child that is a resident in Canada.

In order to do this, the land must

be used actively in farming for at least 50 percent of the ownership life. Similar rules apply to farm assets owned by a corporation.

I would like to thank the reader who sent in the questions, and I encourage other readers to email me with topics of your choice.

Consult a tax professional about these potential issues.

Riley Honess and Sue Griffiths of KPMG helped write this article. Colin Miller is a chartered accountant and partner with KPMG's tax practice in Lethbridge. Contact: colinmiller@kpmg.ca.



An active farmer runs an operation and is engaged in day-to-day farming activities. | FILE PHOTO

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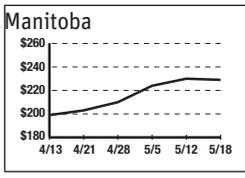
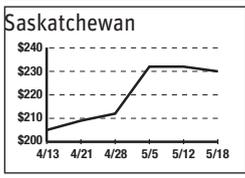
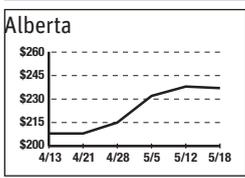


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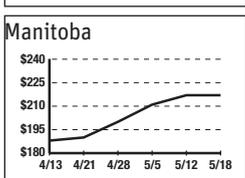
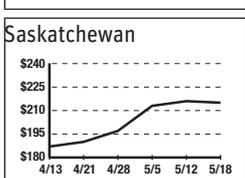
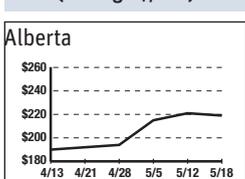
GLACIER farmmedia ((🎧)) PODCAST

CATTLE & SHEEP

Steers 600-700 lb. (average \$/cwt)



Heifers 500-600 lb. (average \$/cwt)



Canadian Beef Production

million lb. YTD	% change
Fed	672.2 0
Non-fed	134.3 +9
Total beef	806.5 +2

Canfax

EXCHANGE RATE
MAY 19
 \$1 Cdn. = \$0.7359 U.S.
 \$1 U.S. = \$1.3589 Cdn.

Slaughter Cattle (\$/cwt)

Grade A	Live May 12-18	Previous May 5-11	Year ago	Rail May 12-18	Previous May 5-11
Steers					
Alta.	n/a	178.50-185.00	161.85	290.50-291.50	294.50-305.00
Ont.	165.80-178.94	164.91-184.67	158.12	296.00-300.00	290.00-300.00
Heifers					
Alta.	n/a	178.50-185.00	164.03	290.50-291.50	294.50-305.00
Ont.	156.94-178.40	162.81-181.79	157.03	295.00-299.00	289.00-299.00

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.	Man.	Alta.	B.C.
Steers				
900-1000	no sales	162-190	180-194	173-189
800-900	191-205	180-206	193-210	183-200
700-800	207-228	207-233	208-230	200-224
600-700	222-242	218-241	225-250	214-240
500-600	229-255	230-259	236-258	221-260
400-500	242-262	240-269	240-263	249-270
Heifers				
800-900	165-193	no sales	176-193	173-186
700-800	181-209	180-204	187-207	190-209
600-700	200-220	191-211	199-219	191-219
500-600	204-229	204-227	209-231	200-227
400-500	212-231	215-245	215-239	215-240
300-400	no sales	no sales	218-245	no sales

Canfax

Average Carcass Weight

	May 13/17	May 14/16	YTD 17	YTD 16
Canfax				
Steers	842	891	901	934
Heifers	799	832	824	856
Cows	738	771	739	782
Bulls	1,080	1,012	1,059	1,028

U.S. Cash cattle (\$/cwt)

Slaughter cattle (35-65% choice)	Steers	Heifers
National	n/a	n/a
Kansas	n/a	n/a
Nebraska	n/a	n/a
Nebraska (dressed)	n/a	n/a

Feeders No. 1 (800-900 lb)

	Steers	Trend
South Dakota	n/a	n/a
Billings	131.00-137.50	n/a
Dodge City	n/a	n/a

USDA

Cattle / Beef Trade

	Exports	% from 2016
Sltr. cattle to U.S. (head)	176,885 (1)	-19.1
Feeder C&C to U.S. (head)	65,993 (1)	-37.0
Total beef to U.S. (tonnes)	57,109 (3)	-7.9
Total beef, all nations (tonnes)	80,620 (3)	+0.2

	Imports	% from 2016
Sltr. cattle from U.S. (head)	n/a (2)	n/a
Feeder C&C from U.S. (head)	15,187 (2)	+121.1
Total beef from U.S. (tonnes)	45,252 (4)	+5.1
Total beef, all nations (tonnes)	66,226 (4)	-14.0

(1) to May 6/17 (2) to Mar 31/17 (3) to Mar 31/17 (4) to May 13/17
 Agriculture Canada

Cattle Slaughter

May 13	Fed. inspections only
To date 2017	Canada 952,506 U.S. 11,236,486
To date 2016	899,265 10,575,131
% Change 17/16	+5.9 +6.3

Chicago Futures (\$/cwt)

	Close May 19	Close May 12	Trend	Year ago
Live Cattle				
Jun	123.45	125.18	-1.73	121.05
Aug	150.45	151.83	-1.38	147.93
Oct	116.68	118.13	-1.45	117.10
Dec	116.93	118.38	-1.45	117.38
Feb	117.10	118.20	-1.10	116.60
Feeder Cattle				
May	143.35	144.55	-1.20	148.63
Aug	150.45	151.83	-1.38	147.93
Sep	150.23	151.93	-1.70	146.03
Oct	149.08	151.13	-2.05	144.08
Nov	146.80	149.18	-2.38	140.70

Beef Cutout (\$/cwt)

	May 18	May 11	Yr. ago
US Choice (uss)	247.21	246.86	227.16
Cdn AAA (cs)	297.01	n/a	274.64

Sheep (\$/lb.) & Goats (\$/head)

	May 8	Apr 24
Wool sheep		
55-69 lb	2.49-3.00	2.40-2.70
70-85 lb	2.41-2.76	2.31-2.70
86-105 lb	2.04-2.41	2.03-2.30
> 106 lb	1.99-2.10	n/a

Beaver Hill Auction Services Ltd.

Shipping May 15

	May 15	May 8
New lambs	3.12-3.42	3.00-3.20
65-80 lb	3.05-3.36	2.92-3.14
80-95 lb	3.17-3.37	2.94-3.14
> 95 lb	2.15-3.50	2.93-3.10
> 110 lb	2.40-2.80	2.40-3.00
Feeder lambs	2.50-3.00	2.40-3.00
Sheep	1.07-1.25	1.10-1.20
Rams	1.00-1.30	1.10-1.20
Kids	95-170	95-170

Ontario Stockyards Inc.

Hogs / Pork Trade

	Export	% from 2016	Import	% from 2016
Sltr. hogs to/fm U.S. (head)	310,555 (1)	-14.4	n/a	n/a
Total pork to/fm U.S. (tonnes)	97,190 (2)	-11.0	65,419 (3)	+9.0
Total pork, all nations (tonnes)	328,770 (2)	+3.1	73,489 (3)	+5.4

(1) to May 6/17 (2) to Mar 31/17 (3) to May 13/17
 Agriculture Canada

Fixed contract \$/ckg

(Hams Marketing)	Maple Leaf Sig 5	Thunder Creek Pork
Week ending	May 19	May 19
Jun 17-Jun 24	184.95-188.91	186.03-186.22
Jul 01-Jul 08	188.62-191.00	188.16-188.41
Jul 15-Jul 22	184.41-189.46	185.14-185.26
Jul 29-Aug 05	183.92-184.45	184.23-184.77
Aug 12-Aug 19	180.30-183.67	182.04-170.88
Aug 26-Sep 02	169.22-175.30	161.32-170.25
Sep 09-Sep 16	162.56-165.20	155.75-157.26
Sep 23-Sep 30	160.41-160.85	156.43-158.21
Oct 07-Oct 14	158.43-160.26	157.02-159.89
Oct 21-Oct 28	157.33-158.19	151.21-154.85

Hog Slaughter

To May 13	Canada	U.S.
To date 2017	7,701,073	43,781,941
To date 2016	7,591,056	42,352,215
% change 17/16	+1.4	+3.4

Agriculture Canada

Hogs \$/ckg

	Alta. Index 100	Man. Index 100	Que. Index 100
Sask. Sig. 5	n/a	178.01	182.00
			181.79

*incl. wt. premiums

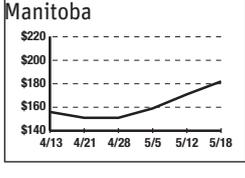
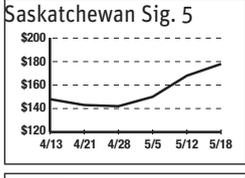
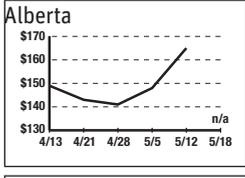
Chicago Hogs Lean (\$/cwt)

	Close May 19	Close May 12	Trend	Year ago	Close May 19	Close Apr 12	Trend	Year ago
Jun	79.50	77.95	+1.55	79.85	Dec	62.00	61.60	+0.40
Jul	80.18	78.60	+1.58	80.25	Feb	65.73	66.03	-0.30
Aug	79.23	77.90	+1.33	79.75	Apr	69.20	69.38	-0.18
Oct	67.90	67.05	+0.85	68.43	May	73.53	73.67	-0.14

HOGS

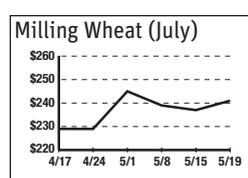
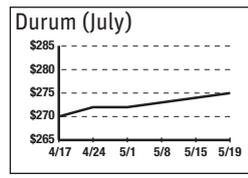
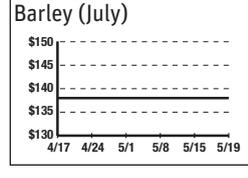
Due to wide reporting and collection methods, it is misleading to compare hog prices between provinces.

Index 100 Hog Price Trends (\$/ckg)

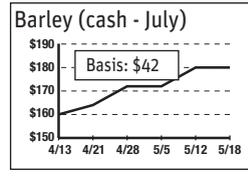
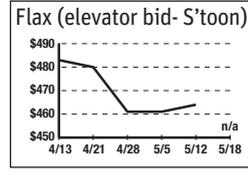
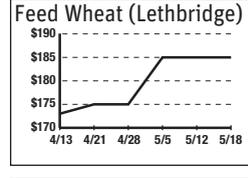
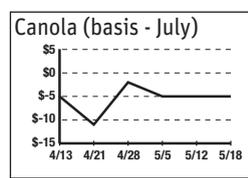
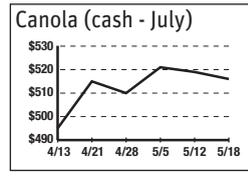


GRAINS

ICE Futures Canada

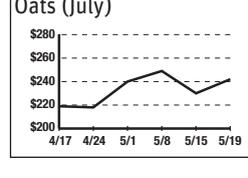
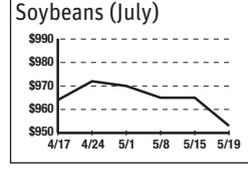
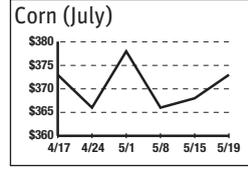


Cash Prices

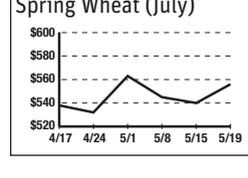


Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

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 19	May 12	Apr 21
Laird lentils, No. 1 (c/lb)	48.57	48.57	48.57
Laird lentils, No. 2 (c/lb)	41.43	41.43	43.43
Laird lentils, Xtra 3 (c/lb)	29.17	29.17	30.17
Richlea lentils, No. 1 (c/lb)	45.20	45.20	45.20
Eston lentils, No. 1 (c/lb)	42.44	42.44	44.94
Eston lentils, No. 2 (c/lb)	39.31	39.31	40.31
Eston lentils, Xtra 3 (c/lb)	30.60	30.60	30.60
Sm. Red lentils, No. 2 (c/lb)	24.89	24.97	24.97
Sm. Red lentils, Xtra 3 (c/lb)	24.97	19.64	21.64
Peas, green No. 1 (\$/bu)	8.06	8.06	8.31
Peas, medium, yellow No. 1 (\$/bu)	9.18	9.18	8.58
Peas, sm. yellow No. 2 (\$/bu)	7.46	7.46	7.78
Feed peas (\$/bu)	6.53	6.53	6.53
Maple peas (\$/bu)	15.17	15.17	15.17
Mustard, yellow, No. 1 (c/lb)	31.20	31.20	30.25
Mustard, Oriental, No. 1 (c/lb)	34.43	34.43	34.43
Mustard, Brown, No. 1 (c/lb)	29.50	29.50	29.50
Canaryseed (c/lb)	19.89	19.89	20.04
Desi chickpeas (c/lb)	35.67	35.67	35.67
Kabuli, 8mm, No. 1 (c/lb)	59.58	59.58	59.58
Kabuli, 7mm, No. 1 (c/lb)	39.58	39.58	39.58
B-90 cpeas, No. 1 (c/lb)	46.00	46.00	46.00

Cash Prices

	May 17	May 10	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	n/a	170.33	n/a
Snlflwr NuSun Enderlin ND (c/lb)	15.05	15.20	16.70

U.S. Grain Cash Prices (\$/bu.)

USDA	May 18
No. 1 DNS (14%) Montana elevator	5.02
No. 1 DNS (13%) Montana elevator	4.64
No. 1 Durum (13%) Montana elevator	5.45
No. 1 Malt barley Montana elevator	3.24

KNOT OF SNAKES

A garter snake breeding site is busy for a few days in May at Fort Livingstone National Historic Site near Pelly, Sask.
| DEAN MACDONALD PHOTO



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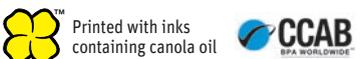
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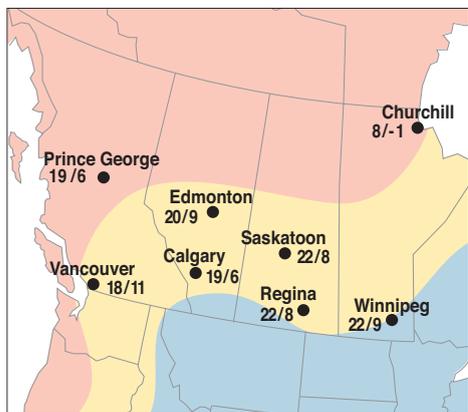
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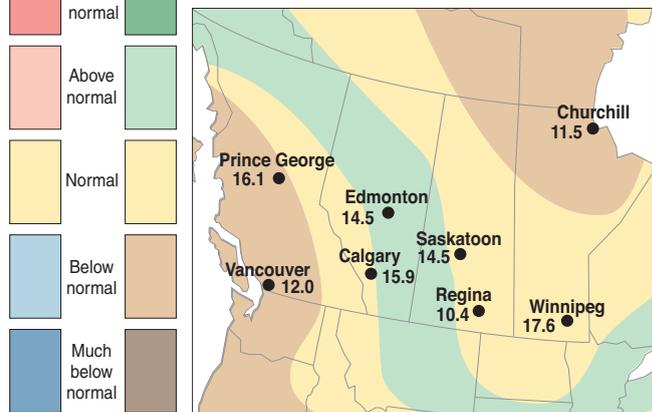
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TEMPERATURE FORECAST
May 25 - 31 (in °C)



PRECIPITATION FORECAST
May 25 - 31 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

We acknowledge the financial support of the Government of Canada.



LAST WEEK'S WEATHER SUMMARY ENDING MAY 18

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	18.3	-3.0	0.7	40.6	83
Broadview	20.0	-4.2	0.3	25.7	47
Coronach	18.8	-2.2	0.6	45.7	86
Eastend	15.8	-2.8	0.0	45.0	89
Estevan	19.7	-2.1	0.7	35.9	69
Maple Creek	17.2	-5.3	1.3	50.8	107
Meadow Lake	16.6	-3.8	4.1	89.6	195
Melfort	16.8	-3.3	0.5	63.3	134
Nipawin	16.8	-2.5	10.0	84.5	191
North Battleford	17.2	-3.8	0.0	60.6	142
Prince Albert	16.3	-4.7	9.8	85.4	174
Regina	19.1	-2.0	1.4	25.3	55
Rockglen	18.7	-2.2	1.5	38.8	78
Saskatoon	18.2	-1.5	0.0	62.9	139
Swift Current	16.3	-3.6	0.4	32.9	74
Val Marie	19.3	-4.7	0.0	36.3	83
Wynyard	17.4	-3.3	0.0	28.0	62
Yorkton	19.6	-2.6	0.6	33.2	67

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	18.9	0.3	3.0	40.1	90
Calgary	16.4	-0.3	5.9	65.9	123
Cold Lake	16.2	-1.0	0.3	107.2	227
Coronation	18.1	-1.7	14.4	50.5	118
Edmonton	18.6	-2.4	9.1	73.1	135
Grande Prairie	18.2	1.7	9.4	91.5	217
High Level	17.7	-2.1	0.0	19.5	61
Lethbridge	17.5	-0.4	17.1	71.5	137
Lloydminster	16.6	0.0	2.6	88.7	183
Medicine Hat	18.5	1.6	1.4	72.9	166
Milk River	17.2	-3.3	17.0	84.0	143
Peace River	17.6	0.9	6.0	93.3	234
Pincher Creek	14.5	-0.2	50.0	127.2	168
Red Deer	17.5	-2.2	13.0	53.7	96
Stavely	16.0	-0.4	32.2	127.3	217
Vegreville	18.9	1.3	2.1	106.1	221

All data provided by Agriculture and Agri-Food Canada's National Agroclimate Information Service: www.agr.gc.ca/drought. Data has undergone only preliminary quality checking. Maps provided by WeatherTec Services Inc.: www.weathertec.mb.ca

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brandon	22.5	-1.7	0.3	27.0	47
Dauphin	22.9	-5.3	1.8	33.0	56
Gimli	20.7	-1.5	0.0	63.3	119
Melita	21.7	-1.4	1.0	28.7	53
Morden	25.1	1.4	3.8	18.2	28
Portage la Prairie	23.5	1.2	0.0	48.8	75
Swan River	21.3	-5.1	0.2	41.3	72
Winnipeg	23.9	0.7	1.3	36.0	59

BRITISH COLUMBIA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	17.0	-1.8	12.2	72.0	143
Fort St. John	18.0	0.5	6.7	141.7	358
Kamloops	21.9	3.6	6.8	44.6	152
Kelowna	21.1	1.3	10.7	85.6	192
Prince George	17.8	-0.1	3.0	136.5	230

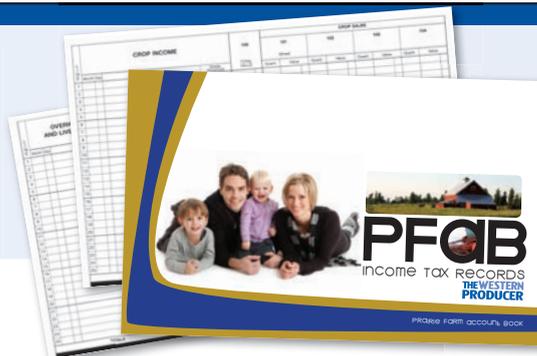
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Decisions are made in the field!

NEW TO THE SHOW?



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.

DAILY EVENTS & DEMOS



■ **FIELD DEMOS:** Unparalleled opportunity to see the latest equipment in the field. This year's highlights include the Tillage Demo, Combine Demo and Sprayer Ride'n'Drive.



■ **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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