

ETHANOL FROM BARLEY? | P.6



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An isolating illness

Farmers like Trewett Chaplin are finally talking about the importance of good mental health — and that's a positive step | **Page 4**

WILLIAM DEKAY PHOTO

HARVEST

To swath or not to swath?

Report sheds light on canola harvest techniques

BY BRIAN CROSS
SASKATOON NEWSROOM

A report that compares the costs and benefits of straight-cutting canola versus swathing may answer some lingering questions about the best way to harvest it.

But it doesn't offer a definitive recommendation on how canola should be taken off.

It says there are significant gains and costs associated with both straight-cutting and swathing.

"Straight cut treatments with

harvest aids (Reglone or Heat and glyphosate) had a higher cost of production, but the benefits of timeliness or ease of harvest may provide sufficient benefit to warrant this cost for certain operations," the report states.

"Similarly, situations where control of timing is less of a concern, swathing or natural ripening harvest may prove to be the most economical."

The canola harvesting study was conducted by the Prairie Agricultural Machinery Institute (PAMI).

It compared the costs and benefits of harvesting canola using four different harvest strategies:

- applying Reglone, then straight cutting
- applying Heat and glyphosate, then straight cutting

- allowing the standing crop to ripen naturally, then straight cutting
- swathing the crop, then combining the windrows

According to the report, canola fields that were treated with pre-harvest products, such as Reglone, or Heat and glyphosate before straight-cutting were generally easier to combine and were combined more quickly, more efficiently and with fewer in-field delays.

However, harvest losses caused by pod shattering were usually higher and overall harvest costs were anywhere from \$17 to \$22 per acre higher based on chemical costs, application costs and increased fuel consumption.

On the other hand, harvest

costs and yield losses associated with swathed canola were generally lower, but ground speeds for combines were slower, delays caused by combine plug-ups were more common and stress levels for combine operators were generally higher.

The report, entitled *Straight Cutting Canola in Manitoba: Comparison of Pre-Harvest Aids*, can be viewed online at bit.ly/2v2NlJg.

"The purpose of this project was to understand what benefits may be gained from straight cutting, what risks may be incurred, and what pre-harvest treatments may provide optimal conditions for straight cut harvest," the report stated.

SEE TO SWATH, PAGE 5 >>



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Sperm rescue: Viable sperm can now be retrieved from scrotums of dead bulls. | AGRICULTURE CANADA PHOTO

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A subhead on page 19 of the Aug. 17 issue lists the former Cardium Theatre as a 50-year-old site. Now named the Eleanor Pickup Arts Centre, it was built in 1957 in Drayton Valley, Alta.

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WHAT'S HAPPENING @ PRODUCER.COM

FEATURES



MENTAL HEALTH IN AG
Trewett Chaplin, a 28-year-old rancher from Craik, Sask., talks candidly about the stresses of agriculture.



NAFTA POLL
The opening round of NAFTA renegotiations concluded last week with each country laying out their goals. Are you optimistic?



DROUGHT POLL
Drought in many parts of Western Canada means ranchers will need to be innovative this summer to avoid problems next year. What are you doing to get by?

VIDEOS

MONSTER TILLER
Ron Lyseng looks at the biggest tiller/mulcher in the world - the Seppi MAXISOIL 350.



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



► **PLUS:** Our #harvest17 photo contest is underway. First prize is a WeatherFarm weather station valued at \$2,750.

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HARVEST

Dry, hot summer leaves Manitoba yields in doubt

It's been a strange growing season, and many producers aren't sure what they'll get this harvest

BY ROBERT ARNASON

BRANDON BUREAU

HOLLAND, Man. — On a sunny morning in mid-August, Les Ferris walked into the edge of a canola field, just east of his farmyard, and pulled a couple of plants out of the ground.

He looked at the tops for signs of heat blast, then inspected the bottom to assess the number of branches on the lower half of the plants.

The amount of aborted flowers and missing pods was minimal, considering his farm has been short on rain and that 30 C temperatures hammered the flowering crop in late July.

However, the number of branches was relatively low and the pods weren't particularly long, possibly signs that the crop ran out of moisture in July.

Ferris said it won't be a great crop, but it might be better than expected. Following a month of little rain and a week of severe heat at the end of July, Ferris had almost given up hope in early August.

"I didn't think we'd have much of a crop," he said.

A little rain fell in August on his farm, from five to 10 millimetres, which aided pod fill and gave Ferris new hope.

But at the end of the day he still expects below average yields.

"I don't see it branched out, as

RAIN GAUGE

Manitoba rainfall, May 1 to Aug. 13:

	total (mm)	% normal
Arborg	164	74%
Gladstone	156	68%
Winkler	151	64%
Brandon	145	64%
Steinbach	143	56%
Russell	138	60%
Portage	128	57%

Source: Manitoba Crop Weather Report and Manitoba Pulse & Soybean Growers

much," said Ferris, the Keystone Agricultural Producers representative for the region.

"I'm kind of preparing myself for the worst, maybe thinking 35 bu. an acre, (but) I had other guys looking and they figure 45 bu. an acre."

Ferris isn't alone in his uncertainty.

It's been a strange growing season, and many Manitoba producers are unsure if the pods on their canola or soybean crops will be full at harvest time.

Many areas of the province were exceptionally wet going into seeding. It was so wet in parts of the southwest that some producers, including Bill Campbell of Minto, Man., said they needed perfect conditions to get a crop in the ground.

"We're looking at a very optimis-

tic completion date of the fourth of June," Campbell said April 20.

"Any weather that is detrimental to that (schedule) puts us in jeopardy of not being able to seed a crop."

However, cool and dry weather arrived in May and farmers got seed in the ground. That was followed by more cool and dry weather in June, then warm and dry weather in July. The lack of moisture was considered a good thing in May but wore out its welcome by July.

Manitoba Pulse & Soybean Growers, in its Aug. 17 Bean Report, said many parts of the province received 50 to 70 percent of normal rainfall from May 1 until Aug. 13.

Rains in the first two weeks of August, ranging from five to 30 mm, benefited both soybeans and canola, but more rain is needed, especially for beans.

"You want those August rains during the pod filling stage," Cassandra Tkachuk, a Manitoba Pulse & Soybean Growers production specialist, said in early August.

"Right now we definitely need some more (rain)."

Manitoba Agriculture, in its mid-August crop report, said the upper pods in some soybean fields are not filling, particularly in central Manitoba, because of dryness.

Ferris also grew winter wheat on his farm, but yields were slightly disappointing, mostly because the

crop lacked moisture. His winter wheat generated 55 to 60 bu. per acre, lower than previous years.

"It's not a bad crop," Ferris said. "But not the bumper crop we thought we might have."

Cereal yields in other parts of central Manitoba are more promising. The provincial crop report said early yields for oats were 130 to 170 bu. per acre with good test weight.

Ferris won't know his canola yield for a month or so, but there were other indicators that it could be below average.

The crop looked great closer to his driveway and the road: it was leaning over and the top was loaded with pods.

However, after pulling a few plants out, Ferris noticed that some lower branches had turned yellow and the pods on those branches looked shrivelled.

He speculated that sclerotinia may have caused the damage or possibly the plant abandoned the branches because it lacked moisture.

The sickly looking branches were disappointing, but Ferris took it in stride. In July he travelled through southern Saskatchewan and saw how drought had decimated crops in the region.

Crop yield, as with wealth, is relative.

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FORAGE SUPPLY

Hay shortage looms in wake of drought

BY ROBERT ARNASON

BRANDON BUREAU

Mark Hoimyr realized earlier this summer that a hay shortage was a possibility on his farm near Gladmar, Sask.

He decided to buy hay locally, just in case.

The decision was the right one because a severe drought hammered hay crops across southern Saskatchewan this summer, including production on Hoimyr's farm.

"I would say our (alfalfa) yields were probably about a third of normal," Hoimyr said, which is decent considering that Gladmar, west of Lake Alma, received almost no rain in June and July.

"We had phenomenal moisture this spring. I think that's the only reason we're not in worse shape."

Hoimyr is one of many cattle producers in the region that had a poor or terrible hay crop this summer.

An Agriculture Canada map, based on data from a network of producers on the Prairies, shows that severe hay shortages are expected south of Weyburn, Sask. As well, moderate shortages are expected in the area south of the Trans-Canada Highway in Saskatchewan.

Lorne Klein, Saskatchewan Agriculture forage specialist in Weyburn, said the hay crop is decent closer to the Manitoba border, but south and southwest of Weyburn it's awful.

"They (producers) are really scrambling for forage. The traditional alfalfa grass/hay crops: all the way from less than half (production) to not even worth cutting," he said. "There are lots of hay fields that didn't get cut this year."

Consequently, livestock producers in the region are doing whatever they can to boost forage supplies. Many cereal crops were cut before harvest and will be used for feed this winter.

"People are salvaging everything they can get their mitts on," Klein said. "(Producers) are cutting sloughs and marshes that maybe haven't been cut for a while."

Buying hay is also an option. Earlier this summer Hoimyr purchased hay from a source reasonably close to Gladmar.

Now, finding hay in southern Saskatchewan is much more difficult.

"In a lot of years, there are areas not too far outside of ours that have better (hay) yields and we're able to pull (it) in," Hoimyr said.

"But that doesn't seem to be the case this year."

Compounding the problem, many pastures in southern Saskatchewan are in poor condition because of the drought. Ranchers may have to put cattle on feed earlier than anticipated, thus increasing the amount of forage needed to get through the winter.

So, producers might need to downsize herds this fall, Hoimyr said.

"There's a chance that there's not going to be enough hay to go around."

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Les Ferris, who farms north of Holland, Man., isn't sure how his canola crop will yield this year. Like many crops, Ferris's canola suffered through a warm and dry summer. | ROBERT ARNASON PHOTO

FROM OUR FRONT PAGE

An isolating illness: talking about mental

BY BECKY ZIMMER
FREELANCE WRITER

When Trewett Chaplin is stressed, he puts his head down and focuses on one task that he has to get done that day on his ranch.

At 28 years old, Chaplin takes care of 550 head of cattle and 230 head of bison on his ranch near Craik, Sask. He farms by himself and is no stranger to the stresses of agriculture.

This year's lack of rain has drastically reduced the availability of feed for his livestock, and that means added costs that come directly off his bottom line.

Chaplin's closest family members are two hours away and because he is not originally from the Craik area, he sometimes feels isolated as he goes through his 90-hour work weeks.

"It is a pretty sheltered life. Stressful doesn't even start to explain it," he said in a telephone interview.

"One bad year can throw years of hard work out the window pretty quick."

Chaplin is not alone. Many farmers feel the financial, emotional and mental stresses of the job. He said the isolation can take its toll.

"I got environmental stress with no rain, which means no feed and increased cost to purchase feed. You're isolated all the time. I work basically 90 hours a week so I very rarely ever leave other than to get parts."

He also said the rest of the industry isn't always as supportive as it could be. "It's hard to get financing as a young producer, so that doesn't help either."

Chaplin said working by himself causes its own problems.

"It's not like I can take a mental health day and not work one day because it doesn't work that way. That means I have five days of work to make up for the one day that I decided to take off," he said.

"Working all the time, that's stressful, too. You go on Facebook and look at pictures of all these people having fun — 'oh jeez, that's nice, I wish I could do some of that.'"

He said mental health issues can threaten to take over a farmer's life.

"Depression is a huge factor that affects you in all aspects of life and doing everything, there's a constant struggle there, he said.

"People don't understand de-



Trewett Chaplin, a 28-year-old farmer near Craik, Sask., says he experiences social isolation and stress, particularly in years with drought or other unexpected conditions. He's not alone, according to recent statistics. | WILLIAM DEKAY PHOTO

pression. It has a physical aspect to it, too. The physical aspect of mental health and stress is as bad as anything because it makes everything worse."

The Farm Stress Line in Saskatchewan, which is run by Regina-based Mobile Crisis Services, received 227 calls during the last fiscal year. Fifty-nine calls came in July.

Mobile Crisis executive director John McFadden said calls come from all across the province with peak times between seeding and harvest.

Callers include people with financial problems, physical health issues caused by stress, relationship problems and family stresses.

Behind much of the recent

increased attention to mental health issues in agriculture are tweets sent out by Kim Keller, a farmer from Gronlid, Sask., and a co-founder of Women in Ag. She started to discuss mental health in agriculture on social media after receiving a message from an industry colleague who was, at the time, dealing with a co-worker's suicide.

"#Ag we gotta do more. I received a message yesterday that kept me up thinking of how we do more. Farm stress is real. Suicide is real," she tweeted June 24.

"Fellow producers, retailers, input companies, grain buyers, lenders — this is all on us. We fail each other when it comes to mental health."

What followed was a plethora of producers weighing in on the mental impacts of the job. They responded online and during a mental health in agriculture panel that Keller was moderating during the Agricultural Producers Association of Saskatchewan midterm meeting.

While some responses were of the "suck it up" variety, Keller said most expressed sentiments that went something like, "finally."

"They were just happy they weren't the only ones going through this, happy that someone was finally willing to talk about it," said Keller.

The "suck it up" attitude can prevent producers from talking about

their mental health challenges, said Keller, but she was happily surprised to see many producers walk to the microphone during the meeting and freely talk about their issues.

Mental health panelist Darren Howran, senior vice-president of Farm Credit Canada, saw how people opened up in front of a room of 80 people. It was not what he expected.

This year has had its share of specific regional stresses with droughts in some areas and too much moisture in others, which Howran was prepared to discuss, but the discussion during the panel went further, he said.

"This is more of an ongoing issue than I originally thought."

Producers may be starting to reach out for help, but the industry is starting to respond as well with more and more agriculture partners wondering what they can do to help, he said.

Howran said FCC will look into how staff can better intervene when they see producers with mental health issues.

"Right now, we are referring customers to the Farm Stress Line, which is a really good resource," he said.

"What we are looking to put into place is Mental Health First Aid in the Prairies for our managers and senior staff to at least arm them better"

Keller said farming is unique compared to other lines of work. It has many stress points around things that producers cannot control, such as finances, weather and isolation, which are combined with long work weeks and few days off, especially during harvest and seeding seasons.

Social isolation was also discussed on the mental health panel.

Howran said the dynamics of communities have changed over the years, and producers and members of the panel see the impacts on producers.

"Today, there may not be one neighbour within five miles," he said.

"The curling rink's gone, the ball diamonds are gone. There's not as much of those evening outlets."

Without that release, producers work all day and then think about it all night, he said.

CONTINUED ON NEXT PAGE >>

ENVIRONMENT

Watershed cleanup could take decades

Efforts to reduce nitrogen runoff into watersheds underway, but results won't be immediate

BY ROBERT ARNASON
BRANDON BUREAU

Farmers are taking steps to reduce the amount of nitrogen flowing off agricultural land, but Canadians may need to wait years to see the benefits.

In some cases the wait may be decades.

"What this study tells us is that it can take a very long time to see the effects of pollution-reduction

efforts," said Nandita Basu, associate professor of water sustainability and eco-hydrology at the University of Waterloo in Ontario.

"The fact is, it can take up to 30 to 40 years for our efforts to have the desired impact."

Basu and Kim Van Meter, a U of W post doctoral researcher, looked at data from the Grand River watershed in southern Ontario, which flows into Lake Erie.

In a study published this sum-

mer in *Environmental Research Letters*, the scientists reviewed 50 years of water quality data in the watershed and gathered nitrogen input data going back to the early 1900s.

To estimate the amount of nitrogen entering water bodies, they looked at agricultural census data, livestock numbers, population data and the amount of nitrogen moving from the atmosphere into water in the region.

"Nitrogen coming in as atmospheric deposition, essentially (nitrogen) coming in with rainfall," Van Meter said.

The researchers were most interested in agricultural sources of nitrogen, especially nitrogen fertilizer applied to cropland in the watershed, which stretches from Kitchener-Waterloo, through Brantford and southeast to Lake Erie.

CONTINUED ON NEXT PAGE >>



BATTLING ALGAL BLOOMS

In late July, the Government of Canada committed \$25.7 million to the Lake Winnipeg Basin program. The goal of the program is to reduce nutrient pollution in the lake and water bodies within the lake's watershed. Excessive nutrient loading has caused massive algae blooms in Lake Winnipeg, so large that the green algae can be seen from space. | GETTY IMAGE

l health



IF YOU NEED HELP

Farm Stress Lines are available 24 hours a day, seven days a week. If you or someone you know needs to talk to someone, call toll free:

- » B.C.: 310-6789 (no area code)
- » Alberta: 877-303-2642
- » Saskatchewan: 800-667-4442
- » Manitoba: 866-367-3276

» CONTINUED FROM PREVIOUS PAGE

These are all factors that weigh on Chaplin with no prospects of a mental health day in sight and few opportunities to leave his farm for a break.

He has been open about his farming challenges, and Keller said reaching out and talking about it can ease the load.

Mental health challenges affect everyone, said Keller, and talking about it is the first step to taking away some of the misconceptions.

That has been the message for students at the University of Saskatchewan in initiatives staged by the students' union during the last few years, said Fran Walley, associate dean of academics at the College of Agriculture and Bioresources.

There are no specific courses in the agriculture college that address mental health in the industry, but Walley said some professors broach the subject in the classroom.

"There is a real heightened awareness on campus and I would say in terms of our student body in the College of Ag/Bio, students are increasingly more inclined to seek out assistance. We see more students coming to us asking for assistance."

Because of the increased emphasis on discussion and seeking help, many students are treating mental health issues the same as they would their physical health, said Walley.

Keller offers this advice for people who know someone who is struggling and reaches out: "just listen."

"There's immense amount of power in asking someone how they're doing"

MANY HANDS MAKE LIGHT WORK



The Rosebank Hutterite Colony cut into a barley field Aug. 12 near Deerwood, Man. | JEANNETTE GREAVES PHOTO

TO SWATH OR NOT TO SWATH?

» CONTINUED FROM PAGE 1

The project included several notable findings:

- An assessment of harvest losses, which ranged from 1.1 bushels per acre in swathed canola, up to 1.5 bu. per acre in standing canola allowed to ripen naturally, 1.9 bu. per acre in standing canola treated with Reglone and 2.8 bu. per acre in standing canola treated with Heat and glyphosate.
- An assessment of harvest and chemical costs, which ranged from \$28.50 per acre in standing canola allowed to ripen naturally, up to \$33.37 per acre in swathed canola, \$50.54 per acre in standing fields treated with Reglone and \$55.20 in fields treated with Heat and glyphosate.
- An assessment of greenseed levels, which ranged from a low of .4 percent greenseed in swathed canola and canola treated with Heat and glyphosate, up to .6 percent in canola treated with Reglone and .9 percent in standing canola allowed to ripen naturally.
- An assessment of overall combine fuel consumption, which ranged from 64.7 litres per hour in swathed canola fields, up to 75.2 litres per hour in standing, naturally ripened canola, 79.3 litres per hour in straight-cut fields treated with Heat and glyphosate, and 82.6

litres per hour in fields treated Reglone.

The study also found that combine engine loads were generally 15 to 25 percent higher in fields that were straight cut compared to fields that were swathed prior to harvest.

Combine ground speeds were .5 to .6 m.p.h. faster in fields that were straight cut versus fields that had been swathed, and delays caused by plugging were significantly lower.

The report suggests that harvest efficiency and the amount of time that is required to harvest canola could be more important factors than per acre harvest costs or yield losses, especially if canola crops are late coming off or the anticipated harvest window is tight.

"Results from this project show that there are significant gains to be had if different harvest methods are employed," the report's summary stated.

"Straight cut treatments with harvest aids had a higher cost of production, but the benefits of timeliness, or ease of harvest may provide sufficient benefit to warrant this cost for certain operations.

"Similarly, situations where control of timing is less of a concern, swathing or natural ripening harvest may prove to be the most economical."

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FOR A RELATED STORY, SEE PAGE 26 »

The report suggests that harvest efficiency and the amount of time that is required to harvest canola could be more important factors than per acre harvest costs or yield losses, especially if canola crops are late coming off or the anticipated harvest window is tight.

» CONTINUED FROM PREVIOUS PAGE

After studying the data, they concluded that application of nitrogen fertilizer, relative to crop yields, has been declining in the watershed.

"Over the last decade or so, those fertilizer levels have not changed significantly," Van Meter said.

"Because of increasing crop yields, you could say our nitrogen use efficiency has increased."

In other words, crops are taking up more nitrogen and less is winding up in water.

That change should have improved water quality in the region. But when Basu and Van Meter looked at the data, the levels of nitrogen in streams and rivers hadn't declined at the same pace.

In certain parts of the watershed,

there was little or no evidence of less nitrogen in waterways.

They determined there is a long lag time between nutrient management improvements and reductions in nitrogen levels in water.

"The mean annual lag time was found to be 24.5 years, with lags varying seasonally," they wrote in the research paper.

Their results were specific to the Grand River basin, so the 25-year time lag doesn't apply to all watersheds across North America.

"You would want to do this (data analysis) for different watersheds, to be able to estimate those lag times," Basu said.

Nonetheless, many watersheds may also have time lags of decades. That's because nutrients build up in the soil and it can take years for

nitrogen and phosphorus to move from agricultural land to streams, rivers and lakes.

Scientists in Europe and North America already knew there was a gap between reduced nitrogen loads and changes in water quality but didn't know the length of the lag.

"When we set a policy goal to reduce nutrient loads by 40 percent, it is important to understand that it may take decades to achieve this target, even if watershed managers are doing everything right," Van Meter said.

The finding may be relevant for policy makers in Manitoba. In the late 2000s, the provincial government implemented strict manure management regulations to protect Lake Winnipeg, but the benefits of those rules may not appear

until 2030 or later.

Van Meter and Basu are now working with scientists in Europe to measure time lags for watersheds in Portugal, Denmark and Sweden.

Research also shows it might be possible for farmers to reduce the time between better nutrient management and changes in water quality.

"Many studies are showing that if farmers reduce (their) fertilizer inputs for some periods and draw down those nutrients that have built up, that's kind of a win-win situation."

Most Canadian farmers would likely be reluctant to cut nitrogen fertilizer rates in half because relying on nutrients in the soil could put crops at risk.

Programs and policies are needed to support those decisions, Van

Meter said.

"It's not right for the farmers to bear the costs of those risks."

Many Canadian farmers use enhanced efficiency fertilizers, which optimize nutrient uptake and minimize loss to the environment. Basu and Van Meter didn't look specifically at the impact of that technology on lag times and water quality.

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



MARKETS



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RENEWABLE ENERGY

Barley and peas to fuel ethanol plant

Proposed facility near Clavet, Sask., would boost the barley sector and provide a feed byproduct for livestock producers

BY SEAN PRATT
SASKATOON NEWSROOM

Saskatchewan barley and pea growers could soon have a big new customer for their crops.

Developers are putting the finishing touches on a plan to build a \$325 million ethanol plant near Saskatoon that will use those two crops as its primary feedstock.

Prairie Green Renewable Energy (PGRE) would be the biggest ethanol plant in Western Canada, capable of producing 196 million litres of the renewable fuel annually.

The project would be situated on 160 acres of land located near Cargill's canola crushing facility in Clavet, Sask.

The plant would require 25 million bushels of feed barley and five million bu. of feed peas a year. The crops would be sourced from within a 200 kilometre radius of Saskatoon.

Zenneth Faye, a director with the Saskatchewan Barley Development Commission, was thrilled to hear about the proposed project.

"That is great news," he said. Barley acres have been plummeting in Saskatchewan, falling to 2.3 million acres this year from 5.1 million acres in 2000. Faye believes it has a lot to do with the recent run of wet years because barley doesn't like wet feet.

"There are some people that have forgotten how to grow barley already because it has been such a long time and it's not even in their mindset," he said.

"So having more options for that crop is what we need to spur the industry."

Barley that doesn't qualify for malt becomes feed that is usually trucked to Alberta feedlots. A local buyer for large amounts of feed barley would be a godsend, said Faye.

Richard Hopp, president of PGRE, said the plant will be equipped with a patented process that gets rid of 95 percent of the deoxynivalenol (DON) mycotoxin in fusarium damaged barley.

"If we have a bad fusarium year out in the field, we can take that and



Barley is expected to be a major feedstock for a proposed ethanol plant that private investors began planning in 2007. | FILE PHOTO



RICHARD HOPP
PRAIRIE GREEN RENEWABLE ENERGY

process it," he said.

The plant will be working with an unidentified grain handling company to source its feedstock. Hopp said it is not one of the big ones but the name will be well known to most farmers.

It is in negotiations with a Canadian company that intends to take all of the ethanol produced at the facility, which will be used to displace some of the nearly one billion litres of U.S. ethanol coming into Canada every year.

Barley and peas are unusual feedstock choices for an ethanol plant. Corn is the most common feedstock. Part of the appeal of using

feed barley is that it typically sells for 55 to 70 percent of the price of corn.

The other benefit is the quality of the byproduct. PGRE is in discussions with companies interested in its Prairie Gold HyProtein Meal. The facility will produce 228,000 tonnes of the feed per year for the hog, dairy, poultry and aquaculture sectors.

The company has produced and tested more than 50 tonnes of the meal at an ethanol plant in the United States. Three years of feed trials have been conducted at the University of Saskatchewan.

"All the research told us that it would be comparable to U.S. soybean meal in terms of protein content and amino acid profile," said Hopp.

The ethanol plant will be powered

by a cogeneration plant, which will sell surplus power back to the grid.

The project has been in the planning and development stage since 2007. Funding has come from a small group of Canadian private investors.

The group has an option on the land and has been working on acquiring the necessary zoning and permitting for the project.

"The research and development work has all been done, the economics look very good. Now we just have to build the darn thing," said Hopp.

It is in the process of securing financing to complete the detailed engineering plans and to create a bankable feasibility study.

Katzen International, an Ohio company that has built multi-feedstock

ethanol plants all over the world, including the Husky Oil plants in Minnedosa, Man., and Lloydminster, Sask., will build the plant.

Once the final engineering plans and feasibility study are in place, the investors will be going to the market to raise capital for the project. It is undecided whether they will stick with a private project or go some other route. They will also be arranging debt financing for the venture.

The plan is to start construction sometime in the fall of 2018 and complete the project by late 2020. It will provide 40 to 50 full-time jobs once operational and approximately 230 full-time equivalent jobs during construction.

Faye, who is former executive manager of the Milligan Biofuels biodiesel plant near Foam Lake, Sask., said now is a tough time to be in the biofuel business.

"Both ethanol and biodiesel have been feeling the pinch along with the petroleum industry with the drop in the price of oil," he said.

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PULSES

Pulse exports off to slow start

Big crops in India, Turkey mean Canadians will have to wait for supplies to be used up

BY SEAN PRATT
SASKATOON NEWSROOM

Peas and lentils are not going to be flying out the door right off the combine like they have the last couple of years, says a major processor and exporter of the crops.

An oversupply of domestically produced pulses in key markets such as India and Turkey has resulted in a poor finish to the 2016-17 campaign and will mean a slow start to the 2017-18 shipping season.

Murad Al-Katib, president of AGT Food and Ingredients, said the past couple years have been an anomaly with unusually strong export programs early in the marketing year.

For instance, Canadian companies shipped more than one million tonnes of lentils from September to November in each of the last two years compared to 500,000 to 700,000 tonnes in the two years prior to that.

This year is shaping up to be the opposite, with slower than normal exports to begin the campaign because of excess stocks in key markets.

The Indian government has intervened with tactics designed to help reduce stocks and raise depressed pulse prices, but those strategies, such as anti-hording regulations and non-tariff trade barriers, have been largely ineffective.

"The current policy of India regarding prices and supply levels may have had an opposite to the intended effect," Al-Katib told investment analysts during the company's second quarter results conference call.

The lacklustre demand has resulted in AGT's processing plants running at a 51 percent use rate during the second quarter of 2017.

"On our pulse side, this was about as low as utilization has got, even in the 2011 period," he said.

Al-Katib expects resumption in demand later in 2017 as Turkey and India work their way through their domestic production surplus.

He noted that while this year's monsoon rains have been close to normal for India as a whole, the distribution of those rains has been quite uneven at a state level.

"You actually had drought conditions in certain areas and actually surplus conditions in others, which have a number of analysts in India predicting that the harvest will not be as large as government forecasts had projected," said Al-Katib.

According to the Aug. 8 edition of the U.S. Department of Agriculture's *Weekly Weather and Crop Bulletin*, rainfall in Madhya Pradesh and Maharashtra has been 50 to 75 percent of normal since July 1.

About half of India's pigeon pea crop is planted in those two states.



Canadian pulse growers expect slower than normal exports this year because of excess stocks in key markets. | FILE PHOTO

Pigeon peas are one of the main pulses that are in surplus in India and have been driving down prices.

Farmers produced 4.78 million tonnes of the crop last year, an 87 percent increase from the previous year, so a short crop would be a welcome development for pulse exporters. Canadian green lentils are a substitute for Indian pigeon peas.

Indian farmers had seeded 9.86 million acres of pigeon peas as of Aug. 11, which is down 19 percent from last year but up nine percent from the previous five-year average.

The India Meteorological Department's rainfall statistics are not as dismal as the USDA's. It is reporting that since June 1 rainfall was 11 percent below normal in West Madhya Pradesh, a 13 percent deficit in East Madhya Pradesh and a seven per-

cent surplus in Maharashtra.

Al-Katib said another encouraging development is the Indian government's new policy restricting pigeon pea imports to a quota of 200,000 tonnes this year, down from 703,540 tonnes the previous fiscal year ended on March 31, 2017.

"It's a measure that we see may have a positive effect to clear up surplus stocks of pigeon peas and may have the effect of stimulating India's local market," he said.

Al-Katib was asked about India's methyl bromide fumigation policy, which has the potential to disrupt sales to that important market.

He said Canada's exemption to the policy expires Sept. 30. Every other market has an exemption until Dec. 31.

"We see no reason not to be opti-

mistic about an extension of our deadline in Canada to at least match the Dec. 31," said Al-Katib.

Canada is seeking a long-term exemption because it doesn't have the pests of concern and winter temperatures would eradicate them anyway.

Even if India does not grant Canada another extension, it could continue shipping pulses to that market by paying a five-times penalty.

"To clarify what a five-times penalty means is, if you don't fumigate here you can ship and you'll pay around a \$12 a tonne penalty," he said.

"Again, \$12 a tonne isn't great but it's not the end of the world. The supply chain may have an ability to bear that in some fashion."

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OILSEEDS

Research company touts camelina as the next Cinderella crop in Western Canada

BY ROBERT ARNASON
BRANDON BUREAU

Jack Grushcow is a true believer, at least when it comes to camelina.

Grushcow, who founded a software company that was sold to Microsoft in 1991, is convinced camelina will be the next Cinderella crop in Western Canada.

There's only about 5,000 acres of camelina in Saskatchewan this year, but Grushcow envisions a much larger number in the near future.

"I think there's going to be an explo-

sion in acres in a couple of years," said Grushcow, founder and president of Smart Earth Seeds in Saskatoon.

Smart Earth Seeds is a camelina breeding and production company that develops new varieties of camelina and contracts farmers to grow the oilseed.

For years Grushcow and his team have been developing markets for the oilseed crop, which is part of the brassica family, focusing on sales to the aquaculture trade, the poultry industry, dairy feed and now pet food.

Camelina acres in 2017 are flat compared to 2016, but Smart Earth Seeds has posted a string of successes over the last 12 months:

- In November the Canadian Food Inspection Agency approved camelina meal as feed for laying hens.
- In April the CFIA approved camelina oil as a feed ingredient for farmed salmon and trout.
- In May Ag West Bio, Saskatchewan's bioscience industry association, invested \$300,000 in Smart Earth Seeds.

"Their successive technology and

market milestones over the past two years sparked our investment interest," said Wilf Keller, Ag West Bio president.

"Their sustainable aquafeed ingredient has garnered the most attention, but we like their diversity into several different revenue streams, based on a foundation of advanced germplasm and solid economics."

Camelina oil has the potential to displace fish oil in the aquaculture industry because it has high levels of omega 3 fatty acids.

"The use of wild-sourced fish to feed the farmed fish is not sustainable either ecologically or economically," Claude Caldwell of Dalhousie University said in a statement.

"Camelina could be a viable alternative."

It may have the right attributes and may be more sustainable, but Smart Earth Seeds hasn't convinced a major aquaculture firm in Canada to make the switch to camelina oil.

CONTINUED ON NEXT PAGE >>

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AGI



The poultry industry has seen positive results supplementing feed with camelina. | FILE PHOTO

» CONTINUED FROM PAGE 7

Part of the challenge is price. Last summer fish oil was selling for US\$2,000 per tonne.

"Now, because there's been a massive anchovy harvest in Peru, the price has gone down by almost half," Grushcow said.

Smart Earth Seeds is in discussions with a couple of aquaculture companies on purchase agreements.

"They all talk about sustainability and marine-free diets," Grushcow said.

"I'm hoping one of these companies is going to see value in camelina, simply beyond the fatty acid profile."

Demand for camelina meal may also jump soon, thanks to the CFIA approval for laying hens.

Grushcow said one of the larger egg producers in Western Canada is testing camelina meal on its flock and how it affects the eggs.

"So far they're absolutely loving the data," he said.

"Indications are that they're going to replace a certain amount of flax in their high omega egg diet with camelina."

Besides fish farms and laying hens, Grushcow believes that pet food is an untapped market for camelina, especially for aging pets.

"(We are) working with U of S (Saskatchewan) to do some pet (food) evaluations this year," he said.

"We think there's an opportunity to have (a camelina) ingredient in an older pet diet that will improve joint or skin health."

If the demand side of the equation does take off, Smart Earth Seeds will need a larger supply of camelina and potentially a crush plant in Western Canada.

Right now, camelina seed grown in Saskatchewan is shipped to the U.S. Northwest, where it's crushed at a facility in Oregon.

"If we're going to develop this crop in Western Canada, we've got to start crushing it here," Grushcow said.

Smart Earth Seeds has been collaborating with the Landis Producer Co-op, which operate a former Saskatchewan Wheat Pool elevator in Landis, Sask., on handling and processing camelina.

As well, Grushcow is working with another organization in Melfort, Sask.

"There's a group that has taken over the Melfort terminal. That's being funded in part by Anderson Grain (the Andersons Grain Group) out of the States," he said.

"I figure Landis or Melfort or both will be centres of production for us going forward."

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HARVEST

North Dakota wheat yields better than expected

Many areas of the state were grappling with extreme drought, but as harvest approached, producers found the crop was still in decent shape

BY ROBERT ARNASON

BRANDON BUREAU

Growers and agronomists in North Dakota were wondering in early July if any spring wheat would be produced in the western half of the state.

Parts of the region were in an extreme drought: as little to no rain had fallen since April. As well, blistering heat, in the range of 35 C, scorched the crop in early July.

The region remained hot and dry well into the month, but the spring wheat crop was more resilient than projected.

"Now that we've got into combining ... yields actually were a little better than people were expecting," said John Rickertsen, a North Dakota State University extension agronomist in Hettinger, about 20 kilometres from the South Dakota border.

"There is stuff that's below 10 bushels, but there are yields that are running 35."

Spring wheat yields of 45 to 60 bu. per acre are more typical for the region. Rickertsen said yields would likely be half of normal.

That's not great, but considering Hettinger received almost no rain from April until early July, any yield is a bonus.

"We had really (good) stored moisture," Rickertsen said before seeding.

"That's what saved us this year."

The story is similar in other parts of western North Dakota.

SPRING WHEAT SEEDED ACRES IN THE U.S.

(millions)	North Dakota	U.S.
2015	6.7	13.2
2016	6.0	11.6
2017	5.3	10.9

Source: U.S. Department of Agriculture

Erica Olson, a North Dakota Wheat Commission marketing specialist, has heard yield reports of 15 to 25 bu. an acre in the drought area. The spring wheat yields are higher, more like 25 bu., in the west-central part of the state.

"The yields aren't anything great, just better than what they would have expected given the weather," Olson said.

The spring wheat harvest in North Dakota has been delayed because rain finally arrived in early August.

Clair Keene, a NDSU extension agronomist in Williston, said 25 to 50 millimetres of rain have fallen in the last couple of weeks.

"We had the worst possible conditions for a wheat crop," Rickertsen said.

"Dry early and hot in June, when it was flowering... Now that we're getting into harvest, we're getting cool and wet (weather)."

North Dakota farmers planted 5.25 million acres of spring wheat this year, about half of the total spring

wheat crop in the United States.

The drought in the western half of North Dakota, South Dakota and eastern Montana propelled spring wheat prices higher in June and July:

Hard red spring wheat futures in Minneapolis went from less than \$6 per bu. in early June to nearly \$8 per bu. in early July.

By mid-August the market had lost about half of those gains as spring wheat futures traded around \$6.90 per bu.

The June rally may have been overcooked because spring wheat is grown across North Dakota, not only in the western portion of the state.

Olson said North Dakota is divided into west, central and east growing regions, with each region representing about a third of spring wheat production.

Growers in the east have reported average spring wheat yields of 45 to 60 bu. per acre.

Yields may be better than expected in southwestern North Dakota, but a significant percentage of the spring wheat crop was not harvested.

Rickertsen estimated that 40 percent of the crop, in the southwest, was baled before harvest for livestock feed.

"It will be interesting to see what ag stats say, harvested acres versus planted acres," he said.

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HAY SUPPLY AND DEMAND

Brace for hay shortage, price hike

Livestock producers in southern Saskatchewan may see the biggest shortfall

BY ROBERT ARNASON
BRANDON BUREAU

Hay prices are above average in Saskatchewan and may get higher this fall. If a number of factors come together, prices could spike.

Most forage sellers are now asking five to eight cents per pound, with most of the hay trading closer to five cents.

Trewett Chaplin, a livestock producer from Craik, Sask., thinks prices will increase in coming months because green feed supplies may be tight.

Chaplin and other ranchers assumed many farmers would bale cereal crops in areas where crops struggled in hot and dry weather this summer in Saskatchewan. But that's not the case.

"The (grain) crop is turning out better than expected... so there's not going to be any green feed on the market," said Chaplin, who raises cattle and bison.

"They're still taking them off (combining), there's not a lot of guys willing to part with their crops (as green feed)."

The drought this summer in southern Saskatchewan generated a lot of media attention for the potential impact on grain and oilseed yields.

The extreme weather also damaged hay crops, with some areas reporting forage yields of a half or a third of normal.

Dave Kerr, Saskatchewan Forage Council president, estimated one-third of the province might have a shortfall of hay this year.

Most of the shortage will probably be in southern Saskatchewan, where the heat and dryness was most severe.

As of the third week of August, many online sellers of hay were asking five to six cents per lb. for baled hay, which is higher than normal in Saskatchewan.

"Most hay, on average years, is



Continued hot weather may dry up pastures and force livestock producers to put cattle on hay several weeks earlier than normal. | WENDY DUDLEY PHOTO

The (grain) crop is turning out better than expected... so there's not going to be any green feed on the market.

TREWETT CHAPLIN
CRAIK, SASK., PRODUCER

only 3.5 cents per lb. That same hay is going for five to six cents a lb. this year," Chaplin said. "Normally eight cents a lb. would be dairy quality feed. But for regular hay, that's insane."

Besides a lack of green feed, other factors could propel hay prices higher this autumn.

Farmers in parts of North Dakota, Montana and South Dakota also suffered through a drought and heat wave in July. American producers bought hay bales from Canada earlier this summer and may buy more as

winter approaches.

"I think there was a lot of last year's hay that has been sold, across the line (to the United States)," said Kelly Williamson, a cattle producer in Pambrun, Sask.

"So the reserve (of hay) is gone." With the U.S. dollar trading at a C\$1.26 there is a price advantage for American buyers.

Plus, there may be transport subsidies for struggling U.S. farmers.

"It's going to depend on what kind of trucking incentives the guys across the line are going to get," Williamson said.

"Which is probably going to create the (price) floor for our (hay) market."

Yet another factor is pastures. The hot and record dry weather, with less than five millimetres of rain in places for the month of July, scorched grazing lands in Saskatchewan. If the pastures

don't bounce back, livestock producers may have to put their cattle on feed much sooner than normal this fall.

"A hot July isn't going to kill our hay crop here.... But it will fry your pastures and send you to the feed stack 30, 40 or 50 days early," Williamson said.

"Then that really puts pressure on trying to source extra feed."

Of course, there are other ways to feed cattle through the winter besides hay. Livestock producers can use straw and supplement with grain and pellets.

Alternative sources of feed could temper hay prices this fall and winter, but the market may explode if the drought persists into 2018, Williamson said.

"If we have a dry year next year and we have below normal hay stands, we're in for quite the show."

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WP LIVESTOCK REPORT

HOGS DIP SLIGHTLY

The U.S. national live price average for barrows and gilts was US\$60.02 per hundredweight Aug. 18, down from \$61.59 Aug. 10. U.S. hogs averaged \$73.34 on a carcass basis Aug 18, down from \$77.85 Aug 10.

The U.S. pork cutout was \$90.14 per cwt. Aug. 18, down from \$94.44 Aug. 10.

The estimated U.S. weekly slaughter for the week to Aug. 19 was 2.332 million, up from 2.272 million in the previous week. Slaughter was 2.295 million last year at the same time.

In Canada, the average Signature Five price for the week to Aug. 18 was C\$185 per 100 kilograms, down from \$189.98 the previous week.

On a per hundredweight, basis the average price was \$83.92 down from \$86.17 the previous week.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to C\$6.25-\$6.40 per pound hot hanging weight. U.S. buyers are offering US\$4.75 or more with returns dependent on exchange rates, quality and export costs.

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

Animals outside the desirable buyer specifications may be discounted.

LAMBS STEADY

Ontario Stockyards Inc. reported that 1,077 sheep and lambs and 46 goats sold Aug. 7. All classes of good lambs sold higher. Goats sold steady.

Beaver Hill Auction in Tofield, Alta., reported that 796 sheep and 386 goats sold Aug 14.

Wool lambs lighter than 54 lb. were \$210-\$248 per cwt., 55-69 lb. were \$230-\$25, 70-85 lb. were \$229-\$250, 86-105 lb. were \$217-\$246 and 106 lb. and heavier were \$195-\$215.

Wool rams were \$108-\$158 per cwt. Cull ewes were \$96-\$163.

Hair lambs lighter than 54 lb. were \$175-\$235 per cwt., 55-69 lb. were \$208-\$238, 70-85 lb. were \$215-\$242, 86-105 lb. were \$208-\$232 and 106 lb. and heavier were \$189-\$235.

Hair rams were \$126-\$151 per cwt. Cull ewes were \$95-\$180.

CANFAX REPORT

FED PRICES RISE

Prices for both fed steers and fed heifers rose slightly over the previous week, up 28 cents per hundredweight to \$142.07 on steers and up 10 cents to \$140.83 on heifers.

Alberta fed steer prices moved off annual lows while Ontario fed prices were \$4.50 softer week over week with new lows established. On a cash-to-cash basis, Alberta fed prices moved to a premium against the Nebraska market.

Over the past 12 years, this is the first time during August where cash-to-cash basis levels were at a premium to the Nebraska market. With historically strong basis levels, all reported cash sales traded locally with no U.S. buying interest to speak of.

Based on the most recent Canfax trends data, calves are seeing profits from \$170-\$200 per head while shortkeep steers and heifers are seeing profits from \$65-\$141 per head. Recent dressed sales range from \$236-\$240 delivered.

Most of the cattle bought last week were scheduled for late

August or early September delivery. Cattle bought earlier this month are being lifted earlier than initially indicated.

In western Canada for the week ending Aug. 12 cattle grading B4 totaled 1,274 head, the largest volume in more than a year.

For the month of July, Western Canadian fed cattle exports to the U.S. were up 62 percent compared to last year.

In the United States, dressed sales ranged from US\$173-\$178, which was \$8 lower than the previous week. Southern regions traded \$5 lower on a live basis.

Fed prices are now trading at the lowest levels since mid-December. Given weakness in the fed cattle market, feeder and calf values have remained quite strong.

From their highs in May, fed prices have dropped 24 percent while 850 pound steers have only dropped around five percent.

Omaha cash corn prices have trended lower and are now being reported just under \$3.25 per bushel.

From the June highs, Omaha corn

prices have dropped 10 percent.

COW BIDS ARE UP

Prices for D1 and D2 cows traded in a range of Cdn\$92 to \$106, to average \$99.42. That's up \$1.29 from the previous week and comes after a seven-week price decline.

Dressed slaughter cow bids realigned to around \$186-\$191 delivered. Butcher bull prices eased slightly lower to average \$115.33 per cwt. Western Canadian non-fed slaughter for the week ending Aug. 12 was down 17 percent from the previous week totaling 4,669 head.

Year-to-date western non-fed slaughter was 10 percent larger at 215,678 head. Canadian non-fed exports to the U.S. for the week ending Aug. 5 eased modestly to 3,049 head. Year to date non-fed exports are 26 percent smaller at 114,507 head.

FEEDERS LOOK STABLE

Alberta feeder prices stabilized over the previous week with good

demand for all weights. Fed marketings have been larger than year ago for five straight months and feedlots need to restock.

With the exception of 500-600 lb. steers, calves less than 700 lb. saw prices steady to modestly higher than the previous week. Yearling prices for immediate and deferred delivery were generally priced comparably.

Auction volumes were supplemented by a couple of special yearling sales and total volumes surged to 23,948 head. Year-to-date volumes of 733,627 head were 16 percent larger than the same week last year. Feeder exports to the U.S. for week ending Aug. 5 were 34 percent larger than the previous week at 2,543 head.

Year-to-date feeder exports remain significantly lower than year ago, totaling 87,453 head. Prices for cow-calf pairs were not available.

BEEF PRICES LOWER

In beef trade, the U.S. Choice cutout dropped below \$200 per cwt.

over the previous week with a \$5 per cwt week-to-week decline. Select was down \$1.99 per cwt. Demand was generally light to moderate. Offerings turned heavy in mid-week as packers looked to clear inventories. Prices were down across the board.

Canadian cutout values for the week ending July 22 were unavailable.

The Consumer Price Index published last week showed increased meat prices from June to July. The CPI for beef, pork and chicken was up 0.5 percent, 1.1 percent and 1.3 percent respectively. Compared to July 2016, beef was up 0.5 percent, chicken was up 2.7 percent while pork was down 0.7 percent.

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.

ANTIBIOTIC USE

Farmers must reduce antibiotic use or gov't will set own agenda

The warning by Herman Barkema, a leader in infectious disease in livestock, about antimicrobial-resistant bacteria is ominous: "If we do not get our act together they (regulatory bodies) will come with measures whether we like it or not."

The World Health Organization developed a plan to tackle the issue in 2015 with the One Health program, which uses information from human health agencies and animal health and agri-food sectors to coordinate efforts to curtail the impact of antimicrobial resistance.

Canada updated regulations dealing with antimicrobial use in May.

It is an enormously complex issue. Any change in the use of antimicrobials must consider whether the use of other products might be increased — and the ramifications of that — whether animals would suffer as a result, and whether changes would have a tangible impact on reducing antimicrobial resistant bacteria.

Tracking all this requires a lot of resources and will need worldwide co-operation.

It's estimated that 700,000 people died last year as a result of resistance to antimicrobial treatments and that by 2050, up to 10 million people could die annually.

Conditions such as pneumonia, gonorrhoea, post-operative infections, HIV, tuberculosis and malaria are becoming more dangerous due to heavy use of antibiotics.

Eighty percent of antimicrobials are administered to animals — whether prophylactically to ward off disease when symptoms appear, or to some extent, to promote growth. That shouldn't surprise, given that it's estimated there are 19 animals for every human in Canada, and greater animal weight must also be factored in.

Growth-promotant indications are to be removed from antibiotic labels this year.

Still, it's thought that overuse in humans is the main contributor to the emergence of antimicrobial-resistant strains of bacteria.

But there is no denying that agricultural practices must evolve, and to a large extent,

they are. Virtually every animal organization has guidelines for antimicrobial use.

For example, the Chicken Farmers of Canada eliminated Category 1 antimicrobials in 2014 (those that are vital to treatment of humans, with limited alternatives), and now plan to eliminate Category 2 antimicrobials (the preferred option for humans, but there are other options), by the end of 2018, and Category 3 antimicrobials (not applicable to humans, but there may be alternatives) by the end of 2020.

Intensive farming operations such as poultry and hog farms face challenges in eliminating antimicrobials, since disease can spread quickly through those farms.

And while the beef research council says eliminating the use of antimicrobials in cattle "would have clear negative health consequences for cattle with no obvious benefit for human health," it has nonetheless developed guidelines.

All livestock have strict rules for antimicrobial residues before products go to market.

The Canadian Integrated Program for Antimicrobial Resistance Surveillance, which monitors trends in antimicrobial use and resistance, says "the contamination of animals and animal products with antimicrobial resistant bacteria has been identified as a source for human infection with resistant organisms."

It's a definitive statement that means farmers will face an evolving regulatory climate.

The agri-food sector is linked to antimicrobial-resistant bacteria through a variety of pathways. It's vital that all livestock operations understand and follow recommended procedures and that their industry remain engaged in the development of regulations.

Leaving an epidemic of antimicrobial resistant bacteria for the next generation would be a terrible legacy.

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

CRAIG'S VIEW



REDUCING NITROGEN RUNOFF



What this study tells us is that it can take a very long time to see the effects of pollution-reduction efforts. The fact is, it can take up to 30 to 40 years for our efforts to have the desired impact.

NANDITA BASU
UNIVERSITY OF WATERLOO, PAGE 4

MEAT CONSUMPTION

Farm groups riled up by Canada's Food Guide proposals

CAPITAL LETTERS



KELSEY JOHNSON

In the middle of a growing obesity crisis, Ottawa is looking for ways to encourage Canadians to live healthier lifestyles.

That includes a major overhaul of the Canada Food Guide, which was designed in 1942 to help Canadians make better food choices. It has been revised several times, most recently in 2007 to include traditional and ethnic food choices.

But many critics say it's ineffective and they argue more needs to be done to tackle Canadians' growing waistlines.

Health Canada launched public consultations to update the food

guide last October. The second round of discussions wrapped up Aug. 14 with the new guide expected to be finalized early next year.

Some of the ideas revealed in draft documents aren't sitting well with the agricultural community.

For one thing, Health Canada wants Canadians to eat more protein-rich foods from plant-based sources, while eating less red meat (like beef, pork, lamb and goat.) The documents also suggest a reduction in fat-rich dairy in favour of low-fat milk, yogurts and cheeses.

As well, Canadians don't eat enough fruits and vegetables, the documents say.

"In general, diets higher in plant-based foods and lower in animal-based foods are associated with a lesser environmental impact, when compared to current diets high in sodium, sugars and saturated fat," Health Canada notes, citing a 2015 American study.

In the Canadian Cattlemen's Association newsletter to its mem-

bership, Tom Lynch-Staunton argued that Health Canada appears to have a "clear bias" against food derived from animals.

"Canada's beef industry is focused on ensuring the Food Guide takes a science and evidence-based approach that is focused on human health and nutrition, and not on perceptions, assumptions, and biases," Lynch-Staunton wrote.

Ottawa's push for more plant-based proteins, he argued, does "a disservice to Canadians by skipping over the practical question of whether plant-based protein is nutritionally better for us than animal-based protein.

"A recommendation to eat less meat could have significant negative impacts on Canadians' diets that are already on the low side of protein and on the high end for the intake of calories," he wrote.

Dairy Farmers of Canada, in its submission to Health Canada, disputed the plan to promote low-fat dairy options.

"As far as milk products are concerned, the current emphasis on choosing lower-fat versions is no longer justified by scientific evidence and therefore should be abandoned," DFC wrote.

Nor are they in favour of Health Canada's push toward plant-based foods.

"It is important that the superiority of milk continues to be recognized over plant-based beverages such as soy, almond and rice beverages," their submission reads.

"Furthermore, it would be inappropriate and a disservice to the public to consider fortified soy and other plant-based beverages as being equivalent to milk from a nutrition and health perspective because they are not."

Health Canada has insisted its revision is based on science and is not being driven by various interest groups.

The department said when it started down the road of revamping the Canada Food Guide that it

would not seek direct input from Canadian farm groups by including them on their advisory committees. Instead, farm groups were invited to submit comments as part of the department's online consultations.

The exclusion of farm groups from the advisory committee was recommended by the Senate health committee in its scathing report on the food guide in March 2016 because of the sector's commercial interests in food sales.

Health Canada's revisions come while Agriculture Canada is in the midst of developing a national food policy for Canada.

Farm groups have been invited to participate in those discussions, which are focused around food affordability, agriculture productivity, environmental adaptability and food safety. The policy is expected to be complete by spring.

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

& OPEN FORUM

INTERNATIONAL TRADE

Making the case for supply management

BY ED FAST

With negotiations on a new North American Free Trade Agreement underway, it is appropriate for Canadians to ask: whether supply management?

Supply management is the system in Canada within which products such as dairy (including cheese), chicken, turkey and eggs are produced and sold. It severely restricts the importation of such products from abroad and regulates their production to ensure that it matches demand within the Canadian marketplace.

This ensures that producers receive a reasonable return on their investment and that consumers have access to a steady supply of safe and healthy dairy, chicken, turkey and egg products, at a reasonable price, that takes into account the farmers' costs of production.

Supply management has regulated the production and sale of these products for more than 40 years, and there is little, if any, evidence that the system has made dairy, egg and poultry unaffordable for the average Canadian.

Admittedly, supply management focuses on regulating domestic production, and as such, is not necessarily synonymous with free trade.

Yet most of Canada's international competitors who produce these products, including the United States, the European Union, Brazil, Australia and New Zealand, also protect their industries to one degree or another.

For example, the United States provides billions of dollars in subsidies to its dairy industry, providing an unfair advantage over other



Supply management has regulated the production and sale of certain products for more than 40 years, and there is little, if any, evidence that the system has made dairy, egg and poultry unaffordable for the average Canadian. | FILE PHOTO

dairy-producing countries.

The European Union, as another example, recently reinstated price control mechanisms to counteract a dramatic decline in global dairy prices, which came on top of an already generous subsidy to its dairy farmers under the EU's Common Agricultural Policy.

Even in countries such as Australia and New Zealand, governments have been forced to bail out farmers who risked going bankrupt because of declining world market prices.

The bottom line: there is presently no level playing field that ensures everyone plays by the same rules and prevents protectionist policies from being used to

provide some countries with an unfair trade advantage.

The only forum within which a fair and level playing field can be assured is the World Trade Organization, which comprises 164 countries. Until and unless all of the world's major economies work together at the WTO to provide a clear and enforceable set of rules governing the international trade in dairy and poultry products, Canada's competitors will continue to seek unfair advantage over our own farmers.

Supply management prevents those competitors from doing so. And to be clear: our supply management system fully complies

with all of the current rules set out by the WTO.

In the run-up to NAFTA renegotiations, U.S. President Donald Trump has recently referred to our system of supply management as a "disgrace," no doubt wishing to "soften up" our trade negotiators. And yet, there is absolutely no reason for Canada to put its supply management system in play during these negotiations.

The U.S. has no intention of eliminating its subsidies to its own farmers and simply wants to gain additional market access in an attempt to deal with its own problem of over-production, to the detriment of Canadian farmers.

Indeed, Canada is already the second largest importer of American milk, importing five times the volume of dairy goods it exports to the United States.

The massive size and clout of the American dairy and poultry industries is such that many Canadian farmers fear an Americanization of our farms and the products they supply.

Despite Prime Minister Justin Trudeau's past lip service in support of supply management, he has yet to confirm that dismantlement of Canada's system of supply management will not under any circumstances be on the table for negotiation. I call upon him to now make that commitment to our farmers and to the millions of Canadians who want to continue to enjoy a steady, affordable and healthy supply of Canadian-produced dairy, chicken, turkey and eggs.

Ed Fast is a Conservative MP from Abbotsford, B.C., and a former trade minister.

TRANSPORTATION

Lowering rail operating cost

EDITORIAL NOTEBOOK



MICHAEL RAINE
MANAGING EDITOR

Some exports to the United States might make Canadian products more competitive, at least in the shorter term.

Exporting Hunter Harrison, former chief executive officer of Canadian National and Canadian Pacific railways, for instance, might be a good export for Canadian rail-transported products.

As the CEO of American railway CSX, the third largest in that country, which serves the eastern half of the U.S., Harrison has become the focus of shipper criticism. CSX is well-positioned to move agricultural products through river and ocean ports, including Montreal.

Harrison is using the same tactics at CSX that he was known for in Canada. Those include lengthening trains, pulling out track, reducing staff, as well as reducing rolling and fixed assets to improve operating ratios, the relationship between operating expenses and revenues.

CN posted an operating ratio of 59.4 percent in the first quarter of 2017. At CP, the ratio was 58.1 percent due, in part, to a \$51 million recovery of compensation related to the early departure of Harrison as CEO. Without that, the operating ratio would have been 61.3, both very competitive in the railway world. CSX's ratio was 67.4 for the second quarter.

A Rail Customer Coalition has been formed in the U.S. to deal with joint complaints about service in and has been focused on CSX since Harrison's appointment in March.

The RCC wants Congress to investigate what it calls "chronic service failures." The shippers group, which includes farm groups, agriculture companies, co-ops, beer makers and chemical producers, among others, has sided with trade unions and CSX employees in suggesting that recent moves to double train length, close rail yards, cut jobs and make rapid changes to operations are disrupting service, according to a letter to the STB last week.

The STB sent Harrison a letter saying it had "continued concerns over the widespread degradation of rail service" at CSX. Reuters reports that Harrison's changes were causing rail cars to sit idle or be rerouted across multiple states.

The shippers group has asked American legislators for the ability for competing railways to operate on each other's lines, potentially a step toward open running rights, and for improved complaints and resolution systems for customers.

It's nice to see Canadian exports, including Harrison, are keeping Canada competitive.

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A LOOK ON THE BRIGHT SIDE

It's not an epidemic drought, despite reports

HURSH ON AG



KEVIN HURSH

People not directly connected to agriculture could rightly assume, based on everything they read and hear, that much of the Prairies has been crippled by drought. On top of that, grain prices are poor and farmers are suffering from mental illness caused by financial stress.

In this world of instant communication and social media, we sometimes need a reality check and bit of long-term perspective.

It may have been the driest July on record at a number of locations in southern Saskatchewan, but it certainly won't be the worst crop ever. Not even close. There are some

crop failures and there will be crop insurance claims, but the severity is nothing like the drought years of 1988 and 2002.

Looking at selective weather stats doesn't tell the whole story. An abundance of subsoil moisture has prevented a widespread crop failure.

Sure, many crops in the south will have below-average yields, but some crops, especially early seeded ones, are yielding well.

We've become accustomed to an abundance of rain and big-yielding crops in many areas that are traditionally drought prone. This year is just closer to the long-term normal.

With good crops in many central regions and some excellent crops in the northern grain belt, overall production in Western Canada will be respectable. And early indications point to excellent quality.

In the durum growing region, many growers last year had yields of 50 plus bushels per acre, but the sample was a Number 5 or worse due to fusarium. The crop was only

marketable at a steep price discount. This year, many of those same growers might get only 25 to 35 bu. per acre, but the grade might be Number 1 or 2, leaving them with a much better overall result.

Wheat and durum prices have declined in the past month after the main drought panic subsided, but most grains, oilseeds, pulses and specialty crops have decent values. Even though the Canadian dollar has appreciated in value, the exchange rate continues to shield us from the grain price pain felt by farmers in the U.S.

In recent months, an uptick in calls has been noted to Saskatchewan's Farm Stress Line. Farming is a stressful business and mental health is an issue to take seriously. However, the stressors within agriculture are not at a particularly high level compared to past years.

It wasn't long ago when producers faced flooded fields, millions of unseeded acres, and equipment stuck in the muck. Just last year, a record amount of crop couldn't be

harvested before winter set in.

Each year comes with its unique problems and often they are different from one region to the next. While drought in the south has received most of the attention this year, there are parts of the northern grain belt where too much moisture has reduced seeded acres.

There is seldom a farming year when conditions couldn't have been better. Conversely, there is seldom a year when conditions couldn't have been worse.

Some years will see below average yields. Sometimes there will be an absolute crop failure. Inherently, we know this so we shouldn't be surprised by the curve balls thrown by Mother Nature.

We can't control the weather, but we can control our attitudes. As the combines roll, it can be helpful to look on the bright side rather than dwell on what might have been.

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*.

GOING DOWN WITH THE SHIP

To the Editor:

There have been many comparisons between Premier Brad Wall and former premier Grant Devine over the years. Most notably, how each of them managed to rack up mounds of debt, paying out favours of party friends and supporters, while maintaining a primary target on privatization.

While Devine didn't manage this very well, it would appear that Wall has succeeded on many levels. The only difference is he isn't going down with the ship, like any good captain ought to. He gleefully racked up our provincial debt through P3 partnerships and questionable land transactions during the biggest boom time in our history.

He's successfully managed to introduce controversial legislation that opens the road to the privatization of crown corporations. He managed to close the long-standing Saskatchewan Transportation Company, through a sneaky, albeit apparently legal, sell off and shut down. He also successfully made us the only province without a film employment tax credit and with a tax on insurance premiums.

Now...he's gone. Poof. Vanished into thin air.

A responsible ship captain would have remained on board while the ship sank, but not Wall. He's smart enough to jump ship even before the iceberg cometh. These poor souls are left on board, drinking and dancing, thinking nothing is wrong with the ship and gleefully going on their merry ways.

Don't think there hasn't been warning signs though. From the Why Tower Road Group, to the Saskatchewan PC Party, to the Canadian Taxpayers Federation, to lawsuit after lawsuit, the warning signs have been aplenty.

When that iceberg hits – and rest assured it will, folks – will you be one of the thousands remaining on board, or will you have jumped ship like so many of us have already, realizing that the captain is no longer anywhere to be found, and all he's left for us is a dummy at the wheel in captain's clothing.

Donald Neuls
Coppersands, Sask.

STATISTICS CANADA REPORT

Canadian cattle, hog numbers up, but sheep herd declines

EDMONTON BUREAU

Cattle and hog inventory numbers are up again this year, though the number of sheep continues to decline, according to livestock estimates released Aug. 18.

Here's the breakdown:

Cattle

The Statistics Canada data shows Canadian farmers had 13 million cattle on July 1, up .1 percent from July 2016. However, the number of cows is still 23.3 per cent below the peak level recorded in July 2005.

As for breeding stock, ranchers had slightly more beef heifers in 2017, with a .6 per cent increase from last July, which brings the total number to 673,200.

Beef cows also increased by .5 percent to 3.8 million head, while calves increased by .2 percent to 4.2 million and steers saw an uptick of .9 percent. On the flip side, feeder heifers fell by five percent.

Canadian farmers also had 1.4 million dairy cows and heifers on their farms as of July 1, up 1.6 per cent from July 2016.

The disposition of cattle and calves also rose by 1.5 percent during the first half of 2017.

Statistics Canada said this is mainly because of higher slaughter levels, which rose by 6.4 percent to 1.6 million head over the first six months of 2017.

However, the agency said international exports fell by 21.5 percent to 340,000 during the first half of this year because of lower

exports of both calves and cattle.

Prices are increasing after dropping during the last six months of 2016. They haven't returned to the historical high seen in 2015 but have stayed above the average price for the past five years.

Hogs

Hog farmers reported having 14.1 million hogs as of July 1, a 2.1 percent increase from last July.

This marks the fifth consecutive year-over-year increase, pushing inventory up by 11.8 percent when compared to 2012 numbers.

As of July 1, there were 7,880 hog farms in Canada, a one percent increase from July 2016. These farms reported 1.3 million sows and gilts, up 1.2 per cent from the

same date a year earlier.

Hog exports have also increased by two percent to 2.9 million.

Hog slaughter numbers increased by 2.3 percent, bringing the total to 10.9 million head.

Hog prices increased during the first half of 2017, according to Statistics Canada, although the agency said prices remain variable with the five-year trend being flat.

Sheep

The sheep breeding herd has decreased with the number of ewes falling by 1.6 percent to 521,100 and replacement lambs slightly down by .2 percent to 86,900. The number of lambs for market decreased by 2.5 percent, while exports dipped by 42.2 percent.



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HARVEST

U.S. durum yields well below last year's levels

BY ROBERT ARNASON
WINNIPEG BUREAU

Dustin Johnsrud, who farms near Williston, North Dakota, started harvesting his durum crop in mid-August.

As of Aug. 18, his earliest-seeded durum was performing better than anticipated, at 20 to 25 bushels per acre.

But he's assuming the rest of the crop won't do as well.

"The later seeded stuff... I'm thinking 10 to 15 (bushels)," said Johnsrud, who lives near Epping, N.D., north of the Missouri River.

The North Dakota Wheat Commission, in an August crop progress report, said durum wheat is suffering in the state.

WHAT A DIFFERENCE A YEAR MAKES

In 2016, average durum yields in Montana were

41 bu./acre

In 2017 yields are projected to be

17 bu./acre

About 44 percent of durum was rated as poor to very poor condition and 49 percent in fair condition.

North Dakota farmers seeded 1.1 million acres of durum in 2017,

almost all of it in the northwest corner of the state, which endured a severe drought in June and July.

"From the first of June to the first of August, we had almost no rain

and very, very hot and windy (conditions)," said Johnsrud, a board member with the North Dakota Wheat Commission.

The United States Department of Agriculture forecasts an average yield of 24 bu. per acre in North Dakota, well below last year's yield of 40.5 bu. per acre, said Erica Olson, North Dakota Wheat Commission market specialist.

However, initial yield reports are lower.

"I've heard anywhere from 15 to 25 (bushels)," Olson said.

Clair Keene, North Dakota State University extension agronomist in Williston, is more optimistic.

Most durum crops around Williston are fair to poor, she said.

"Out here, I don't think it's terrible. But it's certainly not good."

By the third week of August, the durum harvest was just underway in North Dakota. But farmers in eastern Montana had already combined more than half of the durum crop.

Montana had 630,000 acres of durum this year. Like North Dakota, the crop suffered from lack of moisture in June and July.

The USDA forecasts an average durum yield in Montana of 17 bu. per acre for 2017. Last year Montana growers averaged 41 bu. per acre.

In 2015 and 2014, they recorded 31 bu. per acre.

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FOOD SAFETY

Consumers play important role in recalls

Canadians urged to check for recalled foods, report food illness to CFIA

BY MARY BAXTER
FREELANCE WRITER

The Canadian Food Inspection Agency is urging Canadian consumers to consider their own role in the process of a food recall.

Aline Dimitri, Canada's deputy chief food safety officer, said inspector findings trigger most recalls, but the agency relies on other ways as well.

Those include companies coming forward with concerns, public health agencies identifying local spikes in a food-related illness and recalls that take place in other countries on products that have also been imported to Canada.

But in the case of a flour contamination that emerged in the spring and led to widespread recalls throughout the country, it was a consumer complaint that triggered action.

The incident that put eight people in hospital and sickened 22 others had to do with the discovery of E. coli in a batch of flour from an Ardent Mills facility.

"CFIA went into the home, picked up the flour that epidemiologically seemed to be in cause and we tested it and then we actually had to test close samples, that's where our investigations come in," Dimitri said.

The agency's office of food safety and recall handles all investigations but agency inspectors can also be brought in, depending on the size of the food issue and the risk it poses.

After a recall is closed, the agency will work with the sector to ensure the issue won't recur.

When closing the loop in a recall, consumers also play a role by checking their individual kitchens and cupboards for flagged products.

"Because at the end of the day, if we remove everything that's on the shelf, and the Canadian consumer still has something in the family cupboard and is not thrown out, then the risk is there," Dimitri said.

The agency maintains information on its website and social media and offers a cellphone app, she said.

PRODUCER LEVY

Beef checkoff increase delayed but still in the works

The money will allow more research and market promotion

BY BARB GLEN
LETHBRIDGE BUREAU

CALGARY — Small delays and snags are slowing the process of increasing the Canadian Beef Cattle Checkoff in cattle-producing provinces.

Doug Sawyer, chair of the checkoff division committee for the agency, said cattle groups in eight of nine provinces have agreed to increase the national check-off to \$2.50 per head but the various steps to implement that are slow in coming.

"It looks like the bulk of that increase is going to come much later than we thought, likely into 2018, some of it maybe even later in 2018," Sawyer told those at the CBCC annual meeting Aug. 15.

The increase has been fully implemented only in Nova Scotia, which increased its checkoff to \$2.50 per head as of Jan. 1. Other provinces are in various stages of approval for the increase, but Ontario producers are still discussing a potential increase and if approved, it would still have to go through provincial government channels.

"I'm very hopeful," Sawyer said in a later interview. "I think as we look at the value that we get as produc-



An increase to the Canadian Beef Cattle Checkoff is taking longer than expected but could be in place across all regions by late 2018. | WENDY DUDLEY PHOTO

ers, that you've got to invest in your marketing, in your research, in your entire industry and I think producers understand that."

He said Manitoba was ready to proceed with the increase but then a meeting of the provincial marketing council was cancelled and the change could not be dealt with. In British Columbia, producers and the government have been understandably distracted by widespread forest fires this summer.

Delays in full implementation of an increase are forcing an even

more careful approach to budgeting in 2017-18.

Once a checkoff increase is finalized across the country, Sawyer said it will dramatically increase the cattle industry's ability to fund research, market development and promotion.

"We've got the opportunity to enter into a new (federal research) cluster that we have to have producer dollars to back, and if we don't have enough producer dollars there, we're going to leave money on the table that we can't

utilize," he said.

"The value we're getting from programs like that and the value we're getting from matching programs on the marketing side... all producers across Canada have said we've got a real need for proper issues management."

As an example of issues management, Sawyer referenced recent proposed changes to the Canada Food Guide that recommend lower amounts of red meat. The agency has responded and objected to the new recommendations.

"We're really seeing the benefit of a co-ordinated effort, and that's what really issues management is."

Sawyer said producers often ask what percentage of their checkoff goes to administration.

"It's vitally important to me that we don't set a percentage on that," he told the gathering. The preferred method is to examine priorities and make them line items in the budget. From that, a percentage of the total can be calculated.

"The one thing I don't want to do is start empire building and saying, 'well, we've got five percent or 10 percent. How do we spend it?' That's backwards."

The CBCC collected \$7.34 million in 2016-17, according to the annual report.

"Of that total, 64 percent was directed towards market development and promotion, 18 percent to research, 19 percent was retained by the provincial cattle organizations. Approximately \$347,000 was retained by the agency for administering the checkoff. This amount does not include the in-kind operations and administrative services provided by Canada Beef due to a shared office and shared staff roles," said the report.

The agency also receives any import levies on beef and beef products brought into Canada. In 2016-17, that amounted to more than \$900,000 and is used to promote the culinary and nutritional value of beef.

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PULSE CROPS

Soy oil claim allowed

Manufacturers can now use heart health claim on food labels

BY SEAN PRATT
SASKATOON NEWSROOM

The soybean oil industry is finally able to use the same qualified health claim that the canola oil industry has been using for 11 years.

The U.S. Food and Drug Administration has approved a petition by Bunge North America for a claim linking consumption of soybean oil to reduced risk of coronary heart disease.

It states that eating 1.5 tablespoons of soybean oil daily may reduce the risk of heart disease when it replaces saturated fat in the diet and doesn't increase the total calories consumed in a day.

The canola industry has been using the same claim since 2006.

Food manufacturers can now use a heart-health claim on packaging and menus for products containing at least five grams of soybean oil per serving.

"The food industry is by far our largest customer for soybean oil and by submitting this claim, Bunge is really looking out for soybean farmers and our long-term profitability," United Soybean Board chair John Motter said in a news release.

"This claim really helps U.S. soybean farmers maintain their competitiveness in this critical market and helps us compete with other oils that have become synonymous with heart health."

Dave Dzisiak, commercial leader of grains and oils for North America with Dow AgroSciences, is not worried about canola oil losing market share to soybean oil as a result of the claim.

"It's good to have but nobody really uses it," he said.

It can be useful for informing health care professionals, dietitians and food company executives about the potential health benefits of consuming soybean or canola oil, but food companies never put the message on their packages or menus because the claim takes up too much space on the label and may actually turn consumers off.

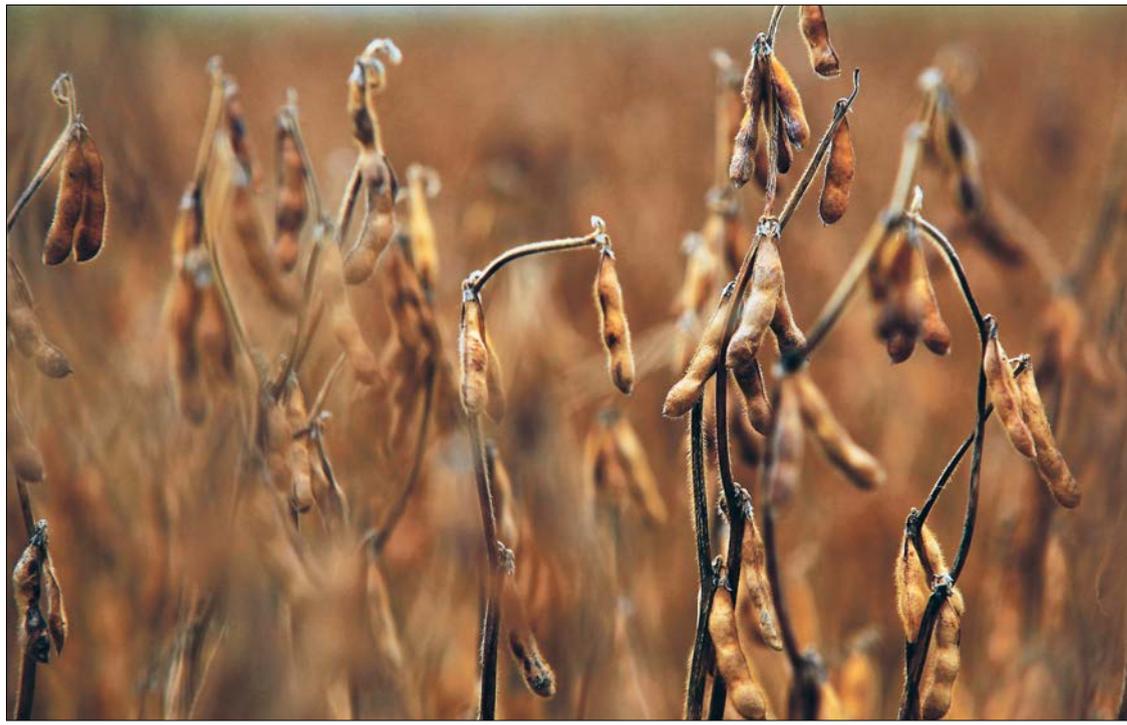
"If you're a food company talking about the great food product you have, you really don't want to talk about disease at the same time," said Dzisiak.

"It's like those pharmaceutical commercials on TV. 'This probably works, but oh my God, if I took it I could probably grow a third eye.'"

He said the canola claim served a purpose because it helped the food industry learn how to differentiate between good fats and bad fats, which was a fairly new concept a decade ago. However, today an oil health claim is like table stakes at a poker game.

Food company executives are far more interested in talking about taste, functionality, cost and supply.

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The U.S. Food and Drug Administration has approved a claim from Bunge North America that states eating 1.5 tablespoons of soybean oil daily may reduce the risk of heart disease when it replaces saturated fat in the diet and doesn't increase the total calories consumed in a day. | FILE PHOTO

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CANADIAN BEEF INDUSTRY CONFERENCE

U.S., Canadian ag groups optimistic on NAFTA talks

The Canadian Cattlemen's Association is adamant that a dispute settlement process is essential to enforce the rules

BY BARB GLEN
LETHBRIDGE BUREAU

CALGARY — Canadian agricultural groups have adopted part of the Hippocratic oath in describing their hopes for the ongoing North

American Free Trade Agreement talks with the United States and Mexico.

First, do no harm.

The opening round of renegotiations on the 23-year-old agreement concluded last week as the

three signatory countries outlined their goals for the new version of NAFTA.

At the Canadian Beef Industry Conference in Calgary, NAFTA was a frequent topic among presenters and the 600 people in attendance.

"The number one goal is to do no harm," said Colin Woodall, the senior vice-president of government affairs for the National Cattlemen's Beef Association.



COLIN WOODALL
NATIONAL CATTLEMEN'S BEEF ASSOCIATION

"(NAFTA) is the gold standard for us. Full, unfettered access is as good as it gets. It can't get any better. And that's what we have made very clear to this administration."

The Canadian cattle industry has also made its position clear to the federal government and John Masswohl, government relations vice-president with the Canadian Cattlemen's Association, said he is optimistic about the outcome of NAFTA talks because the agreement has been mutually beneficial at least to those in the cattle industry.

"NAFTA really is an example of what a trade agreement should be in terms of its market access," said Masswohl.

"There's no tariffs. There's no quotas. There's none of these safeguards or snapbacks that if somebody starts to become too successful then automatically you're hit with a higher tariff or some sort of a protection. There's none of that."

The dispute settlement process within NAFTA could be a sticking point. Some on the U.S. side have suggested scrapping that mechanism but Canadian foreign affairs minister Chrystia Freeland has said it must be retained and could in fact be a deal-breaker if the three countries cannot agree.

NAFTA really is an example of what a trade agreement should be in terms of its market access. There's no tariffs. There's no quotas.

JOHN MASSWOHL
CANADIAN CATTLEMEN'S ASSOCIATION

Masswohl said the CCA is clear in its desire for a dispute settlement process. The Canadian beef and pork industries used the World Trade Organization process in their successful fight against country-of-origin labelling, but a NAFTA process is also crucial.

"The CCA would stand very strongly with the Canadian government saying (cancellation of a dispute settlement mechanism), that's a non-starter for us and if anything, we would try to make that mechanism stronger."

Masswohl said the entire fight against COOL might have moved more quickly through NAFTA than it did through the WTO, but the Canadian industries weren't confi-

dent about the NAFTA process's ability to enforce the rules.

An effective way to resolve disputes benefits all parties, said Masswohl, because "you never know which side of a dispute you're going to be on."

David Miller, research director with the Iowa Farm Bureau, said NAFTA is vital to hog and cattle producers in his state.

"When I hear President (Donald) Trump talk that NAFTA hasn't worked for us, what he's saying is it hasn't worked maybe as well as it could for the U.S. auto sector or the U.S. auto worker," said Miller.

"NAFTA's been very good for U.S. agriculture. It's been good for U.S.-Canada trade, it's been good for U.S.-Mexico trade and probably been good for Canada-Mexico trade."



NAFTA's been very good for U.S. agriculture. It's been good for U.S.-Canada trade, it's been good for U.S.-Mexico trade and probably been good for Canada-Mexico trade.

DAVID MILLER
IOWA FARM BUREAU

"We want trade to work as well for all sectors of the economy as it does for agriculture. The fact that we're talking about updating NAFTA doesn't bother me. Now if we're talking in order to rebuild protectionism and etc., then that's not good."

As NAFTA negotiations got underway last week, major farm groups in Canada, the U.S. and Mexico issued a joint statement emphasizing desires for a modernized agreement rather than a dismantling.

The Canadian Federation of Agriculture, American Farm Bureau Federation and Consejo Nacional Agripecuario called NAFTA a success story that has fostered reciprocal trade.

"NAFTA has boosted the incomes of millions of farmers and has facilitated the development of profitable export markets," said CFA president Ron Bonnett.

The three groups listed their goals for the new version of NAFTA.

- Increased and improved regulatory alignment.
- Improved flow of goods at border crossings.
- Further alignment of sanitary and phytosanitary measures using a science-based approach.
- Elimination of non-science-based technical barriers to trade.
- Revisions that reflect technological advances since implementation.

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CANADIAN FOOD INSPECTION AGENCY

Union still worried about food safety staffing levels

BY MARY BAXTER
FREELANCE WRITER

New technology is playing a key role in changing how food is inspected and how investigations are carried out at the Canadian Food Inspection Agency.

Unlike two years ago, this time there have been few of the commonly heard union complaints that the changes are really a round-about way to reduce the staff.

"We're not in crisis mode. They (the agency) are certainly in a major change mode," said Fabian Murphy, first national executive vice-president of the Syndicat Agriculture Union.

The organization represents 8,000 workers in federal departments and agencies connected to agriculture.

Two years ago, cuts to staff levels during the previous government had the union sounding the alarm about the ability of agency workers to properly respond to food safety issues.

Since 2016, agency figures indicate staff levels jumped to 6,927 employees in 2016-17 from 6,378 employees in 2013-14. About half of the agency's staff is dedicated to food safety.

"This includes not only food recall specialists but also field inspectors, inspection specialists and laboratory analysts, all of whom have a role to play in food safety investigations and recalls," wrote agency spokesperson Maria Kubacki in an email.

And part of the modernization process is to look at current staffing levels and what will be required for the new inspection processes and make sure they're fully staffed.

"We're feeling a lot better about the relationship that we have with CFIA with regards to talking about what the requirement is for the new inspection modernization program," Murphy said.

Nevertheless, union members remain concerned. A recent online survey for the union conducted by Abacus Data showed food safety inspectors indicate they feel staffing is still too low.

Of the 488 union representatives surveyed, only one-third indicated inspection staff levels where they were stationed were regularly high enough, and nearly half felt staff shortages had increased Canadians' risk of exposure to food-borne illness.

It is not known if current staffing levels will be adequate to handle the changes in the agency's enhanced responsibilities as regulations under the Safe Food For Canadians Act are introduced, Murphy said. Passed in 2012, the act folds the agency's authority derived from four previous acts under one piece of legislation.

The new legislation also adds to the agency's responsibilities, having it, for instance, enforce new prohibitions concerning deceptive marketing and allowing it to develop regulations to help trace and recall food. There are changes to import monitoring as well.

Public consultation on the act's proposed regulations closed earlier this year and the agency plans to introduce finalized regulations in the spring of 2018.

In a recent news release, the union applauded the agency's

decision to shelve some proposed changes, such as having inspectors and frontline supervisors work outside their areas of expertise.

"After years of budget cuts under the previous government, these changes were all about managing a staff shortage," Murphy said in the release.

The CFIA conducts about 3,000 food investigations annually

Other modernization changes have already been rolled out and new pilot programs are coming in the near future, Murphy said.

Which other industry players will

fall under the new legislation and what the new inspection regime will look like remain unknown.

Aline Dimitri, Canada's deputy chief food safety officer, said the agency will not so much police new industries as it will monitor how the existing industry meets a greater and more specific range of requirements to keep food safe.

"We're also going to have a licensing system where all importers will have to be potentially licensed. So ... we have better tools to know who they are, to assess the risk associated to what they're doing and to be able to take action as appropriate."

Dimitri said one development in streamlining inspection is using data to create an establishment-based risk assessment algorithm

that will allow the agency to determine how often inspectors need to visit different establishments.

The agency has been working with the dairy sector to pilot the algorithm and plans to roll it out to cover registered commodities too.

Processing plants and transportation are key targets of the specialized risk assessment.

"We're not in the slaughterhouses at this point; we're certainly not on farm because that is not a federal responsibility; it is a provincial one," Dimitri said.

Modernization has already affected the roughly 3,000 food investigations the agency conducts annually. For instance, the agency now uses genomics to identify a contamination culprit.

On its website, the agency describes the difference between using older biochemical practices and genomic approach as "like the difference between a detective only knowing a suspect's height and rough physical description compared to having the suspect's fingerprints and behaviour profile."

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FARMLIVING

THE FUN FACTOR

Juggling, unicycles, haunted houses and trick sticks: Caroline Boddy thinks play is key to engaging 4-Hers and enabling them to acquire leadership skills and serve their communities. | Page 22



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

RURAL BUSINESS

Personal service key to business success

Eat in the bistro, shop for gifts or do your banking — No Need to Nock caters to community with an array of services

BY KAREN MORRISON
SASKATOON NEWSROOM

MARWAYNE, Alta. — A small business owner in Marwayne credits support from her rural community with sustaining her through health and economic challenges.

Since 2006, Kari Rooks-Whelan has operated No Need to Nock, a mini-mall offering boutique fashions, gifts and a bistro in addition to her main focus, an ATB Financial agency.

During that time, she was diagnosed with a brain tumour and in recent years, has seen first-hand the downturn in business in Alberta due to low oil prices.

“The fact we’ve been able to survive says a lot about this community,” she said.

Rooks-Whelan said people brought meals and some even came to work in the store for free.

“We found out how much people cared for us and how people supported us,” she said.

In turn, she repays their kindness by supporting community causes and offering personalized services not possible in city branches.

This day, she takes a phone call from a handicapped customer who will be visited later and offers to bring a lunch order from the bistro. She also offers a drive to an elderly customer to do her banking and sets up Skype interviews in the store with clients and ATB lending specialists.

The building houses a residence that she rents and used to include the Sears outlet. Customers can drop off and pick up dry cleaning orders bound for a Vermilion outlet.

“When business is tough, you have to focus on what’s making money,” she said.

Filling the void

Rooks-Whelan had worked for ATB and convinced it to create a full service bank in her store after a major bank closed its doors in town.

“When essential services leave small communities, it changes the demographic dramatically,” she said.

Cindy Lennon, a retired bank employee, takes care of the bistro, providing fresh lunch meals of baked goods, soup and sandwiches four days a week, while Rooks-Whelan also has been helped by longtime staffers such as Sonia Valois over the years.

For the store, Rooks-Whelan takes stock of what her customers want and what she would buy when choosing items at trade shows.

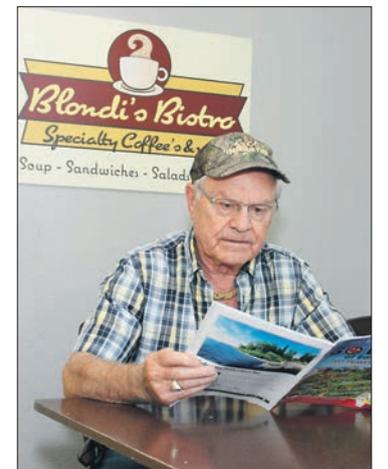
“I’m not interested in what the big box stores have, it’s a repetitive



ABOVE AND BELOW, LEFT: Since 2006, Kari Rooks-Whelan has operated No Need to Nock, a Marwayne, Alta., mini mall offering boutique fashions and gifts and a bistro in addition to her current main focus, an ATB Financial agency. | KAREN MORRISON PHOTOS



MIDDLE: Cindy Lennon operates the bistro, providing fresh lunch meals of baked goods, soup and sandwiches four days a week.



RIGHT: Joe Rooks pops by for a coffee before heading to the lake. He says small businesses draw in tourists and locals and benefit the local economy.

thing. I want them to be unique. I want it to be affordable, I don’t want it to gather dust,” she said of items ranging from women’s dresses to jewelry to art.

She also has offerings from groups supporting vulnerable communities, citing her support of jewelry made by former sex trade workers or rustic furniture from a woman who helped pay for her workers’ education.

Rooks-Whelan said her competition comes from large urban centres and a growing trend toward

online shopping, and she relies on loyal customers.

“They know if they support it, it will continue to provide service to the community,” she said.

“I have as many challenges as big businesses but less resources to get through it.”

It was always her dream to run a store, and she liked the personal connection to the old building and its customers.

“I always wanted to have a business putting together all the skills I had learned over the years.”

Joe Rooks, Rooks-Whelan’s father, a former grain buyer, said the building is historically significant to the town and to him. He bought his first car here.

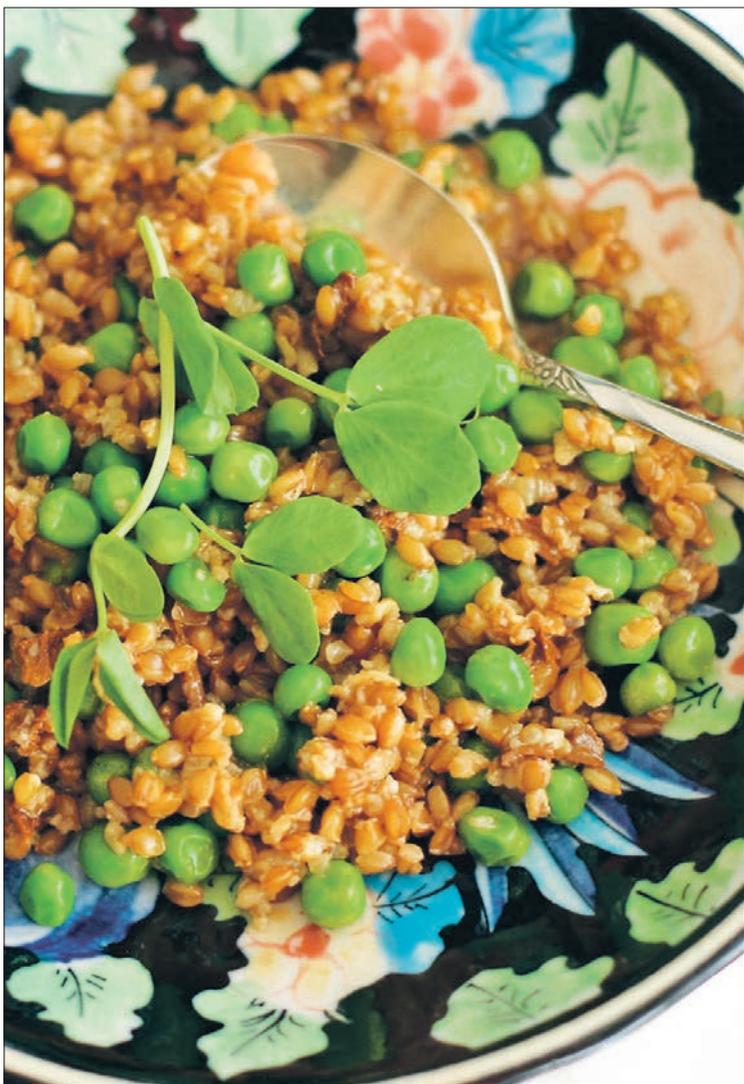
“Small towns need a business like this. If we can keep historical sites going, it’s drawing card for the community,” he said.

The building, which was made from hand carved stone from the North Saskatchewan River, dates back to 1939 when Rudy Isert built the garage and car dealership for his Marwayne Motors.

His generator supplied electricity for the village, and two cisterns under the building were used for the village’s emergency water supply before the water and sewer system was installed.

William Ashworth sold farm supplies here from 1974 and Claude and Bob Neal did welding and fabricating here from 1980 before John and Sharon Kneen renovated it for a store and coffee shop in 1999.

karen.morrison@producer.com



ABOVE: Einkorn mushroom risotto can be made in a slow cooker. RIGHT: Gene's unbeatable biscuits are made with red fife flour to give them a flaky texture. | SARAH GALVIN PHOTOS



Daybreak Mill's employees include Kelsey Rydberg, left, Kaylah Turner, Brock Aspinall, Nicole Davis, Declan Macdonald and Jolie Walliser. | JOLIE M. WALLISER PHOTO

DAYBREAK MILL

A healthy way to start your day

TEAM RESOURCES



SARAH GALVIN, BSHEC

By the time Nicole Davis reached high school, she had decided that happiness could best be found by moving away from the Prairies.

After working in the big city and travelling around the world, she found herself back home working with her parents, Cathy and Gene Davis, who operated an organic homestead farm near North Portal, Sask.

One day, she was picking up products at Scheresky Mill, where she was offered a job.

Nicole purchased the mill, founded in 1963 by Alvin Scheresky, and its four quarters of land in 2012. She first operated it with her mom or sister, Leslie, filling sacks of flour and grain to order. Today her duties have shifted to marketing and managing the business.

Her dad isn't involved in the day-to-day Daybreak Mill business, but they share farming his 2,000 acres and her land. Her sister, Lauren, brings food to the fields.

The mill, one of only a few organic mills in Saskatchewan, sells organic grains and flours throughout Canada and the U.S.

All flours are stone-ground using the original granite stones from Europe.

Stone milling is slower but it creates the most nutritious flour, Nicole said.

Stone-ground flour goes rancid quickly but the slow sifting of the flour after grinding gives the oils a chance to emulsify back into the flour, giving it a shelf life of about eight months. The milling is entrusted to Brock Aspinall.

Nicole, who would like to see more healthy and sustainable food options available, represented Slow Food Saskatoon in Bra, Italy, at the Slow Food Terra Madre trade show in 2014.

EINKORN MUSHROOM RISOTTO

If you are busy or not in the mood to watch the pot, simply add all ingredients except peas and parmesan to a slow cooker and cook on low for about five hours. Stir in parmesan and peas just before serving.

3 tbsp.	finely chopped shallots	45 mL
2 tbsp.	butter	30 mL
1 c.	einkorn berries	250 mL
3 tbsp.	dried wild mushrooms	45 mL
6 c.	stock, any kind	1.5 L
1/2 tsp.	sea salt	2 mL
1 c.	fresh or frozen peas	250 mL
1/2 c.	grated parmesan cheese	125 mL
1 c.	cooked lentils, optional	250 mL

Reconstitute dried mushrooms in 1/2 cup (125 mL) boiling water for 20 minutes. Squeeze mushrooms and save liquid. Chop mushrooms finely. Save soaking liquid and use it as part of the stock.

Saute shallots in butter over medium heat. Add einkorn berries and stir until coated in butter. Add stock 1/2 cup (125 mL) at a time until einkorn is al dente, about 45 to 60 minutes.

If using lentils, add them now. Stir in peas, put the lid on the pot and let the peas warm for about five minutes.

Stir in parmesan cheese and serve immediately. Garnish with pea shoots. Serves about six as a side dish.

Source: Adapted from Daybreak Mill.

GENE'S UNBEATABLE BISCUITS

I used a small ice cream scoop to make these drop biscuits. It holds about two tablespoons (30 mL). I placed one scoop on top of the other and gently pressed down into a disc about one inch (2.5 cm) thick. This method gives the pull-apart flaki-

ness usually associated with flour biscuits.

2 c.	stoneground red fife flour	500 mL
4 tsp.	baking powder	20 mL
1/2 tsp.	salt	2 mL
1/2 c.	butter	125 mL
1	egg	
2/3 c.	cream	150 mL

Preheat oven to 450 F (230 C).

Whisk baking powder, flour and salt together. With your fingers or a pastry blender, cut in cool but not hard butter.

In a liquid measuring cup, lightly whisk the egg and milk.

Add liquid to dry ingredients and mix well. Make biscuits by dropping about 1/4 cup of dough for each biscuit. Gently pat into a disc about one inch (2.5 cm) thick. Place biscuits on baking sheet and bake for 10 to 12 minutes. Makes 12 biscuits.

Source: Adapted from Daybreak Mill.

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 allourfingersinthe pie.blogspot.ca. Contact: team@producer.com.

FEAR OF REJECTION

Learn how to say no

SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

Q: I'm like the song lyrics, "I am just a girl who can't say no."

Whenever anyone wants something done, he or she will knock on my door and I am always willing to oblige, even when I have neither the time nor the energy to do so.

Sometimes being as agreeable as I am gets me into real trouble, like yesterday, when I was baking three pies to rush over to the year end hockey banquet just after getting back from an overnight field trip with my son's Grade 5 class and while stopping in at the drug store to pick up Mom's latest prescription.

My husband gets impatient with me and wonders why I don't say no once in a while. How do you say no?

A: A number of people who struggle saying no carry with them an inordinate fear of rejection.

They do not say no because they are afraid that if they do, people will start to reject them and they will be isolated even within their own communities.

Learning to say no means that they will have to build up their self-esteem and not let the acceptance or rejection of other people be so persuasive in their lives.

The bottom line is that people are either going to accept or reject others for a variety of reasons. What they do is not likely to have much influence on whether or not other people think that they are acceptable.

Reflecting on your self-esteem might make this exercise too complicated to be of much value.

What you may need more than a well-rounded functional self-assessment of your character is a little more time to make decisions.

As desperate as someone might sound on the telephone, the truth is that people can wait.

Tell them you will get back to them and give yourself time without being subjected to pressures and you will likely find yourself choosing more carefully.

If you like baking pies, then bake pies, and let your mom wait for her prescription while you are telling your son's teacher that someone else is going to have to help her with the class field trip.

If you give yourself time to make a decision before committing, you are going to find that the number of times that you are desperately needed is not as often as you think.

Your husband is right. You do not have to be all things to all people but you do have to be faithful to yourself.

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



ON THE FARM

Family pleased with homegrown produce, livestock

Couple learns how to market their meat and produce through on-farm sales and co-ops

BY SEAN PRATT
SASKATOON NEWSROOM

LANIGAN, SASK. — Ben Martens Bartel has a vision for his farm that likely differs from many other prairie operations.

“I’m not interested in growing it,” he said.

Ben doesn’t believe farms should get bigger because that decades-long trend has eroded rural communities.

“I see how our services disappeared and how our community events are a shadow of what they once were,” he said.

There used to be eight families within a three-kilometre radius of the farm where he grew up. Now there is one.

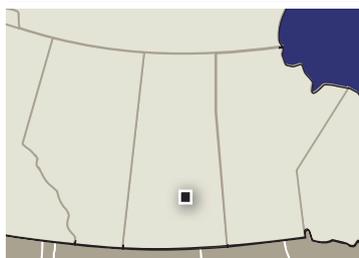
Ben is determined to stay lean and focus on decreasing costs rather than increasing production on the small livestock operation he runs with his wife, Lisa, and his parents, John and Denise Bartel.

Grovenland Farm consists of three quarter sections of pasture and hayland, 50 head of cattle, 50 pigs, 1,000 chickens and 150 layer hens.

Ben and Lisa became interested in the local food concept while working on a small farm internship program in Manitoba where they helped raise livestock and sold the meat directly to consumers.

“That taught us both things we

ON THE FARM



THE MARTENS BARTEL FAMILY
Lanigan, Sask.

want to do and a few things we don’t want to do,” said Lisa, who was raised near Steinbach, Man.

That was followed by a winter working with refugees on a U.S. farm in Georgia, gardening and raising chickens and goats.

Those experiences compelled the young couple to approach Ben’s parents about working together to form a small livestock operation that sells meat directly to local consumers.

“When we came and told them, ‘hey, we want to maybe do this and the only place we can afford to do this is on your land, what do you think about that,’ we didn’t have to convince them,” said Lisa.

Ben said his parents’ beliefs were aligned with theirs.

“With multigenerational farms, when the next generation wants



ABOVE: Ben Martens Bartel, left, his mother, Denise Bartel, and his wife, Lisa Martens Bartel, pick peas.
LEFT: Ben pulls his chicken tractor to the next feeding plot near Lanigan, Sask. | SEAN PRATT PHOTOS

to do something different, there’s usually resistance. And in this case there wasn’t.”

John’s grandparents bought the land in the 1930s and were grain farmers. His father started a dairy farm in 1973 that John and Denise took over in 1984 and ran until 1995 when they sold their cows and quota and decided to try conventional grain farming.

John grew weary of high input costs and the corporate influence in grain farming, so he got out of farming but maintained a small cowherd.

“We got interested in food justice issues about the same time, about people being able to access good food that is produced locally at fair prices,” he said.

So it was fortuitous when Ben and Lisa approached them with their idea. The new venture was launched in 2011 and has exceeded John’s expectations.

“I was fairly wary of its viability at the start,” said John.

Denise said the kids are the face of the business and have excelled at learning how to market the meat and produce.

“They’re fantastic and it has been really nice to work together,” she said.

Ben said the business has been as difficult and rewarding as they anticipated.

“We’re neither getting rich nor going hungry, I suppose,” he said.

“It is going OK. We are making payments on the land.”

It is not a certified organic farm but they employ many of the same principals in raising their livestock.

Environmental stewardship

Ben also believes in using holistic management practices such as high intensity grazing followed by long rest periods because it improves the health of the grass.

They believe that ruminants do not need to eat grain, so they have focused on cattle that are finished on a diet of grass.

They butcher chickens on the farm but the cattle and pigs are sent for processing in Watrous and St. Gregor. Most of the meat is sold directly to families but some goes to restaurants.

Lisa is thrilled that their three young sons, Jacob, Felix and Kaleb, are learning where their food comes from. They are often sent off to the garden patch to pick their own snacks.

The couple thought their products would appeal to millennials who are keenly interested in the local food movement, but most of the meat is being consumed by the older generation, who are used to buying in bulk and have freezers for storage.

Millennials are buying vegetables from the farm, which are sold

through a community shared agriculture program where consumers get a box of in-season vegetables every week for 15 weeks.

The marketing side of the business has been trickier than anticipated due to the low population density in the surrounding area.

Initially Ben and Lisa thought they would be able to sell a lot through the Humboldt Farmer’s Market but there was no money doing that.

“I’ll be honest, the pigs and chickens ate a lot of lettuce,” said Ben.

They have had to expand their reach, with half of their sales now occurring in Regina and Saskatoon. They are also selling products via a website operated by the Farmers’ Table co-operative.

They recently started selling small bags of meat in addition to sides and quarters because it appeals to millennials.

“I have to figure out how to offer the convenience of a store without paying the store,” said Ben.

The couple has discussed diversifying into raising sheep or becoming an agritourism destination but it will continue to be a small, cost-focused operation.

“I don’t think farms should get bigger. It’s been bad for our community,” said Ben.

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If it weren't for the messages from some of the leaders I connected with, I wouldn't have this clear vision nor the motivation to go after it. I can't thank you enough for that. — Jen C., Ontario, AWC Delegate

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4-H SUMMIT

The queen of all things fun

4-H leader says playing, rather than lecturing, encourages interaction and confidence

BY KAREN MORRISON
SASKATOON NEWSROOM

OTTAWA — Saying yes to all project ideas opens up a world of opportunities for young people, said a 4-H leader.

Caroline Boddy, who spoke at the recent Global 4-H Network Summit in Ottawa, detailed the benefits of her leadership style.

“I say yes with all my heart and follow those kids wherever they want to take it,” she said.

Addressing concerns about projects getting out of hand, she said, “if it’s their idea and they are driving

that, they will moderate that.”

Boddy, 4-H Canada’s national volunteer leader of the year, used examples of an all-boys camp in Alberta that says yes to everything, including burning a cabin. It started by having the group build a cabin and then burning the old one.

In her own Golden Prairie 4-H Club in east-central Alberta, members’ interests range from busking to haunted houses.

During the summit session, youth participants sought ways to create more interaction within multi-age clubs.

Boddy said play and youth leading clubs are important components. Avoid standing at the front of the room lecturing, she said.

“Recognize you can take any room full of strangers and if they can play interactively ... we walk away with a shared experience that makes us better friends,” she said.

She recalled how the busking project began with a child who wanted to do something with Samoan poi balls. That led to members building trick sticks, stilts and balloon animals and in later years hoops, unicycles and juggling in live performances.

“You follow whatever anyone wants to do,” she said.

She watches to see where she can help. When the stilts were too high for one member, they lowered them.

To overcome the shyness of first-time buskers, she helped them create a black light puppet theatre, in which a group worked together in the dark to stage a performance.

“Busking props make people play with each other, watch each other and get inspired,” said Boddy.

She said people are scared to say yes because they’re not sure what to do next, but the dynamic nature of such projects keeps leaders engaged longer.

She said the members teach one another, build leadership and self-confidence and engage with their community in addition to acquiring physical development in motor skills and body strength.

“I meet the kids at where they’re at and watch them and see what’s going on for them,” she said.

Another example was a male teen who wanted to find a way to dress as the Red Queen from Alice



Caroline Boddy is an Alberta 4-H leader willing to go wherever her kids’ projects take her. She gave a presentation entitled How to be an Entrepreneur of Fun at the Global 4-H Network Summit in Ottawa. |

KAREN MORRISON PHOTO

in Wonderland.

They spent 500 volunteer hours creating a haunted house in a museum complete with the room of doors, Mad Hatter and a castle and featuring the Red Queen, played by the teen wearing a costume he created.

For the teen, who has gone on to study theatre arts, it provided an outlet for his desire to cross dress.

“We created that safe space where

he could have permission to be who he wanted to be,” said Boddy.

She concluded her session by inviting participants to create a tulip for a giant bouquet.

“It shows individually you can all contribute to make something bigger and hand that love we put into it onto someone else and brighten their day.”

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FARM LIVING NOTES

INSTITUTE TACKLES GLOBAL CHALLENGES

One-third of the world's population lacks access to improved sanitation and one billion lack any access to toilets, latrines or waste disposal systems.

In addition, 783 million people in the world do not have safe water. Women and children bear the responsibility for collecting water in most developing countries, often spending up to six hours a day doing so.



LIBBY CRIMMINGS
WORLD FOOD PRIZE

Libby Crimmings, director of national education programs for the World Food Prize, presented these examples of the realities imparted to students attending the annual Global Youth Institute (GYI) in Iowa.

Speaking at the recent Global 4-H Network Summit in Ottawa, she said the institute connects young people and their mentors or teachers with experts and academics to talk about solutions to such challenges.

There, they can interact with Nobel and World Food Prize Laure-

ates and discuss food security and agricultural issues with international experts.

"We challenge students to look at problems and suggest solutions on what would work, then present them to world leaders," she said.

It's unfathomable to her as a mother to think that so many in the world do not have access to common remedies easily accessed in Canada and the United States.

At the GYI, hosted by the World Food Prize Foundation, young people meet students from around the world, tour research facilities and take part in discussions about science, industry and policy.

Teacher-mentors register their students to participate, and students then research and write a short research report on a food security issue. Papers are published in the GYI proceedings and are available online.

Participating students are also eligible to apply for the Borlaug-Ruan International Internship, an eight-week experience with scientists and policy-makers at research centres in Africa, Asia, Latin America and the Middle East.

Clayton Robins, executive director of the Manitoba 4-H Council, said Saskatchewan and Manitoba sent two teams to the GYI with the help of sponsorships.

He called it a life changing experience for young people, opening their eyes to issues of food waste and food security.

"They are made aware of things you can't relate to coming from a country like Canada where things are good," he said.

"It makes them realize the impact



CLAYTON ROBINS
4-H MANITOBA

of challenges of feeding the world population now and as it grows."

For some, it will direct their future career choices, Robins said.

SCHOLARSHIPS AWARDED

Four 4-Hers from Western Canada are among eight students receiving \$1,000 CIBC post-secondary scholarships. They include:

- Emily Beattie, B.C.
- Andrea DeGroot, Nicole Steed, Alta.
- Abbie Brokenshire, Sask.
- Marika Dewar-Norosky, Man.

The 2017 recipients of the John Deere 4-H Canada \$1,000 scholarships include:

- Matthew McGillivray, B.C.
- Andrea DeGroot, Kaylie Krys, Katrina Taylor, Alta.
- Jordan Mitchell, Jordan Vos, Sask.
- Marika Dewar-Norosky, Emily Turner, Man.

Fifteen members received these post-secondary scholarships, including 4-Hers from Ontario, New Brunswick, Nova Scotia, Prince Edward Island and Newfoundland and Labrador.

CUTE STAND-IN



Judge Sheena Malone of Red Deer shows one of the gerbils used in the rat tube at the Prairie Dog Sports Barn Hunt held recently in Lacombe, Alta. Prairie Dog Sports is based on the traditional role of many dog breeds used to rid farms of vermin. Other disciplines within the sport include dock diving and agility. Since Alberta is designated rat free, gerbils are placed in the aerated tubes. | MARIA JOHNSON PHOTO

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PRODUCTION

MAKING STRAIGHT-CUTTING CANOLA SAFER

A research farm in Indian Head, Sask., turns its sights on how to reduce the risks of straight-cutting canola, which has become more common on the Prairies. | **Page 26**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM

TILLAGE

Vertical till with Versatile Viking

New high-speed vertical till compact cultivator enters the competition

BY RON LYSENG
WINNIPEG BUREAU

LANGHAM, Sask. — Versatile has entered the vertical tillage tool world with the Viking, designed to address many issues that faced early generation vertical till machines.

Viking falls into the high-speed compact category.

“This is definitely a next-generation machine,” said Versatile’s Trevor Jubenville.

“The Viking is a vertical tillage tool. It’s not a cultivator, not a disc, not a chisel plow. It’s what we call a vertical tillage tool.”

He said the new machine is designed to cut, chop and size the residue and mix it up in the soil rather than throwing it sideways the way a disc or chisel plow would.

“Farmers are coming into the dealerships now to trade their original first generation vertical till units,” he said. “They’ve been demanding adjustable gang angles and a different type of blade that won’t go dull. Some guys have been asking for size options, so we’ve incorporated those criteria into the Viking. When you examine the machine, you’ll see some interesting innovations.

“The SoilRazor blades are a quarter inch thick and have a jagged sharp edge that stays sharp all the way through that entire wear zone, to give you precise cutting for many acres. That scalloped edge stays sharp through four or five inches of wear zone. You don’t need to worry about blades going dull. As long as you can see scalloped edge, you know it’s sharp.”

Jubenville said many of the first generation of vertical till machines had fixed gangs of two or three degrees. Other designs had zero degree gang angle or they were built on a tandem disc frame at an aggressive gang angle. The Viking has adjustable gang angles that run from zero to 16 degrees. Working depth ranges from zero to five inches.

“This wide range of adjustment is



Manual adjustment Vikings run from zero degrees to 16 degrees in four-degree increments. The optional hydraulic adjustment models run in one-degree increments, controlled from the cab. | VERSATILE PHOTO



FAR LEFT: The 1/4 inch thick Viking SoilRazor blades are available in 20-inch, 22-inch and 24-inch diameter and are situated on either eight-inch or nine-inch row spacings. The scalloped cutting edge extends inward four inches from the circumference. | VERSATILE PHOTO

LEFT: “Farmers are coming into the dealerships now to trade their original first generation vertical till units. They’ve been demanding adjustable gang angles and a different type of blade that won’t go dull,” says Versatile’s Trevor Jubenville. | RON LYSENG PHOTO

in response to grower demand for different angles to suit a variety of field conditions,” Jubenville said.

“In the fall you can set the machine to leave just enough standing stubble to trap snow, yet still allow seeding in the spring. In the spring guys will run maybe four degrees or eight degrees. They’ll sometimes have conditions where they run very shallow at zero degrees.

“There’s a dirty little secret in the world of vertical tillage. The vertical till purists, like the university agronomists and researchers, wanted farmers to run at a very shallow angle or at zero degrees. That’s why the original vertical till designs were zero degrees.

“But the farmer knows he often has to do emergency work. For example, he often needs to fix some deep ruts

after a wet harvest, as we’ve seen in recent years.

“He desperately needs a more aggressive angle on some occasions. So our gang angle is manually adjustable in four degree increments of four, eight, 12 and 16 degrees. The hydraulic option lets you adjust in one degree increments from the cab.”

The Viking is available from 28 to

38 feet. Blade spacing is on either eight-inch or nine-inch centres. Blade diameter options are 20, 22 or 24 inches. Versatile also offers a choice of bearings. Viking comes with a sealed maintenance-free standard-duty bearing. As well, there’s an optional extreme-duty bearing with a seven-year warranty.

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SNAP, SEND & WIN

Photo: #HARVEST16 photo contest winner Kim MacDonald Cameron



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WATER MANAGEMENT

Water Cannon blasts 2,000 gallons per minute

New dual nozzle design doubles H2O volume draining pots

BY RON LYSENG
WINNIPEG BUREAU

LANGHAM, Sask. — Large-scale drainage of prairie sloughs and potholes can cause serious flooding issues downstream.

Hydrologists concerned with soil moisture depletion say most remaining wetlands cannot be economically drained, nor should they be.

However, a dozen or more shallow little nuisance ponds scattered across a half-section field affect not only seeding operations but also spraying because of vacant areas or retarded crop. As well, they'll hang around long enough in a really wet year to make harvest miserable.

Growers who have succeeded in pumping water from spring ponds up to nearby hilltops say they can usually seed through the low spots instead of going around.

Getting a crop established in those low spots uses up much of the excess moisture and can create a uniform crop. If the knolls are dry,

the extra moisture may help kick-start the crop up there.

If luck is on your side come June, the whole field can be sprayed as a single uniform crop right on schedule. Not only that, but when harvest arrives, the combines can roll right on through without getting stuck.

And those are the final two economic arguments for pond pumping: you get to run crop through your combine on those low acres where you otherwise would not have harvested any crop, and you may get a better yield on the knolls if you're able to get water up to them.

- Five factors support pond pumping:
- seed more acres without dodging ponds or getting stuck
- spray crops in uniform stage of development on time
- combine whole fields without dodging low spots or getting stuck
- extra acres of crop into the bin from low spots
- potential extra yield because of water on knolls

Irrigation equipment can be jury-rigged to pump from pothole to knoll, but it's a time-consuming way of attacking the problem. Over the years, the portable water cannon has proven to be the most practical method, mainly because it can easily be moved from one

pothole to the next.

Prairie farmers use big equipment, and nowhere is that more evident than in the realm of water cannons.

Double A Trailers of Two Hills, Alta., brought its new Dual Nozzle Water Cannon to the Ag in Motion farm show held last month near Saskatoon. With a capacity of 2,000 gallons per minute, the new Cannon doubles the volume of the company's previous single nozzle design that it introduced 12 years ago, said Nathan Rudko of Double A Trailers.

"Two thousand gallons is your volume spraying through the dual nozzles, but if you run through a hose to pump into another dugout or permanent pond, then you're up to 4,500 g.p.m.," said Rudko.

Power take-off of 150 horsepower is required in either mode, he added.

"The smaller pump, which feeds the single unit cannon, requires a p.t.o. of 100 h.p.

"The cannon chassis itself is 80 feet long; then you get another 20 feet when you swing the boom out in front of your tractor," he said.

"The discharge boom is hydraulically controlled. It shoots up to about 400 feet, depending on wind conditions. It covers a 270 degree arc. That's about four acres for each setup.

"On a day when you have a strong wind blowing with the water, the drops don't even touch the ground. They atomize into such a fine mist, it either evaporates or lightly covers the ground. Without the wind, it does deposit water on the knolls."

The single nozzle cannon has an eight inch suction inlet, and the dual nozzle unit has a 10 inch suction inlet.

Transport length is 83 feet and transport width is 8.5 feet.

The dual nozzle unit weighs 6,400 pounds and sells for \$50,000 with high flotation tires.

Double A Trailer says pumping pond water to a higher elevation may move some of the salts in areas where discharge potholes are caus-

ing salinity.

"Soil salinity is decreased and saline soils are rejuvenated. Grasshopper and mole infestations around potholes and sloughs can be reduced."

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There's a pot of gold at the end of the rainbow, especially if you can grow an extra 100 bushels of canola on low land that had once been a pothole. | NATHAN RUDKO PHOTO

PRE-HARVEST APPLICATIONS

The Heat is on for wheat

BY MICHAEL RAINE
SASKATOON NEWSROOM

Harvesting cereals and gaining the upper hand on weeds and Roundup Ready volunteers gets easier with a pre-harvest application of herbicide.

However, it can be a waiting game for herbicide-tolerant weeds and those that are slow to burn down.

Producers looking for another pre-harvest tool recently received good news when the CODEX Alimentarius Commission gave the last foreign buyer approval needed for the Canadian use of BASF's Heat LQ in a pre-

harvest application for wheat and barley.

Saflufenacil, when formulated as a suspension concentrate, is now allowed for application along with glyphosate, according to the company.

It has been registered for use for some time, but getting all of the buyers on-board delayed its approval for use by the Western Grain Elevators' Association.

Dan Packer of BASF said that group is now OK with producers using the product, as long as they follow the rules for glyphosate application in a pre-harvest envi-

ronment with cereals.

"The crop has to be under 30 percent (moisture)," he said.

Producers can apply the tank mixed product at the 10 gallon per acre or greater rate once wheat or barley has reached the hard dough stage.

"This is effective on tough weeds like sow thistle, buckwheat and pigweed and takes out those Roundup Ready canola patches," said Packer.

"But if growers have heavier stands or canopies, they will want to increase that water rate accordingly."

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Vuk Bozic, PAg
Global Crop Production Manager
Cargill
Aberdeen, SK

Vuk is responsible for high-oleic canola programs in North America and Australia, which includes program development, VICTORY brand seed sales and grain origination. Vuk leads teams that build trust and confidence with customers by offering the highest quality seed, information and pricing available to achieve profitable results.

"The professional agrologist (PAg) designation ensures my professionalism in the agriculture industry, which instills trust and confidence in customers with the knowledge and services I provide."

Vuk grew up on a small grain and hog farm in Yugoslavia. He received an MSc in Ag Engineering from the University of Belgrade. Vuk has previous work experience in crop input retail, agronomy related services, and agronomic research.



Jillian Brown, PAg
Agronomist
Western Ag Professional Agronomy
Saskatoon, SK

Jillian provides agronomic services such as dispatching and reporting scouting data and reviewing recommendations. She develops seasonal agronomy reports, with an onus on best management practices and production cost analysis. Jillian is also an instructor at the University of Saskatchewan, teaching introduction to farm business management.

"The professional agrologist (PAg) designation ensures my work and knowledge is accountable, transparent, and capable in the agriculture industry."

Jillian was born in Melfort, SK and grew up on a grain farm near Brooksby, SK. She received a BSc in Agribusiness from the University of Saskatchewan and is currently completing her Masters Degree in Agricultural Economics with a focus on the impact of irrigation on the Saskatchewan economy. Jillian previously worked with Cargill, Bayer, Viterro and has experience working in research at the U of S; she joined Northland Agronomy and Western Ag Professional Agronomy in 2013.

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CANOLA

Canola research focuses on harvest issues

Little benefit was seen in tests on pod sealants, while glyphosate trials showed it is an effective crop dry-down aid

BY BONNIE WARNYCA
FREELANCE WRITER

INDIAN HEAD, Sask. — A Saskatchewan research organization is looking at how to reduce the risks of straight-combining canola now that the practice has become more commonplace.

“Ten years ago there was only a smattering of farmers straight-cutting canola, but today it’s an accepted harvest method,” Chris Holzapfel, research manager at the Indian Head Agricultural Research Foundation, said during the farm’s recent field day.

“I have more extensive experience with the two LibertyLink varieties, but several new Roundup Ready varieties are geared toward straight-combining and showing excellent pod-shatter tolerance, yield and standability,” he said, adding that even with non-shatter-tolerant varieties the losses were often negligible.

“Over 13 site years with straight-combining and normal harvest dates, we recorded yield losses below 10 percent in all cases and were usually well below five percent. When harvest was delayed, losses were still often remarkably low, but in extreme cases could be severe. In 2012, with very heavy sclerotinia pressure and high winds, we had more than 50 percent losses at one site with certain varieties. Many swathed fields were just as bad that season due to the 80 km-h winds.”

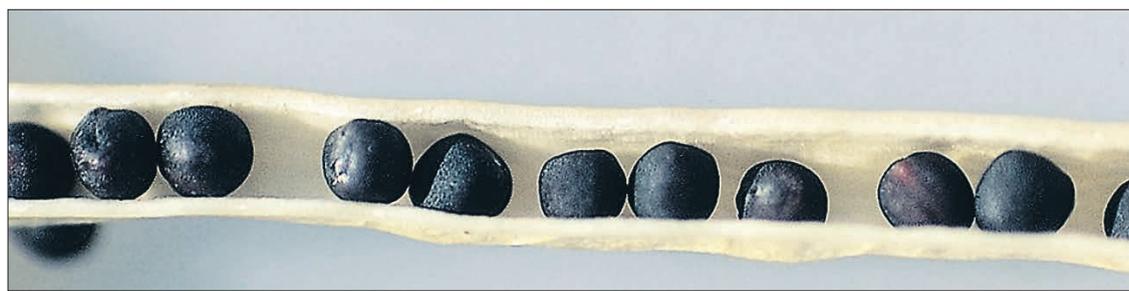
In 2009-10, Holzapfel led a project for SaskCanola with pod sealants at four locations testing different products across multiple varieties.

While the sealants showed some benefit, it was inconsistent and difficult to predict at 40 to 50 percent pod colour change when the products had to be applied.

Only one out of eight site years showed a yield benefit with a pod sealant and straight-cut combining. However, there was little overall difference between treated and untreated canola, which made it



Swaths like these near Turtleford, Sask., might be a thing of the past in the near future as producers opt to avoid swathing their canola crops when possible. | FILE PHOTOS



Research has recently shown that shattering out of canola seed when it is left standing for harvest is not the issue it once was or was suspected to be. Larger seed sizes from completed ripening, improved genetics and additional research have conspired to show that producers can leave the crop stand in most cases and avoid a swathing operation, saving time and money. European-proven header systems with extended cutter bars can further cut harvest losses.

difficult to justify the added expense.

Holzapfel said it wasn’t always the fault of the sealant because sometimes harvest was delayed beyond what the sealant could be expected to provide protection.

He said he sometimes still uses a sealant in his research, but it’s too inconsistent from a production perspective to recommend to growers planning to straight-combine.

Farmers are still debating whether to apply glyphosate ahead of

straight-combining canola.

Holzapfel said it can help kill and dry down weeds before harvest if applied properly ahead of time. However, producers shouldn’t rely on it to help dry down the crop, he added, because



Reglone and Heat LQ are the most reliable harvest aids for crop dry-down under late stages and a wider range of conditions.

CHRIS HOLZAPFEL
RESEARCHER

that’s not what it’s registered for. “In a wet fall last year, we applied glyphosate and left it about 20 days to work,” he said.

“It helped to dry down the crop quite effectively relative to the untreated control. Given enough time and in the right conditions, when growing Liberty or Clearfield varieties, you can actually have a strong dry-down effect with glyphosate. However, it isn’t always the case, depending on weather and crop stage.

“Reglone and Heat LQ are the most reliable harvest aids for crop dry-down under late stages and a wider range of conditions. Reglone is an effective crop desiccant for a wide range of growing conditions. It doesn’t need to be taken up by the plant through the roots and can literally work within four days, depending on the weather,” he said.

“Heat, when tank mixed with glyphosate, gives powerful weed control, and the Heat component is a more contact-based herbicide that is quite non-selective against broadleaf crops and weeds. It would normally provide a more rapid and reliable dry-down compared to glyphosate applied alone. I consider it an intermediate between the (glyphosate) and Reglone. It doesn’t appear to be as rapid as Reglone, but we’re still comparing all the options and need more data. Last year we didn’t get the same level of dry-down with Heat as Reglone in the time window we gave it, but all were a big improvement over control.”

The final piece of a more successful canola harvest is in the hands of the equipment and the fine-tuning of the settings.

A number of straight-cut headers are on the market but IHARE, in a project led by the Prairie Agricultural Machinery Institute, has observed slight advantages using a Draper rigid auger-type header modified specifically for straight-combining canola.

The ability to move the position of the knife ahead about 20 inches allows an operator to cut the canola before the reel comes into contact with it. It also provides a larger catchment area for any seeds that do shell out.

However, Holzapfel said any straight-cut header can be used with a good operator and proper settings. It just takes a bit more time and patience to get things right.

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TRACTORS

Multi-tasking Multifarmer crosses over

This mid-sized Italian 156 h.p. field tractor with a nine-metre telehandler boom makes its debut on the Prairies

BY RON LYSENG
WINNIPEG BUREAU

LANGHAM, Sask. — The Italian equipment manufacturer Merlo, known for small horticultural tractors, took one giant step onto the Canadian Prairies when it debuted its new Multifarmer at the recent Ag in Motion farm show near Saskatoon. “The Multifarmer has a 156 horsepower Deutz Tier 4i. It does everything a conventional North American tractor in this range can do. Plus it has a zoom boom telehandler and it’s a wheel loader, all combined in one machine,” says Merlo dealer Doug Keller of Saskatoon Material Handling.

“The nine metre boom can pick up 8,800 pounds and safely place it on a surface 30 feet above the ground. That’s as high and as heavy as you’d need to go on most farms. Back in 1964, Merlo was the first company to build telehandlers designed for agriculture.”

Keller said that, like other European tractors in this class, the Multifarmer has a Category 3 three-point hitch with a 15,432 pound lift capacity. It has a 135 h.p., 540/1000 r.p.m. mechanically driven power take-off. Four hydraulic circuits are at the back with a combined capacity of 40 gallons per minute. The rear has a differential lock.

“It’s enough capacity to accommodate a small scraper,” he said.



Doug Keller of Saskatoon Material Handling says the Merlo Multifarmer is ready to compete with North American tractors and comes with 156 h.p. and 40 g.p.m. hydraulic capacity. | RON LYSENG PHOTO

“We sell some of the attachments, but not all of them. Right now, for the show, we have a Seppi stone crusher on the back. It’ll pulverize rocks up to eight inches in diameter. It requires a p.t.o. ranging from 125 h.p. to 175 h.p., so this is a perfect machine for stone crushing.”

The CVT transmission employs

two axial piston hydrostatic engines powered by an electronically controlled hydraulic pump.

At low work speeds, they work together for maximum torque.

At transport speed, one of the hydrostatic engines is disengaged, and that allotment of drive oil is channelled to the main engine to

provide maximum road speed. The hydraulic functions of the tractor are separate from the hydrostatic drive functions. The trailer braking system is pneumatic over hydraulic, with two inboard dry discs at each axle. Towing capacity is 20 tonnes.

Safety is always a concern when using a boom to lift heavy objects.

The Merlo electronically recognizes what attachment is installed and automatically calibrates the system to fit the limitations of that implement.

If the telehandler boom is moving into a high risk situation, the system prevents the boom from any further movements that might lead to an accident. The self-levelling boom compensates for chassis side angles up to 10 percent.

In the summer, the cab can be cooled down to 22 C when the outside temperature is 43 C and the tractor is in full sunlight. In the winter, the cab can be heated to 26 C when the external temperature is -15 C with no radiant sun heat.

“This is definitely high-end European quality,” Keller said.

He said the cost is comparable to any mid-power high-end tractor with CVT and full list of capabilities. Without attachments, the tractor at Ag in Motion lists for \$220,000.

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FOOD LABELLING

Is COOL finally dead and gone?

BY BARB GLEN
LETHBRIDGE BUREAU

CALGARY — Canadian cattle and hog producers want country-of-origin labelling to stay dead and buried.

The U.S. based National Cattlemen's Beef Association shares that view.

"All of you sitting here know that COOL is a failed policy," NCBA government affairs vice-president Colin Woodall said at last week's Canadian Beef Industry Conference.

"The good news is, the president and his team have made it very clear that they understand that COOL failed and that there is not going to be a push to put COOL back into the NAFTA negotiations.... Right now things are looking pretty good that we can keep COOL at bay."

After costing Canadian producers an estimated \$1 billion in lost trade and income, the World Trade Organization quashed COOL in 2014 and the U.S. lost an appeal in 2015.

Canadians now fear that COOL or an ugly cousin might reappear as part of the Donald Trump administration's America First mantra or as part of ongoing North American Free Trade Agreement renegotiations.

In a later interview, Woodall acknowledged that talks around the new farm bill might raise the labelling issue internally, but he thinks the appetite for a revival is faint.

"We do have a farm bill that is coming up, but when you look at the members of our House and Senate agriculture committees, the ones that are riding this farm bill, all of them are veterans of the old COOL fights, and they don't want to bring it back either," he said.

"So even though we may hear some rhetoric about somebody trying to run a bill or an amendment, we do not believe that there is any credible way that COOL is going to come back to life."

He said COOL failed in its goal to increase beef demand.

"Before COOL went into place, the conversation was all very philosophical: 'well, if we just put a label, we'd do better,'" said Woodall.

"But we had COOL for six and a half years and it didn't provide any single benefit, especially not the ones that the proponents claimed."

Woodall said R-CALF, an American cattle group and proponent of COOL, isn't likely to gain traction with the Trump administration.

"The good news is that R-CALF does not have a strong presence in Washington, D.C.," he said.

"Even though we have seen a resurgence of R-CALF in the countryside and we see a lot of rhetoric out of them, it's still just (R-CALF chief executive officer) Bill Bullard with his laptop... It's not translated into any major ability to influence rules, regulations or law in Washington, D.C., right now."

barb.glen@producer.com



Cattle handling expert Dylan Biggs gave a workshop Aug. 9 east of Champion, Alta., organized through the Foothills Forage and Grazing Association. The pasture is an example of dry conditions in the region, similar to those in southern Saskatchewan. Shortage of pasture and hay might require some innovation on the part of ranchers dealing with drought. | BARB GLEN PHOTO

DROUGHT

'We're trying to prolong the agony'

Buying feed, selling cattle and lightly grazing are all on the table in the midst of a drought

BY JEREMY SIMES
EDMONTON BUREAU

Drought in many parts of Western Canada means ranchers will need to act innovatively this summer to avoid problems next year.

Importing feed is one option, says Saskatchewan Agriculture specialist Lorne Klein.

"There are numerous products out there you can truck in," he said. "But then it's a matter of the price."

He said the Feed Value Calculator, which can be accessed on the Saskatchewan Agriculture and Alberta Agriculture websites, allows ranchers to determine the value of feed by comparing them to one another, based on current market prices and nutrient contents.

"There are numerous products you can put together to feed an animal over the winter," he said.

"It's just finding them, while also considering the price and the distance it'll take to truck. If you're in the heart of the drought,

you've got the longest distance to bring feed in."

Ranchers can also encourage their cows to graze pastures lightly so they have enough for next year. It's what Aaron Brower, a zone director with the Western Stock Growers' Association, has been doing.

"We're trying to prolong the agony," said Brower of Aden, Alta. "Any straw, anything from canola straw, we're trying to bale all of that stuff."

He's also looking to start moving more into a fall crop rotation, which can take advantage of winter moisture.

"There's been no good rain for a few good months," he said. "There's been some showers, but they don't amount to anything."

Ranchers may also need to look at downsizing their herd by selling some of them — something Klein said many folks won't want to hear.

"It's not necessarily the first step, but it can be one of the steps," he said.

Klein said ranchers who decide to do this should calculate how much feed they'll have and determine how much each cow will eat. If there isn't enough feed for every animal, they'll either have to buy more or cut back on cattle while weighing the costs.

He said some producers are letting their cows graze a field instead of baling it because the crop has been so poor, although he added that such practice is a short-term solution.

"If you're going to sell that cow, that practice is getting you by, so the hay supply is not as critical," he said.

Brower said he downsized his herd last year because he figured the drought would be a long one.

"Historically, drought comes in a 10-year cycle," he said.

"We knew it was kind of coming, so we've slowly started cutting the cow numbers back and haven't been replacing them."

But there's more to consider. Ranchers should look for toxic

plants such as water hemlock, poison hemlock, death camas, tall and low larkspur and timber milk-vetch during a drought because they can pose a risk if they're the only thing left on the pasture and if there's an abundance of them, according to a blog post by the Beef Cattle Research Council.

As well, the minerals left behind when ponds evaporate could reach dangerous levels.

As for next year, producers may want to look at getting rainfall or hay insurance while also having a supply of feed they can stockpile.

"I'm anticipating at the end of this winter the feed supply in Saskatchewan will be very, very short," he said.

"There aren't a lot of hay bales left, so next year's crop becomes even more critical. This can be fixed with rain this fall and rain next spring, but it's a hurry-up-and-wait situation."

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CATTLE BREEDING

Charolais enjoying renewed popularity

Alberta family has spent generations breeding strong Charolais line based on fertility, short calving period and growth

BY BARBARA DUCKWORTH
CALGARY BUREAU

CLYDE, Alta. — The grass at Valanjou Ranch is belly high and green, and the Charolais cows grazing through are white.

This is the picture Henri Lusson envisioned when he emigrated in 1951 from the Anjou region of France to northern Alberta to become a rancher in northern Alberta.

Henri and Odette Lusson started the farm at Clyde, north of Edmonton, with some Hereford cattle. However, they wanted to produce bigger, meatier carcasses, so they started to use a Charolais bull in 1964.

In 1967, Henri bought a dispersed herd of 30 registered Charolais, the year their son Phillippe was born.

Of their eight daughters and two sons, Phillippe would take over in 1993 and run about 100 registered Charolais while his brother, Jean-Marc, has a commercial operation nearby.

Phillippe was a young boy when five females and a French bull named Gascon arrived in 1970. Most of the herd can trace back to that sire.

"I remember when he came. It was kind of a big event, a bull from France," said Phillippe. "It was big money back then. It was craziness with Charolais in the early '70s. A quarter of land around here was \$6,000 an acre and they were buying calves for \$6,000."

The cattle were crossed with Canadian stock to create three-quarters and seven-eighths breeding until they were eventually considered purebred at 15/16. Some



These Charolais cows at Valanjou Charolais are owned by Phillippe Lusson, whose family has been in the business for 50 years. | BARBARA DUCKWORTH PHOTO

breeders preferred to stay with the full French, meaning the cattle trace directly from France.

The Lusson family continued the full French program with regular imports of semen from France.

"All through the '70s, '80s and '90s, all the way through, we always used full French bulls, even on our purebred cows," Phillippe said.

"After 50 years they all look full French."

The French cattle are differentiated with a red ear tag.

The family actively showed cattle

in the steer and breeding herd divisions at events such as Farmfair in Edmonton. They have won grand and reserve steer championships at Farmfair with buckskin cattle.

Over time Charolais were adapted to Canadian conditions and tastes. The cattle became taller and less meaty, but in his opinion that is not what the top end commercial beef producers want.

Many bull buyers ask for low birth weight calves, but he feels producers are giving up performance.

"It is like they lost the art of cross-

breeding. It is simple and you can gain 100 pounds," he said.

Phillippe also became an active exporter in the late 1990s until the discovery of BSE in Canada, when borders slammed shut and markets collapsed.

"From '98 to '03 I exported every year to Mexico. I was selling my females," he said. "It was smooth sailing for five years, then bam, May 20 and I lost my Mexico market overnight," he said.

He got a job on highway construction and in late 2005 he hurt his back



PHILLIPE LUSSON
CHAROLAIS BREEDER

and was incapacitated for two years.

Recovery was slow, but the Charolais breed is enjoying a renewed popularity, and he is starting to export live cattle again.

The efforts of 50 years were recognized when the Alberta Charolais Association presented Valanjou Charolais with the 2016 purebred breeder of the year award. This recognizes people who work to promote the breed and produce quality cattle.

Henri and Odette Lusson were recognized by the Alberta association in 2007 with the Pioneer Award for their contribution to the establishment of the Charolais breed in the province. Henri died in 2009 and Odette died last year.

Phillippe, a single father, has three children. The oldest daughter, Emilie, is 23 and working on a master's degree in history at the University of Ottawa. The second daughter, Dante, is studying science at the University of Alberta, and his son Mateo is 15 and still at home. All were active in 4-H and showing cattle.

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FOOD INSPECTION

Audit shows deficiencies in Canadian inspection system

BY BARBARA DUCKWORTH
CALGARY BUREAU

Canada's meat inspection system has shown deficiencies following an audit by the United States.

As trading partners, the Food Safety and Inspection Service of the U.S. Department of Agriculture and the Canadian Food Inspection Agency conduct regular audits of each other's processing plants to assess equivalency in standards.

The FSIS had concerns about carcass inspection and sanitation following an audit last fall of meat, poultry, and egg facilities.

Auditors reviewed seven slaughter and processing establishments (two swine, two bovine, two poultry, one bovine/caprino), four processing-only establishments, one egg processing facility, one cold storage facility and two laboratories.

An egg plant in Abbotsford, B.C. and a Calgary cold storage facility had no problems, but issues were found at slaughter and further processing facilities.

The FSIS report said government inspectors were not conducting complete carcass-by-carcass post-mortem inspections to ensure there was no contamination from feces, milk or stomach contents for reconditioned carcasses before

applying inspection marks.

Other problems included sanitation where there was too much condensation inside plants, pools of water and some maintenance requirements on the structure of some plants.

"Most of the SPS findings (building and equipment maintenance findings) were already identified by the local CFIA inspectors prior to the FSIS audit," said the report.

Rob McNabb of the Canadian Cattlemen's Association said the plants have standard operating procedures to prevent contamination.

"We are talking about plants that are global and operate in Canada and the United States and other countries as well. Most of those companies have a pretty standard set of operating procedures. They are all based on a HACCP (hazard analysis and critical control points) approach because that was adopted years ago," he said.

He also said carcass sanitization processes used in Canadian plants would remove potential contamination such as feces or invisible microbes.

"I have a lot of confidence that our packers have the technology to sanitize carcasses long before they even get to the break down, never mind to consumers. Things like the

REJECTED

A recent USDA audit of Canada's meat inspection system revealed:

- Between Jan. 1, 2013, and Dec. 31, 2015, Canada exported 4.809 billion pounds of meat and poultry products to the U.S., of which 200 million lb. were inspected again at points of entry to the U.S. Of that re-inspected product, 1.6 million lb. were rejected because of various health reasons, including the presence of fecal matter, ingesta, extraneous material or failed analytical tests for correct species and pathology.
- More than 19 million lb. of egg products were inspected again at U.S. border crossings and 60 lb. were rejected for reasons other than food safety and returned to Canada.

Source: USDA

acid washes, hot washes and steam cabinets are the critical control points and are much more effective than someone being able to eyeball them," he said.

Many issues cited in the FSIS report could be resolved if more inspectors were on site but government cuts have reduced their numbers, said Bob Kingston, president

of the Agriculture Union at the Public Service Alliance of Canada.

"When you look at the FSIS report, on their audit every single deficiency they cited was resource related. They simply didn't have enough people to have those tasks completed," he said in an interview.

The union released a survey to inspection staff on Aug. 8 in which many indicated concerns about how work is done and what may be coming in the future when new food safety regulations are released.

The CFIA, meanwhile, has said it plans changes to ensure there is adequate inspection and to ensure that employees will not have to work outside their areas of expertise.

In a statement, the agency said Canada regularly audits and is audited by its trading partners such as the U.S.

Canada last audited the U.S. in early 2017, it added, and is finalizing its draft report.

It said the draft report will shortly be sent to the FSIS for their comments and corrective actions.

Findings from the union survey:

- A third of meat inspectors reported there are always sufficient staff in their immediate work group to make up a meaningful

daily presence in meat plants, while two-thirds said there is not enough staff for mandatory oversight requirements or to complete all tasks to ensure compliance with food safety requirements.

- Half of those who took the survey believe Canadians have been exposed to a greater risk of food-borne illnesses because of staff shortages. Three-quarters believe a major food-borne illness outbreak in Canada is very or somewhat likely.

- Staff also raised issues of having to work in areas where they did not always feel qualified under the new inspection system and many said inspection modernization may not be adequate.

The survey was conducted online from May 15 to June 16, with 488 out of 2,085 members of the Agriculture Union responding.

The response rate for the survey is 23 percent. The margin of error is 4.5 percent, 19 times out of 20.

The Agriculture Union, which commissioned the survey, represents more than 6,000 federal government workers including most of the food safety staff at the Canadian Food Inspection Agency.

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GENETIC RETRIEVAL

Lab saves contents of valuable packages

Viable sperm is collected from scrotums of valuable or rare livestock

BY BARBARA DUCKWORTH
CALGARY BUREAU

All is not lost if a valuable animal dies on the farm, thanks to a new technique to extract viable semen within 48 hours.

The team at Canadian Animal Genetic Resources in Saskatoon has received the scrotums of dead animals to salvage viable sperm cells and produce another generation of cattle, goats, sheep, horses or pigs.

"We tried to develop tools that if a precious resource is lost due to death that we could not reach in time, at least they can send us the scrotum," said Dr. Carl Lessard, head of the program run through Agriculture Canada.

This can be done for rare breeds or valuable animals that died suddenly.

Retrievable sperm cells could be available for use by the animal's owner or storage in the gene bank in Saskatoon if the scrotum is packed correctly and received within 48 hours following death or castration.

Lessard suggests cutting off the



Pamela Hind, a Canadian Animal Genetic Resources research technician, works in the organization's laboratory in Saskatoon. | AGRICULTURE CANADA PHOTO

scrotum from the dead animal, draining the blood and packing below room temperature in a resealable plastic bags with absorbent paper to avoid spills during transit via courier.

A Styrofoam box is ideal with an icepack on the bottom and about an inch of protection to avoid freezing. "We do not want it very cold — below 18 C — because it will start to

damage the cells," he said.

"The scrotum itself is a good container to isolate the testicles and the epididymis that we need to retrieve the mature sperm," he said.

Once it arrives, laboratory staff can peel the scrotum to reveal the testes and epididymis, where mature sperm cells can be collected.

The quality is assessed and then the collection is frozen following

standard procedures.

The volume of semen varies by age and species of animal.

The semen may not have all the same protective proteins present during an ejaculate, so rather than placing 25 million sperm in a regular straw, they may double that to make sure there is a good ratio of motile sperm cells afterward.

"If it is motile, it should be able to

fertilize," Lessard said.

Literature reviews show conception using the rescued cells may be lower than a normal collection of sperm cells. He has done some tests with in vitro fertilization, but budget constraints prevented further research.

"If the goal is to produce progeny, we just have to use a good amount of sperm cells when we do the artificial insemination," he said.

The centre in Saskatoon maintains a semen bank, which includes rare breeds.

Producers may eventually want to rejuvenate some breeds because of increased inbreeding among the mainstream breeds and the loss of some qualities.

Last year CAGR received scrotums from Guernsey and Lynch Lineback bulls, Shropshire and Nubian goats, a Clydesdale stallion and Berkshire pigs, which resulted in 650 doses of viable sperm. Three hundred doses were returned to producers for owner-use only.

The technology to collect semen has been around since the 1950s, and older samples of about 50 years of age have proven to still be viable and achieved successful pregnancies.

Bovine sperm cells seem to have good longevity but more work is needed on cryopreservation of sperm cells from pigs, said Lessard.

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THE GREAT DEBATE: SUPPLY MANAGEMENT – WIN, LOSE, OR DRAW?



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Bruce Muirhead,
University of Waterloo

BENCHMARKING MANAGEMENT PERFORMANCE: HOW DO YOU MEASURE UP?



Heather Watson,
Farm Management
Canada



Terry Betker,
Backswath Management Inc.

PANEL DISCUSSION: THE GREATEST RISK FACING THE FAMILY FARM



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Elaine Froese,
Farm Family Coach

INTERNATIONAL INSIGHTS: POSITIONING CANADA FOR SUCCESS IN THE GLOBAL MARKETPLACE



Clair Doan,
Nuffield Scholar

BISON

Bison welfare standards updated in code of practice

BY BARB GLEN
LETHBRIDGE BUREAU

An updated code of practice for the care and handling of bison was released Aug. 9 by the Canadian Bison Association and the National Farm Animal Care Council.

Like codes of practice for other Canadian livestock, it contains requirements and recommendations on how bison should be fed, managed and handled throughout their lives.



MARK SILZER
BISON CODE COMMITTEE

Saskatchewan bison producer Mark Silzer chaired the 11-member code development committee, which undertook the update more than a year ago. The committee included bison producers, animal welfare representatives, researchers, veterinarians and government personnel.

"The updated Code of Practice for the Care and Handling of Bison will be a useful tool for both current and new producers," Silzer said in a news release.

"It will also give the public a better understanding of all that's involved in raising bison."

Committee members have provided updates on the code contents and progress at regional, provincial and national bison meetings over the past year.

Kaley Pugh, who represented the Canadian Federation of Humane Societies on the committee, said the code has "progressive new standards for bison welfare."

Code preparation involved consultation with a separate scientific committee that identified priority issues. The committee, chaired by Dr. John Church of Thompson Rivers University, provided information on bison nutrition, confined feeding, behaviour, handling and euthanasia.

It also suggested that further research on bison would be useful.

The finalized code has seven sections: animal environment; feed and water; animal health; herd management; handling; transportation and on-farm euthanasia.

It also has appendices dealing with pasture stocking rates, preventing bison escapes, dealing with orphaned calves and deciding when and if to transport animals.

The bison code is the 10th code updated through the NFACC's consensus-based process.

Printed copies are limited but the full bison code can be found at www.nfacc.ca/codes-of-practice/bison.

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VITAMIN SUPPLEMENTATION

Herd nutrition requires extra attention following drought

ANIMAL HEALTH



JOHN CAMPBELL, DVM, DVSC

A recent study published in the *Canadian Journal of Animal Science* sheds light on the question of how this year's drought might affect next year's calf crop.

Dr. Cheryl Waldner and Dr. Fabienne Uehlinger from the Western College of Veterinary Medicine at the University of Saskatchewan described a study where blood samples were collected from 899 beef calves that were less than 30 days of age. These calves originated from 150 cow-calf herds in Alberta and Saskatchewan and were sampled in the 2002 calving season.

Many areas of Alberta and Saskatchewan were under the effects of a significant drought in 2001 and 2002, which has similarities to the current grazing season.

The blood samples were analyzed for serum vitamin A and vitamin E concentrations. Samples were also evaluated for colostrum intake by measuring serum immunoglobulins, which reflect antibodies received when the calf consumes colostrum shortly after birth.

These herds were relatively well-managed as reflected by the relatively low death rates of the calves followed in the study, at about three percent.

Approximately half of the producers surveyed injected their calves with selenium and vitamin E at birth.

Only 11 percent of producers used selenium injections for cows and 22 percent used injectable vitamin A in the cows. Seventeen percent of producers did not report any commercial trace mineral or vitamin supplement used in their cow herds. Only 21 percent of producers surveyed reported supplementing specifically with vitamin A in their cow rations.

Analyzing the vitamin levels in the calf samples revealed that 58.3 percent of the calves had less than adequate levels of vitamin A for their age and 12.9 percent had less than adequate levels of vitamin E.

The authors were able to use treatment records and mortality records to demonstrate that calves with low serum vitamin A (the lowest 25 percent) were 2.8 times more likely to die. Calves with low serum vitamin E were 3.2 times more likely to be treated for scours.

The relationship of vitamin A levels to drought conditions is well-established and is demonstrated in this study once again. Vitamin A levels were significantly lower in herds that were in geographical areas that had less than 200 millimetres of rain in the previous growing season when compared to herds that received adequate precipitation.

Vitamin E levels were not affected by the levels of precipitation in this study.

Vitamin A is manufactured by cattle from a precursor found in

plants known as beta-carotene. Plants that are green and growing are rich in beta-carotene, while concentrates or plants that are growing in drought conditions are usually not a good source of vitamin A and beta-carotene.

Other studies have shown that cattle that are grazing green plants during summer tend to have higher vitamin A levels than cattle being fed stored forages in the winter. The precursor to vitamin A degrades over time with harvesting, dehydration, and storage of forages and up to 50 percent of beta-carotene may be lost over time.

Newborn calves get almost all of their vitamin A from the colostrum they consume shortly after birth. They are born with very low levels

of vitamin A and are reliant on their dam's vitamin A levels in her colostrum. If a cow has been grazing under drought conditions or fed stored feeds low in vitamin A, the calf will be at a much higher risk of being deficient in vitamin A, which is necessary for adequate immune function and normal growth.

This study demonstrated that the calves deficient in vitamin A were almost three times more likely to die than calves that have adequate levels of vitamin A for their age.

The study was also able to show that calves from heifers were also more likely to be deficient in vitamin A or vitamin E when compared to calves born to cows. This might be due to the fact that calves from heifers were less likely to consume

adequate colostrum because of poorer mothering ability or a higher risk of calving difficulty. It is also a common finding that any nutritional problem will probably have a greater impact on heifers because they are still growing and have higher nutritional demands.

The effects of drought on the quality of grazed forages and stored forages in terms of vitamin A levels was particularly noteworthy.

The authors conclude that producers should consider supplementing cows and particularly heifers, especially in years where there is significant drought.

Many cow-calf producers in Western Canada are experiencing significant levels of drought this year and may be low in beta-carotene

and vitamin A. Consult a veterinarian or nutritionist about options for supplementing cows and also next year's calves with vitamin A and E.

John Campbell is a professor in the department of Large Animal Clinical Sciences at the University of Saskatchewan's Western College of Veterinary Medicine.

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GIVE AND TAKE



Diane Kuculym, left, and Wendy Burt participate in the log sawing contest at Clack Museum's open house and fundraiser Aug. 13, while Brian Burt steadies the log. Clack Museum is located between Oak River and Rivers in west-central Manitoba. | JOAN AIREY PHOTO

AG NOTES

SEARCHABLE FOOD POLICY PLANNING TOOL DEVELOPED

The Institute for Sustainable Food Systems at Kwantlen Polytechnic University in British Columbia has developed a new food policy planning tool to help local governments and other interested stakeholders easily cross-reference existing policies on a wide variety of topics from urban farm business licences to agricultural zoning.

Lack of time to research policy options was the motivation to create the database while others are using up resources to develop policy that could exist elsewhere.

The institute used funding from the Real Estate Foundation of B.C. to develop an accessible database with more than 2,000 food system policy references from more than 50 cities, towns and communities.

Users can search policies

according to topic, geographic properties, community demographics or policy type.

For more information, visit kpu.ca/isfs/foodpolicydatabase.

AG BUSINESS AWARD ACCEPTING NOMINATIONS

Farm Management Canada is seeking to honour individuals or groups with the 2017 Wilson Loree Award.

Nominations are required by Oct. 13.

The award honours those who have made an extraordinary contribution to developing and promoting new and positive change in agricultural business management practices and expertise in Canada.

The organization encourages the nomination of individuals or groups that:

- have made significant contributions in the area of business management regionally or nationally
 - have demonstrated innovation in areas such as turning research into practical management tools, adapting best practices from other sectors to agriculture and finding new ways to deliver training, information and resources to farm managers
 - have served as a role model and a mentor to colleagues, partners and clients, inspiring them to achieve their full potential
 - have demonstrated the ability to network and develop partnerships to include others in furthering the shared goals and vision of the agriculture industry
- More information is available at www.fmc-gac.com.

DAIRY EDUCATION AWARD NOMINATIONS SOUGHT

The Western Canadian Dairy Seminar is seeking nominations for the John J. Kennelly Award of Merit.

Nominations must be received by Sept. 1 to be eligible for consideration at the 2018 seminar.

The annual award is given to an individual who has made a significant contribution in the areas of education, training, technology transfer and extension to the western Canadian dairy industry.

Nominations can be emailed to wcds@ualberta.ca, faxed to 780-492-5771 or brought to the registration desk at the conference for consideration the following year.

For more information, email Kate Davies at wcds@ualberta.ca or phone her at 780-492-3236.

ALTA. FOOD COMPANIES ATTEND SHOW IN CHINA

Six Alberta food companies recently participated in SIAL China 2017 in an effort to expand their business.

The companies were Abundant By Design, Canadian Rocky Mountain Beef, JBS Food Canada, Mountainview Distribution, Ocana Natural Food Company and Wild Rose Agriculture Investment Corporation. The Agriculture and Food Council of Alberta also attended.

SIAL China 2017, which was held in Shanghai, attracted a record 101,000 visitors and featured 3,200 exhibitors from 67 countries.

Five of the companies showcased and offered product samples in the Alberta Agriculture booth within the Canadian Pavilion.

For more information on the China market, contact senior trade and relations officer Rachel Luo at 780-422-7102.

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50 YEARS AGO

SWP replaces 1925 elevator with 95,000 bu. facility

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: AUG. 20, 1942

The dominion government rejected a recommendation from a local committee in Saskatchewan to cap the wages of harvest workers.

The recommendation had been made the previous week to consider \$3 a day for stooking and cutting and \$4 for threshing as "fair-going" wages.

Frank Eliason, secretary of United Farmers of Canada (Saskatchewan Section) said it would be difficult for farmers to build granaries, maintain a decent standard of living and support schools and other social services if the dominion government did not provide credit based on grain already stored in approved on-farm granaries.



A judge looks for best brood mare, any light breed, at the agricultural exhibition in Yorkton, Sask., in this undated photo. The horse owned by Jim Bensocky of Waldron, Sask., left, placed first. | FILE PHOTO

50 YEARS AGO: AUG. 24, 1967

Nine members of a farm family near Shell Lake, Sask., were murdered Aug. 15. It was one of the worst mass killings in Canadian history. Victor Ernest Hoffman, described as a 21-year-old farmer from Leask, Sask., was charged with shooting James and Evelyn Peterson and seven of their children. He was eventually found not guilty by reason of insanity and spent the rest of his life

in mental institutions, dying in 2004.

The first country elevator built by Saskatchewan Wheat Pool was about to be replaced, becoming an annex of a new 95,000 bushel facility to be built beside it. The elevator in Bulyea was officially opened July 1, 1925.

25 YEARS AGO: AUG. 20, 1992

Canada, the United States and Mexico signed the North American

Free Trade Agreement, and farmers seemed happy. The country kept the import restrictions, price supports and production quotas on which supply management was based and received guarantees to sell grain and oilseeds into a large and growing Mexican market.

The Progressive Conservative opposition in Saskatchewan worried that SaskPool was becoming too cosy with the provincial NDP government.

The accusation came after the government hired Nial Kuyek, a former executive assistant to pool president Garf Stevenson, as a senior planning adviser for agriculture.

10 YEARS AGO: AUG. 23, 2007

Crop prices took a hit as they got caught in a stock market decline caused by the sub-prime mortgage crisis in the United States.

A market adviser said it was far too early to assume that this short-term weakness was anything more than a financial blip as far as crop prices were concerned, but the world didn't yet know it was at the beginning of what would become known as the Great Recession.

Prime Minister Stephen Harper named Gerry Ritz as his new agriculture minister. The Saskatchewan MP would go on to dominate the national agriculture scene for the next eight years.

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Yamily Zavada of the Chinook Applied Research Association at Oyen, Alta., shows plant roots from a special crop mix she planted to build and assess soil aggregation. | BARBARA DUCKWORTH PHOTO

SOIL ASSESSMENT

New Alta. lab focuses on building soil health

Knowing the nutritional makeup of soil can help farmers make better management decisions

BY BARBARA DUCKWORTH
CALGARY BUREAU

OYEN, Alta. — Healthy soil is the foundation of agriculture.

Restoring that health is the goal of Yamily Zavada, who is heading the new soil laboratory at the Chinook Applied Research Association at Oyen.

The soil health laboratory is open to producers to provide them with biological and physical soil assessments to help them better understand what is affecting their fields' soil health and make management improvements.

For soil scientist Zavada, who has a PhD from Cornell University in New York, what lies beneath is critical.

"The biology is the most important component of the soil properties that allow us to have a healthy soil," she said during a recent field day held at the CARA site.

She has been experimenting with different crop mixes to assess their impacts on the area soil.

"Aggregation is one of the conditions in the physical properties of the soil that we need to look at."

Soil bacteria, fungi and microorganisms are found in the aggregates that cling to plant roots.

Her cocktail mix included grasses, cereals, oilseeds, broad-leaved plants and tap roots like radishes.

This kind of system enhances the biology of the soil because the plants grow better together and leave valuable material behind as they decompose.

"The more biodiversity you have, the more food for different microbials you have in the soil."

A crop like this could be grazed or silaged, which would add hoof

action and manure excretions to the soil.

Originally from Venezuela, she has worked in the Andes overseeing coffee, cocoa and tropical crops.

"This part of the world is different but at the same time the principles are going to be the same," she said.

Throughout Alberta, compaction, poor aggregation and infiltration are common problems that could be improved with careful management.

"I have seen those problems everywhere in the province," she said. "Most of the soil has no aggregation so there is not enough pore space in there and there are no areas for the water to infiltrate."

At the laboratory, she wants a variety of samples to measure what is happening in the soil and what might happen under different crop regimes.

Farmers have to realize that soil rebuilding will take time because the land has been under cultivation for more than 100 years.

Switching to no-till farming was a good practice, but farmers should have transitioned from cultivation with a cocktail crop and then no disturbance, she said.

"With no-till for 40 years, I haven't seen much difference in the soil."

Parts of Alberta's designated Special Areas are native grasslands. Zavada wants to compare and test those soils with land that has been plowed.

The laboratory will be used to create a benchmark to assess soil health throughout the province. Results may provide useful management recommendations to rebuild and stabilize soil.

barbara.duckworth@producer.com

MARITIME FARMING

Gov't plans expanded farming in Atlantic Canada

Project aims to increase food self-sufficiency in Newfoundland and Labrador

BY KAREN BRIERE
REGINA BUREAU

ST. JOHN'S, N.L. — Thin, rocky soil doesn't deter farmers on The Rock.

Agriculture, although far different from that on the Prairies, has a long history in Newfoundland and Labrador, and the provincial government thinks it also has a strong future.

Expansion plans for the sector announced earlier this year would more than double the amount of land dedicated to farming.

That includes potatoes, vegetables and growing more feed for livestock.

Agriculture minister Steve Crocker said that 158,000 acres of crown land would be made available.

The plan is to increase food self-sufficiency to at least 20 percent by 2022. Currently, the province produces just 10 percent of its own food.

"You're setting the bar high, but there is no doubt you will reach your goal," said federal Agriculture Minister Lawrence MacAulay during a recent stop in the province to announce funding for a risk assessment project.

The Newfoundland and Labra-



Brian Kowalski picks radishes at Murray Meadow near Portugal Cove-St. Phillips, Newfoundland and Labrador. The radishes are destined for a restaurant in St. John's. | KAREN BRIERE PHOTO

dor Federation of Agriculture will administer the \$365,291 project and consult on production, financial, labour, market, transportation and climate change risks.

The results will form the basis for future programs.

President Merv Wiseman said there is excitement around agriculture in light of the province's announcements, and the federal

dollars come at the right time.

He said the association will use the money to better understand what farmers need to manage risk so they can revitalize the rural economy and increase food self-sufficiency.

"Over the years, there has been an awful lot of downloading of public-good issues on the farming community," Wiseman said. "We

haven't resisted that, but trying to manage in the face of what you can do economically in a viable kind of way at the farming level is not an easy thing to do. So, if we don't understand the complexities around that and be able to build a plan to mitigate against that, then we have one hand tied behind our back."

Newfoundland's food security

issues arise from its climate, soil and location.

The province has only a two- to three-day supply of fruits and vegetables available if there is a problem somewhere in the supply chain because 90 percent of those products are imported.

The island's 27 dairies import most of their feed, and it's at least a 12-hour drive by truck to the more populated Avalon Peninsula once it arrives by ferry at Port aux Basques.

Factor in poor weather and the drive can take longer.

Growing more livestock feed on the island would also be an economic gain for producers.

According to the 2016 Census of Agriculture, farm acreage is a mere 100,000 acres operated by 407 farms and taking in gross farm receipts of \$130 million.

Dairy, poultry and egg operations account for much of the income.

The expansion plan would take place in 62 designated agricultural areas selected after a consultation. Right now, only 19 areas contain agricultural land and only .9 percent of the province's land is suitable for farming.

Wiseman said the province now has to engage with current and potential farmers to make the plan work.

"How do we clear that land?" he said. "Where do we find the investment? How do we address the environmental issues?"

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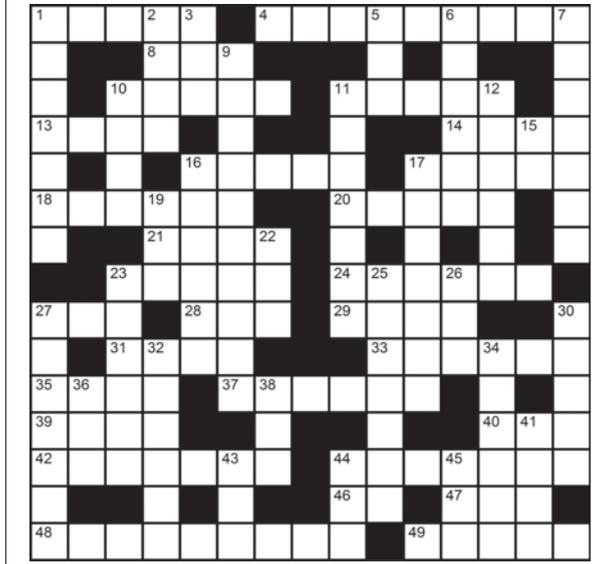
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2009 LODEKING SUPER B, alum. wheels, lift axles, auto greaser, \$57,000; 2006 Lodeking Super B, alum., \$25,000. Yellow-head Sales, 306-783-2899, Yorkton, SK.

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Entertainment Crossword by Walter D. Feener



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 ELI FARON NOR
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 REES GRIT D
 PIERROT ISOLDE
 FNAT BWANA I S
 RANDI ODDBALL
 ATEAM FLO EVA
 NORWEGIAN LALAW
 C A I NIELSEN
 OFMY ACES E EYE

Last Weeks Answers

- ACROSS**
 1. 2007 film starring Richard Gere and Claire Danes (with The)
 4. Teaching ___ (1999) (2 words)
 8. London ___ Fallen (2016)
 10. Buffy's mom
 11. No ___ Affair (1984)
 13. Scottish actor Elliott
 14. Tom Cruise's daughter
 16. Jumping the ___ (2011)
 17. 2001 film starring William H. Macy and Laura Dern
 18. He played the father on The Wonder Years
 20. Film-dubbing soprano Nixon
 21. Lincoln who played the first Tarzan (1918)
 23. Farida of Hindi cinema
 24. Be Kind ___ (2008)
 27. 1988 film noir remake
 28. Actress Balin
 29. 2010 film starring Angelina Jolie and Liev Schreiber
 31. Oldest Brady Bunch kid
 33. Total ___ (1990)
 35. Actress Walker
 37. Starr of American Gothic
 39. She played detective Lara Vega on Minority Report
 40. Matchstick ___
 42. Star Trek: ___
 44. ___ You (2007) (4 words)
 46. Enemy ___ the Gates (2001)
 47. As Cool ___ Am (2013)
 48. 1960 film starring Anthony Perkins and Jane Fonda, in her first screen role (2 words)
 49. The ___ Limits (TV series of the 1960s)

- DOWN**
 1. He played elder brother Eric on Boy Meets World
 2. He played Eric Yorkie in The Twilight Saga films
 3. Danielle Panabaker's sister
 5. Channel whose slogan is Let's Movie
 6. He played Hayden Fox on Coach
 7. Founder of Annapurna Pictures
 9. The Man With the Golden Gun
 10. Chan who played Silver Dart Shi in Crouching Tiger, Hidden Dragon: Sword of Destiny (2016)
 11. Last name of the Bionic Woman
 12. Grocer's assistant in Amélie
 15. Initials of the actor who played George Crossfield in Murder at the Gallop
 16. Dove or Lourd
 17. He played Fred Mertz on I Love Lucy
 19. She played Jimmy's mother Jean on Grace Under Fire
 22. Swedish actor Rapace
 23. Can She Bake a Cherry Pie? director
 25. The Importance of Being ___ (2002)
 26. Company behind the British TV series The Saint: abbr.
 27. 1987 film starring Dan Aykroyd and Tom Hanks
 30. Soul ___ (2004)
 32. On Golden Pond director
 34. ___ Famous
 36. Judy who is the mother of Kate Beckinsale
 38. 1980s TV show, Emerald Point ___
 41. A Letter for ___ (1946)
 43. Addams Family cousin
 44. ___ it Forward (2000)
 45. Revenge of the Green Dragons co-director

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BEHNKE DROP DECK semi style and pintle hitch sprayer trailers. Air ride, tandem and tridems. Contact SK: 306-398-8000; AB: 403-350-0336.

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MISC. TRAILERS 1515

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1998 TRAILTECH TANDEM 12' Sprayer Trailer, \$8000. For more information, please call 780-221-3980, Brownfield, AB.



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2016 KANE M675-1.8 trailer, good for silage, grain, manure, gravel, dirt, hyd. rear door w/grain hatch, silage extension sides, tractor wagon, \$42,500. Call anytime 204-743-2324, Cypress River, MB.

TRUCKS

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2010 DODGE RAM 1500 SLT, quad cab, 4x4, 5.7L V8 Hemi, 28,500 kms., \$26,500 firm. Greg 306-883-2568, Spiritwood, SK.

2009 DODGE 5500, 4x4, crew cab, Cummins diesel, auto transmission. Call 780-983-0936, Clyde, AB.

2006 FORD F350, 4x4, 4 door, diesel, good unit, only \$6500 OBO! 639-998-8522, Saskatoon, SK.

2001 GMC 1500, V6, long box, 5 spd. trans., good running condition, \$2500. 639-998-8522, Saskatoon, SK.

1995 GMC 1500, extended cab, 8' box, 350 V8, trailer package, excellent condition, \$4750. Call 639-998-8522, Saskatoon, SK.

1994 CHEV 3/4 ton diesel, manual trans, long box, extended cab, asking \$600. Phone 306-297-3209, Shaunavon, SK.

1989 CHEV SILVERADO reg. cab, 2 WD, fully loaded, blue and white, no leather, running boards, autostart, 83,500 orig. kms, no winter driving, no rust, mint! \$12,500; 2004 GMC ext cab, 4x4 SLE, 111,739 orig. kms, A/T/C, PW, PDL, push button 4x4, spray-in boxliner, 2 way auto-start, Silver birchwood color. 5.3L eng., auto, no rust, mint, \$16,000. 306-383-7575, Quill Lake, SK.

GRAIN TRUCKS 1675

1970 INTERNATIONAL 1900 Fleetstar, 20' HD steel B&H, c/w hyd. drill fill auger, roll tarp, dependable unit, shedded, exc. cond., \$6000. Call 403-804-4737 Strathmore, AB.

1976 GMC 6500 3 ton, real nice truck, always shedded, 16' Lux B&H, \$7500. 306-233-7305, Cudworth, SK.

1997 FORD LOUISVILLE tandem grain truck w/20' Midland box and roll tarp, 8.3 Cummins (no emissions), 105,000 kms., 6 spd. auto, Allison trans., 16,000 lb. front axles, 385/65R22.5 tires, rear 11R22.5's like new, mint condition, must be seen! \$60,000. 20 year old truck looks & drives like new. 204-771-9700, La Salle, MB.

20+ TANDEMS: Standards & Automatics. Yellowhead Sales, 306-783-2899, Yorkton, SK.

2000 VOLVO D12, 425 HP 2016 Bergs grain box, barely used, Michel's roll tarp, always safetied, new safety, new tires, well maintained, 13 spd., pintle hitch plate, 40 rear 651,250 kms, \$42,500 OBO. 306-457-8044, Kibbey, SK.

2001 IHC 4700, single axle, 466 dsl., 16' B&H, complete motor overhaul, very good cond., \$27,500. 780-877-2425, Edberg, AB

2006 FREIGHTLINER, Mercedes eng., 410 HP Eaton UltraShift, 20' Canade box and tarp, \$20,000 in recent work orders, 950,000 kms., asking \$65,000. Call 306-747-7622, Shellbrook, SK.

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

2013 FREIGHTLINER TANDEM, automatic trans., 20' Courtney Berg grain box, silage gate, remote hoist, grain door silage extension, LED lights, powder coat, Michelin tires, 25,000 kms., \$125,000. Call Dave at 403-556-3992, Olds, AB.

ALLISON AUTOMATIC TRUCKS: Several trucks with auto. trans. available with C&C or grain or gravel box. Starting at \$19,900; Call K&L Equipment, 306-795-7779, Ituna, SK. DL #910885. ladimer@sasktel.net

GRAIN TRUCKS 1675

2007 MACK, 400 HP Mack eng., AutoShift trans., A/T/C, new 20' B&H, new rear tires, 716,000 kms, exc. shape, \$67,500; 2009 IH Transtar 8600 w/Cummins eng. 10 spd., AutoShift, new 20' B&H, 742,000 kms, exc. tires, real good shape, \$69,500; 2007 IH 9200, ISX Cummins, 430 HP, AutoShift, alum. wheels, new 20' B&H, fully loaded, 1,000,000 kms, real nice, \$67,500; 2009 Mack CH613, 430 HP Mack, 10 spd., AutoShift, new 20' B&H, 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' B&H, 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; 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., call Merv at 306-276-7518 res., 306-767-2616 cell. DL #906768.

AUTOMATICS READY FOR HARVEST: 1994 Freightliner FL80, 8.2 Cummins, 5 spd. Allison auto., 8.5x20x60 CIM B&H, roll tarp, fresh SK safety; 2000 IHC 2674, 8.5x22.60 CIM B&H, fresh SK safety, Clean western trucks! Neil: 306-231-8300, Humboldt, SK.

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IH TRUCKS, EATON AutoShift, new 20' B&H elec. tarp; 2002 IH 440, Allison auto., 19' B&H, low km's; 2008 IH 7600 tandem; ISX Cummins 10 spd., new 20' B&H; 2007 Peterbilt 330 S/A, Allison auto., new 16' B&H; Ron Brown Imp. 306-493-9393, DL #905231. www.rbisk.ca

KENWORTH T800 Cat eng., 18 spd., 20' B&H roll tarp, Heavy Spec, Sask. safetied, \$43,000. 306-563-8765, Canora, SK.

REITRED: 1977 FORD F600, steel B&H; 1979 F600, steel B&H. Both in good cond. 306-944-4325, 306-231-8355, Bruno, SK.

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GRAVEL TRUCKS 1676

1999 STERLING LT9513 T/A dump truck, 269,825 kms, Eaton 13 spd., 15' gravel box, fresh Sask. safety, \$29,900. 1-800-667-4515. www.combineworld.com

2005 STERLING L9500 T/A dump truck Cat C15, 10 speed Eaton, 15' gravel box, fresh Sask. safety, \$39,800. 1-800-667-4515, www.combineworld.com

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.

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2005 STERLING L9500 T/A dump truck Cat C15, 10 speed Eaton, 15' gravel box, fresh Sask. safety, \$39,800. 1-800-667-4515, www.combineworld.com

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.

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TWO 2007 IHC 9400, Cat 500, 18 spd., 46 rear and lockers, 51' sleepers; (2) 2009 Mack, 485 HP 18 spd., 46 rear and lockers, 51' sleeper; 2008 Freightliner, 515 HP 18 spd., 46 rear and lockers, wet line kit. Yellowhead Sales 306-783-2899, Yorkton.

SEMI TRUCKS 1677

1999 INTERNATIONAL 9200 Series, daycab, C10 Cat engine, 9 spd. trans., \$17,000. 306-463-8416, Eston, SK.



2005 PETERBILT C15 eng., 18 spd., w/2016 Timpete trailer. Both units in exc. cond. w/safety papers. \$105,000 for both units. Will separate. For more details, 204-918-4029, 204-981-3636, Cartier, MB.

2006 KENWORTH W900, 565 Cummins, 18 spd., 46,000 rears, double highrise bunk, \$38,000. 780-983-0936, Clyde, AB.

2012 KENWORTH T800, newly rebuilt motor, new safety, with or without gravel box. 403-625-4658, Clareholm, AB.

SEMI TRUCKS 1677



2008 PETERBILT 386, 46K rears, 18 spd., 525 HP Cummins, Inframe, deleted, 1.5M kms, \$39,500. 780-206-1234, Barrhead AB

2008 VOLVO 630 D16, 500 HP always safetied, new safety, injector cups and DPF filter, dealer maintained, owner driven, 13 spd., Super 40 rears, 4-way lockers, 682,500 kms, \$33,500 OBO. 306-457-8044, Kibbey, SK.



2009 IH PROSTAR, 500 HP Cummins, 18 spd, 46,000 rears, 4-way lockers, 485,000 kms \$41,000. 780-206-1234, Barrhead, AB



2009 VOLVO 430, D16 535 HP 18 spd., 46,000 rears, 4-way lockers, 290,000 kms, PTO, \$68,900. 780-206-1234, Barrhead AB

2010 PETERBILT 388, safety up to date, TNT 4" pump, newer tires, new engine (2015 install), new trans and clutch (2016 install), \$65,000. 306-228-3251, Unity, SK.



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BAILIFF ONLINE AUCTION, the following are up for bids: 2013 Western Star 4900 SF, 2012 Peterbilt 388, 2006 KW T300, 2005 Freightliner M2 Tandem van body with lift. For more information, email bailiffservices@sasktel.net. Saskatoon, SK.

FOR SALE: 2001 PETERBILT 379, completely rebuilt C15 Cat, 18 spd., 40 rear. More info. call 306-342-4968, Glaslyn, SK.

KENWORTHS: 2007 T800 500 Cat 18 spd., 46 diff. lockers; 2009 T660, new pre-emission, 525 ISX, new 18 spd. and clutch, 46 diff., lockers; 2008 T800 daycab, 500 Cat, 18 spd., lockers, new clutch and trans; 2014 Western Star 4900, 46 diff. Detroit, 18 spd., 4-way locks; 2008 Freightliner Cascadia, daycab, Detroit 515, 18 spd., lockers; 2007 IH 9900i, 525 ISX, 18 spd., 3-way lockers; 2007 IH 9200 daycab, 450 ISX, 13 spd; 1996 T800, Cat, 13 spd., rebuilt trans., diffs and injectors; 2006 Pete 379, daycab, 500 Cat, 18 spd., lockers, new rebuilt eng., new clutch; 2005 Mack CH613, 18 spd., lockers, wet kit, 450,000 kms; 2- 1996 FLD 120 Freightliners, 425 Cat, 430 Detroit, lockers. Ron Brown Implements, Delisle, SK., 306-493-9393. DL 905231. www.rbisk.ca

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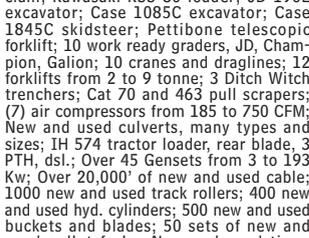


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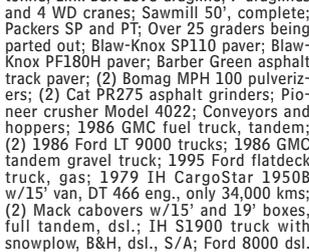
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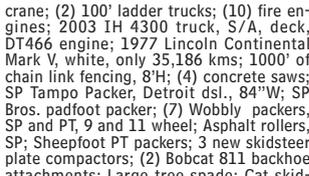
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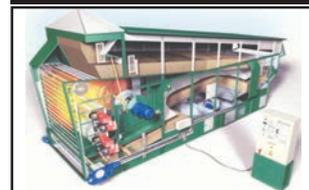
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1976 VERSATILE 400 18' Swather, good condition. 306-366-4720, St. Gregor, SK.

1999 MF 220 Series II, 26', DSA, PU reel, shedded, \$29,900. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

MASSEY FERGUSON 9420, shedded, 948 hrs., new guards and knife, GPS AutoSteer, \$50,000. Call 306-944-4520, Viscount, SK.

2014 MACDON M155, w/D65 35' header, c/w free form roller, Trimble Autopilot AutoSteer, 365 eng. hrs., 290 header hrs. Call 306-873-9221, Archerwill, SK.

2008 MACDON M150 Premier, w/30' D60-D, 605 header hrs., Outback STX AutoSteer and Schumacher ProFlex lifters. Shedded and field ready. Excellent condition. \$100,000 OBO. Edberg, AB. 780-878-1088, 780-878-1888, sjogren@telusplanet.net

1982 VERSATILE 4400 SP 24' Dresser Waukesha 4 cyl., diesel, 2149 hrs, CAHR, 18.4x16.1 drive wheels, well maintained, shedded, 306-338-2927, Wadena, SK.

CIH 721, 21' PT autofold swather, batt reels, always shedded, \$2150. 306-946-7923, Young, SK.

2012 JD A400, only 405 engine hrs., 36' HoneyBee dbl. knife dr., left and right Roto-Shear, rear mtd. freeform swath roller, deep lug 18.4x38 Firestone drive tires, bought new, always shedded, exc. cond., reduced, \$89,500. Call Bill 204-525-4232, 204-734-8479, Minitonas, MB.

SWATHERS 4145

MACDON 155 2013, 650 hrs., 35', D65 header, large tire option, rear roller, Trimble GPS, asking \$125,000. Low rate financing available. Call 204-248-2359 or cell 204-242-4214, Notre Dame, MB.

2013 MACDON M155 35' dual direction, D-65-D header, 501 eng. hrs., 401 swather hrs., Freeform roller, JD AutoSteer harness, mounting bracket and steering wheel, hyd. fore/aft, double canvass drive kit, double knife drive, split reel, next to new knife, HID lights and Beacons, plastic skid plates, guide wheels, triple delivery, hydraulic tilt, serviced and field ready, \$125,000. 306-338-8078, Quill Lake, SK.

2002 WESTWARD 25', c/w side cutters and PU reel, 860 hrs., always shedded, \$45,000. 306-538-4687, Langbank, SK.

2000 MF 220, 26' DS header, Schumacher dr., UII PU reel, exc. cond., c/w C1742 tractor, 111 HP, 18.4-26 radials, 650 hrs., \$19,000. 780-853-4888, Vermilion, AB.

NH HW325 SALVAGE cab, axle, engine, lots of good parts. Call 1-800-667-4515 or visit www.combineworld.com

JD 800 15' SP gas, no cab, 1 owner, new knife and canvases, 2 reels, low acres, shedded, \$3000. 780-908-3441, Leduc, AB

1986 SERIAL IMPLEMENTS 722 SP UII pickup reel, 2130 hours, \$9,000 OBO. 204-638-8443, Dauphin, MB.

2013 MACDON M205, bi-directional, 990 hrs., very nice condition, \$72,000; D60-D Draper 25', 9 batt reel for dry beans, \$19,500; R85 16' discbine header with windrow merging attach, \$15,000. All field ready. Jerry 715-377-2940, Baldwin, WI.

NEW 2016 M205 c/w D65 40' header, transport, weight box, last ones w/o DEF. Cam-Don Motors 306-237-4212 Perdue SK

NEVER USED MF Hesston WR9735, 130 HP 30' UII, PU reel, fore/aft, axle suspension, \$99,000, 306-699-2442, McLean, SK.

JD 435 HEADER 35', c/w double knife and double reel, good shape. 780-679-7795, Camrose, AB.

WANTED: MACDON 942 or 940 multi crop header or MacDon 933 grass seed header. Call 204-655-3550, Sifton, MB.

2009 CASE WD 1903 36' swather, less than 830 hrs. All the options: AutoSteer, UII PU reel, Roto-Shear, hyd. swath roller, exc. cond, \$80,900. 780-632-1935, Innisfree AB

2002 PRAIRIE STAR 4940, w/972 25' header, PU reel, 21.5x16.5 tires, \$33,000. 780-679-7795, Camrose, AB.

2010 MACDON M150 30', dual direction, hydraulic tilt, header transport wheels, sideshift, wide tires, 695.9/614.5 hrs., \$105,000 OBO. 403-358-2840, Lacombe, AB. Luuk_VanAken@Hotmail.com

2015 JD 450D 35' Swather, farm equip., dispersal. 140 eng. hrs., 95 header hrs., AutoSteer, exc. cond., \$150,000 OBO. 780-623-1147, Lac La Biche, AB.

2000 8860 30' CASE/IH SP swather, low hrs, \$42,000; 2002 30'. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK

2010 JD 4895, 345 header hrs., dbl. knife and reel drive, pea auger, Roto Shears, Flexifinger lifters, transport kit, GreenStar ready, excellent condition, \$80,000 OBO. 780-878-1088, 780-878-1888, Edberg, AB. sjogren@telusplanet.net

CO-OP 550 SP swather, 18', Belarus diesel engine, good condition, \$1800 OBO. 204-642-7684, Gimli, MB.

1998 35' WESTWARD 9300, 960 header, PU reel, turbo, big tires, \$29,500; 1995 30' MacDon Premier 2900, PU reel, 960 MacDon header, 21.5-16.1 tires, \$19,500; 1995 Case/IH 8820, 30' header, PU reel, 21.5-16.1 tires, \$17,500. All swathers in exc. cond. 306-861-4592, Fillmore, SK.

MACDON 205 SWATHER 36', 410 hrs., mtd. roller, Roto-Shears, only cut canola, like new. Retiring. Harvey Linnen 780-838-7222, Raymore, SK.

GRAIN BAG ZIPPER system: Seal your bags water and air tight. Call Stead Farm Supply, MB., 204-534-3236.

2014 CIH WD1203 Series II, 36', w/D365 header, Rotoshears, 139 hrs., mint cond., \$94,000 OBO. 204-648-7129, Grandview.

2003 MACDON 9352i, 972 30' header, dual knife drive, PU reel, 900 hours, \$48,000. Can deliver. 204-224-3532, 204-981-3080, Dugald, MB.

CIH WD1203 SALVAGE, good cab, engine, hyd. parts and auto guide. Call 1-800-667-4515, www.combineworld.com

1997 MACDON 2930, dual range, turbo, Cummins, 3141 hrs, 2001 972 header, 21', dbl. knife drive, triple delivery, gauge wheels, \$25,900. 403-597-3431, Clive, AB.

2012 JD D450 w/35' header, PU reel, mtd. roller, Roto-Shears, 550 hrs., exc., \$75,000 OBO. 306-297-7400, Shaunavon

2006 NEW HOLLAND HW325, 2186 hrs., 30' Honeybee UII PU reel, double knife drive, double swath, canola sheers, air bag suspension, shedded, very good condition, 306-537-2563, 306-885-4545, Sedley, SK.

CIH 6500 SP, 21', MacDon PU reel, 2870 hrs, new wobble box, knife, canvass, \$10,500 OBO. 306-338-7603, Margo, SK.

2006 MF 9420 SP Swather, 1132 hrs., Michelin 540/R28 drive tires (exc. ride & flotation), rear weights, Trimble CFX 750 w/EZ Steer. 5200 30' centre delivery header, hyd. tilt, PU reel, 2 Roto Shear, Dutch lifters, c/w TrailTech header trailer, \$47,500. 403-934-1070, Standard, AB. solarhog@gmail.com

CASE/IH 8220 25' PT swather, UII pickup reel, stored inside, \$3000 OBO; 8' swath roller, \$500 OBO. 204-836-2406 or 204-825-7260, Swan Lake, MB.

2005 MACDON PREMIER 2940, 30', 972 harvest header w/Vern's belly-mounted hyd. swath roller, 1348 cutting hrs., 1715 eng. hrs., clean and nice shape, shedded, \$52,000. 306-743-7780, Langenburg, SK.

SWATHER ACCESSORIES 4148

FLEXI-COIL SWATH ROLLER, like new condition. Call 306-493-9393, Dodsland, SK.

DOEPEKER DRIVE ON Transport, nearly new tires, very good condition, \$3500. 306-561-7780, Davidson, SK.

TRAILTECH SWATHES CARRIER, up to 36'. Good tires, brakes, & lights, \$5500; 2 Rollers; Kerr Shears. 306-548-4315, Sturgis SK

2014 CASE DH362 header 35', to fit CIH swather, like new, \$19,500. 306-861-4592, Fillmore, SK.

KOENDERS SWATH MOUNT crop roller, 9.5', poly ribbed drum, used very little, exc shedded, \$1800. 780-908-3441, Leduc AB

PICKUP REEL PARTS



ORIGINAL HART CARTER
6" Finger\$4.50
4.5" Finger\$4.00
Reel Batt\$275
Arm Bushing\$2.98
Bearing Strap\$5.85
Male Eccentric Bearing\$4.95
Female Eccentric Bearing\$4.55

1-800-667-4515
www.combineworld.com

H/H VARIOUS 4151

2016 NH DURAVEE 1225 Trailing Wheel Rake, used for two cuts of hay 100 ac., \$21,000. 403-793-5817, Duchess, AB.

NEW HOLLAND HW325 CAB, fits other CNH swathers, good condition. For more information call 1-800-667-4515 or visit: www.combineworld.com

RICHARDTON DUMP WAGONS, #1200, #700, #750; JD 3970 harvester; Balers: JD 510, \$1500; JD 535, \$4500; Vermeer R23 hyd. rake, \$9000; NH 216, \$5000; Hay conditioners, \$800 and up; Gehl yawning, 14', \$2500; JD 15' batwing mower, \$6000; JD 20', \$10,000; JD 5', \$1000; JD 7', \$2000. 1-866-938-8537, Portage, MB.

WOBBLEBOXES



IH 1010/1020...\$1,895 JD600 D/FD.....\$4,495
IH 4000/5000...\$2,250 JD 600 R/F.....\$3,395
JD 1209.....\$2,075 JD 900 Draper...\$3,995
JD 200/900 Flex1,750 MD Heavy Duty...\$2,450
JD 200/900 Rigid...\$1,750 MD Regular.....\$1,875

Sold with arm & warranty!
1-800-667-4515
www.combineworld.com

RAKE-UP COMBINE PU, 8 belt, exc. cond., \$3500; 20' MacDon PU reel, \$2000; Swath roller, 7', \$500; Hydraulic Kleen-Cut crop divider, \$750. Pro Ag Sales, 306-441-2030 anytime North Battleford SK

COMBINES

CASE/IH 4160

CIH 2388, w/pickup header, performance monitor, AFX rotor, straw chopper, recent work order, exc. cond., always shedded, \$47,000. 403-350-9088, Red Deer, AB.

1990 CIH 1680, all updates, vg cond, 4500 hrs, PU & PU header. Norm 306-857-2117, 306-867-3998, Strongfield, SK.

1985 IH 1460, approx. 4100 engine hrs., large tires on frr/rear, triple arm header lift, accelerator on std. IH rotor. Regular inspections, always shedded, no PU header, \$8500 OBO. 306-394-2119, Coderre, SK

CIH 1660, 3080 engine hours, 1015 PU header, good condition, \$10,000. Call 403-793-1204, Tilley, AB.

BOOKING NORCAN SOYBEAN: Put the new big red in your shed, not the seed dealers! Buy a bigger Case IH combine! Early discounts. Call Norcan Seeds at 204-372-6552, Fisher Branch, MB.

2006 CASE 2388, w/straight cut header, 2409 original hrs., new engine 3 yrs. ago, currently serviced Dec.'16. Have WO records, one owner, field ready, Asking \$95,000. Ph 306-861-1015, Weyburn, SK.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 CIH 7120, 1997 eng. 1627 rotor hrs., new concaves, rasp bars and batteries, vg, \$165,000. 306-774-3262, Swift Current, SK.

1995 CIH 2188, 3997r/5306e hrs., AFX rotor, rice cone, custom combine pkg., 2 spd. trans., yield & moisture monitor, internal chopper, Urvoid spreader, good rubber, yearly inspection, Trimble 750 EZ-Steer, 2015 PU, 810 30' header, shedded, vg cond, 306-885-4545, Sedley, SK.

2011 9120, w/PU header, 2011 eng./1558 threshing hrs., 620 duals, field ready, \$210,000 OBO. 403-588-9497, Bashaw AB.

2005 CIH AFX 8010, 2378 eng. hrs., 1855 sep. hrs., fully loaded, mint cond., shedded \$110,000. 204-751-0046, Notre Dame MB.

CIH 8010 CAB complete, in good condition, \$13,800. Call 1-800-667-4515 or visit www.combineworld.com

CASE/IH 4160

2012 CIH 8230, 1304/962 hrs., \$278,000. Novlan Bros, Paradise Hill, SK., 306-344-4448 or 877-344-4433, www.novlanbros.com

1997 CASE/IH 2188, 3000 sep. hrs, auto HHC, chopper plus ready cut chopper, hopper extension, very good tires, rock trap, long auger, 2015 Swathmaster PU header, excellent, condition, \$29,500. 306-861-4592, Fillmore, SK.

3RD LIFT KIT. Upgrade your combine's lifting capacity by adding a 3rd cylinder. Complete kit with cyl., mounts and hoses. www.combineworld.com 1-800-667-4515.

2012 CIH 8230, 1301 eng. hrs., 868 rotor hrs., exc. cond., field ready, 780-872-8209, 306-823-4456, Neilburg, SK.

2011 CIH 8120, 1400 hrs., \$47,000 w/o 100 hrs. ago, 16' Swathmaster, field ready, \$149,000. 306-370-8010, Saskatoon, SK.

1982 INTERNATIONAL 1480, carefully operated and maintained, exc. cond., shedded, \$9000. 403-804-4737, Strathmore AB

1995 CASE/IH 2188 combine, 3044 reg. 3957 eng. hrs., 1015 header, Rake-Up PU, new drapers, chopper, Kirby spreader, pea concave, hopper extension, long auger, new parts, (feeder house drive and reverse), oil change, new batteries, excellent rubber, field ready and stored inside. Retired! \$34,500 OBO. Call 306-252-2810 or 306-567-7281, Kenaston, SK.

1994 1688 CIH, with speciality rotor, hopper topper, 1015 PU, w/2002 30' 1042 draper header, pea auger, and lifters. \$35,000. Call 306-483-8323, Camduff, SK.

2007 CASE/IH 7010, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 CASE/IH 9120, 1100 machine hrs., 1400 eng. hrs, 900/60/R32 tires, 2016 header, fine cut chopper, electric tarp, shedded, \$175,000; 35' MacDon 974 flex straight cut header, slow mover, split reel, fore/aft pea auger, \$23,000. Combine and both headers asking \$191,000. 306-862-5993, 306-862-7138, Nipawin, SK

1988 CASE/IH 1660, SP, 3800 eng. hrs, field ready, vg condition, \$8500. Call 306-621-3868, or 306-963-2731, Imperial, SK. Email: vahill41@gmail.com

2012 CIH 8120, 1070 hrs, Pro 700, 262 rec., AutoSteer, fold top, rebuilt threshing, duals, \$202,000. 403-443-0591, Trochu AB.

2013 CASE 8230, duals, ext. auger, fine cut chopper, 640 sep. hrs, \$320,000. Take trade or financing. 306-563-8765, Canora

1998 CIH 2388 Axial Flow, 3790 eng. hrs., 2742 sep. hrs., CIH Victory 30, 5x32 and 14.9x24 rubber, 2nd set large wire concaves, good cond., \$54,000. Kipling, SK. 306-736-7683, cuham@ Sasktel.net

1996 CASE 2188, 4114 eng/3451 sep hrs., \$45,000; 1998 2388, 3411 eng./2783 sep. hrs., \$65,000. Both combines shedded. 403-815-7851, 403-650-6938, Indus, AB.

CASE 80/88 4WD

Complete 4WD Kit including tires, rims, axle, motors & hyds. Off Case IH 2388.....\$15,000

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www.combineworld.com

2004 CASE/IH 2388, 1850 rotor hours, field ready, good condition, \$75,000. Call 306-745-7653, Stockholm, SK.

JOHN DEERE 4178

2009 JD 630D Draper Header, 600-900 ac./year, top cross auger, fore/aft, c/w factory transport, always stored properly, \$43,000 OBO. Please call Riley 204-526-0524; or Cale 204-720-7282. Glenboro, MB.

2010 JD 9770 w/215 PU, 1200 sep. hrs, fully loaded, duals, Michel's cover, shedded, Greenlighted in 2016, \$208,000. Steven Brewster, 306-731-7235, Earl Grey SK.

2008 JD 9770 STS, Greenlighted, Powercast tailboard, shedded, high capacity lift cyl., 38" duals, fully loaded. \$195,000 OBO. Call 306-463-8774, Kindersley, SK.

2 JD 9650 WALKER combines, 1 purchased new in 2003, 2237 sep. hrs., low acres in last 4 years, always shedded. Purchased 5 years ago (2002 yr.), 3423 sep. hrs., large work order at time of purchase, new eng., major Greenlight. Low hrs. on major work order. Both machines field ready. Retiring Harvey Linnen 780-838-7222, Raymore SK

1986 JD 8820 Titan II combine w/PU header, \$12,000. Good cond., field ready. 306-493-2762, 306-493-7324, Delisle, SK.

2009 JD 9870, farm equip. dispersal. 1475 hrs., 1070 sep. hrs., exc. cond., \$205,000 OBO. 780-623-1147, Lac La Biche, AB.

2014 JD 5680 STS, 800 sep. hrs., big duals, chopper, folding hopper top, vg cond., \$255,000. Neil 306-231-8300, Humboldt.

STRAW WALKER COMBINE, ideal for baling: 2006 JD 9660 WTS, 914 PU, duals, 2300/1550 hrs., \$132,500. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1996 JD 9500 SP 4100 eng. hrs., 3200 sep. hrs., long auger, Redekop chopper, always shedded, field ready, vg condition, \$42,500. 780-385-4162, Killam, AB.

Eastwood Products

244 2nd Avenue, Arborfield, SK
Dan Edwards:
 (306) 769-8663 or (306) 812-8144
 danjo.edwards@sasktel.net



Harvest Screen
 If it doesn't say harvest screen its not the ORIGINAL!!
 Investing in a Harvest Screen® will give you a quick return on investment.

1982 JD 7720, 3000 hrs., chaff spreader, always shedded, \$11,000 OBO. 204-655-3414, Dauphin, MB area.

MASSEY FERGUSON 4181

1975 MF 750 SP diesel combine, chaff spreader, straw chopper, PU, shedded, exc. shape. 306-549-4701, Hafford, SK.

1994 MF 8460 Conventional, 2850 hrs., Mercedes, Rake-Up PU, shedded, good. 306-944-4325, 306-231-8355, Bruno, SK.

2012 MF 9560 Combine, AutoSteer, duals, 45' FD70, PU header, \$325,000. Call 306-375-7645, Kyle, SK.

2011 MF 9895, 1110 threshing hrs, shedded, vg, MF pre-season check, local trade, 0% OAC. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

MASSEY FERGUSON 4181

1999 MF 8570 3800 machine hours, 260 HP PU header, field ready. Call 306-463-8416, Eston, SK.

1987 MF 8560, rotary, 4077 hours, PU header, straw and chaff spreaders, runs well, \$8000. 306-831-8757, Elrose, SK.

1981 MF 550 SP Western Special, 2050 hrs., 354 Perkins, always shedded, vg cond., \$7500 OBO. 306-537-4377, 306-526-0056, Cupar, SK. jj@jivoss.com

2013 CHALLENGER 560C (Massey 8560) fully loaded, 587 sep. hrs., c/w PU header, duals. Retired, mint unit. \$320,000 OBO. 306-345-2039, Pense, SK.

MF 9790, w/4000 header, Swathmaster PU, 2953 eng. hrs., 2080 sep. hrs., S/N 9790HM36152. 306-736-2850, Kipling, SK.

2001 MF 8780XP w/PU header, \$45,000. Optional is 30' AgCo straight cut header for an extra \$18,000. 306-463-8416, Eston, SK.

MASSEY 750, PERKINS dsl., c/w Melroe PU header, straw chopper, recent concave and rub bars, good condition, \$1900. Call Frank 306-463-2407, Kindersley, SK.

2 MF 850 combines, always shedded. Also MF 20' straight cut header w/batt reels. All in good cond., priced to go. 306-250-1106, Blaine Lake, SK. edyvo@sasktel.net

1999 MF 8680, 1750 sep. hrs., c/w 30' straight cut header, PU header. Call 403-580-0155, Medicine Hat, AB.

2013 MF 9540 800 sep. hours, shedded, Local trade, vg. 0% OAC. Cam-Don Motors 306-237-4212, Perdue, SK.

VARIOUS 4193



2013 LS MTRON P7040C, FWA w/FEL, 40 gear shuttle shift trans., 3 PTH, PTO, 78" QA bucket, \$55,000 OBO. Call Bill 780-482-5273, Edmonton, AB.

COMBINE ACCESSORIES

COMBINE HEADERS 4199

2- JD 930D straight cut headers w/movers and PU reels. Retiring. Harvey Linnen 780-838-7222, Raymore, SK.

CHOICE OF TWO Honey Bee ST 30' draper headers, JD STS adaptors, PU reels, vg cond., field ready; Also straight header transport, vg cond. 780-221-3980, Leduc.

2009 CIH 2142, pea auger, new canvases, exc. condition, w/slow speed transport. 204-744-2208, St. Leon, MB.



PEA AND CROSS AUGERS. Harvest bushy crops with a draper header. 50% to 100% increase in productivity. Pay for themselves in 400 acres or less. In stock and ready for delivery!! Call 1-888-907-9182, www.agshield.com

2017 FD75 40' HEADERS in stock. JD, AgCo and Generic. Cam-Don Motors 306-237-4212, Perdue, SK.

2008 CAT F540 Flex Header, AWS air reel, Cray fine cut knife system, \$25,000; 2006 CAT F540 Flex, field ready, \$18,000. 204-224-3532, 204-981-3080, Dugald, MB

RECONDITIONED rigid and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK www.straightcutheaders.com

FLEX HEADS: JD 925, 930, CASE #1020 30'; #2020, 35'; 1010 PU header, \$3000. 1-866-938-8537, Portage la Prairie, MB.

2004 HONEYBEE 35', U2 PU reel, pea auger, fits CIH 8010 combine, good cond., \$16,500. 780-841-8778, La Crete, AB.

2012 MACDON 2152 45' header, always shedded, low acres, hyd. fore/aft, hyd. tilt, PU reel, double knife drive, 4 available, \$40,000 each. 403-647-7391, Foremost AB

LIKE NEW AUGER for 635 Flex Header, \$6500 new, asking \$3500. Phone 306-948-7223, Biggar, SK.

CASE 2015 PICKUP Header, c/w rake-up pickup, very good condition, \$7500 OBO. 403-350-9088, Delburne, AB.

COMBINE HEADERS 4199

JD FLEX PLATFORMS: JD 925 flex platforms, 25', steel divider, field ready \$10,900; JD 925, 25' poly divider, reconditioned, \$14,900; JD 925F, full finger auger, poly divider, reconditioned, \$16,900; JD 930F, f/f auger, field ready, \$17,900; JD 930F, f/f auger, reconditioned, \$18,900; 2004 JD 635 hydra flex, 35', field ready, \$14,900; 2007 JD 630 hydra flex, 30', reconditioned, \$24,900; 2008 JD 630 hydra flex, 30', reconditioned, \$25,900; 2009 JD 630 hydra flex, 30', reconditioned, \$26,900; 2004 JD 635 hydra flex, 35', air reel, field ready, \$20,900; 2008 JD 635 hydra flex, 35', reconditioned, \$26,500; 2009 JD 635 hydra flex, 35', reconditioned, \$27,900; 2009 JD 635 hydra flex, 35', air bar, reconditioned, \$33,900; 2011 JD 635 hydra flex, 35', reconditioned, \$32,900. Gary Reimer, 204-326-7000, Reimer Farm Equipment, Hwy.#12 North, Steinbach MB

PICKUP REEL PARTS



ORIGINAL UII UNIVERSAL
 Plastic Finger.....\$3.25 Roller Bearing.....\$36.50
 Metal Finger.....\$3.55 End Plate.....\$5.50
 30' Batt.....\$695 Reg Control Arm.....\$25
 35' Batt.....\$895 Fixed Control Arm \$25
 Ball Bearing.....\$12.50 Control Ring.....\$265

1-800-667-4515
 www.combineworld.com

2002 MACDON 972 30' Header, 872 adapter, cross auger, recent \$12,000 work order, new reel fingers, lifter teeth, new adapter canvases, \$28,000 OBO. 780-721-9544, Barrhead, AB. dlazbyfarm@live.ca

2008 NH 88C FLEX DRAPER, 42', PU reel, poly skids, reconditioned, delivery included, \$19,900; New Harvest International, 42' header trailer, brakes, lights list price \$12,900. Price with platform \$6500. Gary Reimer, 204-326-7000, Reimer Farm Equipment, Hwy.#12 North, Steinbach MB

1995 MACDON 960, 36' draper header, exc. fits JD; 30' MF 9030 w/PU reel; 25' Claas (8560 MF), PU reel; 24' JD 224 Series, fits Case 2188; 24' IH straight cut; 22' Sund PU on Case header; 14' Sund PU; 17' Claas straight cut; 16' Cockshutt, fits White 8600; 24' JD 100, fits 7700; Extra Coulter PU wheels; Cockshutt 8800 and 8700 combines w/header reversers, others for parts; Fresh JD 8820 for parts; JD PU's; 7721 JD combine, vg. Sieve rebuilding. Roland. 306-256-7088 Cudworth SK

HONEYBEE SP36 RIGID Draper Header, AFX adapter, PU reel, fore/aft, pea auger, auto height, new knife, factory transport, field ready. \$22,000. Please call 306-689-2660, 306-587-7785, Lancer, SK.

2009 JD 615 PU header, 15'W, used very little, always shedded. Open to offers. 306-741-2649, 306-626-3236, Pennant, SK

2006 HONEYBEE 36' double knife, JD adaptor, one owner, \$22,000 OBO. Call 306-563-8482.

JD 230 STRAIGHT Cut Header, 30', will fit 6600-9600 combine, good cond., rebuilt wobble box, \$1000. 306-257-3689, Allan.

2008 JD 936D Header, pickup reel, shedded, very good condition. 780-877-2339, 780-877-2326, Edberg, AB.

2002 CASE/IH 1042 (962), 30', PU reel, hydraulic fore/aft., 2388 adapter, \$18,000 OBO. 306-240-6787, Meadow Lake, SK.

COMBINE HEADERS 4199

TWO MACDON HEADERS, 30'. 1998 972, split PU reel, new sections and guards. 2004 963, PU reel, new sections and guards w/JD or CIH 872 adaptors, \$12,000 ea. Will sell adaptor separate. 204-636-2448, Erickson, MB. mebark@gmail.com

2004 MACDON 973 30', JD adaptor, always shedded, low acres, excellent condition, 306-476-7542, Rockglen, SK.

FLAMAN HEADER TRAILER, dbl. wide, will haul 24 -30' headers, elec. brakes, springride \$4000 OBO. 306-843-7021 Cando SK

2014 CIH 3152 40' Straight Cut Header, mint condition, \$39,000. 204-648-7129, Grandview, MB.

2004 JD 630R straight cut header, PU reel, hyd fore/aft, full fingered auger, very nice, \$22,000. 306-743-7622, Langenburg, SK.

NH 971 16' Pickup Header, unused (new), perfect for double swath combining, \$6500. 403-350-9088, Delburne, AB.

2002 MACDON 972 36', JD adaptor, new canvases, PU reel, transport, \$13,800. 306-748-2877, 306-728-8070, Killaly, SK.

2011 JD 635 flex platform, hydra flex 35', poly skids, single point hookup, Cray air reel system, field ready, \$33,000; 2010 JD 635 flex platform, hydra flex, single point hookup, Cray air bar system, field ready, \$31,000. Gerald or Glenn Walkeden, 306-861-6849, 306-861-7782, Tribune, SK

THREE 930R JD straight cut hrs, 1 w/PU, asking \$9000; 2 w/batt reels, \$5000 & \$4000. Call 780-926-1505, La Crete, AB.

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2010 MACDON FD70, 45', \$69,000. Novlan Bros, Paradise Hill, SK., 306-344-4448 or 877-344-4433, www.novlanbros.com



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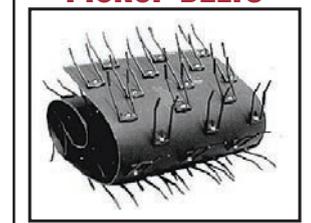
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<p>7 IN STOCK</p> <p>2017 YUKON-DENALI BLACK LEATHER, SUNROOF, NAV, DVD, 6.2L V8. #H2027 CASH PRICE \$77,104 OR \$489 FOR 84 MONTHS AT 0%</p>	<p>2017 CANYON CREW CAB SWB ALL TERRAIN PKG, 3.6L V6, TRAILER BRAKE, HEATED FRONT SEATS, TRAILERING PKG. #H1750 CASH PRICE \$38,998 OR \$247 AT .99 FOR 84 MONTHS</p>	<p>SAVE \$7,379</p> <p>2017 GMC TERRAIN SLE-2 MSRP: \$33,964 2.4L 4 CYL, LOADED, HEATED CLOTH. #H1363 CASH PRICE \$29,090 OR \$202 BI-WEEKLY FOR 84 MONTHS AT 0%</p>	<p>2017 TAHOE PREMIER CRIMSON RED WITH BLACK LEATHER, HEATED AND COOLED SEATS, MAX TRAILER PKG, POWER LIFTGATE, HEADUPS DISPLAY, 20" TIRES. #H1765 CASH PRICE \$70,278 OR \$447 BI-WEEKLY FOR 84 MONTHS AT 0%</p>	<p>SAVE \$8,133</p> <p>2017 GMC ACADIA SLT-2 AWD MSRP: \$53,870 3.6L V6, LOADED, NAV, SUNROOF, HEATED LEATHER. #H1270 CASH PRICE \$48,827 OR \$310 BI-WEEKLY FOR 84 MONTHS AT 0%</p>
<p>WIDE SELECTION!</p> <p>2017 YUKON-SLT 2ND ROW BUCKETS, BLACK LEATHER, TRAILERING PKG, HEATED AND COOLED SEATS, HEATED CRUISE CONTROL. #H1844 CASH PRICE \$67,508 OR \$430 BI-WEEKLY FOR 84 MONTHS AT 0%</p>	<p>SAVE \$11,05</p> <p>2017 GMC 3/4 TON DOUBLE CAB MSRP: \$56,640 6.0L V8 GAS, LOADED, TRAILER EQUIPMENT, CLOTH. #H1851 CASH PRICE \$45,587</p>	<p>OVER 100 IN STOCK!</p> <p>2017 SILVERADO LS 4WD CREW CAB 5.3L V8 TRAILERING PKG, WIFI, CLOTH INTERIOR. #H1905 CASH PRICE \$37,618 OR \$236 BI-WEEKLY FOR 84 MONTH AT 0%</p>	<p>WIDE SELECTION</p> <p>2017 ENCLAVE AWD 7 PASSENGER, POWER LIFTGATE, SIDE BLIND ZONE ALERT, HEATED STEERING WHEEL, TRAILERING PKG, LEATHER. #H1493 CASH PRICE \$43,231 OR \$288 BI-WEEKLY FOR 84 MONTHS AT 0%</p>	<p>6.2L ENGINE!</p> <p>2017 SIERRA SLT DOUBLE CAB BLACK LEATHER, 6.2L V8 8 SPEED TRANSMISSION, Z71 HEATED AND COOLED SEATS. #H1576 CASH PRICE \$49,106 OR \$353 BI-WEEKLY FOR 84 MONTHS AT 0%</p>
<p>39 IN STOCK</p> <p>2017 SILVERADO 1500 LTZ 6.2L 8 SPEED TRANSMISSION, 20" RIMS, TRAILER BRAKE, CONTROLLER, TRAILERING PKG. #H1929 CASH PRICE \$49,380 OR \$301 BI-WEEKLY FOR 84 MONTHS AT 0%</p>	<p>OVER 80 IN STOCK</p> <p>2017 SILVERADO 2LZ PAINTED BUMPERS, 20" TIRES, NAVIGATION, Z71, FULL FEATURED BUCKETS, TRAILER BRAKE, CONTROLLER. #H1931 CASH PRICE \$54,853 OR \$338 BI-WEEKLY FOR 84 MONTHS AT 0%</p>	<p>MSRP: \$34,325</p> <p>2017 ACADIA SLE 2WD DARK SAPPHIRE BLUE METALLIC WITH JET BLACK CLOTH, HEATED FRONT SEATS, POWER LIFT GATE, 6 PASSENGER. #H1743 CASH PRICE \$39,729 OR \$255 FOR 84 MONTHS AT 0%</p>	<p>HATCHBACKS ALSO IN STOCK</p> <p>2017 CRUZE SEDAN LT SILVER WITH BLACK CLOTH AUTOMATIC, HEATED FRONT SEATS, XM, ONSTAR, REAR VISION CAMERA, MYLINK RADIO, WIFI. #H1683 CASH PRICE \$20,057 OR \$130 BI-WEEKLY FOR 84 MONTHS AT 0%</p>	<p>2017 IMPALA LT SIREN RED WITH BLACK CLOTH, MYLINK RADIO, 18" TIRES, SIRIUS XM, POWER FRONT SEAT. #H1039 CASH PRICE \$32,580 OR \$223 BI-WEEKLY FOR 84 MONTHS AT 0%</p>

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2012 SPRA COUPE 4660



\$97,000

72' Boom, 400 Gallon Tank, 680 Hrs



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2014 MACDON M155



\$CALL

c/w MacDon D65 Header @ 40ft, HID Lights, Sunshades, 600 fronts, 16.5-16.1 Rears, Hyd Roller, Trimble Autosteer, Transport, End Fingers, Hyd Centre link, 362 Hrs.



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306-874-2011

2006 NEW HOLLAND CR970



\$149,000

Stk# c1122c, Dual Tires, Swath Master Pick-Up, Redekop Chopper, \$36,000 Work Order



PARADISE HILL, SK
306-344-4448

2010 JOHN DEERE 9870STS



\$167,600

2794 Hrs, Large Wire Concave, Maurer 60 bu Hopper Ext, 20.8R42. Call Spencer at 306-726-2155



SOUTHEY, SK
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2015 NEW HOLLAND CR8.90



\$485,000

Comes w/ MacDon PW8 Pickup Header, Crop Catcher on pickup



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\$28,900

Hydro, Rear Remote, Loader, Bucket



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\$450,000

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2013 MASSEY FERGUSON 9560



\$139,900

1329 Sep Hrs, 1804 Engine Hrs, 24' Unload Auger, Powerfold Hopper, HID Lights

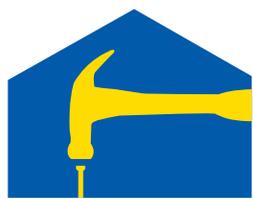


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40x56'	\$26,500 ⁰⁰
48x80'	\$42,150 ⁰⁰
48x120'	\$59,900 ⁰⁰
60x120'	\$74,500 ⁰⁰

**Includes materials & labour*

- Packages include:
- 29 Gauge #1 Colored Metal Walls & Galvalume Roof
 - 1 Large Sliding Door
 - 1 Three-Foot Walk-in Door
 - Gable End Vents
 - 16' Wall Height

Other sizes and wall heights available. Options to add windows, Diamond bi-fold door and overhead door available.

CATTLE SHELTERS

30x36'	\$8,495 ⁰⁰
30x60'	\$13,100 ⁰⁰
30x72'	\$15,395 ⁰⁰
30x96'	\$19,900 ⁰⁰

**Includes materials & labour*

FENCE POSTS

1x6" - 8' Rough Spruce	\$2 ⁹⁹
3.25"x6' Rd Treated Post	\$4 ⁸⁹
3.25"x7' Rd Treated Post	\$5 ⁹⁹
4.25"x6' Rd Treated Post	\$6 ⁹⁹
4.25"x7' Rd Treated Post	\$8 ⁶⁹
4.25"x8' Rd Treated Post	\$9 ⁴⁹
5.25"x7' Rd Treated Post	\$10 ⁹⁹
5.25"x8' Rd Treated Post	\$13 ⁴⁹



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\$85,000

Stock #V412864

2011 International 8600 SBA 6x4
Tandem Axle Grain Truck, MaxxForce 13 engine (430) HP, Eaton Fuller O/D transmission (10 speed), Air brakes, 401200km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, 20 FOOT NEW CANCADE SILAGE BOX. Saskatoon, SK



\$59,000

Stock #2015-06R

2006 International 4300 4x2
Single Axle Grain Truck, International DT466 engine (210) HP, Allison (Auto) transmission (5 speed), Air brakes, 268024km, 8000 lbs front axle capacity, 17500 lbs rear axle capacity, A/C, Grainmaster grain box with removable sides. Regina, SK



\$79,900

Stock #7616-01A

2001 International 9200
Tandem Axle Grain Truck, Cat C12 engine (380/430) HP, Eaton Fuller Auto Shift transmission (10 speed), 734780km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, Diff Lock rear lockup, A/C, Getting a brand new Grain Box, Hoist and PTO. Brandon, MB



\$89,900

Stock #V4233270

2013 International ProStar +125
Tandem Axle Grain Truck, MaxxForce 15 engine (500) HP, Eaton Fuller Ultra Shift transmission (18 speed), Air brakes, 774197km, 12350 lbs front axle capacity, 46000 lbs rear axle capacity, 4-Way rear lockup, A/C, removing sleeper and adding grain box Aug 15th. Brandon, MB



\$159,795

Stock #9986-18

2018 International 4400 SBA 6x4
Tandem Axle Grain Truck, Cummins L9 engine (350) HP, Allison (Auto) transmission (6 speed), Air brakes, 2202km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C, Not exactly as shown. Brandon, MB



CALL

Stock #JB158566

2018 Tipte Tandem Grain Hopper
Grain, Air suspension, Tandem axle, Aluminum rims, 20 king pin, Tarp: Rollover Black, Hoppers: Ag Hopper Black w/Interior Access steps, Width: 102in, Length: 36ft. Winnipeg, MB



CALL

Stock #HB157705

2017 Tipte Tridem Grain Hopper
Grain, Hopper, Air suspension, Tridem axle, Aluminum rims, 20 king pin, Tarp: Rollover Black, Hoppers: Ag Hopper Black w/Interior Access steps, Width: 102in, Length: 45ft, 24.5 all alum rims, dual cranks, high ag hoppers. Regina, SK



\$14,500

Stock #9N614725U

2009 Wilson Deck
Deck, Flatdeck, suspension, Tandem axle, Aluminum rims, Alum w/Wood Nailing Strips floor, Width: 102in, Length: 48ft. Prince Albert, SK

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NEW 2017 **2017 ESCAPE 4 DOOR SE 4WD**
 Stk. #T17336.
 2.0L EcoBoost, 6 Speed Automatic, Shadow Black, Charcoal Black Cloth.
MSRP \$32,589
Sale Price **\$28,795**
 Offer includes freight, air tax and fees. GST extra
Costco Members Add'l Savings (\$1,000)

NEW 2017 **2017 EDGE SEL AWD**
 Stk. #T17558.
 2.0L I4 EcoBoost Engine, Ingot Silver Metallic, Ebony Cloth.
MSRP \$42,539
Sale Price **\$37,395**
 Offer includes freight, air tax and fees. GST extra
Costco Members Add'l Savings (\$1,000)

NEW 2017 **2017 EXPLORER XLT 4WD**
 Stk. #T17759.
 3.5L V6 TIVCT Engine, 6 Speed Select Shift Trans, Magnetic, Ebony Black Cloth.
MSRP \$43,589
Sale Price **\$39,395**
 Offer includes freight, air tax and fees. GST extra
Costco Members Add'l Savings (\$1,000)

NEW 2017 **2017 EXPEDITION PLATINUM MAX 4X4**
 Stk. #17761.
 3.5L GTDI V6 Engine, 6 Speed Select Shift Auto Trans, White Platinum Tri-coat, Ebony Brunello Leather.
MSRP \$76,639
Sale Price **\$66,453**
 Offer includes freight, air tax and fees. GST extra
Costco Members Add'l Savings (\$1,000)

NEW 2017 **2017 F150 4X4 SUPERCAB XLT**
 Stk. #T17790.
 3.5L TIVCT Engine, Electronic 6 Speed Automatic, Magnetic, Grey Cloth.
MSRP \$44,899
Sale Price **\$35,320**
 Offer includes freight, air tax and fees. GST extra
Costco Members Add'l Savings (\$1,000)

NEW 2017 **2017 F150 4X4 SUPERCREW XLT**
 Stk. #T17387.
 5.0L V8 FFV, 6 Speed Electronic Trans, Shadow Black, Grey Cloth.
MSRP \$53,714
Sale Price **\$42,795**
 Offer includes freight, air tax and fees. GST extra
Costco Members Add'l Savings (\$1,000)

NEW 2017 **2017 F250 4X4 CREWCAB XLT**
 Stk. #T17726.
 6.2L EFI V8 Engine, 6 Speed Automatic, Oxford White, Earth Grey Interior.
MSRP \$57,629
Sale Price **\$47,695**
 Offer includes freight, air tax and fees. GST extra
Costco Members Add'l Savings (\$1,000)

NEW 2017 **2017 F350 4X4 CREW CAB LARIAT**
 Stk. #T17793.
 6.7L Powerstroke V8 Diesel, 6 Speed Automatic, Shadow Black, Black Leather.
MSRP \$82,299
Sale Price **\$72,995**
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2009 CIH 8120
 1984 hrs, duals, autosteer, headers & pickups available..... **\$129,900**



2013 MD FD75-D
 45' flex draper, transport, pea auger, AHHC, hyd F/A, very good condition..... **\$79,800**

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2005 CIH AFX 8010
 2696 hrs, duals, AFS, lat tilt, auger extension, headers & pickups available... **\$74,800**



2005 LEXION 580R
 2209 hrs, Cebis, Cat C12, chopper, spreader, runs well, pickups & duals available..... **\$89,800**



2001 JD 9750 STS
 3,306 hrs, Greenstar, new tires, pickups & duals available.. **\$49,800**



2003 NH CR940
 2,588 hrs, chopper, spreader, 900/60R32 fronts, headers/pickups available.. **\$49,800**



2007 GLEANER/A75
 1426 hrs, RWA, FC chopper, 30.5x32 fronts, pickups & duals available..... **\$89,900**



NEW MD PW8
 16' pickups for CNH & JD, trades wanted! **\$29,800**



2014 NH 840 CD
 40', rigid draper, AHHC, transport, hyd F/A, for CR/CX/AFX..... **\$39,800**



2010 IHB SP40
 40' rigid draper, UII PUR, fore/aft, hyd tilt, transport, DKD, field ready **\$29,800**



2012 JD 630R
 30' rigid header, full finger auger, pick up reel, for STS **\$29,800**



2003 HB SP36
 36' draper for Lexion 460/465 series, UII PUR, for/aft, transport, poly **\$16,900**

WE WELCOME YOUR TRADES!



2009 CIH PUMA 155 MFWD
 1000/540 PTO, 3PH, L70 loader with 8'6" bucket, LH reverse, 5251 hrs..... **\$78,900**



2013 JD 9510RT
 1,870 hrs, 18 speed power shift, 3PH, HID lights, front weights, Greenstar 3, like new, financing, warranty **\$239,800**



2014 CHALLENGER MT765D
 620 hrs, 350 HP, Trimble Autopilot, 18" tracks, PTO, 3PH..... **\$229,800**



2003 FRONTIER GC1108 GRAIN CART
 875 Bushel, PTO drive, 30.5x32 radials, roll tarp, field ready **\$28,900**



2013 SUMMERS DISC 2510DT
 18' tandem diamond disc, 23" notched discs, very good condition..... **\$28,800**



2014 MF 8680 MFWD
 667 hrs, PTO, 3PH, CVT, 5 hyd, rear duals **\$174,800**



2011 MF 8680 MFWD
 2,342 hrs, PTO, 3PH, CVT, front & rear duals..... **\$124,800**



2004 CIH SPX3185 SPRAYER
 2,159 hrs, 750 gal, auto steer, auto boom, nice condition **\$74,800**



2010 EZZE-ON 8700 DISC
 12' spacing, 24" front/26" rear pans, frame excellent **\$34,800**



2012 BOURGALT 6000
 Very nice condition, field ready with new tines..... **\$26,900**

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2009 HUTCHINSON 34,000L TANK
 34,000L Tridem tank trailer, air suspension, one compartment, well maintained, 2018 SK safety **\$18,900**



2001 ADVANCE 34,000L TANK
 Aluminum tridem, one compartment, air suspension, good condition, current safety **\$14,900**



2008 WALINGA TRIDEM TANK
 Live bottom, 107,493 Km, aluminum, 12 compartment, hyd control, very good condition **\$54,800**



1994 WESTERN STAR 4964F
 Crane truck, 584,000 Km, T/A, Cat 3406, Eaton 18 spd, Ferrari 8300 Kg crane, fresh safety **\$19,800**



2005 STERLING L9500 T/A DUMP TRUCK
 Cat C15, 10 speed Eaton, 15' gravel box, fresh SK safety..... **\$39,800**



2009 HUTCHINSON 34,000L TANK
 34,000L Tridem tank trailer, air suspension, one compartment, good condition, 2018 SK safety..... **\$16,900**



1986 BEDARD 18,000L TANK
 Pup trailer, T/A, air brakes, good water hauler **\$7,900**



2018 SOUTHLAND 22' TRIAXLE
 7,000 lb axles, 6' ramps, max cargo 17,204 lbs..... **\$8,900**



1987 INTERNATIONAL S1900
 Digger Derrick truck, 183,000 Km, 5 spd, Air brakes, Pitman pole cat Derrick with outriggers **\$8,980**



1999 STERLING LT9513 T/A DUMP TRUCK
 269,825 Km, Eaton 13 speed, 15' gravel box, fresh SK safety..... **\$29,900**

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1993 PATRIOT XL SPRAYER



NOW \$37,500

Cab & air, 75' boom, 12.4x38 tires.
Was \$47,500



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2013 NEW HOLLAND SP365F



\$379,000

607hrs, 120/70ft Boom 10 Sec 20in~3 way nozzles;
1600 Gal SS Tank; 3" Quick Fill; 380/90R46 Tires;
650/75R38 Extra Float Tires; 3X Sets of Greenleaf Tips



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2013 DIECI AGRI TECH 35.7 VS TELEHANDLER



\$119,000

Stk: 62346, 1170 Hrs, Degelman Bucket/
Grapple, 23' Lift Height / 12.5' Reach,
PTO, 3 Pt, 2 SCV



TROCHU, AB
403-442-3982

2017 DEMO 7T TWIN SCREW



\$41,600

Dog leg conveyor, scale and weight
repeater, 10 inch rubber extension



RIMBEY, AB
403-843-3700

2016 CASE IH 9240



\$520,000

3016 Pickup Header, 620 Duals, HID Lighting,
Accuguide, Folding Auger, Pivoting Unload Spout
In Cab Control, Magnacut Fine Cut Chopper,
Dual Disc Spreader, Luxury Cab, Leather Seat,



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2013 CLAAS JAGUAR 980



\$450,000

Forage Harvester



LLOYDMINSTER, AB
780-875-8010

2014 NEW HOLLAND CR9090



\$329,000

Luxury Cab, Dual Tires, 790CP 15' PU Header,
Autoguidance Nav II / Autosteer, Yield and
Moisture Monitor, 21' Unloading
Auger, Stk #HN3694A



HUMBOLDT, SK
306-682-9920

2012 JOHN DEERE 9560R



\$399,000

Stk: 83421, 2240 Hrs, 36" ATI Tracks,
PTO, Hi-Flow Hydraulics, Powershift



SASKATOON, SK
306-933-3303

2014 MASSEY FERGUSON 7615



\$139,900

MFD, 2500hrs, 140 HP



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2014 NH RB560, Wide, BC, Net, Spec..	\$45,800
2005 NH BR780.....	\$13,500
2003 NH BR780.....	\$11,800
2006 NH BR780A.....	\$14,500
2004 CIH BX562, 12,600 Bales.....	\$13,800
COMBINES	
2012 NH CX8080, 1037/748 hrs.....	\$278,000
2012 NH CX8080, 1005/746 hrs.....	\$268,000
2011 NH CX8080, 1438/1030 hrs.....	\$238,000
2010 NH CX8080, 1875/1348 hrs.....	\$228,000
2010 NH CX8080, 1755/1237 hrs.....	\$228,000
2010 NH CX8080, 1722/1240 hrs.....	\$228,000
2010 NH CX8080, 1000/900 hrs.....	\$238,000
2007 NH CX8080, 1972/1539 hrs.....	\$179,000
2013 NH CX8090, 622/789 hrs.....	\$369,000
2014 NH CR8090, 921/728 hrs.....	\$349,000
2012 NH CR8090, 1144/917 hrs.....	\$289,000
2012 NH CR8090, 1314/1041 hrs.....	\$299,000
2004 NH CX860, 2688/2035 hrs.....	\$119,000
2004 NH CX860, 3685/2869 hrs.....	\$98,000
2004 NH CX860, 2528/1924 hrs.....	\$138,500
1997 NH TX66, 3754/2781 hrs.....	\$28,500
1998 NH TX66, 2796/2188 hrs.....	\$48,000
1996 NH TR98, 2931/2211 hrs.....	\$39,000
1997 NH TR98, 2391/1622 hrs.....	\$39,000
2008 NH CR9070, 2279/1562 hrs.....	\$228,000

2010 NH CR9070, 1622/1199 hrs.....	\$179,500
2007 NH CR9070, 948/780 hrs.....	\$198,000
2007 NH CR9070, 1710/1253 hrs.....	\$179,000
2008 NH CR9070, 1434/1023 hrs.....	\$189,500
2008 NH CR9070, 1489/1020 hrs.....	\$195,000
2008 NH CR9070, 2251/1583 hrs.....	\$169,500
2009 NH CR9070, 1597/1208 hrs.....	\$179,000
2010 NH CR9070, 1300/1153 hrs.....	\$198,000
2010 NH CR9070, 1616/1190 hrs.....	\$198,000
2007 NH CR9070, 1510/2267 hrs.....	\$148,500
2009 NH CR9070, 1554/1137 hrs.....	\$198,000
2009 NH CR9080, 1347/980 hrs.....	\$249,000
2011 NH CR9070, 985/749 hrs.....	\$259,000
2011 NH CR9090Z, 1311/967 hrs.....	\$289,000
2012 NH CR9090Z, 868/632hrs.....	\$339,000
2012 NH CR9090Z, 811/576 hrs.....	\$369,000
2010 NH CR9090E, 1187/1703 hrs.....	\$269,000
2010 NH CR9090E, 1064/1518 hrs.....	\$268,000
2014 NH CR9090, 512 hrs.....	\$410,000
2014 NH CR9090, 476/650 hrs.....	\$420,000
2013 NH CR9090Z, 680 Thr hrs.....	\$379,000
2013 NH CR9090Z, 1484/1138 hrs.....	\$298,000
2013 NH CR9090Z, 1128/804 hrs.....	\$369,000
2005 NH CR970, 2459/1821 hrs.....	\$138,000
2006 NH CR970, 1861/1300 hrs.....	\$149,000
2006 NH CR970, 1547/1219 hrs.....	\$159,000
2016 NH CX8.80E, 250 thr hrs.....	\$469,000
2015 NH CR8.90, 620/414 hrs.....	\$483,000
2016 NH CR8.90E, 327/266 hrs.....	\$485,000

2013 NH CR8090, 1162/904 hrs.....	\$289,000
2016 NH CR9.90E, 290 thr hrs.....	\$Call
2016 NH CR9.90E, 470/343.....	\$549,000
2015 NH CR10.90, 272 hrs.....	\$589,500
2016 NH CR10.90E, 457/289 hrs.....	\$595,000
1996 CIH 2188, 3451/2547 hrs.....	\$28,000
2004 CIH 2388, 2547/2146 hrs.....	\$98,000
2010 CIH 7088, 1784/1316 hrs.....	\$187,000
2012 CIH 8230, 1304/962 hrs.....	\$278,000
2013 CIH 8230, 700 thr hrs.....	\$298,000
1995 JD 9500, 2250 thr hrs.....	\$39,500
2011 JD T670, 833 hrs.....	\$239,500
2013 JD S680, 933/653 hrs.....	\$387,000
2010 JD T670, 1132/807 hrs.....	\$198,000
2012 CLASS 770, 1131/657 hrs.....	\$369,000
GRAIN AUGER/HARROW	
2014 REM, VRX.....	\$22,800
2008 REM 2700.....	\$13,000
2007 Bourgault 6000.....	\$25,800
COMBINE HEADERS	
2010 Honey Bee HB30, Gleaner adaptor, 30'.....	\$49,500
1999 Honey Bee SP36, 36'.....	\$29,000
2007 Honey Bee SP36.....	\$29,800
2013 Honey Bee HP30.....	\$52,000
1994 Honey Bee SP30.....	\$9,800
2009 NH 88C, 42'.....	\$68,000
2006 NH 94C, 30'.....	\$29,500

2008 NH 94C, 30'.....	\$29,500
2010 NH 94C, 30 CX/CR.....	\$36,500
2003 NH 94C, 30 CX/CR.....	\$29,500
2005 NH 94C.....	\$39,500
1998 NH 994 CX/CR.....	\$19,000
2009 NH 94C, 36 CX/CR.....	\$39,500
2008 NH 94C-36.....	\$39,500
2003 NH 94C-36.....	\$39,500
1999 NH 994-30.....	\$29,500
1998 NH 994-36.....	\$19,000
1995 NH SP25.....	\$15,000
2011 JD 630D, 30'.....	\$58,000
2012 JD 635D, 35'.....	\$68,000
2010 MacDon, 30', CR/CX, D6030.....	\$68,000
1998 MacDon 960.....	\$25,000
2010 MF 5100-35.....	\$58,000
1997 Westward 9030.....	\$4,000
2010 CIH 2142, 35'.....	\$58,000
2010 MacDon FD70, 45'.....	\$69,000
2014 MacDon CR/CX, 35', D6535G.....	\$69,000
2014 MacDon, 35', D6535G.....	\$69,000
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2006 NH 1475.....	\$21,500
2002 NH 1475, tongue only.....	\$2,000
1995 NH 2216.....	\$7,500
1995 NH 2216.....	\$9,500
2012 NH H7460.....	\$33,500
2007 NH 1475/HS18.....	\$23,800

2008 CIH SCX100, 18".....	\$23,800
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2011 NH SP240F.....	\$208,000
2011 NH SP240F, 1920 hrs.....	\$185,000
2009 SpraCoupe 4660, 440 gal, 80'.....	\$84,500
2009 RoGator 1084, 3160 hrs.....	\$159,000
2001 John Deere 4710, 800 gal, 100'.....	\$94,000
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2013 MacDon D65, 40'.....	\$49,500
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2010 MacDon M150, 2053/1440 hrs.....	\$85,000
2010 MacDon M150, 35', 1848/1213 hrs.....	\$85,000
1998 MacDon 960.....	\$9,500
1998 MacDon 960, 25'.....	\$9,500
2013 MacDon M155/D6540, 520 hrs.....	\$138,000
2014 NH SR200/440HB.....	\$169,000
1999 NH 994, 25'.....	\$15,000
2007 NH HW325, 1200 hrs.....	\$58,000
2008 NH H8040/HB36, as is.....	\$69,000
2014 NH SR200.....	\$175,000
2012 MF 9740/523, 604 eng. Single knife, 30', 450 THR.....	\$98,000
2003 Premier 2952, 2098 hrs.....	\$48,000

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2013 APACHE 1020, 470 hrs., duals, 100', 1000 gal. tank, AutoSteer, AutoBoom, Auto Section. One owner, retiring. \$190,000 OBO. 306-591-1133, Pense, SK.

2013 JD 4940 120', BoomTrac, sect. control, AutoSteer, 2630 monitor, Stk: 02415, \$240,000. 1-888-905-7010, Prince Albert, SK. www.redheadequipment.ca

1996 SPRA-COUPÉ SP 70', 1490 hrs., full Outback GPS, AutoSteer, trans. and differential overhauled, new tank, brakes and reconditioned starter, stored inside, \$27,000. 306-238-7617, 306-238-2159, Goodsoil, SK. Stonylandranch@yahoo.com

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2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$140,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

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

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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

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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

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.

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

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

2010 SEED HAWK 60' Toolbar, 12" sp., w/Seed Hawk 400 cart, 2 fans, seed & fertilizer distributing kit auger. Also NH kit & winch \$170,000. 306-449-2255, A.E. Chicoine Farm Equipment Ltd., Storthoaks SK.

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2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$140,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

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

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

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JD 610, 40' floating hitch cultivator, \$7150; Morris Magnum 45' cultivator, \$5650. 306-946-7923, Young, SK.

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MITCH'S TRACTOR SALES LTD., 204-750-2459 (cell), St. Claude, MB. Mitchtractorsales.com JD 2550, 2 WD, 3 PTH, 2 hyd., w/245 loader; JD 2950, 2 WD, CAH, 3 PTH, 2 hyd.; JD 2955, MFWD, 3 PTH, 2 hyd., w/loader; JD 3150, MFWD, 3 PTH, 2 hyd., w/loader; JD 4030, 3 PTH, 2 hyd., Quadshift, w/loader; JD 4240, Quadshift, 2 hyd.; JD 4440, 3 PTH, 2 hyd., Quadshift, w/loader; JD 4450, MFWD, 3 PTH, 15 spd., w/loader; JD 4650, 2 WD, Quadshift, 3 hyd., duals; JD 6410, MFWD, 3 PTH, PowerQuad w/LHR, w/loader, grapple; JD 6420, (2) MFWD, 3 PTH, AutoQuad, w/loader; JD 7200, MFWD, 3 PTH PowerQuad with loader; JD 7210, MFWD, 3 PTH, PowerQuad with loader; JD 7400, MFWD, 3 PTH, PowerQuad, w/loader; JD 7600, MFWD, 3 PTH, Power Quad with loader; JD 9600 combine.

NEW MANDAOKO CATEGORY II 3 PTH for JD 7000 Series tractors, still in crate, \$2600. 306-744-7955, Salfcoats, SK.

WHOLESALE PRICES ON JD Tractors. 2014 8245R, FWA, duals, 2 yr. factory warranty left, very good cond., possible trades. \$149,000 Cdn; 2012 9460R, 4 WD, duals, vg cond., \$230,000 Cdn. For more info. ph Neil 306-231-8300, Humboldt, SK.

2004 JD 6715, with FEL, 3 PTH, 110 HP 4950 hours, very good condition. Call 306-773-7122, Swift Current, SK.

2003 JD 7810, 4500 hrs., never winter used, never had loader, loaded, 20 spd. quad, 3PTH. 780-990-8412, Edmonton, AB

2003 JD 6920 MFWD, front suspension, IVT transmission, 5700 hours, \$50,000. 204-648-7129, Grandview, MB.

JD 4230, 100 HP Quadshift, dual PTO hyd. 18.4x38 tires, \$13,000. 204-525-4521, Minitonas MB www.waltersequipment.com

JD 2950, FWA, 260 loader, 3PTH, vg tires - rear are new, \$28,950; **JD 4650, 3 hyd., duals, good tires, clean, \$17,500;** **JD 3020, power shift, 3PTH, loader, vg rubber, \$7950;** **JD 830, dsl., power steering, good rubber, good paint, \$6500.** 204-746-2166, 204-746-5345, Morris MB.

2009 JOHN DEERE 9430, 4WD, 425 HP 24 spd., 4 hyd., 710/70R42 duals, 4257 hrs., original owner, nice condition, asking \$185,000. 306-725-4286, Bulyea, SK.

2012 JD 9460R, full load, 1600 hrs., 2600 screen, PTO, great for grain cart, very clean field ready. Retiring. Harvey Linnen 780-838-7222, Raymore, SK.

JD 2130 w/146 Loader, 3PTH, 1990 hrs., hi-lo, dual hyd., looks and runs like new, must be seen!! \$15,000. Call Randy at 204-729-5162, Brandon, MB.

2000 JD 7810, FWA, Powershift, c/w 360H loader, GPS, new tires, \$65,500. Call Henry 403-588-0958, Alix, AB.

1977 JD 4430 w/606 PT mower behind, very low hrs., always shedded, excellent condition. 306-717-2971, Saskatoon, SK.

2010 JD 9630, 530 HP, Michelin 800/70R38 tires, JD AutoSteer, \$239,000. 306-563-8765, Canora, SK.

UTILITY TRACTORS: JD 6200, 2 WD, open station with loader; JD 5520, MFWD w/cab, loader. 204-522-6333, Melita, MB.

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2000 JD 7710, 5130 hrs; 2000 JD 8300; 2001 JD 7810; 2008 JD 7830, 5200 hrs. All MFWD, can be equipped with loaders. 204-522-6333, Melita, MB.

1995 JD 8100, MFWD, 840 loader, power-shift, new tires, 9043 hrs., exc. cond., \$76,000. 306-472-7704, Woodrow, SK.

WRECKING FOR PARTS: JD 8850 4WD, c/w (8) 24.5x32 Goodyear Dyna Torque tires 80+ % tread, vg sheet metal; 1-877-564-8734, Roblin, MB.

1983 JD 8450 4WD, quad shift, PTO, 8200 hrs., \$22,250 OBO; 12' Degelman bulldozer to fit, \$3200. 306-275-4446, St. Brieux SK.

2007 9620 W/PTO, 4060 hrs., leather, 800 tires. 48 gal/min, dozer to sit avail., \$189,000. 306-948-7223, Biggar, SK.

KUBOTA 4298

2011 KUBOTA M135 X, 1740 hrs., shedded, ALO QA floating loader, bucket w/grapple, 3PTH, 1000/540 PTO, 3 remote hyd., Michelin radial tires, buddy seat, one straight & offset draw bar, optional 9' tiller w/roller cage for additional \$8500, exc. cond., \$70,000. 308-229-4266, Tofield, AB.

MASSEY FERGUSON 4301



2011 MF 8680 MFWD, 2342 hrs., PTO, CVT, front and rear duals, \$124,800. 1-800-667-4515, www.combineworld.com

MF 90 w/LOADER; MF 1100 w/loader; Case 2290 w/loader. 306-283-4747, 306-220-0429, Langham, SK.

MASSEY FERGUSON 4301



2014 MF 8680 MFWD, 667 hrs., PTO, CVT, 5 hyd., rear duals, \$174,800. 1-800-667-4515, www.combineworld.com

1961 MASSEY FERGUSON Super 95, 2WD, 4100 hrs., \$5000 OBO. 403-598-9481, Red Deer County, AB., davinad57@gmail.com

MF 2745, 2WD, 140 HP duals, large front tires, runs good, \$4500. For more information call 639-998-8522, Saskatoon, SK.

MF 1105 TRACTOR, works well, tires ok, great auger tractor, \$4500. 306-233-7305, Cudworth, SK.

2006 MF 1528 4 WD, hydrostatic trans., c/w MF 1520 loader, 60" bucket, 258 org. hrs., asking \$14,995. Call 780-739-8084, 780-554-4736, Leduc, AB.

NEW HOLLAND 4304

1994 NH 8870, MFWD, 5800 hrs., std. front axle, 16 spd. trans., 4 hyd., std. flow, Michelin tires w/factory axle duals, excellent condition. \$53,500 OBO. 587-589-4207, Stony Plain, AB. trevor@canadasurfs.net

NH T8030 MFWD, premium 2010 PS duals front & back, 3900 hrs, 300 HP PTO, shedded, awesome for grain cart. \$120,000. Steven Brewster, 306-731-7235, Earl Grey.

2003 NH T450 w/full PS, 4700 hrs., mega flow hyd. 103 gal/min., 900 metric duals, \$119,000. 306-948-7223, Biggar, SK.

2014 NH TV6070 Bidirectional, PTO, hyd. both ends, loader and grapple, 3PTH, mirrors, HID lights, big hyd. pump ready, 600 hrs., \$150,000. 406-556-3992, Olds, AB.

FORD 4307

1979 FORD 6700, CAHR, w/90 HL Ezee On high lift loader, runs excellent, \$12,500. 306-238-4590, Goodsoil, SK.

FORD TW25, FWA, 6000 hrs., w/894 Allied loader, grapple, \$19,500. 306-640-8034, 306-266-2016 Glen, Wood Mountain, SK.

VERSATILE 4310

1967 VERSATILE 118, 4 WD, Cummins V6 engine, smokes but runs good, small diffs, c/w parts tractor that has large diffs, good cond., \$4000 or will trade for an acreage tractor. 780-520-2987, Lac la Biche, AB. edzcorner@gmail.com

VERS. 500, newer hyd. pump and rad, new batteries, 15 spd., 3 hyd., 3 PTH, PTO Big 1000, 18.4x28 duals adj. axles, recirculation heater 1500 watt, Cummins V8, AC, \$10,000 OBO. 204-967-2009 Kelwood, MB.

VARIOUS TRACTORS 4319



2014 CHALLENGER MT765D, 620 hrs., 3502 HP, Trimble autopilot, 18" tracks, PTO, 3PTH, \$229,800. 1-800-667-4515, www.combineworld.com

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2005 MCCORMICK MTX120 with Quicke loader, 3100 hours; 2006 MTX150. Call 204-522-6333, Melita, MB.

LOADERS/DOZERS 4322

2010 DEGELMAN 7900 dozer, 18', good condition, fits NH T9060 and some Case tractors, \$22,000. 306-736-8897, Corning, SK. jeremybalogh@hotmail.com

DEGELMAN 6600, 14' blade, manual angle, c/w mesh, mounts for JD 9320; Degelman 5900, 14' blade, 6-way, c/w mesh, mounts for JD 8410 MFWD, excellent condition. 780-679-7795, Camrose, AB.

2014 DEGELMAN 7900, 20' blade quick attach, exc. cond., \$30,000. 306-736-8897, Corning, SK. jeremybalogh@hotmail.com

MISCELLANEOUS 4325

FARM LIQUIDATION: Antiques (cars, tractors, trucks); Augers; Combines; Cultivators; Diskers; Fencing posts; 1/2 ton trucks; Harrow/packer hitch; Haying equipment; Grain trucks; Rock picker; Rodweeder; Seed drills; Swather; Other smaller items. Truax, SK. For complete list, pics & pricing e-mail: p.tice@hotmail.ca

RETIRED: NH TR98, TR96; Vers. 876 PTO; Steiger Panther; Case 4494; Trucks, trailers, and other machinery. 403-594-0220.

RETIRED: 2012 JD T-670 combine, 330 cyl hrs., 2013 JD 635 flex header, \$300,000; 2005 JD 4720 SP sprayer, 90", 1300 hrs., \$145,000; 2014 Farm King 13x70 auger swing away, PTO, \$20,000. 306-869-7141, 306-789-9992, Beaubier SK

NH CHAIN BALER, \$2500; Neuver grain vac, \$3000; 34' factory drill mower, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. 306-304-1959 Goodsoil, SK

SUNFLOWER HARVEST SYSTEMS. Call for literature. 1-800-735-5848. Lucke Mfg., www.luckemanufacturing.com

WANTED: JD 9600 or 9610 or ?; 25' Flex Header; 1957 Fairlane 500. Call 306-304-1959, Goodsoil, SK.

MISCELLANEOUS 4325

AGCO 5100 HEADER 36' w/MH 9895 adapter, low hrs. with outside wheels and gauge. Wheels and Hart Carter PU reels, shedded; AgCo 5100 36' header w/MH 9895 adapter, UII PU reels, gauge wheels, shedded, low hrs; AgCo 5000 36', UII PU header, double reel, fits White or MH 9700, 9720, MF 8570 and 8590, low hrs; Alteen 24' wing disc w/22'.5" blades, 2" diameter, gang shaft, good rubber; Prairie Star 30' PT swather with PU reel, near new belts, canvases and knife; NH 900 Forage Harvester, metal detector with Jiffy Hydra lift. 403-552-2122, Altario, AB.

MACDON 5000 and 5020 14' mower conditioners; Versatile 4700 25' SP swather; IH 4600 28' cult.; 2007 Hesston 956 round baler; Westward 3000 25' PT swather. 204-526-2216, 204-526-5148, Holland, MB

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1976 CASE 586 rough terrain forklift, 4 spd. hydro, 6000 lbs. 15' lift, 4 cylinder diesel, 5760 hrs, nice condition, \$11,900. 1-800-667-4515. www.combineworld.com

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1994 LIFT KING 6000 lbs. RT forklift model 6M22, 20' lift, cab, sideshift, 2 WD, runs well, \$9980. Call 1-800-667-4515. www.combineworld.com

2007 SELICK TMF-55 5500 lbs. forklift, 506 hours, 12' lift, 3 WD, \$9900. 1-800-667-4515. www.combineworld.com

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NEW AND USED GENERATORS: 500KW Caterpillar, Perkins, Cummins, Magnum - In stock. Call 250-554-6661, Kamloops, BC. Email: denis@bcdieselgenerators.com www.bcdieselgenerators.com

2011 MAGNUM MMG55FH, 45KVA, 240 volts, 3 phase, 60HZ, self-contained, \$15,000; 2004 Wacker G50, JD, 480 volt, 3 phase, 60HZ, self-contained, \$11,000; Ex-Government Standby Units: 1981 Condec Lima 800KW, 16V92 Detroit, 1000KVA, 3 phase, 60HZ, \$25,000; 1981 Brown Boveri 500KW, 16V92 Detroit, 625KVA, 3 phase, 60HZ, \$20,000; 1988 New Age 400KW, 12V92 Detroit, 500KVA, 3 phase, 60HZ, \$15,000. Can-Am Truck Export Ltd, 1-800-938-3323, Delisle, SK.

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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.

NEW AND USED GENERATORS: 500KW Caterpillar, Perkins, Cummins, Magnum - In stock. Call 250-554-6661, Kamloops, BC. Email: denis@bcdieselgenerators.com www.bcdieselgenerators.com

2011 MAGNUM MMG55FH, 45KVA, 240 volts, 3 phase, 60HZ, self-contained, \$15,000; 2004 Wacker G50, JD, 480 volt, 3 phase, 60HZ, self-contained, \$11,000; Ex-Government Standby Units: 1981 Condec Lima 800KW, 16V92 Detroit, 1000KVA, 3 phase, 60HZ, \$25,000; 1981 Brown Boveri 500KW, 16V92 Detroit, 625KVA, 3 phase, 60HZ, \$20,000; 1988 New Age 400KW, 12V92 Detroit, 500KVA, 3 phase, 60HZ, \$15,000. Can-Am Truck Export Ltd, 1-800-938-3323, Delisle, SK.

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1981 ALLIS CHALMERS H/D 5020 garden tractor, engine S-126, 2 cylinder diesel, 4 spd. trans., Woods L-55 cutting deck attached under tractor, \$5000 OBO. Call Bill 780-482-5273, Edmonton, AB.

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29 COW/CALF PAIRS, calves at foot, Angus/ Hereford mix, \$3000. Please call 306-867-8446, Outlook, SK. Email: Petesvalley@sasktel.net

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HORSES

AUCTION SALES 5305

CANDIAC AUCTION MART Horse Sale on Saturday, September 2. Tack sells at 10:30 AM. Horses sell at 1:30 PM. For receiving times and more information contact 306-424-2967, or Janet 306-539-0165 or Kevin 306-539-4090, Candiac, SK.

HORSE SALE: 20TH ANNUAL SEPTEMBER SHOWCASE, Sept 9, 2017, 1:00 PM. Moose Mountain Ranch selling over 50 head of exceptional prospects. Weyburn, SK. www.septembershowcasesale.com

MBPHB LOUD AND PROUD Foal & Horse Sale, Sept. 16, 1 PM DST, at Killarney Auction Mart, Killarney, MB. 204-634-2375 for info. www.mbphbthorsebreeders.com

RANCH COUNTRY HORSE SALE (Perrin, Parsonage, Bertrams) on Sat., Sept. 9th, 1:00 PM. Sale Preview 9:30 AM. Rodeo Grounds, Maple Creek, SK. Complimentary breakfast 8:00-9:30 AM. Approx. 30 foals from the members. Approx. 30 riding horses from members and guest consignors. For catalogue and info call Ken Perrin, 306-662-3730, Lou Parsonage, 306-299-4474. Catalogue online at: www.northernhorse.com/ranchcountry

HORSE SALE, Johnstone Auction Mart, Moose Jaw, SK. Thursday September 7th, 2017. Tack sells at 2:00 PM. Horses sell at 4:30 PM. All classes of horses accepted. Next Regular Horse Sale - October 5th, 2017. Call 306-693-4715. PL# 914447. www.johnstoneauction.ca

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PAINT GELDING; 2 Arab sorrel geldings; Arab sorrel mare; 2 Arab gray geldings; Registered purebred QH by Pistol out of a Doc O Lena mare. Call 780-581-4035 or 780-853-2031, Vermilion, AB.

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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.

PERSONAL VARIOUS 5952

ARE YOU SINGLE and would rather be in love? Camelot Introductions has been successfully matching people for over 23 years. In-person interviews by Intuitive Matchmaker in MB and SK. Call 306-978-LOVE (5683), 204-257-LOVE (5683) www.camelotintroductions.com

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, Ont.

NON REGISTERED 5971

CHESAPEAKE BAY RETRIEVERS, 3 males ready to go, 1st shots and dewormed. Great family & hunting dogs. Mother is a great bird dog, both upland and water. \$800. 306-861-6196, 306-861-2510, Weyburn SK.

WORKING DOGS 5973

REGISTERED BORDER COLLIE pups, Sire Scottish import, son of 2010 International Champion, top working stock. 780-941-3843, New Sarepta, AB.

REAL ESTATE

B.C. PROPERTIES 6110

6.96 ACRE ACREAGE in Creston, BC: Beautiful view lot overlooks valley. Seasonal creek, many trees, city utilities to the lot line including sewer and paved city road. For sale by owner, \$199,000 OBO. Call 403-288-7559, rumscheid@telus.net

SUCCESSFUL TIRE AND AUTO business has been in operation for 50 years. This successful enterprise is a turnkey business with increasing sales over \$500,000 per year. This is a unique opportunity to live and work in the beautiful town of Nelson B.C. Call Pat Siller 250-352-3591 for complete informational package. \$500,000. patsiller09@gmail.com

COMMERCIAL BUILDINGS/LAND 6115

FORMER CAR DEALERSHIP in Canora, SK. Approx. 4 acres of land, 11,200 sq. ft. building, 12' showroom ceiling, 15' shop, 2 overhead doors, air compressor system, Phase II environmental available. \$575,000. Phone 306-621-8011.

COMMERCIAL LOT, READY to develop. 100' frontage x 300'. High elevation w/ no flood issues & lots of fill for landscaping. Services adjacent to property. 2017 taxes paid. \$45,000. Candle Lake, SK., 306-960-6253, 306-922-6232, thecorrigals@sasktel.net

CONDOS/TOWN HOUSES 6120

IMMACULATE & BRIGHT Top Floor Corner Condo, built in 2005, 1272 sq. ft., 2 bdrm + den, 2 bath, wrap around balcony, underground parking and car wash, will sell furnished or unfurnished, \$330,000. 306-491-0901, Wildwood - Saskatoon, SK.

CONDOMINIUM, "CASH TO Mortgage" purchase, 664 sq. ft. 1 bdrm first floor at the Daxton in Silverspring. Modern decor, large bdrm & closet area, garden door to east facing deck, in-suite laundry, 1 titled UG parking stall. All appliances incl. Condo fees \$187. A/C, in floor heat, camera security entrance, close to all amenities. Direct bus route to Campus. Must qualify to assume mortgage. Immediate possession. Call Kim 306-290-4256. FSBO \$204,900 OBO. Saskatoon, SK. kimkrienke@sasktel.net

COTTAGE/LOTS 6125

NEED a back yard retreat? We have tiny pre-built log cabins ready to be loaded onto your trailer. Plug and play models! Also log cabin logs and log siding. Call Rouch Bros., Lumby, BC., 1-800-960-3388 or visit: www.rouchbros.com

HOUSES/LOTS 6126

CANWOOD, SK. 2+ 1 bedroom bungalow, finished basement, fenced yard and shed, village has all amenities. Close to fishing, golfing and hunting. Seller motivated. Serious inquiries only. Call 780-913-1901.

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

TWO 2 BEDROOM homes in Oyen, AB. 775 sq. ft. 2 bdrm, 1 bath, single family 1-1/2 storey older homes. One is currently rented until Sept. 30. Both ready to move into. Includes washer, dryer, fridge and stove. The lot on the smaller house is 8500 sq ft. Priced for quick sale. For sale by owner, \$44,000 OBO. 403-664-2291, Oyen, AB. stouffer@telusplanet.net

AFFORDABLE HOME, 3 bdrm, move-in ready w/ finished basement, attached 2 car garage, large storage shop on 1/2 acre. \$84,000. Can email website. 306-571-9297 Buchanan, SK. yatesg@live.ca

MOBILE HOMES 6127

1996 SRI AVONLEA, 16x76 with 13x14 entry addition, 3 bdrm, 2 bath, \$40,000 OBO. 204-937-7202, Roblin, MB.

YELLOWHEAD MODULAR HOME SALES, Canadian built by Moduline. Elite price event on now: 960 sq. ft., 2 bdrm, 2 bath, \$79,900; 1216 sq. ft., 3 bdrm, 2 bath, \$89,900; 1520 sq. ft., 3 or 4 bdrm, 2 bath, \$109,900. 306-496-7538, weekend calls. www.yellowheadmodularhomesales.ca

WWW.MEDALLION-HOMES.CA modular homes/lake houses/RTM's. Visit our sales lot, or check online for stock, homes and all other plans. Factory direct orders built to your specs! Trade-ins welcome, buy and sell used homes. Hwy 2 South, Prince Albert, SK. Call 306-764-2121 or toll free 1-800-249-3969.

1976 EMPEROR MOBILE HOME: 2 bdrm, 1 bath, completely furnished. Can be moved, great rental property. \$16,000 OBO. 403-664-0443, 403-664-7098, Oyen, AB. cgheath@telus.net

1962 HOUSE TRAILER, 3 bdrm, 1 bath, 14x62. Recent upgrades. Kitchen appliances, washer and dryer included. Axles and tires still attached. To be moved by buyer. \$9000 OBO. 403-741-7886, Castor, AB. dietzbelinda@hotmail.com

RTMS AND SITE built homes. Call 1-866-933-9595, or go online for pictures and pricing at: www.warmanhomes.ca

HOME HARDWARE RTM Homes and Cottages. Phone 1-800-663-3350 or go online for floor plans and specs at: www.northbattledfordhomehardware.com

PERFECT COTTAGE OR Granny Suite. 384 sq. ft., 1 bdrm, 1 bath, 16'x30' built in 2011 w/ covered entry. Metal roof, vinyl siding. New furnace, duct work and insulated crawl in 2016. Very cozy! All appliances included. \$35,000. Prince Albert, SK., 306-940-7780, 306-922-6232, tannerc_@hotmail.com

MOTIVATED TO SELL. Ready to move. Beautiful, well-kept, 1250 sq. ft., 3 bed., 2 bath single family home. Vaulted ceilings, large kitchen, jacuzzi off master bedroom, central air. Numerous renovations. 204-571-1254, elnicol@mymts.net

J&H HOMES: Western Canada's most trusted RTM Home Builder since 1969. View at www.jhhomes.com 306-652-5322

RECREATIONAL PROPERTY 6130

ATTENTION WILDLIFE ENTHUSIASTS! Whether you are a hunter or photographer, check out this exceptional 82 acres of ideal property located just south of R.M.N.P. Also great for snowmobiling, snow shoeing and hiking into the park. All season creek for trapping. Call Mike Kufflick 204-721-1347 mikufflick@remax.net

PARK MODEL for sale, friendly smaller park in Yuma, AZ. Includes Arizona room, carport, fully furnished, 2 pools, rec hall. Call 780-467-1915, Sherwood Park, AB.

FARMS & RANCHES

BRITISH COLUMBIA 6131

ACREAGE, MOBILE, WELL, Shop (2014): 62 ac., cleared, fenced, set-up for horses. 4 bdrm, 1 1/2 bath, new roof 2017, frontage property to main road. Many extras. \$375,600. Contact Lloyd for more info and pictures. 250-630-2686. Prespatou, BC. blackbanner2016@hotmail.com

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.

MARGUERITE RANCH (QUESNEL) 26 titles, 3095 acres deeded, 450+ cow/calf operation. Irrigated, 58,000 acre range, 3 home sites, \$4.99M. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert. More info and other listings: 250-983-3372 bkgranholm@xplornet.com

1405 ACRED DEEP CREEK RANCH, located SE of Vanderhoof, being sold 'as is' including full line of equipment, furnished home and shop, Crown grazing license. Great cow/calf operation, \$1,295,000. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert, 250-983-3372 bkgranholm@xplornet.com

ALBERTA 6132

BY TENDER: SALE of Lands by Dwayne Koch, Brenda Tuchscherer, & Bonita Sept. The aforementioned owners of farmlands will accept offers to purchase any one, or several, of the eight parcels of deeded lands located in the RM of Fox Valley No. 171 (briefly described as All of Sec 31-17-27 W3, SW 6-18-27 W3, SW 32-17-27 W3, NE 29-17-27 W3, and SW 16-18-27 W3). Detailed particulars of which are available by email or fax request at the addresses below. Each parcel constitutes a quarter of land or a portion thereof as stated in the particulars. The Sellers or their agents are not responsible for the accuracy or completeness of the email/faxes received by the Tenderer. It is the Tenderers responsibility to review any information received and confirm the accuracy and completeness after receipt of information. The Owner reserves the right to reject any or all Tenders, and to waive formalities as the interest of the Owner may require without stating reasons. The highest or any Tender may not necessarily be accepted. The Owner shall not be liable for any costs, expenses, loss or damage incurred, sustained or suffered by any bidder prior, or subsequent to, or by reason of the acceptance or the non-acceptance by the Owner of any Tender. The bidders whose Tenders have not been accepted by the Owner will be notified within a reasonable time after Tender opening. The successful bidder shall pay a non-refundable deposit of 5% of the Tender price to Stringam LLP in trust by way of bank draft or solicitor's trust cheque with the tender submission. The closing date shall be **October 2, 2017**, the balance of the tender price shall be due and payable on said closing date. The taxes shall be adjusted at the closing date. The Owners shall retain all surface lease rentals up to and including the closing date without adjustment and any subsequent payments will be provided to the Purchaser. The balance of terms shall be set out in the tender package which shall be signed and submitted by tender. Tenders shall be marked "Koch Land Tender" and delivered on or before 12:00 noon (MDT) on October 2, 2017 to: Stringam LLP, 35 7th Street SE, Medicine Hat, AB, T1A 1J2, Attention: Kipling B. Wiese, P. 403-488-8200. F. 403-488-8215. Email: kbwiese@stringam.ca and/or colleen@stringam.ca. Tenders must be open for acceptance until September 30, 2017. Only unconditional tenders will be considered. All lands are to be purchased "as is". Any applicable GST will be added to the Tender price unless the Tenderer has a GST no. and confirms indemnity for GST upon closing. The Owners, or Stringam LLP will notify the successful Bidder within 3 days from October 2, 2017 by telephone (or email or fax where such information is provided) when the Tender has been accepted.

MOUNTAIN VIEW HORSE RANCH, ID#1100568, CLAESHOLM: Great Location! This unique 160 acre ranch is just 10 minutes south of Claesholm. Enjoy the mountain view from the magnificent equestrian centre or the 2100 sq.ft. bungalow w/10' ceilings and in-floor heating. Includes numerous out-buildings, as well as an outdoor riding arena plus an additional 850 sq.ft. home. Must be seen to be appreciated! **818 ACRES IN THE VALLEY OF ST. MARY'S RIVER, ID#1100565 CARDSTON:** This great ranch, just 6 miles from Cardston, offers 3.5 miles of river frontage and a mountain view, as well as a 2500 sq.ft. home with attached garage, a 55'x200' steel quonset, steel corrals and various outbuildings. About 430 acres are cultivated with about 70 acres of water rights from St. Mary's River. Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com

PRIME #1 FARMLAND: An opportunity to purchase 320

ALBERTA 6132

BY TENDER: SE-24-45-14 W4, 158.1 acre farmland, 110 acre cultivated in grain. Gas well w/\$2450 yearly rent can negotiate in 2018. Owner reserves the right to reject any or all Tenders. Deadline Oct. 31, 2017. E-mail for any questions or for bidding. Killam, AB., Albertafarmer01@gmail.com

QUARTER SECTION FARMLAND For Sale: SW-21-83-6-W6. 14 miles west and south of Hines Creek, AB. Approx. 125 acres in crop, 10 acres tame pasture. Vacant yard site, barn, and power. Immediate possession. If interested, call 780-494-2130.

TURNKEY BISON OPERATION: 7 quarter sections of mixed bush/open ac. 2 developed yard sites, barn shop, auto. waterers, Bison herd, equipment, annual hay already in stack yard. Ready to move in and carry on. Must sell due to health issues. Peace River. 780-618-7007, jbarji2@icloud.com

SASKATCHEWAN 6133

RM CANWOOD #494, 3 quarters: Grain, pasture and hay, 265 acres cult. On school bus route. UG power and phone on 2 good yard sites, 2013 assessment 203,700. 306-747-2775 after 6 PM, Shellbrook, SK.

FARM ACREAGE FOR Sale By Online Auction on www.bidwin.org 153 acre farm in lake country with house, shop and quonset, \$375,000. Qing Zhang, Landmark Realty, 306-684-0136, qing.canada@gmail.com http://www.bidwin.org Wakaw, SK.

DWEIN TRASK REALTY INC. Langham south NW-32-38-07-W3 2017 FMV assess \$123,100 on Struan Grid \$264,900; Langham Cee Pee grid E 1/2 06-39-08-W3 2017 assess. \$299,600 level flat and relatively stone free \$799,900. Call Dwein for details 306-221-1035, Saskatoon, SK.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

TOM@SASKFARMAND.COM RM Torch River. Recreation 138 acres w/White Fox River running through. 30 acres in grain, 60 pasture. Minutes from Tobin Lake. \$165,000. M.L.S. Tom Neufeld 306-260-7838, Coldwell Banker.

FARMLAND FOR SALE by Tender, RM of Argyle #1, 6 quarters. One section: NE NW SE SW of 25-01-30-W1, SE-36-01-30-W1 and SW 36-01-30-W1. Tenders must be received on or before Aug. 31, 2017. Submit written tenders to: Bonner Enterprises Inc, 54 St. Andrews Bay, Emerald Park, SK. S4L 1A1. 306-781-3377, 306-535-7822 Dale. Highest or any tender not necessarily accepted.

LOOKING FOR LAND
w/Aggregate Potential
In Saskatchewan
Call **POTZUS LTD.**
Phone: 306-782-7423
Fax: 306-786-6909
Email: info@potzus.com

BY TENDER: NE 1/4 02-35-15 W2, 145-150 arable ac. Send Tender to: Accent Credit Union, Denise Krockner Commissioner of Oaths, Box 520, Quill Lake SK, S0A 3E0. A certified cheque must accompany the Tender in the amount of 5% of the bid payable to Lawrence Omelian. Highest or any Tender not necessarily accepted. Closing date is September 15, 2017.

KINDERSLEY AREA: 123 acres, 2 homes, 2 shops, Kindersley waterline, cash renter in place. \$695,000. Arlene Boisjoli, Royal LePage Wheat Country Realty, Kindersley, SK, 306-463-4910, 306-460-7785, email royal3@sasktel.net Amy Greenwood, 306-460-8692, amygreenwood@royallepage.ca www.royallepagekindersley.ca

SASKATCHEWAN 6133

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.

5758 acres crop land with home yard, bins and shops for rent for 2018 onward in RM Mount Hope No. 279.
Call: 306-230-1588 or Email: Justin.yin.ca@gmail.com

JUSTIN YIN FARMLAND MARKETING SPECIALIST

TOM@SASKFARMAND.COM Borden 27 acre hobby farm. 2008 1440 sq. ft. home. ICF block basement, outbuildings, pasture, shelterbelts. \$409,000 M.L.S. Tom Neufeld 306-260-7838, Coldwell Banker.

RANCH FOR SALE between Glaslyn & Cochin, SK. 17 quarters of hay land & pasture land, will hold 200 cows. 306-342-4433.

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 wheat, mustard, barley & peas. Full line of farm and sawmill equipment also available Will separate. Reg Hertz, 306-865-7469.

Acres of Expertise.
HAMMOND REALTY
Kevin Jarrett (306) 441-4152
kevin.jarrett@HammondRealty.ca
HammondRealty.ca

TOM@SASKFARMAND.COM RM of McCraney. 958 acres of good quality cult. dirt. Average assess. \$124,000/quarter. Tenant (2017). Will sell individual quarters. \$930,000 M.L.S. Tom 306-260-7838.

RM BENSON #35: For rent or crop share 80 acres hayland, brome/alfalfa mix for baling. For information call 306-931-6660.

ID#1100582 GOVENLOCK, SK: 5900 acre Ranch in SW Saskatchewan only 15 kms from the Alberta-Sask border and 40 kms from the USA. Just North of Highway junctions 13 and 21. 4892 acres deeded and 1012 acres government lease. Comes with good 4 bedroom home, corrals, heated calving barn & massive steel shop that the sellers will finish with metal clad walls, roof and doors. Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com

SASKATCHEWAN 6133

FARMLAND WANTED
NO FEES NO COMMISSIONS

PURCHASING: SINGLE TO LARGE BLOCKS OF LAND. PREMIUM PRICES PAID WITH QUICK PAYMENT.

Many References Available
A TOTAL OF 590 QUARTER SECTIONS SOLD ACROSS SASKATCHEWAN!

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FARM BOY REALTY

SASKATCHEWAN 6133

2560 acres crop land for rent for 2018 onward in RM Southey No. 219.
Call: 306-230-1588 or Email: Justin.yin.ca@gmail.com

JUSTIN YIN FARMLAND MARKETING SPECIALIST

6 QUARTERS FOR lease or rent: RM 341, NE35-32-26W2. NW35-32-26W2. SE35-32-26W2. NE03-33-26W2. SE03-33-26W2. SW03-33-26W2. Please tender bids to wgeorge@sasktel.net or Box 63, Young, SK, S0K 4Y0. For more info: 306-290-7790.

NORTH BATTLEFORD AREA: 644 acres riverfront property, 2 log cabins, fenced, fantastic views, \$875,000; Near Elrose: 4 quarters deeded, 8 quarters leased, new home, complete yardsite w/outdoor riding arena. \$1,850,000; South of Kindersley: 160 acres with 2880 sq. ft. log home, shop, garage, beautiful property, \$990,000. Could be subdivided as an acreage, \$690,000; South of Kindersley: 17.3 acres complete yardsite, beautiful view, \$279,000. Call Arlene Boisjoli, Royal LePage Wheat Country Realty, Kindersley, SK, 306-463-4910 or 306-460-7785. Email royal3@sasktel.net View listings at www.royallepagekindersley.ca



HAMMOND REALTY RM 250 Last Mountain Valley. Beautiful acreage with a view of Last Mountain Lake. Well-maintained 4 bdrm. bungalow w/open concept kitchen and dining room, double attached garage, machine shed, workshop, barn, garden sheds and single detached garage. 159 acres with an additional 3 quarters of land available. Perfect for livestock. Alpaca herd is negotiable. M.L.S. SK602798. \$663,000. Call Anne Morrow 306-435-6617.

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. M.L.S. @1701622. www.north-star.ca

ORGANIC FARM, 145 acres, 3296 sq. ft. home, potential for various business ventures! Call 204-937-3160, Boggy Creek, MB. Web page: boggycreek.ca

FARMLAND WANTED
NOA REALTY
112 Reindeer Road
Saskatoon, SK S7K 4R3
306.230.1588
306.361.8926
justin.yin.ca@gmail.com

MANITOBA 6134

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. Corral. M.L.S. #1627477, Karen Goraluk, Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

RM OF GILBERT PLAINS, Taking offers for the sale of the following 5 quarters (approx. 700 acres cult.): NW-33-26-22-W1; SW-32-26-22-W1; NE-18-27-22-W1; SW-17-27-22-W1; NW-17-27-22-W1. Yard with hydro., 40'x60' insulated workshop, 51'x82' quonset shed, approx. 22,000 bu. grain storage, older 1-1/2 storey house. Highest or any offer not necessarily accepted. Consideration may be given to selling the above quarters separately. For more info. please call 204-334-9986.

BINSCARTH, MB - 142 ac. of land in and overlooking the beautiful Assiniboine Valley! 3090 sq.ft. house w/walk-out. Detached double car garage. 50'x80' insulated shop, in floor heat, 400 amp. single phase power. 28'x80' insulated shop. 40'x60' storage shed. Close to Esterhazy potash mines. M.L.S.#1704293. Karen Goraluk, Salesperson, 204-773-6797. NorthStar Insurance & Real Estate, north-star.ca

FARMLAND FOR TENDER. SW-11-16-27, SE-11-16-27, SW-14-16-27, NE-22-16-27, SE-26-16-27, SW-23-16-27, NW-23-16-27 with yardsite, 58,650 bu. grain storage, two 40x60 quonsets. Tenders ending Oct. 6/17 mailed to Wady Farm Inc, Box 459, Birtle, MB. R0M 0C0. Highest or any tender not necessarily accepted. 204-773-0535, Birtle, MB. gtwady@gmail.com

PASTURES 6136

MULCHING - TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

WANTED 6138

GENERATIONAL FARMERS LOOKING to buy crop, beef, or mixed farm. Land alone or ongoing operations considered. Reply to 4836503@gmail.com

WANTED: GRAIN LAND for rent in North-ern/Central Saskatchewan. Call Mike 306-469-7741, Big River, SK.

ACREAGES 6139

20 ACRES w/1742 sq. ft. 3 bdrm., 2.5 bath house, full basement, 300 sq. ft. screened room, 2 side(s) wrap-around deck, 3 car garage, wired, 2 sheds, open end shelter, large barn, some bush, approx. 7 acres landscaped. For sale by owner, \$325,000 OBO. Call 306-886-2227 or 306-852-8483, Bjorkdale, SK. Email: bjork@sasktel.net

36.9 ACRES of PRIME LAND just 2 kms. from the city of Swift Current, SK. 3700 sq. ft. home w/high end finishes. Equestrian paradise w/indoor & outdoor riding arena, hay barn, 12 horse stables and paddocks. Highly sought after development location. M.L.S. #SK614344. Phone Bobbi Tienkamp, Re/Max of Swift Current, 306-714-2853.

COMFY COUNTRY LIVING: 4-level split home, double car garage, 40 ac., 2.5 kms from Wilkie, SK. \$294,000. 306-918-7264.

CENTRAL ALBERTA, 10 acres, 1974 mobile with 3 bedrooms, 1.5 bathroom, great location, close to the town of Viking, now reduced to \$119,000. M.L.S. #CA0072708, Call Barb Christian, Swan City Realty, Email: brccrver1@gmail.com

RECREATIONAL VEHICLES

ALL TERRAIN VEHICLES 6161

4 WHEEL BOMBARDIER Rotax, 250 hrs, like new, \$4000; Wanted: 14' bumper hitch dump trailer. 306-304-1959, Goodsoil, SK.

BOATS/WATERCRAFT 6162

1991 17 1/2' CHARGER (Glastron) fibre glass, v-haul, open front, 150 HP Evinrude outboard, tilt trim, livewell, travel tarp, HD trailer, \$6800. 306-238-4590, Goodsoil SK

1999 FOUR WINNS 18' inboard/outboard, 5L w/Volvo drive, has frost damage, \$1000. Call 780-221-3980, Leduc, AB.

CAMPERS/TRAILERS 6164

1997 CENTURION TANDEM 5th wheel trailer, sleeps 6, AC, awning, etc. good cond., \$7500. 306-715-0196 Saskatoon SK

MOTOR HOMES 6166

2010 TRIPLE E CLASS C motorhome, 24' with slide-out, fully equipped, 18,000 kms, \$60,000; 2002 Suzuki Grand Vitara 4 door 4x4, SUV, V6 auto., loaded, signal lights for towing, 151,643 kms, \$3200. 306-452-3555, Redvers, SK.



2017 THOR ACE 27.2 Class A Gas, pet friendly, #H0A07707. \$109,000. Call 1-844-488-3142 or shop online 24/7 at www.allandale.com

Crohn's and Colitis Canada
Crohn et Colite Canada
306-664-4420
www.crohnsandcolitis.ca

2014 FLEETWOOD JAMBOREE Sport motor home, Model 31M, 6330 miles, like new condition. 306-287-3767, Watson, SK.

2007 CLASS A Triple E Embassy 34', gas, 23,000 kms, V10 on Ford chassis, hyd. leveling system, lots of extras, \$55,000 OBO. Call 306-533-9017, White City, SK.

RENTAL/ACCOMODATIONS

APARTMENTS/HOUSES 6210

WANTED: FARM COUPLE to spend winter (Nov.-March) in our well equipped beautiful home in Saskatoon, SK. Lakeview area. References required. Call 306-374-9204.

APARTMENTS FOR RENT, Langham, SK. Quiet, well maintained, close to schools. 1 and 2 bedrooms starting at \$650. Contact Blaise at 306-349-9351.

RESTAURANT SUPPLIES 6320

RESTAURANT STYLE BOOTH seating, steel frame, plywood seats and tops, exc. cond., 306-664-3377, Saskatoon, SK.

SAWMILLS 6360

WOOD-MIZER PORTABLE SAWMILLS, eight models, options and accessories. 1-877-866-0667. www.woodmizer.ca

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SCALES 6380

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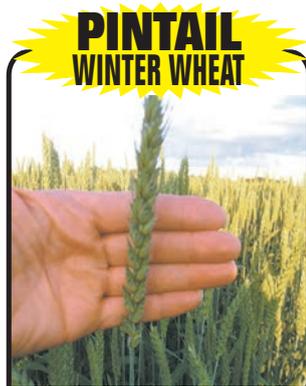
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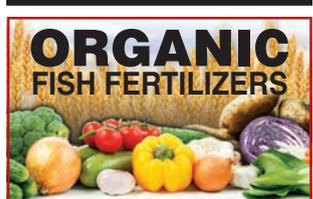
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FARM HELPER REQUIRED on grain farm. Class 1, farm experience and some mechanical skills would be an asset. Wages depending on experience. Phone or text 306-228-8333, Tramping Lake, SK.

LAURIER GRAZING CORPORATION is offering contract for tender of Management of Laurier Grazing Corporation contract commencing April 1, 2018. Yearly contract with review. Pasture consists of 37,000 acres. Grazing allotments approximately 2100 adult head. Tender closes October 1, 2017. Lowest or any tender not necessarily accepted. Successful applicants will be contacted for interview(s). For more information, and/or to submit a tender, contact: Laurier Grazing Corporation Chairman - Blaine Ward, Box 3, Colgate, SK, S0C 0V0. 306-456-2638.

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FARM/RANCH 8016

HARVEST HELP WANTED: General farm help to start immediately until end of Harvest. Swathing, combining, possible grain hauling, working independently, good problem solving skills. 1A license an asset, but not required. Mechanical abilities also an asset. Wage determined by experience. Accommodations provided. Call Dennis for more info 306-237-4442, Areele, SK.

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RANCH HAND REQ'D: Machinery & livestock experience, clean driver's abstract, comes with house, Millarville, AB. Email resume w/references to: uxlranching@gmail.com

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FARM HAND NEEDED: PB cattle operation looking for help from Sept 1 to May 1. 306-307-0055, 780-214-2273, Marwayne, AB. www.familytiesangus.com

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FARM/RANCH 8016

WORKER REQUIRED for cow/calf back grounding operation. Housing avail. Prefer someone w/holistic management, TEPAR, ranching for profit, or similar training. Fax resume to: 780-755-2550, Edgerton, AB.

FARM/RANCH 8016

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Cal Longson swaths a rye field south of Longview, Alta., Aug. 9. | MIKE STURK PHOTO

A bit ahead of schedule

Harvest snapshots | After a hot, dry summer, harvest is underway in many parts of the southern Prairies. Rain in early August may have come just in time for some, while others say yields and grades will be down because of the drought.



A hot air balloon passes in front of the sun as a farmer loads rye from his combine onto a grain truck southwest of High River, Alta., Aug. 11. Red sunsets are a common sight this summer, caused by smoke from B.C. forest fires. | MIKE STURK PHOTO



Hugh Greaves decided to hedge against unpredictable weather and set to work baling second cut alfalfa silage near Deerwood, Man., Aug. 13. | JEANNETTE GREAVES PHOTO



The sunflower fields east of Roseisle, Man., look to be in full bloom on Aug. 14. Many fields are drying down for harvest. | JEANNETTE GREAVES PHOTO

AERIAL IMAGERY RESEARCH

Study uses drones to assess hail damage, yield losses

Cameras using five wavelengths look at yellowing and signs of regrowth

BY WILLIAM DEKAY
SASKATOON NEWSROOM

MELFORT, Sask. — A study is underway to see if aerial imagery captured by drones could be used to efficiently assess hail damage in canola and accurately predict yield loss following hail.

Lena Syrovoy, a research officer in the agronomy program at the University of Saskatchewan, and graduate students have been working with National Crop Insurance Services (NCIS) in Kansas for years assessing hail damage in canola.

According to Saskatchewan Municipal Hail Insurance Association, about \$41.5 million was paid out in hail insurance claims in the province in 2015.

Syrovoy said hail damage assessments carried out by insurance adjusters are time consuming and involve subjectivity and uncertainty.

NCIS is funding the U of S research and works with the regional hail insurance providers.

Last year, researchers began collecting drone imagery.

“We’ve been helping them to work on their adjusting models to predict how much yield loss you will get in canola after different amounts of hail damage,” Syrovoy said July 26 during a joint field day hosted by the Northeast Agriculture Research Foundation and Agriculture Canada in Melfort.

We’ve been looking at different timings of hail damage, so during flowering, when the flowering stems or racemes are broken off and how much is broken off.

LENA SYROVOY
UNIVERSITY OF SASKATCHEWAN RESEARCHER

About 100 producers, agronomists and students were toured through test plots.

“We’ve been looking at different timings of hail damage, so during flowering, when the flowering stems or racemes are broken off and how much is broken off,” she said.

To recreate the destructive powers of hail, students use a hedge trimmer to whack off various lengths of raceme at 25, 50, 75 and 100 percent. There are five weekly timings starting from onset of bolting.

Data is then collected at the end to determine damage and yield loss.

Last year, using a drone equipped with a multi-spectral camera, researchers flew over the crop several times looking mainly at regrowth following the researcher-inflicted plant damage.

“We looked at the vegetative indi-



Ti Zhang, a PhD student from the University of Saskatchewan, flies an unmanned aerial vehicle over canola research plots east of Saskatoon to study the effect of nitrogen fertility on flowering, leaf area, pod, and crop yield using drone-based phenomics. | UNIVERSITY OF SASKATCHEWAN PHOTO

ces to see if we could use them to predict how much yield loss we would have,” Syrovoy said.

This year, researchers are looking closer to when the damage occurs to replicate the realistic time an adjuster would come to the field.

“We’re expecting that probably you need different vegetative indices to look at damage because the plants will still be flowering. So we’d probably want to look more at the amount of yellow to see the flowers and how much flowers are cut off and then later on we’re looking at green regrowth and different shades of green,” she said.

The different indices use the light reflected off the plants at varying wavelengths.

They are calculated using images captured by five different cameras with each simultaneously taking pictures in different wavelengths of light: blue, green, red, red edge and near infrared.

Pictures from the flight are then stitched together to calculate the different indices.

She said it’s like Trimble’s Green Seeker, which assesses greenness of crops for fertilizer recommendations. It uses NDVI (normalized difference vegetation index), which is one possible index.

“(However), with this camera with five different wavelengths, you could actually calculate a whole bunch of different indices with all those different wavelengths and that could maybe give you a clearer picture of what you’re seeing in the field than what you would see with NDVI,” she said.

“So we’re looking at what indices might be the most appropriate to access damage.”

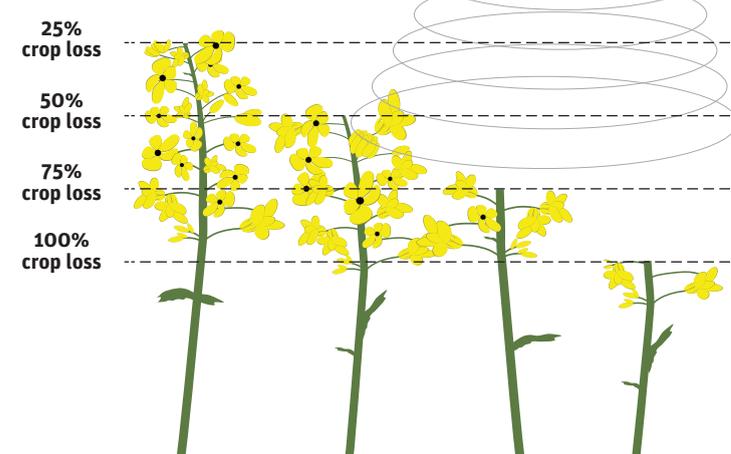
Syrovoy said the collected information could benefit adjusters and farmers. In addition to assessing damage and determining yield

CAN DRONES DETECT CROP DAMAGE?

Researchers at the University of Saskatchewan cut canola plants at various heights to represent yield loss from hail damage and then sent a drone over the field weekly to see if it could detect differences in the crop densities.

They conducted in-person field scouting after the initial “hailstorm” damage and then used a drone to fly over the crop to check its triangular greenness index (TGI) values later in the season to monitor regrowth. TGI values use reflective lightwaves to show the amount of chlorophyll in plants and are a good indication of crop health.

The U of S researchers also plan to use the drone to check for initial hail damage, but those results are not available yet.



Source: University of Saskatchewan | MICHELLE HOULDEN GRAPHIC

after hail, she said producers could use the technology to predict yield after animal tramping and lodging.

“I think, realistically, what it’s more going to do is help us to target sampling. So it will allow us to identify zones that look different, that look better or worse than others, that can help a person doing

adjustments go out and target their note taking, target their assessment,” she said.

“It could also help a farmer in the same way to see which areas were harder hit and which ones look better. Go out, boots on the ground and have a look. It will save a lot of time.”

william.dekay@producer.com

ONTARIO

New facility may change beef research

BY MARY BAXTER
FREELANCE WRITER

The fate of the beef research program at one of Ontario’s research stations remains in doubt as development begins on a new facility near Guelph.

Much of the New Liskeard cow-calf herd could be consolidated with the herd already at the research station in Elora, about 20 kilometres north of Guelph, once a new facility planned for there is up and running, said Wayne Caldwell, interim associate vice-president of research at the University of Guelph.

The university operates 10 provincially owned research stations on behalf of Ontario Agriculture.

Construction on the new facility is expected to start this fall.

Caldwell estimated it would cost about \$15 million to build. The provincial government has contributed \$12.4 million to its development and Beef Farmers of Ontario (BFO) has contributed \$1.5 million. The federal government is contributing the remainder of the budget.

The facility is expected to house about 300 cows, about equal to the combined number of animals housed in the current Elora facility and at New Liskeard.

“With New Liskeard there will continue to be trials... at least that’s the intention based on the discussions that have occurred with BFO,” Caldwell said.

It’s anticipated the northern station will host seasonal grazing trials.

The new Elora facility will primarily be used to research the cow-calf industry, including genomics, feeding trials and nutrition analysis.

According to a 2014 information sheet about the university and provincial government partnership’s beef research program, BFO owns the northern cow-calf herd, which numbers about 150 cows and their calves.

Research there in the past has focused on beef quality, feed efficiency and genomics.

In an email response to questions, LeaAnne Wuermli, BFO’s communications manager, said discussions surrounding the operational plan for New Liskeard’s beef program are underway. What has been established is that a beef focus at that station will remain. Provincial commitment to that focus, as well as to the increased capacity at Elora, “will ensure we are well positioned to address beef research priorities from a regional, provincial and national scale.”

Caldwell said the new Elora facility replaces the current southern Ontario research facility that was constructed in the 1960s and is outdated.

Wuermli noted the new facilities would help ensure that “we maintain the capacity to support and retain the group of talented and enthusiastic young researchers at the University of Guelph.”

The target for completion of the new facility is 18 months after construction begins.

HARVEST OUTLOOK

Durum forecasters expect strong markets, good prices

BY TERRY FRIES

COMMODITY NEWS SERVICE CANADA

For farmers able to nurse their durum across the finish line this harvest, prices in the winter could make it worth their while.

Withering heat and dry conditions have taken a toll on durum yields, especially in southern regions of the Prairies, but analysts such as John Duvenaud of the Wild Oats Grain Market Advisory have big hopes for the quality.

"Durum is one of the big success stories this year," Duvenaud said.

While he cautioned it is still too early to assess the crop definitively with harvest not yet started in most areas, he said yields appear about average.

That's a long ways off last year's larger-than-normal harvest, but 2016 also saw growers facing quality problems.

With durum crops also reduced in the United States, the European Union, Kazakhstan and Syria, that should support prices at current levels of about \$10 per bushel.

"I would sell some off the combine; I would sell incrementally," he said.

"Ten bucks a bushel, nothing wrong with that. So move some out, but I wouldn't be super aggressive about it. I would dole it out through the year."

Neil Townsend at FarmLink said he's also bullish about the year ahead.

A Statistics Canada report re-



Analyst says durum is one of the big success stories this year and expects exports to be brisk. | FILE PHOTO

leased in June showed that durum seeded acreage this spring was about 15 percent lower than last year.

Add to that this year's weather issues and it should further weigh on supplies.

However, Townsend said that because much of last year's large crop came in at lower grades, stockpiles disappeared more quickly than usual as more went for live-stock feed or was discarded.

Carry-in stocks for this growing

season were pegged at 2.1 million tonnes by Agriculture Canada, while FarmLink has a slightly lower carry-in at 1.86 million tonnes.

He said supply could have a small cooling effect on prices.

"Just to show that's the highest carry-out stocks since 2009-10, so fairly healthy, and that kind of gives just a little buffer for what's being produced now," he said.

However, he projected that ending stocks for 2017-18 would be below one million tonnes.

"The last time they were like that was 2007-08, and ... we had explosive durum prices at that time," he said.

Townsend said he doesn't think prices are heading up to those levels again, but they should stay strong for top grades.

"It's a smaller pile of better stuff," he said.

North Dakota and Montana durum is also shrivelling under heat, he added, which should prompt U.S. outlets to become eager buyers of

Canadian durum throughout the marketing year.

On the downside, he said better-than-average durum crops in Algeria, Tunisia and Morocco, which represent the largest durum importers, may encourage those nations to reduce imports.

As well, he said Russia remains a relative unknown. Although it has reported a good wheat crop, it's not known how much of that is durum.

"But if the price is right, you'll see lots of arbitrage opportunities," Townsend said.

Farmer behaviour may yet play a role as well, he added.

"Particularly in the U.S., in some of the hard-core durum areas particularly, they (farmers) will hold that stuff very dearly," he said.

"It's hard to extract it from them."

However, many buyers have been aware of that situation for some time already, Townsend said, and have forward contracted, which allows them to better choose their buying opportunities.

"I think prices are going to be strong," he said. "I don't know if they'll be as strong as the weather market extremes."

Townsend predicted that durum prices may slip in October, as often occurs following harvest, but then pick up again in February, March and April, when U.S. lake shipping opens up.

March is also when North Africa nations start their new season, and any difficulties there would also be reflected in the market.



Photo: #HARVEST16 photo contest winner Kim MacDonald Cameron



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CROP REPORT

ALL CONDITIONS AS OF AUG. 18. VISIT WWW.PRODUCER.COM REGULARLY FOR UPDATED CROP REPORTS



Hutterites from the MacMillan Colony west of Cayley, Alta., combine a pea field near the colony Aug 9. | MIKE STURK PHOTO

rainfall has lodged crops and flooded fields.

ALBERTA

SOUTH

- Twenty-five percent of crops are in the bin and well ahead of the five year average of nine percent.

- About 33 percent of crops are in good to excellent condition, but down from the five year average of 68 percent.

CENTRAL

- Most areas received five mm of rain, but more moisture is needed to fill late seeded crops.

- About 50 percent of crops are rated as good to excellent.

NORTHEAST

- Precipitation varied from five to 90 mm.

- Crop conditions are rated at 79 percent good to excellent.

NORTHWEST

- Crop conditions are rated at 57 percent good to excellent.

PEACE

- Less than one percent of crops are combined and about two percent of canola and peas are in swath.

- Crop conditions are rated at 59 percent good to excellent and on par with the five-year average.

MANITOBA

SOUTHWEST

- Precipitation of as much as 77 millimetres improved pastures and will help extend grazing.

- Winter wheat and fall rye harvest continues, pea harvest has just started and canola is being swathed. Second cut alfalfa is being cut in several areas.

NORTHWEST

- Rainfall ranged from six to 35 mm, and high daytime temperatures have quickly advanced crops.

- Harvest has begun for winter wheat, barley, cereal silage and greenfeed. Native hay harvest and second cut alfalfa are being put up with yields varying from poor to good.

CENTRAL

- Precipitation was variable with most areas receiving less than 10 mm, and sunscald is making crops look riper than they are.

- Combining continues for fall rye, winter wheat, peas and forage seed crops.

- Pastures are turning brown, and supplemental feeding may be required.

EASTERN

- Rainfall ranged from three to 35 mm, and crop condition varies from good to excellent.

- Soil moisture conditions on cropland are rated 80 percent adequate and 20 percent short, while hay and pastures are 60 percent adequate, 20 percent short and 20 percent very short.

- Pre-harvest applications are almost complete, and early seeded oats and wheat are being harvested.

INTERLAKE

- Precipitation varies from two to 30 mm, and crops continue to advance quickly with high daytime temperatures.

- Winter wheat and fall rye are being harvested and show very low incidence of ergot.

- Most of the barley has been harvested, and yields are in the 80 to 100 bushel per acre range with good quality.

SASKATCHEWAN

SOUTHEAST

- Eleven percent of the crop is in the bin, while 10 percent is swathed or ready to straight-cut, which is well ahead of the five-year average of six percent combined and 11 percent swathed or ready to straight-cut.

- Precipitation varied up to 22 millimetres, which will benefit later seeded crops, but more is needed for pastures and hayland.

SOUTHWEST

- Harvest progress is most advanced in the province with 17 percent of the crop combined and 11 percent swathed or ready to straight-cut.

- Rainfall ranged from trace amounts to 39 mm but will be of little benefit to those crops that are rapidly drying down or have already been combined.

EAST-CENTRAL

- Harvest is underway with one percent of the crop combined and four percent swathed or ready to straight-cut.

- Precipitation varied from trace amounts to 30 mm.

WEST-CENTRAL

- Three percent of the crop is in the bin and seven percent is swathed or ready to straight-cut.

- Rainfall ranged from trace amounts to 43 mm, which will help some later-seeded crops fill.

NORTHEAST

- Less than one percent of the crop is in the bin, and desiccation is underway in some pulse crops.

- Rainfall ranged from trace amounts to 12 mm.

NORTHWEST

- Less than one percent of the crop has been combined, but crops are ripening quickly, and swathing of canola and desiccation of pulse crops continue when weather permits.

- Precipitation varied up to 48 mm, which will help later-seeded crops fill, although heavy

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Acceleron® seed applied solutions for corn (fungicides only) is a combination of three separate individually-registered products, which together contain the active ingredients metalaxyl, prothioconazole and fluoxystrobin. **Acceleron® seed applied solutions for corn (fungicides and insecticide)** is a combination of four separate individually-registered products, which together contain the active ingredients metalaxyl, prothioconazole, fluoxystrobin, and clothianidin. **Acceleron® seed applied solutions for corn plus Poncho®/VOTIVO™ (fungicides, insecticide and nematocide)** is a combination of five separate individually-registered products, which together contain the active ingredients metalaxyl, prothioconazole, fluoxystrobin, clothianidin and *Bacillus firmus* strain I-1582. **Acceleron® Seed Applied Solutions for corn plus DuPont™ Lumivia® Seed Treatment (fungicides plus an insecticide)** is a combination of four separate individually-registered products, which together contain the active ingredients metalaxyl, prothioconazole, fluoxystrobin and chlorantraniliprole. **Acceleron® seed applied solutions for soybeans (fungicides and insecticide)** is a combination of four separate individually registered products, which together contain the active ingredients flupyrroxad, pyraclostrobin, metalaxyl and imidacloprid. **Acceleron® seed applied solutions for soybeans (fungicides only)** is a combination of three separate individually registered products, which together contain the active ingredients flupyrroxad, pyraclostrobin and metalaxyl. **Visivio™** contains the active ingredients difenoconazole, metalaxyl (M and S isomers), fludioxonil, thiamethoxam, sedaxane and sulfoxaflor. **Acceleron®**, **Celt-Tech®**, **DEKALB and Design®**, **DEKALB®**, **Genuity®**, **JumpStart®**, **Monsanto BioAg and Design®**, **Optimize®**, **QuickRoots®**, **Real Farm Rewards™**, **RIB Complete®**, **Roundup Ready 2 Xtend®**, **Roundup Ready 2 Yield®**, **Roundup Ready®**, **Roundup Transorb®**, **Roundup WeatherMAX®**, **Roundup Xtend®**, **Roundup®**, **SmartStax®**, **TagTeam®**, **Transorb®**, **VaporGrip®**, **VT Double PRO®**, **VT Triple PRO®** and **XtendiMax®** are trademarks of Monsanto Technology LLC. Used under license. **BlackHawk®**, **Conquer®** and **GoldWing®** are registered trademarks of Nufarm Agriculture Inc. **Valtera™** is a trademark of Valent U.S.A. Corporation. **Fortenza®** and **Visivio™** are trademarks of a Syngenta group company. **DuPont™** and **Lumivia®** are trademarks of E.I. du Pont de Nemours and Company. Used under license. **LibertyLink®** and the **Water Droplet Design** are trademarks of Bayer. Used under license. **Herculex®** is a registered trademark of Dow AgroSciences LLC. Used under license. **Poncho®** and **VOTIVO™** are trademarks of Bayer. Used under license.



Farm succession: how to start well, with your first family meeting

Transitioning a farm or ranch operation from one generation to another takes time. An initial family meeting will help set you up for success. Here are some tips.

Set a date. Instead of discussing succession informally at family gatherings or around the dinner table, schedule a one- to two-hour meeting at a neutral location for a specific date and time.

Invite all stakeholders. Who attends? Every family member with a stake in the future of the operation, whether or not they're actively involved.

Keep it achievable. You'll have several meetings during this process. Setting a realistic agenda will help keep plans and people on track.

Get everyone's expectations on the table. Each participant should make clear what they expect to be doing after the succession. Be specific.

Write it all down. Take notes to capture what was discussed and, if anything, agreed to. Circulate the notes after the meeting to keep everyone informed (and accountable).

Schedule the next meeting. Build on the positive momentum of this first meeting. Set a date to reconvene, and repeat until your succession plan is complete.

"Succession is a process that's about the future movement of people and assets," says Scott VanEngen, Financial Planning Specialist with RBC® Wealth Management. "We need to ask, where do our people and our assets need to be in the future?"

What's your next move? We're ready to help.

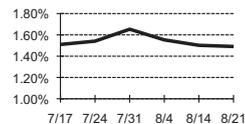
Visit rbc.com/succession to find out how an RBC® agriculture banking specialist can play a role on your succession planning team.



AG FINANCE

CDN. BOND RATE:

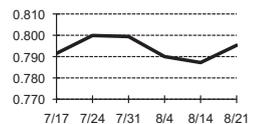
1.491%



Bank of Canada 5-yr rate

CDN. DOLLAR:

\$0.7953



Aug. 21

AGFINANCE EDITOR: D'ARCE MCMILLAN | Ph: 306-665-3519 F: 306-934-2401 | E-MAIL: DARCE.MCMILLAN@PRODUCER.COM | TWITTER: @DARCEMCMILLAN

INPUT DEALERSHIP

Independent ag retailer debuts

Shareholder-owned business says the ability to shop the marketplace benefits growers

BY BARB GLEN

LETHBRIDGE BUREAU

TABER, Alta. — Southern Alberta has a new player in the crop inputs business.

Independent Crop Inputs officially opened its doors at a new facility just off Highway 3 west of Taber.

Owned and operated by six shareholders, the business is one of few independent crop protection and nutrition input sellers in southern Alberta, said shareholder and managing director Vaughn Penner.

"There was a recognition by producers, specifically in Taber and surrounding areas, that it would be helpful to have an independent, full service ag retailer present in the community again," he said.

"It's not a new idea, but there were no longer any independents that were full service ag retailers ... so this started to become ... a clear opportunity."

Taber area farmer Martin Johnson provided the 10.44 acres of land for the new facility, which includes one building that houses offices, chemical storage, seed storage and a potato lab. A separate structure contains fertilizer storage plus the blending and load-out facility.

Johnson is one of the shareholders, as are Bruce Fletcher, agronomist Hal Reed and location manager Randy Brehaut.

Construction began last year and



Vaughn Penner, one of six shareholders in Independent Crop Inputs, discusses the bin and fertilizer blending system. | BARB GLEN PHOTO

the business officially opened July 26. The fertilizer plant has 7,350 tonnes of capacity and eight separate bins for product and a blending facility that can mix 300 tons per hour.

ICI also provides agronomy services on a limited basis with plans to increase that aspect of the business in 2018. There are six full-time

employees plus seasonal staff.

Penner said full-service independent dealers are becoming a rarity in the region. Two similar businesses, in Lomond and Pincher Creek, were recently bought by larger companies.

"I think as an independent, our ethos is very much that," said Penner.

"We are in a position to shop the entire marketplace for product both on the chemical side and on the fertilizer side. We're not obligated to any one supplier.

"I think when products are not tied to a business, producers get a more unbiased outcome."

barb.glen@producer.com

CIVIL LAWSUIT

Bribery scandal aftermath continues for JBS

The lawsuit alleges that bribery by the Batista family sent share prices down



WESLEY BATISTA
CHIEF EXECUTIVE OFFICER

SAO PAULO, Brazil (Reuters) — JBS SA will proceed with plans to list a U.S.-based unit when market conditions allow while wrestling with a shareholder revolt over the role of the controlling Batista family in a massive graft scandal.

Chief executive officer Wesley Batista said JBS Foods International Inc. could be listed by the end of next year, once parent JBS finalizes US \$1.9 billion in asset sales to cut debt and restore investor confidence.

His remarks came after the Brazilian development bank BNDES, whose investment arm is JBS' No. 2 shareholder, said it would endorse a civil lawsuit against management and the billionaire Batista family.

The lawsuit alleges that their role

in a corruption scheme led to heavy losses in JBS share value.

"It is not a matter of if but when," he said of the unit's initial public offering plan.

JBS Foods includes beef brands Swift and Pilgrim's Pride, among other subsidiaries.

BNDES Participações SA, which has about a 21 percent stake in JBS, will seek Batista's ouster at a Sept. 1 shareholder meeting.

The lawsuit also targets his brother, Joesley Batista, who is also a

board member, former executives and J&F Investimentos SA, which oversees the family's 42 percent stake in JBS.

In May, the Batista brothers signed a plea deal with Brazilian prosecutors after admitting to bribing 1,900 politicians over the course of a decade. Since then, the brothers have personally negotiated the short-term refinancing of \$6.6 billion in JBS debt and the sale of several assets.

Following the plea deal, JBS's board created a compliance division and hired a former U.S. Department of Agriculture official to bolster transparency.

JBS recently reported quarterly net income that was about half the amount forecast by analysts.

Still, earnings before interest, tax, depreciation and amortization rose 30 percent from a year earlier to \$1.2 billion, beating an average estimate of \$1.08 billion.

According to Thiago Duarte, an

analyst with Banco BTG Pactual, results reflected a strong performance of the booming U.S. beef business.

Batista expects margins to return to historical double-digit levels.

JBS is on track to reduce debt faster than investors anticipated. Net debt could drop to 3.5 times annual EBITDA by December, Batista said, noting that those debt levels had not been expected until the end of 2018.

The company is also in advanced talks to sell Moy Park Ltd. in Europe and U.S. unit JBS Five Rivers Cattle Feeding LLC, following the sales of Argentine assets and a stake in dairy producer Vigor Alimentos SA, Batista said.

JBS has also hired lawyers to deal with a potential U.S. criminal investigation of its corporate practices, he said, adding that "none of our U.S. subsidiaries or executives committed any wrongdoing."

AG STOCKS AUG. 14-18

Canadian inflation rose in July to an annualized rate of 1.2 percent, matching analyst predictions. For the week, the TSX fell 0.6 percent, the Dow shed 0.8 percent, the S&P 500 lost 0.7 percent and the Nasdaq fell 0.6 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	41.27	41.26
AGT Food	TSX	23.91	23.71
Bunge Ltd.	NY	74.95	77.27

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.69	0.76
Cervus Equip.	TSX	13.14	12.83
Input Capital	TSXV	1.85	1.90
Rocky Mtn D'ship	TSX	11.02	11.29

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	34.46	34.80
Hormel Foods	NY	34.09	34.01
Lamb Weston	NY	45.27	44.81
Maple Leaf	TSX	34.85	34.26
Premium Brands	TSX	99.35	89.89
Tyson Foods	NY	65.14	65.55

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	57.75	57.75
AGCO Corp.	NY	66.61	68.82
Buhler Ind.	TSX	4.30	4.16
Caterpillar Inc.	NY	113.92	112.85
CNH Industrial	NY	11.22	11.35
Deere and Co.	NY	117.31	126.70

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	122.22	124.67
BASF	OTC	95.79	94.54
Bayer Ag	OTC	126.82	124.85
Dow Chemical	NY	63.40	63.26
Dupont	NY	81.18	80.97
BioSynt Inc.	TSXV	9.00	8.53
Monsanto	NY	116.87	116.55
Mosaic	NY	19.86	20.34
PotashCorp	TSX	21.68	22.23
Syngenta	ADR	91.88	92.05

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	100.00	100.87
CPR	TSX	191.37	195.32

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.

Food firms attend Seoul trade show

Five Alberta companies were part of a recent trade mission to the Seoul Food trade show in Seoul, South Korea.

The mission included representatives from Canadian Rocky Mountain Beef, Nature's Best Foods, Burnbrae Farms, Fieldberg Farms and the Spice Chica.

The program included store tours, an exporter education session, a showcase for companies to engage directly with pre-screened buyers and a networking reception. Most participants indicated they were able to generate leads and expect to achieve sales as a result of their attendance.

ELIGIBLE TAX DEDUCTIONS

Can I deduct that: 'reasonable expenses' to earn income

TAKING CARE OF BUSINESS



COLIN MILLER

A common question I receive is whether a certain expense is deductible for tax purposes on a farm.

A common mistake people make is claiming personal expenses as farm expenses. When this issue is uncovered, it generally results in all

unreasonable business expenses to be denied.

On top of this, penalties can be charged, and if you farm in a corporation, the personal expenses can be added to your personal income, resulting in double taxation.

Therefore, it is important that people know what expenses are deductible to avoid unexpected and unwanted repercussions from the Canada Revenue Agency.

The CRA states that "you can deduct any reasonable current expense you paid or will have to pay to earn business income."

When it comes to reasonability of an expense, there are some simple criteria to consider:

- Is it an expense that will occur, primarily, in an effort to earn

income?

- Would other reasonable farm owners pay such an expense? Ask around to see if others you know have incurred similar expenses for their business.

- Would I allow an arm's length employee to incur this expense for my farm?

If you can answer "yes" to all these questions, then you are on the right track to deduct the expense. However, there are some expenses that may not appear to be as farm related as others. It is important to keep clean records on these expenses to prove the business purpose to the CRA.

Some commonly audited expenses for farms that cause issues include:

- **Business travel expenses:** Any trip that is predominantly taken for non-business purposes is disallowed, so be careful which travel expenses you claim. If you go into town for business reasons, be sure to document the purpose in a logbook. It would be prudent to attach a copy of any business receipts to your logbook related to your travel that day.
- **Business meals and entertainment:** Unless your meal is for the purpose of earning business income, the cost is not deductible. So remember, stopping quickly for lunch by yourself is usually not deductible. However, if it is for business purposes, keep your receipts and docu-

ment who you had lunch with and how it relates to your farm operation.

Throughout the year, keep track of your business expenses, and when the time to file your taxes comes, be sure to only claim reasonable business expenses.

One tip is to track any expenses you are unsure of and ask an accountant about them at the end of the year. This ensures you can receive professional advice and avoid any unexpected issues in the future.

Riley Honess and Steve Scott of KPMG contributed to this article.

Colin Miller is a chartered accountant and partner with KPMG's tax practice in Lethbridge. Contact: colinmiller@kpmg.ca.

INNOVATION AND SKILLS PLAN

AGT's Al-Katib to head up national food strategy table

SASKATOON NEWSROOM

AGT Food and Ingredients Inc. president Murad Al-Katib will chair the federal government's National Agri-Food Strategy Roundtable.

The economic strategy tables are part of Ottawa's Innovation and Skills Plan to create jobs by investing in high-growth sectors in which Canada has a competitive advantage.

Each table will comprise approximately 15 members and be chaired by a business leader.

They will set growth targets for Canadian agriculture and food, identifying sector-specific challenges.

"Canada's historical position as a leader in agriculture and food is well documented," Al-Katib said.

"The strategy roundtable is all about the future of our sector and our ability to truly establish Canada as the driver in the world in providing safe, reliable and environmentally sustainable agricultural products, food and ingredients to the world.

"Society faces the challenge to feed almost 10 billion people by 2050 with income growth in Asia and other emerging markets creating a real opportunity for Canada.

"The global race to protein is on and we will work to ensure that Canada is the first stop on the global protein highway. The integration of our world class research, farmers, processors and exporters into an efficient and reliable supply chain is certain to assist Canada in realizing the economic benefits of the billions of dollars of growth that are available to it by seizing the global food opportunity.

"I am excited and honored to participate and lead this initiative."

Each table will present a report of its findings and recommendations by next summer. They will support the government's goal of doubling the number of high-growth Canadian companies to 28,000 from 14,000 by 2025.

Hear the stories behind the stories.



NEW PODCAST EPISODES ADDED EVERY THURSDAY

Glacier FarmMedia, your go-to source for national agricultural news and information, proudly presents **Between the Rows** – a weekly podcast that delivers the stories behind the stories in Canadian agriculture.

Drawing from our more than 20 print and online brands, our reporting staff discusses the top stories and latest developments in agriculture today. **Between the Rows** also goes beyond the printed story and delves deeper to bring more detail on topics that affect today's producers.



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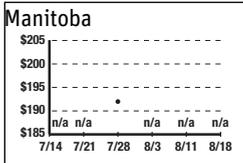
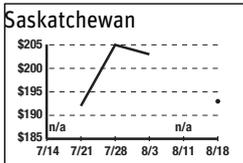
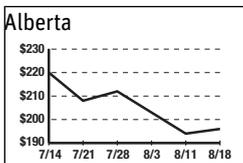


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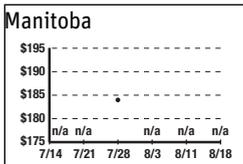
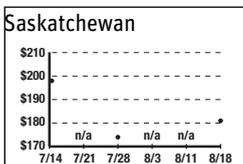
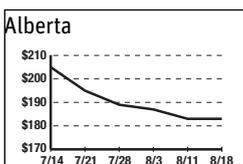
GLACIER farmmedia ((mic)) PODCAST

CATTLE & SHEEP

Steers 600-700 lb. (average \$/cwt)



Heifers 500-600 lb. (average \$/cwt)



Canadian Beef Production

million lb.	YTD	% change
Fed	1,207.2	+2
Non-fed	207.1	+12
Total beef	1,414.4	+4

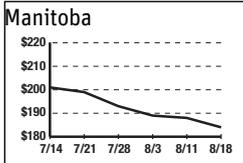
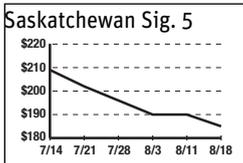
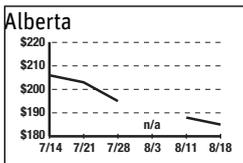
Canfax

EXCHANGE RATE
AUG. 21
 \$1 Cdn. = \$0.7953 U.S.
 \$1 U.S. = \$1.2574 Cdn.

HOGS

Due to wide reporting and collection methods, it is misleading to compare hog prices between provinces.

Index 100 Hog Price Trends (\$/c/kg)



ELEVATOR SHIPMENTS

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous	Year ago	Rail		Previous
	Aug 11-Aug 17	Aug 4-Aug 10			Aug 11 - Aug 17	Aug 4-Aug 10	
Steers							
Alta.	143.25	141.50	142.21	234.50-238.50	233.00-237.50		
Ont.	132.50-147.42	138.89-150.66	140.80	227.00-242.00	244.00-255.00		
Heifers							
Alta.	n/a	139.25	142.87	235.50-238.50	n/a		
Ont.	131.55-141.27	133.38-148.88	138.49	226.00-241.00	244.00-259.00		

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.				Man.				Alta.				B.C.			
	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700
Steers	160-173	177-188	190-209	188-200	no sales	no sales	no sales	no sales	170-182	177-190	180-200	185-205	195-214	194-213	no sales	no sales
Heifers	154-166	162-179	166-187	174-194	no sales	no sales	no sales	no sales	163-172	163-181	174-192	178-200	180-200	190-218	no sales	no sales

Canfax

Average Carcass Weight

	Aug 12/17		Aug 13/16		YTD 17		YTD 16	
	Steers	Heifers	Steers	Heifers	Steers	Heifers	Steers	Heifers
Canfax	885	911	879	914	885	911	879	914
Steers	811	811	812	841	811	811	812	841
Heifers	740	756	741	773	740	756	741	773
Cows	1,036	1,012	1,052	1,025	1,036	1,012	1,052	1,025
Bulls								

U.S. Cash cattle (\$/cwt)

	Steers		Heifers	
	National	Exports	National	Exports
National	109.88	109.76	109.76	109.66
Kansas	109.67	109.66	109.66	109.66
Nebraska	n/a	110.00	110.00	110.00
Nebraska (dressed)	175.00	175.00	175.00	175.00

	Steers		Trend	
	South Dakota	Billings	South Dakota	Billings
South Dakota	135.25-152.75	n/a	-2/-5	n/a
Billings	139.00-146.00	n/a	-4/-8	n/a
Dodge City	133.50-139.50	n/a	-4/-8	n/a

USDA

Cattle / Beef Trade

	Exports		% from 2016	
	Sltr. cattle to U.S. (head)	Feeder C&C to U.S. (head)	Total beef to U.S. (tonnes)	Total beef, all nations (tonnes)
Sltr. cattle to U.S. (head)	303,624 (1)	-8.1	128,641 (3)	+0.7
Feeder C&C to U.S. (head)	87,453 (1)	-39.5	177,826 (3)	+6.4
Total beef to U.S. (tonnes)	128,641 (3)	+0.7	177,826 (3)	+6.4
Total beef, all nations (tonnes)	177,826 (3)	+6.4	177,826 (3)	+6.4

	Imports		% from 2016	
	Sltr. cattle from U.S. (head)	Feeder C&C from U.S. (head)	Total beef from U.S. (tonnes)	Total beef, all nations (tonnes)
Sltr. cattle from U.S. (head)	n/a (2)	n/a	75,629 (4)	-0.3
Feeder C&C from U.S. (head)	26,963 (2)	+153.9	109,312 (4)	-10.1
Total beef from U.S. (tonnes)	26,963 (2)	+153.9	109,312 (4)	-10.1
Total beef, all nations (tonnes)	109,312 (4)	-10.1	109,312 (4)	-10.1

(1) to Aug 5/17 (2) to June 30/17 (3) to June 30/17 (4) to Aug 12/17
 Agriculture Canada

Fixed contract \$/c/kg

(Hams Marketing)	Maple Leaf Sig 5		Thunder Creek Pork	
	Week ending	Aug 18	Week ending	Aug 18
Sep 16-Sep 23	146.27-147.86	141.52-142.16	Sep 16-Sep 23	146.27-147.86
Sep 30-Oct 07	145.73-145.86	143.82-145.39	Sep 30-Oct 07	145.73-145.86
Oct 14-Oct 21	143.80-144.03	140.69-142.71	Oct 14-Oct 21	143.80-144.03
Oct 28-Nov 4	138.10-143.01	136.20-138.51	Oct 28-Nov 4	138.10-143.01
Nov 11-Nov 18	131.23-134.79	126.46-131.02	Nov 11-Nov 18	131.23-134.79
Nov 25-Dec 02	124.58-126.92	123.83-124.17	Nov 25-Dec 02	124.58-126.92
Dec 09-Dec 16	129.46-132.41	124.83-127.12	Dec 09-Dec 16	129.46-132.41
Dec 23-Dec 30	128.05-130.25	123.65-126.51	Dec 23-Dec 30	128.05-130.25
Jan 06-Jan 13	132.02-134.74	127.12-130.79	Jan 06-Jan 13	132.02-134.74
Jan 20-Jan 27	137.45-139.83	133.62-135.85	Jan 20-Jan 27	137.45-139.83

Hog Slaughter

To Aug 12	Fed. inspections only	
	Canada	U.S.
To date 2017	12,664,602	71,991,051
To date 2016	12,391,629	69,729,322
% change 17/16	+2.2	+3.2

Agriculture Canada

Hogs \$/c/kg

	Alta. Index 100	Man. Index 100	Que. Index 100
	184.70	184.00	198.18
	185.00		

*incl. wt. premiums

Hogs / Pork Trade

	Export		% from 2016		Import		% from 2016	
	Sltr. hogs to/fm U.S. (head)	Total pork to/fm U.S. (tonnes)	Total pork, all nations (tonnes)	Total pork, all nations (tonnes)	Sltr. hogs to/fm U.S. (head)	Total pork to/fm U.S. (tonnes)	Total pork, all nations (tonnes)	
Sltr. hogs to/fm U.S. (head)	523,984 (1)	-11.4	110,146 (3)	+6.6	n/a	n/a	n/a	
Total pork to/fm U.S. (tonnes)	189,265 (2)	-5.1	123,401 (3)	+3.0	110,146 (3)	+6.6	+6.6	
Total pork, all nations (tonnes)	656,169 (2)	+6.7	123,401 (3)	+3.0	123,401 (3)	+3.0	+3.0	

(1) to Aug 5/17 (2) to June 30/17 (3) to Aug 12/17
 Agriculture Canada

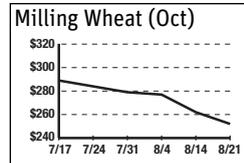
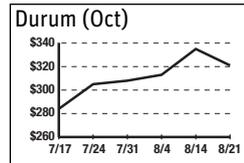
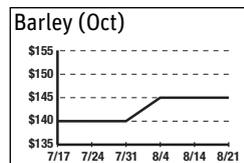
Chicago Hogs Lean (\$/cwt)

	Close		Trend	Year ago	Close		Trend	Year ago
	Aug 18	Aug 11			Aug 18	Aug 11		
Oct	66.13	68.63	-2.50	61.93	May	74.20	75.50	-1.30
Dec	61.33	63.25	-1.92	57.45	Jun	77.70	79.00	-1.30
Feb	66.00	67.45	-1.45	61.85	Jul	77.35	78.35	-1.00
Apr	69.48	71.05	-1.57	67.10	Aug	76.28	76.90	-0.62

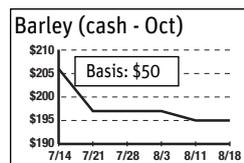
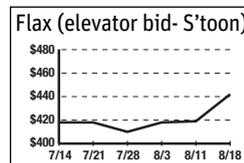
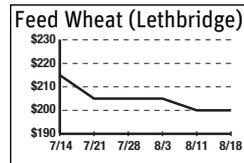
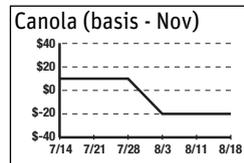
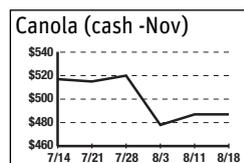
(000 tonnes)	Aug 14	Aug 6	YTD	Year Ago
Alta.	199.7	128.0	332.8	383.0
Sask.	259.8	295.3	590.8	692.6
Man.	138.0	112.6	253.5	259.2

GRAINS

ICE Futures Canada

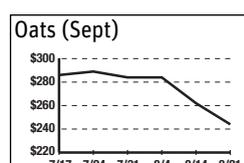
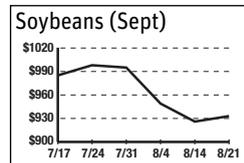
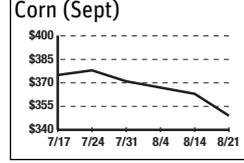


Cash Prices

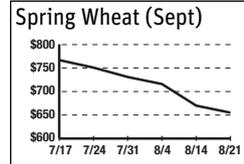


Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

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.

	Aug 18	Aug 11	July 21
Laird lentils, No. 1 (c/lb)	42.64	42.08	40.43
Laird lentils, No. 2 (c/lb)	39.79	39.92	36.50
Laird lentils, Xtra 3 (c/lb)	27.10	28.13	25.80
Richlea lentils, No. 1 (c/lb)	37.20	37.20	34.00
Eston lentils, No. 1 (c/lb)	37.83	37.17	34.83
Eston lentils, No. 2 (c/lb)	34.17	35.00	31.60
Eston lentils, Xtra 3 (c/lb)	25.68	25.68	25.00
Sm. Red lentils, No. 2 (c/lb)	21.92	22.14	23.08
Sm. Red lentils, Xtra 3 (c/lb)	19.50	20.17	19.29
Peas, green No. 1 (\$/bu)	8.31	8.06	8.06
Peas, medium, yellow No. 1 (\$/bu)	7.83	7.83	9.33
Peas, sm. yellow No. 2 (\$/bu)	7.48	7.66	9.61
Feed peas (\$/bu)	6.03	6.03	6.03
Maple peas (\$/bu)	11.00	11.00	15.17
Mustard, yellow, No. 1 (c/lb)	35.50	34.50	32.00
Mustard, Oriental, No. 1 (c/lb)	36.88	32.88	29.67
Mustard, Brown, No. 1 (c/lb)	33.50	36.38	37.33
Canaryseed (c/lb)	23.53	23.47	22.68
Desi chickpeas (c/lb)	35.67	35.67	35.67
Kabuli, 8mm, No. 1 (c/lb)	51.21	60.58	60.58
Kabuli, 7mm, No. 1 (c/lb)	39.58	39.58	39.58
B-90 cpeas, No. 1 (c/lb)	43.50	46.25	45.00

Cash Prices

	Aug 16	Aug 9	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	161.69	175.08	133.41
Sfnlwr NuSun Enderlin ND (c/lb)	17.55	17.55	18.50

U.S. Grain Cash Prices (\$/bu.)

USDA	Aug 18
No. 1 DNS (14%) Montana elevator	6.30
No. 1 DNS (13%) Montana elevator	6.01
No. 1 Durum (13%) Montana elevator	7.80
No. 1 Malt barley Montana elevator	3.42
No. 2 Feed barley Montana elevator	2.28

Grain Futures

	Aug 21	Aug 14	Trend	Year ago
Wpg ICE Canola (\$/tonne)				
Nov	505.00	502.10	+2.90	470.50
Jan	509.40	506.80	+2.60	477.00
Mar	512.20	510.00	+2.20	482.10
May	513.30	511.10	+2.20	486.00

	Aug 21	Aug 14	Trend	Year ago
Wpg ICE Milling Wheat (\$/tonne)				

PRICKLY PERCH | A Common Night Hawk rests on a barbed-wire pasture fence. It will become active again in the evening hunting insects. | MICKEY WATKINS PHOTO



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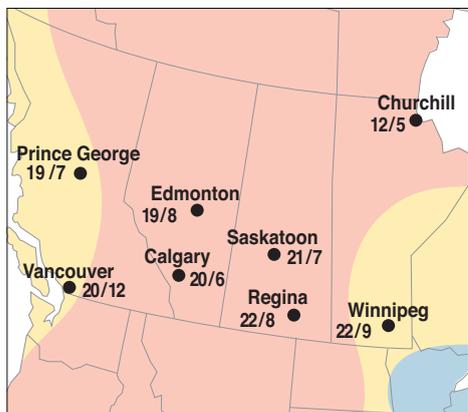
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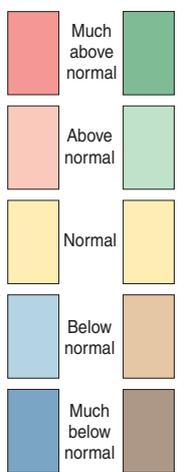
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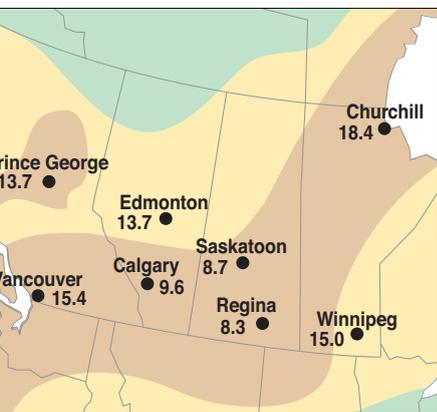
TEMPERATURE FORECAST
 Aug. 24 - 30 (in °C)



TEMP. MAP



PRECIPITATION FORECAST
 Aug. 24 - 30 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

We acknowledge the financial support of the Government of Canada.



LAST WEEK'S WEATHER SUMMARY ENDING AUG. 20

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	30.7	4.3	3.2	107.4	47
Broadview	27.2	5.0	3.8	154.5	59
Eastend Cypress	30.2	5.6	2.2	122.4	55
Estevan	28.3	3.8	2.1	146.2	58
Kindersley	30.5	3.8	18.1	156.3	75
Maple Creek	33.0	4.9	4.8	131.1	62
Meadow Lake	25.4	7.4	29.1	404.2	168
Melfort	27.0	7.9	0.1	174.4	74
Nipawin	27.9	7.6	1.2	236.6	93
North Battleford	26.3	4.1	1.6	224.1	95
Prince Albert	27.6	7.1	1.5	220.1	89
Regina	29.0	2.4	0.9	89.5	38
Rockglen	29.6	7.5	2.3	87.6	40
Saskatoon	27.3	4.2	7.5	154.1	68
Swift Current	31.3	5.3	6.4	113.6	51
Val Marie	32.5	2.3	0.6	80.5	41
Wynyard	26.1	7.9	0.2	161.5	65
Yorkton	26.5	7.5	8.2	185.6	68

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	32.9	3.9	4.9	146.5	75
Calgary	28.8	5.1	16.6	210.3	77
Cold Lake	24.7	7.6	16.5	362.3	147
Coronation	29.7	5.5	8.1	174.4	78
Edmonton	27.3	3.9	1.4	268.2	94
Grande Prairie	23.9	5.1	0.3	228.1	98
High Level	25.2	2.3	1.7	165.4	80
Lethbridge	31.9	2.1	0.0	173.7	80
Lloydminster	24.5	7.5	40.6	360.8	148
Medicine Hat	33.2	7.7	6.3	167.4	89
Milk River	33.0	2.9	0.0	238.1	104
Peace River	24.4	4.0	0.4	179.8	81
Pincher Creek	28.4	1.6	0.0	234.4	81
Red Deer	28.2	4.0	4.4	242.8	78
Stavely	27.7	5.7	7.6	257.7	98
Vegreville	27.2	8.1	8.1	277.3	114

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	32.2	6.4	0.4	172.2	63
Dauphin	30.9	9.1	0.5	233.0	86
Gimli	30.3	10.3	4.4	219.8	77
Melita	31.4	7.1	1.6	183.2	73
Morden	30.9	11.7	10.5	167.9	56
Portage La Prairie	31.3	11.8	2.3	190.1	66
Swan River	29.3	6.9	0.2	175.5	61
Winnipeg	32.1	10.2	4.0	193.8	64

BRITISH COLUMBIA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	31.2	3.5	1.8	107.7	56
Fort St. John	22.5	5.9	0.9	270.1	118
Kamloops	31.8	10.7	0.0	62.1	47
Kelowna	31.5	6.5	0.0	102.4	64
Prince George	21.8	3.1	1.6	224.3	99

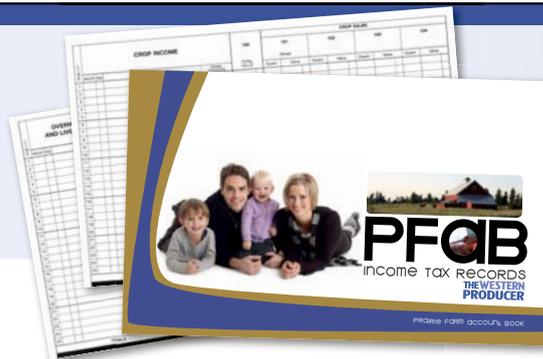
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