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## IT DOESN'T GET FRESHER THAN THIS



JR Pearce cuts hay near High River, Alta., for Charlie Flowers, who followed to chop and load haylage onto a truck to be transported to the nearby Diamond V feedlot. | MIKE STURK PHOTO

### CHECKOFFS

## Grains research shakeup forces new direction

BY SEAN PRATT  
SASKATOON NEWSROOM

The Western Grains Research Foundation is losing a key source of its core funding, and that is leading to a dramatic shift in the type of research it will be managing in the future.

The foundation had been receiving 30 cents per tonne from the wheat portion and 50 cents per tonne from the barley portion of the Western Canadian Deduction.

That deduction expires July 31.

Many of the provincial wheat and barley associations will be increasing their checkoffs by the amount that was being collected in the deduction and taking over the varietal development and other work that was being managed by the WGRF.

SEE RESEARCH SHAKEUP, PAGE 5 >>

### LIVESTOCK CATASTROPHE

# 200 cattle found dead in Sask. pasture

Rancher who went through similar ordeal recalls emotional toll

BY KAREN BRIERE  
REGINA BUREAU

Calvin Gavelin began shaking when he heard that 200 cattle were found dead in the Shamrock Grazing Ltd. pasture last weekend.

"My heart stopped," he said. "My heart stopped again, just reliving that phone call that my cows were dead."

Gavelin, his father, uncle and cousin lost 78 head in a Saskatchewan community pasture in August 1999 due to thirst when staff failed to turn on the water supply to a trough.

"The whole farm just stops," he said.

"It's your whole livelihood. Depending on their age, it might put them out of business, too."

Initial post-mortem results of last weekend's discovery on the crown lease land south of Chaplin, formerly a Prairie Farm Rehabilitation Administration pasture turned over to patrons in 2016, suggest dehydration and/or salt toxicity as cause of death.

The circumstances and locations may be different, but Gavelin said he knows exactly what the patrons are going through now.

Provincial officials said six of the pasture's 31 patrons lost cattle. The pasture is about 24,000 acres and can hold about

1,500 head.

Gavelin advised the six producers to seek counselling. The situation is emotionally and financially challenging and they need to work through it.

"Right now, the emotional part is working on those guys," he said.

"The stress is all in that family." The financial challenge comes when trying to replace the lost animals and genetics that might be a herd's base.

Provincial veterinarian Dr. Betty Althouse estimated the animals' value at \$300,000, based on average market prices.

SEE CATTLE FOUND, PAGE 4 >>

## Surviving the heat

Canola should weather hot temperatures, but dryness a worry. | P. 4

## Lesson from Iowa

American farmers struggle with herbicide resistant weeds. | P. 50



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# WHAT'S IN THIS ISSUE



**Machinery art:** A retired Alberta farmer turns scrap metal into works of art. See page 17. | BRENDA KOSSOWAN PHOTO

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# WHAT'S HAPPENING @ PRODUCER.COM

## FEATURES



**Ag In Motion Preview**  
The Ag In Motion gates won't open to the public until next week, but The Western Producer snuck in for a sneak peak.



**History of Canola Video**  
Take a quick walk through the History of Canola plot, which was showcased at CanolaPalooza in Saskatoon.



**Canada's Ag Markets Update Video**  
Watch D'Arce McMillan, The Western Producer's markets editor, host a market video about crops.

## VIDEOS

**Seed Density**  
Murray Hartman discusses new recommendations for canola density.



**Canola Pioneer**  
Keith Downey reminisces on the origins of the canola industry.



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## SEARCH FOR THIEVES

## Man. rustlers leave cattle to die of thirst

BY ROBIN BOOKER  
SASKATOON NEWSROOM

Kalvin Kreshewski noticed an awful smell July 4 when he delivered mineral to his cattle near Rosburn, Man.

"We drove in through the gate by the corral, and we could smell something dead. We looked down the hill and we could see two cows lying side by side," Kreshewski said.

The cows had died from dehydration after being locked in a waterless corral by cattle rustlers.

Near the corral, the grass was trampled from recent activity and there were fresh truck tracks.

"I drove in the pasture, counted the rest of the cows, realized there are 21 cows missing and 30 calves. Now I have cows without calves and calves without moms out there," Kreshewski said.

He's worried the calves orphaned by the thieves won't gain weight as well as they would have.

"We're going to try catching them (calves) today and bring them home and bottle feed them, or just keep them around the corral so we can look after them better, to make sure that they survive," Kreshewski said.

He estimates the theft of his Black Angus and Black Angus-Simmental crossed cattle will cost him \$60,000 to \$70,000.

The RCMP attended the scene, filed a report and are investigating.

Kreshewski also offered a \$10,000 reward on Facebook for information on who stole his cattle.

He said farmers from southern Manitoba who have had cattle stolen have contacted him since he posted the reward on social media.

"I put a reward out because I want to know what happened, who the people are," he said.

"That brought out enough attention that other people are getting a hold of me who had cattle stolen."

Social media also brought criticism that he should have been watching his cattle more closely.

"On Facebook, people are criticizing me for not checking the cows properly. 'Oh, how could you let them die without water,'" he said.

"But I can't be there every day with them."

The pasture where the cattle were stolen is 30 kilometres from Kreshewski's farm, but the cattle were regularly observed by his hired man from the road.

There were 68 cattle in the pasture so it would be hard to tell without driving through the pasture and counting the cattle that half were missing, he said.

"They figure it was last Wednesday (June 28) is when it happened, so because we've been busy haying, I haven't actually drove in the pasture for a week," he said. "We've just been driving by and making sure nothing is on the road."

Kreshewski said lots of water is available in the pasture. What angers him the most is how the panels were left tied to the corral so that the two cows couldn't access water.

"You know there are cruel people in the world, but there is nothing like watching an animal suffer with no water, that's what bothers me the most about all of this."

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## SOFT LANDING



Koen Gregory of Standard, Alta., hit the dirt last month during a mutton busting event at Standard Sports Days. The annual event featured equine and youth rodeo activities, including wild pony races, a calf scramble and a mini bareback competition, along with youth barrel racing and trick riding. | JANET KANTERS PHOTO

## WEATHER CONCERNS

# Freeze-dried crops take beating in Sask. as dry weather persists

A triangle of dryness reaches from Saskatoon to Maple Creek in the southwest and Weyburn in the southeast

BY WILLIAM DEKAY  
SASKATOON NEWSROOM

Some farmers are using the D word as their crops bake across parts of southern and central Saskatchewan.

"Everything is drought stressed, but we've got nothing left in the tank," said Eric McPeek of Coronach, Sask.

Since May 1, the south-central producer has received only 15 millimetres of rain.

And to make matters worse, the grain farmer said he awoke June 25 to find frost had blanketed many of his chickpea, lentil, durum and canola crops.

"The chickpeas were just beginning to flower and it fried everything that was green off of the plant. It was just really patchy in the damage it did," he said.

According to the Saskatchewan government's minimum temperature map of June 20-26, Val Marie and Coronach were some of the coldest areas in the province: -1.9 to 0 C within a larger area where temperatures dipped to .1 to 2 C.

McPeek said many low-lying areas of the rural municipalities of Hart Butte and Enfield, from the Canada-U.S. border north to Central Butte, received frost, which in combination with lack of moisture is having lasting repercussions for this growing season.

"The pulses that did freeze are trying to regrow, but we haven't

had any rain at all," he said.

"They're trying but I don't know if they're going to amount to much. We'll see."

His neighbour, Craig Eger, also had widespread damage to his chickpea and lentil crops and doesn't hold out much hope that large patchy areas for either crop will have much yield potential.

**Chickpeas and lentils are usually pretty tough, but they never get froze when they're flowering. That's why we don't know what's going to come of it.**

CRAIG EGER  
CORONACH, SASK., GROWER

"Chickpeas and lentils are usually pretty tough, but they never get froze when they're flowering," he said.

"That's why we don't know what's going to come of it. They're starting to pod now and there's only a quarter of the growth on the plants, so it's pretty tough for them to produce properly."

McPeek said most of the frost damage to his durum was minimal, while the canola went untouched.

However, all crops are suffering from the lack of moisture.

"The durum froze, too. It stunted

it, but it continued growing. It's trying to throw a head out; about eight inches tall, but I don't know if it will amount to much with this week of heat," he said July 4.

Brent Flaten of Saskatchewan Agriculture said the dry area is in the shape of a large pyramid that extends from Maple Creek northeast to Saskatoon and southwest to Weyburn.

He said precipitation has come by way of scattered showers that have splashed down in isolated pockets across the province, and spotty weather has helped produce patchy crops.

"That's the main concern due to the dry weather and problems with emergence of crop," he said.

"Where they had some rain showers there's the issue of double staging of crops where you've got crops that are quite well advanced that germinated right after seeding versus the later emerging crops that came out after a rain quite some time after seeding."

However, Flaten said any moisture at this point is probably too little and too late for a production turnaround for many crops within the triangle, particularly those that didn't emerge when the topsoil dried out.

"It's too late to make them into a good crop," he said. "Any localized showers would just maintain what lesser yield potential there is out there already."

Flaten said hay crops within the

triangle are faring no better, and quality and yield are poor.

"People are going to be looking for hay," he said.

The triangle of dryness will continue to push outward as the current heat wave and lack of moisture drags on.

### Manitoba situation

In Manitoba, the southwest region and the western part of the central region are experiencing about 70 percent of normal precipitation.

"It seems to be very patchy throughout," said Anne Kirk of Manitoba Agriculture.

She said cereals and canola generally continue to have good crop growth but expects that will be turning around soon if more moisture does not arrive.

It's a little early to use the word drought in southern Alberta, said Harry Brook, crop specialist for Alberta Agriculture.

"Some of the places in southern Alberta are drier than normal, but I wouldn't go so far to say they're droughty," he said.

"It seems to be hit or miss. Some guys are probably 30 to 40 percent under long-term average moisture, while others are pretty much on the nose. If you're under the right cloud, you're doing great. If you're not, you could be looking for some."

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## 200 CATTLE FOUND DEAD

» CONTINUED FROM PAGE 1

She warned producers to check their water sources, considering the heat wave the province has been experiencing. Evaporation leads to higher concentrations of salt in the water left behind, she said.

"It can be higher salt than in the ocean, really," she said.

People know enough not to drink salt water because it will kill them, but thirsty cattle will drink it anyway.

"The important message here is that you do need to test the water. Make sure that animals do have access to fresh water, that the water source that's being used is tested on a regular basis and especially if conditions change," she said.

"We know that with hot weather you can get algae blooms as well. Water conditions change over time and need to be monitored carefully."

About 240 head in the same field as those that died were moved to another field and are under veterinary care with adequate feed, fresh water and shade. Some individuals that needed specific treatment are receiving it, she said.

The animals were discovered July 7, and Gravelbourg RCMP received a complaint of a large number of dead cattle at about 2:30 p.m. July 8. The investigation was turned over to Animal Protection Services of Saskatchewan, according to RCMP.

The local veterinarian conducted initial work before contacting the University of Saskatchewan's Western College of Veterinary Medicine, which in turn notified the province through the Disease Investigation Unit. That unit investigates situations of large-scale mortality or unusual events, Alt-house said, and would be conducting the remaining tests.

She said the producers who lease other pastures should test their water sources if they are concerned about toxicity.

She could not comment on management practices at the pasture or whether charges might be laid.

"It's way too soon to tell at this point," she said.

"We don't even have the full post-mortem results."

Water test results were expected July 11 and post-mortem results by the end of the week.

Mortality management was already underway July 10. The carcasses were to be buried on suitable sites nearby.

Although said disease doesn't appear to be a concern in this case.

"As long as the carcasses are dealt with and properly disposed of quickly, there should be no concerns there," she said.

Meanwhile, Gavelin said he is available if the patrons who lost cattle need to talk. His family was compensated for lost animals, genetics and calves that failed to thrive after losing their mothers, but it took at least six months.

And he said the effects are greater than that.

"My dad never could re-attach" to his cattle after that, Gavelin said.

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## GETTING READY FOR THE SHOW



Judge Neil Carson talked to Blake Airey July 5 about getting a calf ready for the show ring during the 4-H achievement event at the Rivers Agricultural Fair in Rivers, Man. | JOAN AIREY PHOTO

DROUGHT

# Canola crop expected to survive prairie heat wave

Dryness is the major worry as rain stubbornly refuses to fall across much of the Prairies

BY SEAN PRATT  
SASKATOON NEWSROOM

A prolonged July heat wave should not take too much of a toll on canola and other crops, but dryness is a mounting concern, say experts.

Heat blast can be a problem for canola. The crop doesn't like it when daytime temperatures soar past 28 C and nighttime temperatures remain above 16 C, and that has been the case in many areas of the Prairies this month.

Clint Jurke, agronomy director with the Canola Council of Canada, said that is when seeds and pods can be aborted during the bud to mid-flowering stages of development.

However, whatever damage was done during the heat spell can be undone in the weeks that follow if conditions turn milder.

"The canola crop is pretty plastic. It can bounce back, make more pods and more seeds and regain its yield," he said.

Canola plants usually produce more than two times the amount of flowers that are required, so if it takes 1,000 pods for a 40 bushel yield, the plant will produce more

than 2,000 flowers.

Those extra flowers can be used to produce pods to make up for the aborted pods.

"This crop has surprised us so many times," said Jurke.

"It will rebound. I'm pretty confident."

He noted that people used to say you couldn't grow canola in southwestern Saskatchewan because it is too hot and dry, but that has been the highest yielding area of the province in recent years.

Jurke said the canola crop is in good shape.

"From what I've seen in my travels from Portage la Prairie to Lacombe, the crop actually is looking pretty good, fairly uniform and actually is looking fairly robust," he said.

"I'm pretty happy with how it looks."

Murray Hartman, oilseed specialist with Alberta Agriculture, said a lot of canola crops were at the vulnerable stage of development when the hot weather hit, so there is reason for some concern.

However, he is much more worried about the dry conditions in the southern Prairies than he is

**The canola crop is pretty plastic. It can bounce back, make more pods and more seeds and regain its yield.**

CLINT JURKE  
CANOLA COUNCIL OF CANADA

about the heat.

Rainfall this growing season has been 40 to 85 percent of the long-term average for the vast majority of Saskatchewan and Manitoba. Dryness has been flagged as a concern in crop reports in both of those provinces.

Hartman has looked at crop yield data from previous years, and all the big production losses associated with heat happen during drought years.

"It's the combination together of the drought and the heat that's bad for those 30 percent drops in yield," he said.

"If we get the moisture, I don't care too much about the heat."

Hartman said canola tends to

get singled out as the crop that is susceptible to heat blast, but other crops such as peas, barley and even wheat are also sensitive at the reproductive stage.

The damage is more visible on canola plants with the missing pods. Farmers won't see the damage in their wheat crops until harvest, when they count the kernels in the wheat heads.

Hartman believes the heat has caused some yield destruction, but it will be mitigated in the northern half of the Prairies, where crops are late and the soil moisture allows them to tolerate the heat better.

There will likely be more heat damage in the eastern half of the Prairies where nighttime temperatures are higher.

"We tend to get higher yields in Alberta even at similar moisture, and that's partly because we get cooler nights from being so close to the mountains," he said.

Hartman said the hot and dry conditions are making it hard for producers to decide whether they should spend money on spraying their crops with fungicide.

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CIGI

# Change in funding prompts new look at grain promotion body

Canadian International Grains Institute gets new board as funding source changes

BY SEAN PRATT  
SASKATOON NEWSROOM

The Canadian International Grains Institute is getting a face-lift and a new source of funding.

The iconic institution had been receiving its core funding from the Western Canadian Deduction, but that checkoff expires July 31.

The deduction was designed to help CIGI transition from being funded by the Canadian Wheat Board to life in the open market.

It was comprised of levies paid by wheat and barley growers. CIGI received 15 cents per tonne of the 48 cents per tonne wheat checkoff.

It amounted to about \$3 million in annual funding.

The prairie wheat commissions have absorbed some or all of the Western Canadian Deduction in their provincial checkoffs and have agreed to fund CIGI at the rate of \$1.9 million per year for the next two years.

All of the major grain companies with the exception of Louis Dreyfus Canada have agreed to match that for total annual funding of \$3.8 million.

In exchange, CIGI will have a new 10-member board of directors comprising five representatives from the commissions and five from the grain companies.

Bill Gehl, chair of the Saskatchewan Wheat Development Commission, said continuing to fund CIGI was not an easy decision.

"This hasn't been just a slam

dunk," he said.

"There has been lots of soul searching, certainly from Saskatchewan's perspective."

He said there is bound to be some changes in CIGI's strategic plan moving forward, including a renewal in the organization's commitment to wheat and wheat farmers.

"In the wake of the demise of the wheat board, CIGI was set out to sea and was rather rudderless," he said.

It was a much easier decision for the Alberta Wheat Commission.

"We're well aware of the benefits that CIGI has provided over the years and we're fully supportive of the work that they do and want to see that work continue," said commission vice-chair Kevin Bender, who is also the newly elected chair of CIGI.

"You see the expertise they have on staff and how that is translated into education for our customers around the world."

JoAnne Buth, CIGI's chief executive officer, said other sources of revenue include about \$3 million in annual federal government funding, fee-for-service work on behalf of private companies such as Warburtons and a large project in Morocco for Global Affairs Canada.

She said the government funding runs out next year, and CIGI will have to reapply under the new policy framework, which is why it is nice to have the two-year commitment in place from the grain

## CIGI'S NEW BOARD

- Chair: Kevin Bender  
Alberta Wheat Commission
- Vice-chair: Brent Watchorn  
Richardson International Ltd.
- Secretary: Jim Smolik  
Cargill Canada
- Drew Baker  
Manitoba Wheat & Barley  
Growers Association
- Harvey Brooks  
Saskatchewan Wheat  
Development Commission
- Bill Gehl  
Saskatchewan Wheat  
Development Commission
- Trent Rude  
Viterra
- Jean-Marc Ruest  
Richardson International Ltd.
- Gary Stanford  
Alberta Wheat Commission
- Ward Weisensel  
G3 Canada Limited

companies and commissions.

"There is still some unknowns, but this provides us with much more stability than we have had," said Buth.

She doesn't foresee any changes to the mandate, which is to provide technical support to end users of Canadian grains. CIGI will continue to teach customers about quality and functionality, how grain performs in various products and how to mill it.

Buth is pleased with the increased grain company input at the board level because these firms deal directly with customers and know what kind of assistance they need.

Jean-Marc Ruest, senior vice-president of corporate affairs with Richardson International, said grain companies always had the sense CIGI did good work promoting wheat and durum during the CWB era.

"Now that we're actively involved in the marketing of those commodities, we see it as kind of an advantage that other competing jurisdictions don't have," he said.

"We're happy to be involved in plotting the direction of the institution going forward. It has done some great work in the past and we look forward to the great things it will do in the future."

Ruest likes the makeup of the board because producers and grain companies have equal representation.

"This only works if we're all in it together," he said.

Gehl said the strategic plan that emerges over the next two years will be critical in determining whether there will be continued investment from Saskatchewan Wheat.

"Moving forward we're going to have to feel comfortable that this is a good expenditure of farmers' money," he said.

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## RESEARCH SHAKEUP

» CONTINUED FROM PAGE 1

Executive director Garth Patterson said the foundation will be taking a \$7.5 million hit to its annual revenues.

He is budgeting for \$9 million in total annual revenue going forward.

That doesn't include extraordinary funding such as when the railways exceed their maximum revenue entitlements, which can't be counted on as a stable source of funding.

To put that in perspective, the WGRF had \$23 million in revenue in 2016 and \$29 million in 2015. Those two years were unusually high due to railway overages.

The foundation started managing the wheat and barley checkoff in the mid-1990s when there were no wheat and barley commissions.

The checkoff has helped pay for the \$148 million invested in research projects since 1981, making the WGRF the largest producer funder of research in Canada with more than 250 active projects.

He said now that there are associations in each of the prairie provinces, it is logical that they collect and dole out the check-off dollars as they see fit, similar to what the canola and pulse groups do.

"It didn't make sense to flow the money through us, and we understand that," said Patterson.

The WGRF board has created a four-year transition plan through 2020 to adjust to the new funding reality.

One of the main components of the plan is that the WGRF will develop and lead a new integrated crop agronomy research cluster.

"We see that as a leadership role we can play because we're a multi-crop organization and we cut across Western Canada," he said.

Research topics will include crop production systems, pest monitoring and management, nutrient management, crop adaptation to climate change, soil health and genomic tools.

There will also be more support for intermediate acreage crops that don't have a lot of resources, such as corn, soybeans, fababeans, sunflower, mustard, canaryseed, oats, flax and winter cereals.

The WGRF has other sources of funding to draw on to fund such work, primarily the interest earnings from its \$130 million endowment fund, which generates \$7.5 million per year.

Another \$6.7 million comes from sources such as third party administration fees and rail revenue overages.

There is also a wheat reserve fund of \$34.6 million, a barley reserve fund of \$2.7 million and wheat and barley royalties of \$1.9 million per year.

That money will allow the WGRF to meet its funding commitments to Agriculture Canada and university wheat and barley breeding programs through 2020, ensuring there are no funding gaps in those programs as they set up new agreements with the commissions.

It will also be spent on funding the new wheat and barley research clusters, which will be led by the commissions.

Another component of the transition plan is committing \$28 million of endowment fund money to fund 150 research projects on a multitude of crops.

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## SLOW AND STEADY AT THE TRACTOR PULL



Kyle Gurr of Miniota, Man., and his Farmall 460 make their way down the track as Merve Harkness, left, looks on while pull judge Bill Carter of Alexander, Man., keeps pace on foot. Seventeen tractors competed at this year's sixth annual pull at the fair in Rivers, Man. The Gurr family brought six tractors to the event to help make it a success. | SANDY BLACK PHOTO

# MARKETS



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MARKET RALLY

## Feed barley prices shoot higher

Stressful weather, reduced acreage shrinks feed supply while deteriorating grass conditions could push cattle into feedlots

BY ROBERT ARNASON  
BRANDON BUREAU

A surge in feed barley prices in late June and early July caught many market watchers and buyers off guard.

Most traders assumed prices would eventually rise, but the abrupt jump higher was a surprise.

"I think the trade was shocked at how quickly it went from 'we will eventually get higher' to 'we are higher,'" said Brandon Motz, market manager with CorNine Commodities, a grain marketing company in Lacombe, Alta.

Motz, like others, witnessed a rapid rise in feed barley prices over a period of days.

"Back on June 28 I was (offering) \$181 (per tonne) delivered to Picture Butte (near Lethbridge)," he said.

"And on July 6 I was offering \$205.... There was a 10 day period where we rallied \$24."

The weekly crop market review from Alberta Agriculture shows that feed barley delivered to Lethbridge, was trading around \$165 per tonne in mid April.

In June prices had settled in around \$175 to \$180 a tonne before jumping over the \$200 mark in late June and early July.

Canfax, the market analysis division of the Canadian Cattlemen's Association, said feed barley prices are now at the highest point of



Analyst says cattle producers will look for alternatives if feed barley prices continue to climb. | FILE PHOTO

the year.

Allen Pirness, senior trader with Market Place Commodities in Lethbridge, said a couple of factors were responsible for the rally.

Barley acres in Western Canada are estimated at 5.77 million, down

from 6.4 million last year and the smallest since 1964. A large part of the Canadian Prairies has had below normal rainfall since seeding.

As well, a northern U.S. Plains drought is burning up the wheat

crop in North Dakota, Montana and South Dakota. The dry conditions caused an early summer spike in wheat prices.

Feed wheat is an alternative to barley, so higher wheat prices pull feed barley higher.

Feed barley values may continue to rise, but there is a price cap on the rally, Pirness said.

"We're getting to the point where you're starting to see the substitution effect take place," he said, noting cattle feedlot owners in Alberta would consider corn or dried distillers grain instead of barley.

"Corn coming out of Manitoba, it's around these (price) levels ... (and) corn DDGs coming out of the Midwest, they're landing up here around \$230."

There might be a short-term downturn in prices, but higher feed barley prices could be the new normal over the mid and longer term, Motz said.

"When the market rallies this hard and fast, you can't help prepare for some sort of correction," he said. "But we definitely have set a new pace, and I think we'll hold onto some sort of this value, moving forward.... It will be higher coming into the fall."

Motz said hot, dry weather could cut into crop yields in Western Canada, which would diminish feed grain supplies and reduce the amount of time cattle spend on pasture.

"If we burn up and dry out ... you will shrink the crop size," he said.

"We've got some grass that's starting to wilt, and some of those cattle will have to come to feed a little sooner than expected."

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WEATHER MARKET

## Weather hurts wheat and canola yields; will corn be next?

### MARKET WATCH



D'ARCE MCMILLAN

After a two-day breather late last week, crop prices rose again July 10 as the footprint of hot dry weather in North America spread out.

The stress on canola crops pushed the new crop futures price up, topping \$530 a tonne, the highest in about a year.

Much of Saskatchewan and pockets of Manitoba have had only 40 to 60 percent of normal rainfall

in the past 60 days, and some southern areas have had less than 40 percent, according to maps from Agriculture Canada.

In 2015, growing season rainfall to early July was also well below normal, but good rain in July and August saved crops, although yields were below average.

It looks like we won't get a lucky break this year.

Temperatures moderated early

this week and there was some rain with that system, but the dry heat was forecast to return by the end of the week, maintaining crop stress.

Unlike 2015, according to the long-range forecasts I look at, I see no widespread large rain accumulation in the southern parts of Saskatchewan and Alberta in the rest of July that would substantially improve the

crop outlook.

The northern U.S. Plains also continue to burn up.

The upper limit of this weather rally will stretch out if the U.S. Midwest also gets into trouble. Rain accumulation in the Midwest in the past 60 days is below normal, but crop conditions until now have been OK.

CONTINUED ON NEXT PAGE >>>

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NORTHERN PLAINS WEATHER

# Canola suffers under northern U.S. drought

BY ROBERT ARNASON  
BRANDON BUREAU

It's been well reported that spring wheat is suffering from drought this year in the U.S. northern Plains, but canola is, too.

"We're supposed to hit 100 F here the next couple of days, while it's in bloom," John Rickertsen, a North Dakota State University extension agronomist at Hettinger, 20 kilometres from the South Dakota border, said July 5.

"On top of it, with the dry conditions, we're dealing with spotty (plant) stands. It's not a great canola year."

It's been incredibly dry in southwestern North Dakota with the area so parched that locals can cite the last time it rained.

"Right in our region, around Hettinger ... we had our last significant rain in April," Rickertsen said.

Rainfall in some parts of western North Dakota and other areas of the northern Plains have been 100 to 125 mm below normal since March.

The U.S. National Drought Monitor has classified the dryness in parts of the region as a D3, or extreme drought.

The most severe classification is D4, an exceptional drought.

More days with 30 to 35 C and little rain are forecast for the next couple of weeks, so the canola crop is unlikely to improve.

"We do expect our canola yields, like all our crop yields ... are definitely going to be down," Rickertsen said. "I'll be honest. In some places you might be looking at a crop failure if it doesn't do something rain-wise, soon."

The crop is faring better in other parts of the state, such as the northeast and north-central regions.

Most of the crop is grown in that part of North Dakota, which re-

ceived more rain in spring and early summer.

"For the most part the (canola) is doing quite well, because a lot of it is in that northern third," said Barry Coleman, executive director of Northern Canola Growers.

Nonetheless, 30 C and sunny weather are forecast for the first couple of weeks of July, increasing the risk of heat blast and reduced yields.

"If you've got a good canopy and moisture down below, will that prevent it from getting heat blast? Probably not. We'll see," Coleman said. "But definitely the canola that's dry underneath, that's going to suffer."

Last year the average canola yield in the state was 1,840 pounds per acre, or 37 bu.

Yields will likely be lower this fall, but North Dakota could still produce as much canola seed because acreage is much higher than last year, when there were 1.46 million acres.

Farmers seeded an estimated 1.7 million acres of canola, significantly higher than earlier projections of 1.5 million.

"It was the biggest surprise the canola industry has ever had, as far as acreage," Coleman said.

Strong yields and a positive vibe around the crop likely pushed acres up.

"The last five years we've had great canola crops every year," Coleman said, noting many growers are now targeting 2,500 to 3,000 lb. per acre yields.

The story is similar in southwestern North Dakota, where acres have been expanding. Canola growers have avoided droughts for several years and generated decent yields, but this year may be an exception.

"We've had some very productive years ... and it's been a profitable crop for us," Rickertsen said.

"This area is growing a fair amount of canola now."

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## CROP STATUS IN NORTH DAKOTA

The U.S. Department of Agriculture issued its crop report for North Dakota July 10. It said:

- Topsoil moisture rated as 29 percent very short, 33 percent short and 38 percent adequate to surplus.
- Canola rated as seven percent very poor, 14 percent poor, 36 percent fair and 42 percent good to excellent.
- Spring wheat rated as 16 percent very poor, 19 percent poor, 29 percent fair and 36 percent good to excellent.

Source: USDA

» CONTINUED FROM PREVIOUS PAGE

However, they declined in this week's crop condition report with the amount of corn rated good to excellent down three points to 65 percent, soybeans down two points to 62 percent and spring wheat down two points to 35 percent.

With warm temperatures and little rain in the western part of the corn belt this week, the corn market was rallying as this was written July 10.

Canola has been helped by rising soybeans, but there isn't much support from soy oil nor the Canadian dollar.

Soy oil has been trading steady as world vegetable oil availability improves from rising palm oil production that is recovering after last year's drought. Falling crude oil also weighs down vegetable oil prices.

As well, the Canadian dollar has rallied to around US77.5 cents as strong employment and economic data had most of the market expecting the Bank of Canada to increase interest rates this week.

A stronger loonie puts downward pressure on Canadian crop prices, limiting the gains from the weather.

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

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## MARKET NOTES

SASKATOON NEWSROOM &amp; REUTERS

## INDIA PULSE SEEDING PICKS UP

Analysts had expected that low pulse prices in India would discourage seeding of the crop, but so far farmers are sticking with it.

Up to July 7 farmers had seeded 10.9 million acres of pulses, up from 8.9 million at the same point last year.

Planting will continue for at least another month.

The monsoon has been good so far and is encouraging planting, with acreage of all summer crops, including rice, cotton, soybeans and sugar cane, up nine percent over last year at this point.

## WEATHER VARIES ACROSS CHINA

Southern China has suffered excessive rain and flooding in recent weeks, while drought has been a problem in the north.

The flooding in the south has affected rice production, while heat and dry weather are affecting corn in the north.

The U.S. Department of Agriculture's weekly weather report noted that soil moisture and irrigation remained adequate for summer crop establishment, but temperatures of 35 C increased soil moisture loss.

The eastern part of key corn producer Heilongjiang province in northeastern China had adequate moisture, but it is drying out in the western part.

Dry weather in recent months has slowed corn planting and damaged young crops in parts of the northeastern corn belt, including Liaoning province, stirring worries about output. The Chinese government's forecast for corn production is 211.6 million tonnes, down 3.6 percent from last year and the smallest in four years.

Rain was expected in Liaoning July 7, providing relief from the dry weather stress.

China has huge corn stocks in storage.

## SOYBEAN CARGOES PILE UP AT CHINA'S PORTS

Ships carrying as much as 700,000 tonnes of soybeans are lined up along China's coast waiting to discharge, traders said, as huge purchases in recent months by the world's top buyer led to severe congestion and lifted stockpiles to multi-year highs.

China imported a record 9.59 million tonnes of soybeans in May, and arrivals last month probably reached about nine million tonnes, traders said.

But while buyers rushed purchases, tougher customs inspections have slowed movement of cargoes through ports.

Soybeans discharged into port warehouses are often held for up to a week before being certified for import by quarantine authorities, the first trader said.

A reduction in value-added tax on soybeans to 11 percent from 13 percent from July 1 also pushed some buyers to delay imports, added the second trader.



A ban on the slaughter of cattle in India is just one of many big changes in beef markets, but generally strong global demand is supporting prices. | REUTERS PHOTO

GLOBAL EXPORTS

## Where's the beef — and where's it going?

Canadian beef exports to the U.S. dipped last year, while imports of American beef rose 15 percent

BY BARBARA DUCKWORTH  
CALGARY BUREAU

The world of beef is undergoing big disruptions with renewed trade between United States and China, a cattle slaughter ban in India and political upheaval and corruption scandals in Brazil's processing sector.

Nevertheless, beef is holding its own among global consumers, said analyst Don Close of Rabobank.

"Beef has had a phenomenal year and a half. The demand for beef is holding very well," he said.

There is a market for everybody because each of the top producers offer a different type of beef.

The Rabobank Food and Agribusiness quarterly report looked at the position of the world's top beef producing nations, where export markets are strong and new players are emerging.

## Canada

Strong market conditions prevail, but the herd size remains flat.

Beef production is steadily increasing, and about 1.2 million tonnes were available last year.

Canada exported 359,590 tonnes of beef in 2016 with 269,818 tonnes headed to the U.S.

Beef exports to the U.S. were down five percent while American exports to Canada were up 15 percent. Canada imported 185,719 tonnes of beef in 2016, although that amount has been declining for several years.

Exports of live cattle were down. Feeder exports were down by more than 40 percent and fewer fat cattle left the country.

Cattle-on-feed numbers are higher than usual because feeders are staying home, and more beef is being produced domestically.

Statistics Canada reported that 546,353 fed cattle and 211,528 feeders left for the U.S. in 2016,

down from the big years of 2013 and 2014, when more than one million departed.

## United States

Record exports approaching more than 11 percent of the country's production are expected this year.

The U.S. exported 1.1 million tonnes of beef last year compared to one million tonnes in 2015.

The U.S. herd is expanding at a brisk pace and analysts wonder if the growth in exports is developing fast enough to offset increased production.

"We have a level of concern just how much additional consumption of total meats we could absorb domestically," Close said.

One way to maintain a balance is to produce smaller cattle. North American carcass weights were record large last year but are smaller this year.

"We see a flattening off in carcass weights, and that is one way we can address this whole issue," he said.

While U.S. beef groups celebrated a return to China after a 13-year ban, the actual tonnage is small, said Close.

The Chinese required full animal traceability and do not allow growth promoting hormones or the use of ractopamine. Most of the beef is destined for the hospitality trade. Building up business will take time.

"A big share of what the U.S. has that is qualified to go to China today is actually product that was qualified to go to Europe," he said.

He figures the eligible number of cattle could be about five percent of the total herd.

"The potential for China is mind numbing, but it is mind numbing only in the event that we can be talking a lot of years to see this thing fully develop," he said.

China is expected to import two million tonnes of beef by 2020, representing 15 percent of its total supply.

## Brazil

Brazilian exports dropped 10 percent in the first five months of 2017 because of allegations of corruption and bribery of meat inspection officials in the processing sector.

"It has caused a great deal of business disruption," Close said.

"The farmers are hesitant to sell cattle to JBS in Brazil on security reasons. That has enabled the other processors in Brazil to buy cattle at radically lower prices."

This market turbulence might encourage Argentina, Uruguay and Paraguay to elbow into some of Brazil's overseas markets.

Brazil was allowed to ship fresh and frozen beef to the U.S. That stopped when inspections uncovered irregularities in the cuts, including injection site abscesses where cattle had been vaccinated for foot-and-mouth disease.

"There was a higher than normal amount of rejects, and the U.S. has now put a ban on fresh and frozen beef from Brazil," he said.

## India

The central government recently banned the sale of cattle and water buffalo for slaughter, and the Hindus are not going to back down on the issue, said Close.

No one knows where this is going and what the fate of the herd might be or how it might negatively affect the Indian economy.

## Australia

Beef supplies are lower than normal because of drought in recent years, so exports are down about five percent. However, sales

to China and Japan remain strong.

More cattle have been placed on feed with more than 40 percent of the total slaughter coming from feedlots.

## New Zealand

New Zealand remains a big exporter with the U.S. being a prime destination, but China is the second largest market and grew by 28 percent last year.

It exported 607,000 tonnes, but this is down about one percent because of a lower cow kill. Dairy prices are strong so fewer culls are entering the market.

## China

Imports are up 17 percent. Imported beef sells for nearly half the price of domestic product.

Brazil is the main supplier of beef, but Argentina and Uruguay are also joining as suppliers. If India's slaughter ban continues, more beef will come from South America to make up the difference.

## Mexico

Close said new players are emerging, and he predicts Mexico and Indonesia will develop more prominent positions as major beef producers.

Indonesia offers tropical type cattle, but Mexico is raising cattle similar to Canada and the U.S.

Mexico could export a record 285,000 tonnes, up 10 percent from last year. About 85,000 tonnes went to the U.S., but the bigger market is feeder cattle with more than 500,000 going to American feedlots.

"Mexico is modernizing their beef production processing facilities," he said. "I think Mexico has potential to be a major North American player and even a global player."

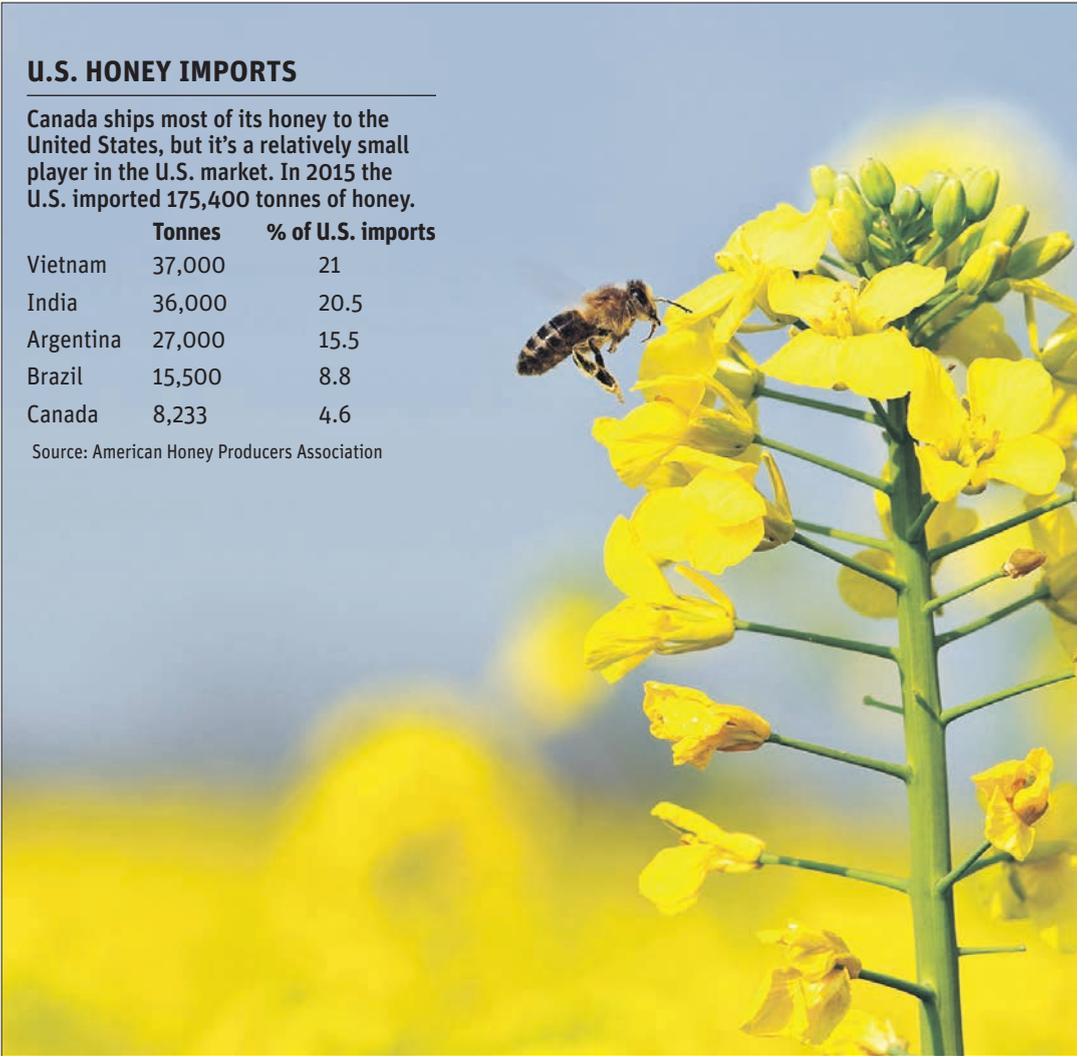
barbara.duckworth@producer.com

## U.S. HONEY IMPORTS

Canada ships most of its honey to the United States, but it's a relatively small player in the U.S. market. In 2015 the U.S. imported 175,400 tonnes of honey.

	Tonnes	% of U.S. imports
Vietnam	37,000	21
India	36,000	20.5
Argentina	27,000	15.5
Brazil	15,500	8.8
Canada	8,233	4.6

Source: American Honey Producers Association



Cool, wet weather across the Prairies early in the growing season could mean the canola bloom will be staggered, which is beneficial to honey production. | GETTY PHOTO

### HONEY PRODUCTION

# Bee conditions improve, prices up for honey

Varied crop development could boost honey production

BY ROBERT ARNASON

BRANDON BUREAU

Things are looking better for Canadian honey producers after a tough spring.

Honey prices are up compared to 2016 and staggered seeding dates for canola should provide a longer bloom and more time for bees to forage, but the cool spring was hard on many colonies across the Prairies.

"We had a tough April. Central Alberta and north had a tougher time this year," said Mike DeJong, president of the Alberta Beekeepers Commission and an apiarist from Hay Lakes, Alta.

"It was really bad in April for bees. They started off and then went backwards.... They kind of went into dormancy mode (during) that cold weather."

The story was similar in Saskatchewan and parts of Manitoba, where cool spring weather delayed or retarded hive development.

"The bees weren't able to get out and forage as early or as often as they usually would," said Graham Parsons, an apiculture intern with Saskatchewan Agriculture.

The chilly start to spring and higher varroa pressure for some beekeepers likely increased winter hive losses in Alberta.

DeJong estimated that losses in Alberta would be 20 to 25 percent. Last year the average colony loss

across the Prairies was around 17 percent.

Parsons said colony losses were higher in Saskatchewan than 2016, but only marginally higher.

The Canadian Association of Profession Apiculturists typically releases colony loss estimates in late July. Last year the national level of winter losses, or unviable colonies, was 16.8 percent, one of the lower levels on record.

The cool weather in April may have slowed colony progress, but ultimately it could benefit Alberta beekeepers.

Canola was seeded over a wider range of time because of the cold and wet conditions, so the crop bloom will be staggered.

"We've got a wide range of (canola) flowering happening, which is going to be optimal," DeJong said.

"There should be good conditions for (producing) honey."

The other good news is that prices have climbed relative to 2016.

About half of the honey produced in Canada is exported and

most of it goes to the United States.

Canadian honey sold for \$1.25 to \$1.30 per pound last year because of stiff competition in the U.S. market from Ukraine, India, Argentina and Vietnam.

As well, honey imported into Canada was undermining domestic demand.

Now, prices are higher than \$1.50 per lb.

"We have noticed beekeepers booking at prices 25 to 30 cents (per lb.) better than last year," said Paul Gregory, a beekeeper and owner of Interlake Forage Seeds in Fisher Branch, Man.

"At \$1.50 to \$1.60 per lb., it's not wonderful ... but you can still make money at that."

There is still a large gap between prices paid to American and Canadian honey producers.

The U.S. Department of Agriculture's national honey report for June 23 shows that prices in South and North Dakota were about US\$1.75, or C\$2.25, which is 75 cents more than Canadian honey.

"A lot of the American honey packers want to buy domestic honey because local honey always sells at the premium to foreign honey," said Gregory, who is also vice-president of the Manitoba Beekeepers Association.

"We (Canadians) are looked on as foreigners."

robert.arnason@producer.com

CANADIAN HONEY PRICES ARE HITTING

\$1.60 per pound

## CANFAX REPORT

### FED MARKET LOWER

The fed steer weighted average price fell \$7.53 to \$143.25 per hundredweight, and heifers fell \$10.55 to \$140.73.

Prices were the lowest since November 2016.

Cattle bought during the week were scheduled for delivery at the end of the month.

Cattle prices are falling as beef values drop, which they normally do in the heat of summer when consumers look for lighter fare.

In the United States, dressed sales in Nebraska and Iowa fell US\$3, while in southern regions live cattle traded \$1-\$2 lower.

Weekly western Canadian slaughter to July 1 totalled 38,673 head, 10,100 more than the same week last year.

In addition to big slaughter volumes, fed cattle exports to the U.S. have recently trended above year ago levels. Canadian fed cattle exports have averaged 5,055 head over the past four weeks, up from 3,323 last year.

The strong futures market this spring might have caused feedlots to contract more cattle with packers for summer delivery, and so opportunities to squeeze supply on the cash market could be limited.

The Alberta to Nebraska cash basis widened to -\$9.52 from -\$3.39 the previous week.

### COWS FALL

D1, D2 cows ranged C\$97-\$120 to average \$107.33 per cwt., down \$1.74. D3 cows ranged \$85-\$104 to average \$93.83.

Rail grade cows ranged \$200-\$205.

Bulls averaged \$125.36, down \$1.92.

Weekly western Canada non-fed slaughter to July 1 rose 11 percent to 6,075. Slaughter is up nine percent for the year at 182,458 head.

Exports to June 24 fell to 3,092 head. They are down 26 percent on the year.

Dry pastures could cause producers to sell more cows, driving up auction volumes, but Canfax

## WP LIVESTOCK REPORT

### HOGS RISE

Rising U.S. pork prices, particularly bellies, supported hog prices.

The U.S. pork cutout hit the highest level in two years.

The price for bellies, which are used to make bacon, were starting to close in on the record price set in April 2014.

Demand for bacon is good during the heat of summer as consumers turn to BLT sandwiches.

The U.S. national live price average for barrows and gilts was US\$67.67 per hundredweight July 7, up from \$66.82 per cwt. June 30.

U.S. hogs averaged \$86.34 on a carcass basis July 7, up from \$85.76 June 30.

The U.S. pork cutout was \$104.96 per cwt. July 7, up from \$102.92 June 30.

The estimated U.S. weekly slaughter for the holiday shortened week to July 8 was 1.849 million, down from 2.185 million in the previous holiday shortened week.

Slaughter was 1.826 million last year at the same time.

In Canada, the average Signature

believes there will be good demand and steady prices.

### FEEDERS FALL

Seasonally weaker fed prices, the stronger Canadian dollar and rising grain values all weighed on the feeder market.

Prices were generally down \$7-\$8 per cwt.

Calf prices were \$4-\$10 lower over the week.

Yearlings fell a similar amount.

Pastures in the southern parts of the Prairies and the northern U.S. Plains are deteriorating in the hot, dry weather. This is forcing a few yearlings to market earlier than normal.

Weekly auction volume fell 15 percent to 9,045 head. Volume is up 19 percent for the year.

Weekly exports to June 24 rose to 1,658. Exports are down 44 percent for the year.

Potential deferred fall delivery premiums could wane if grazers see their grass dry up, forcing them to market early.

Producers will monitor forage production. If a small hay crop drives prices higher, it would hurt backgrounding margins and discourage retained ownership.

Bred cows ranged \$1,450-\$1,800 per head. Cow-calf pairs ranged \$1,800-\$2,800.

### BEEF LOWER

The U.S. Choice cutout to July 6 fell \$6.50 to US\$220.05, while Select fell by the same amount to \$203.76. Choice is about \$10 higher than last year at this time.

Canadian cutouts were not available.

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

Five price for the week to July 8 was C\$209.71 per 100 kilograms, down from \$210.82 the week before. On a per hundredweight basis, the average price was \$95.12, down from \$95.63 the previous week.

### BISON STEADY

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

### LIGHT LAMBS DOWN

Ontario Stockyards Inc. reported that 721 sheep and 28 goats sold July 4. Light lambs sold under pressure at \$25-20 per cwt. lower. Sheep sold steady. Good goats were barely steady.

## FOOD

## Promoting good eating habits better than warning labels

A front-of-package food warning system that Health Canada is proposing would treat dairy products unfairly by warning Canadians away from nutritious milk-based food.

Health Canada has launched a campaign to promote healthy eating, physical activity and mental health.

The healthy eating strategy includes revising Canada's food guide, improving nutrition labelling and introducing a new highly visible warning system for food high in sugar, sodium and saturated fat.

Whole milk, cheese and sweetened yogurt would likely run afoul of the program's thresholds and would have to display a warning sign.

With two-thirds of adult Canadians and one-third of children now overweight or obese, we support government efforts to try to point people toward healthier eating.

A report from the Senate's social affairs, science and technology committee says that obesity costs Canada \$4.6 to \$7.1 billion a year in health-care and lost productivity.

However, warning labels are a blunt instrument that will likely only vilify certain foods and do little to address the real reasons for our expanding waistlines.

To put whole milk, which is brimming with nutrients such as vitamins D, A, B12, calcium and other minerals, riboflavin and protein, in the same category as some processed junk food would be ridiculous.

Federal Health Minister Jane Philpott suggests that the warning signs might be a stick used to get food processors to reformulate their products to use less sugar, fat and salt.

We can appreciate efforts to make food processors more responsible, but whole milk can't be reformulated and salt is an indispensable part of cheese making.

And we question the foundation of the

idea behind the need for warning labels — that consumers need more information so that they can make healthy choices.

Is any adult confused over whether eating sugary drinks, salty snacks, fast food or prepackaged highly processed meals are healthy?

Do we need to puzzle over the nutrition label on the frosted cereal with children's cartoon characters to determine if it is better or worse than the whole grain alternative with a serving of fresh fruit?

Most of us know what we should be eating; the problem is we don't do it.

Too often we don't make our own meals. We are surrounded by purveyors of ready-made meals with enormous advertising budgets. Meals are not a family affair but are consumed on the go.

Our car culture, along with the ubiquity of televised and internet entertainment, encourage a sedentary lifestyle.

To solve our weight and health issues, we need societal change. That is a big order and government efforts to change habits often spark complaints about a nanny state.

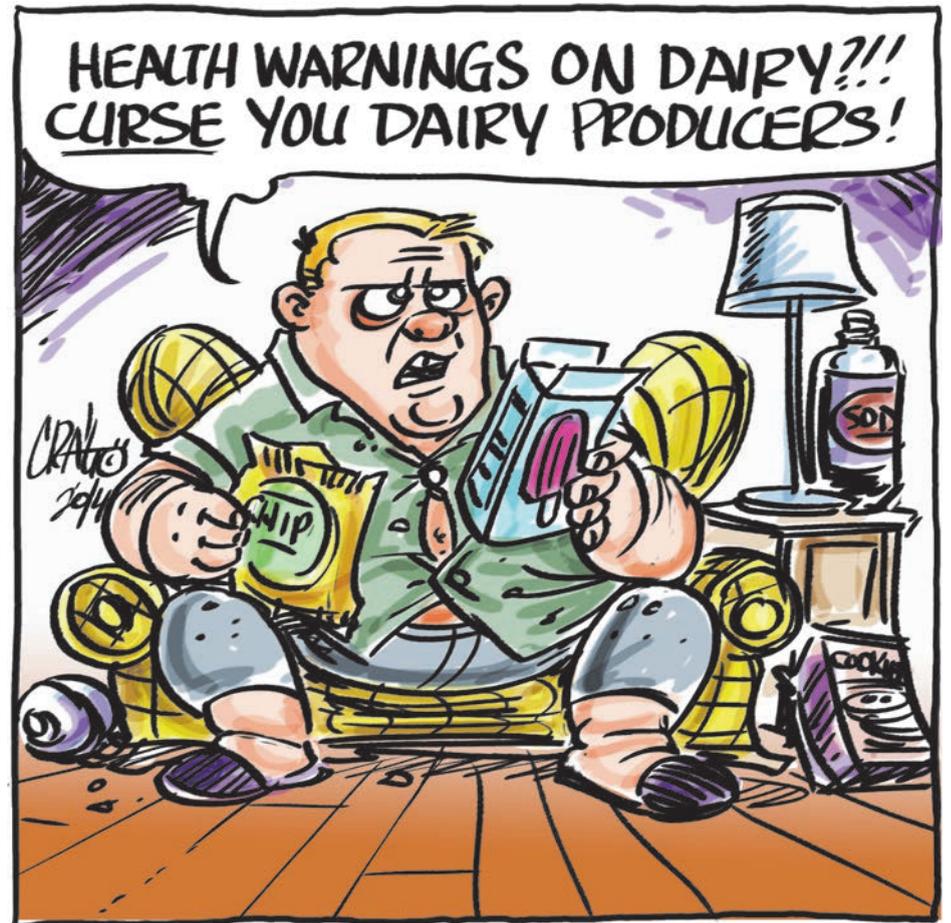
A Senate committee report sets out what could be a national approach led by Ottawa but involving governments at all levels as well as schools, community groups and business to examine policies and how they can encourage a healthy lifestyle.

The report notes the success of the anti-smoking strategy, which over decades, through the use of education, media campaigns, advertising restrictions, workplace programs, taxes and regulations, drastically reduced the number of people who smoke.

We don't need to vilify certain foods; we need to discourage bad habits.

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

## CRAIG'S VIEW



## SPRAYING SAFETY

**Why can't you sell us a sprayer worth \$500,000 or more, make clean-out easy and effective and give the customer some sort of assurance that when they're done the clean-out that the canola is safe?**

**TOM WOLF**  
SPRAYING RESEARCHER, PAGE 57

## 4-H GLOBAL SUMMIT

## 4-Hers from around the world share ideas and concerns

## CAPITAL LETTERS



KELSEY JOHNSON

Youth from around the world are taking over Ottawa as the nation's capital hosts the international 4-H Global Summit.

Five hundred young delegates from 70 countries will spend a week in the city, where they will chat about sustainable agriculture, the environment, healthy eating, science, technology, community engagement and communications.

Cooking demonstrations, evening activities at the Canadian History Museum and the Canada Agriculture and Food Museum are also planned, alongside a variety of

workshops and brainstorming sessions.

It's the first time 4-H Canada will host the international meeting, which runs July 11-14 and is tied into the ongoing Canada 150 celebrations.

A leadership program largely based in rural communities, 4-H has been part of the Canadian fabric for more than 100 years.

The first club in Canada was started by Edgar Ward Jones in Roland, Man., in 1913. Jones, a farmer himself, wanted a way to teach people about agriculture in a way that was practical and hands-on.

He started the Boys and Girls Club, a program largely considered to be the launch point of the 4-H Canada that we know today.

Jones, who is considered one of 4-H's founding fathers, was inducted into the Canadian Agriculture Hall of Fame in 2015.

Today, more than 24,000 Canadian young people are members in nearly 2,000 clubs across the

country. 4-H Canada estimates there are more than 350,000 4-H alumni in Canada.

Internationally, the organization has more than seven million members spread across 70 countries — with new members and clubs continuing to pop up.

Famous American alumni include Hollywood actress Julia Roberts, country super stars Dolly Parton and Reba McEntire and former First Lady Jacqueline Kennedy.

In the United States, clubs are even starting to crop up in urban centres, while here in Ottawa some city children are joining clubs in nearby rural areas. The organization is a staple at events of all sizes, from the tiny local fairs to the likes of the Royal Winter Fair and the Calgary Stampede.

It's a chance to bridge the growing gap between the farm and people's plates, while exposing children and youth of all ages to agriculture's many wonders — and opportunities.

4-H has even found a way to penetrate the Ottawa bubble.

Macgregor "Mac" Tebbutt, a 4-H member from British Columbia, was named to Prime Minister Justin Trudeau's prestigious Youth Advisory Council, a 26-member board designed to advise Trudeau and bring a youth perspective to federal issues. Tebbutt has been part of the 4-H organization for more than a decade and has served as a 4-H B.C. Youth Ambassador.

The board held its inaugural meeting in Ottawa last September, when the group met with policy leaders, the federal cabinet, First Nations leaders and other senior officials.

Canada's prime minister, it's worth noting, seems to have a bit of a soft spot for 4-H.

A few months back, 4-H members from across Canada were in Ottawa for their annual day on the hill, complete with a reception with MPs.

The group even got to take in question period, which featured its

typical banter and semi-organized chaos.

After QP, the 4-H members made their way down to the Hall of Honour, the main hallway in Centre Block that separates the Senate from the House of Commons. (It's also a main route for reporters who are headed to Parliament's main foyer for post-QP scrums.)

Somehow — be it organized or spontaneous — the group crossed paths with Trudeau. The prime minister spent the next five to 10 minutes chatting with those in attendance.

It was quite a sight to behold, really, this gang of teenagers dressed in their finest, a few still rocking their cowboy boots, chatting with the prime minister in the middle of Centre Block about life in Ottawa and life back home.

Who knows, perhaps those two worlds will come together again at this week's summit.

Kelsey Johnson is a reporter with iPolitics, [www.ipolitics.ca](http://www.ipolitics.ca).

# & OPEN FORUM

MEDIA COVERAGE

## Media must put famine on front burner

BY JOHN LONGHURST

“If you are planning a famine, don’t hold it in summer — we’re on vacation then. Also, avoid U.S. election years.”

That old and sad joke is one relief workers used to tell years ago to explain the lack of media attention for some disasters in the developing world.

It came back to me as I thought about how little coverage the terrible hunger crisis in parts of Africa and Yemen is getting today.

And it is terrible; an estimated 20 million people face starvation in South Sudan, Somalia, Yemen and parts of Kenya and Nigeria. It’s the largest humanitarian food crisis in 70 years, according to the United Nations.

And yet, there has been very little news about it in the Canadian media.

Why is this the case? I can think of a few reasons.

First, it’s a hard story to tell. Journalists can’t get into the most-devastated areas — even relief groups have trouble getting to places of the greatest need due to fighting.

Second, media outlets also have fewer resources and staff to cover stories. Even if they wanted to do more, it would be hard to find the funds, space or time to do it.

Third, it’s hard to tell the story of a famine. Famines take months to develop. Until the food runs out, and people are dying, there are few dramatic images. By the time it hits the news, it is often too late.

Fourth, there’s the Trump effect: the U.S. president has sucked up much of the media oxygen.

Throw in terrorist attacks in Manchester and London, plus all the



Men unload boxes of nutritional supplements for distribution by the United Nations World Food Programme in South Sudan in February. | REUTERS/SIEGFRIED MODOLA PHOTO

other news competing for attention, and it can be hard to find time and space for the famine.

The lack of media coverage for disasters like famines isn’t new. It was the finding of a 2007 study of major U.S. TV network news by Thomas Eisensee and David Stromberg.

Titled *News, Droughts, Floods, and U.S. Disaster Relief*, it looked at how 5,000 natural disasters between 1968 and 2002 that affected 125 million people were covered by major U.S. TV networks.

The study found that coverage was affected by whether the disaster occurs at the same time as other newsworthy events, such as the Olympic Games, along with where it happened and how many

people died.

It showed that while the media covered around 30 percent of the earthquakes and volcanic disasters, less than five percent of droughts and food shortages were covered — despite many more people dying due to droughts and food shortages.

The authors even came up with a numerical comparison: for every one or two people who die in an earthquake or volcano overseas, 32,920 people must die of food shortage to receive the same media coverage.

The study also revealed geographical bias, showing that 45 times more Africans have to die in a disaster than Europeans to get the same kind of media coverage.

But when the media did pay attention to a disaster in the developing world, the study showed that people responded. It found that media attention spurred governments and people to action.

That’s what we need today. Aid groups like the Canadian Foodgrains Bank are trying to get the word out to Canadians about this need, and about the special government match. But we need help. The media is still one of the best ways to reach large numbers of people. Will the media step up? I hope so. The lives of millions depend on it.

*John Longhurst directs communications, marketing and fundraising for the Canadian Foodgrains Bank.*

URBAN MYTH

## Playing chicken with farming

EDITORIAL NOTEBOOK



MICHAEL RAINE  
MANAGING EDITOR

There is nothing wrong with wanting to play farmer. I do it every year.

It can be a great hobby, provided you have a good day job. My hobby is a little bigger than most — OK, it’s a part-time career — and it grew out of business that has been carrying on in my family for more than 110 years in our current location alone.

But a hobby is just that, a pastime, a skill set not related to providing a sustaining income.

Some people restore cars, but that doesn’t make them mechanics. Some folks fly airplanes, but they aren’t commercial pilots. Some garden, but they don’t have a truck farm.

Raising livestock in the city? I am OK with that personally, but people shouldn’t be telling folks they are doing it because it is sustainable, suggesting that urban critters are living better than the farmed ones, are more environmentally friendly or that the food generated is safer and more nutritious.

Toronto is currently experiencing the debate around chicken rearing in the city, and it looks as though it will go ahead on a trial basis in four neighbourhoods.

We don’t raise livestock in urban areas for a variety of reasons, such as zoonotic diseases. Avian and pig flus are only a tiny tip of the human health issues that happen when humans and critters share too much.

There are safer fertilizer choices than producing raw manure for a urban vegetable garden. The city won’t let folks have outhouses, either.

And when arguing for new, urban municipal farming rules, it should not be implied, but currently is, that professional farmers aren’t sustainable. It is the backyard farm that doesn’t have an environmental farm plan or completed a life-cycle analysis on the project.

Those coops built from materials bought at the home centre, picked up in an SUV, along with those 24 fertilized eggs, the special 45 kilometre, one-way trip to get 50 pounds of poultry feed and a heat lamp — that’s not sustainable. On a dollar per egg or pound of chicken basis, it is an expensive hobby, and one that is robbing the planet.

Urban advocates for city agriculture shouldn’t be criticizing farming for being unsustainable, implying its food is unsafe or the animals not cared for appropriately. We leave that to the amateurs and their giant carbon footprints.

Go ahead, send me mail at mike.raine@producer.com.

LACK OF MOISTURE

## Heat and lack of rain major growing issues

HURSH ON AG



KEVIN HURSH

Prolonged heat and below normal rainfall are shaping up as the defining factors for this year’s growing season. They are affecting farmers and the entire agricultural industry in a multitude of ways.

It’s common to get some summer days above 30 C. Getting weeks with temperatures almost steadily in that range hasn’t happened for a while. The lack of thunderstorm activity to accompany the high temperatures is quite remarkable.

There still should be many good crops on the Canadian Prairies, especially in central and northern regions, and even in many parts of

the south. Credit the abundance of subsoil moisture.

The seemingly endless rains of 2016 that created flooding, severe disease problems and one of the latest and longest harvests ever set up a soil moisture situation in which crops can survive despite this year’s heat and lack of meaningful precipitation. Many producers are marvelling at how their crops can look so good with so little growing season rain.

The subsoil may have been saturated, but virtually no rain during and after seeding hurt germination in some regions, producing a patchy, thin, uneven stand. Even where crops look very good and moisture has been more abundant, the heat has no doubt exacted a toll, particularly on flowering canola and field peas.

In regions plagued by excess moisture, the relatively dry spring and summer has actually been good news.

Pending what happens with the weather at harvest time, crop qual-

ity has the potential to be very good. There should be a marked improvement in the disease problems that downgraded last year’s production.

Despite the intentions of many producers to use more fungicide, sales are unlikely to see the spike expected by the industry.

For cattle producers, hay quality should be good because it didn’t get rained on much after being cut. On the other hand, hay quantity in many regions will be below normal and well below what we’ve been seeing in the wet years.

Because dry conditions and crop losses intensify as you move south into the United States, prices for many commodities have been improving, particularly spring wheat, which has been a perennial dog for returns up until now. Upward movement in grain prices has occurred despite a strengthening Canadian dollar.

While it’s too early to make accurate production estimates, it’s safe to say this year won’t see a record

crop in Western Canada. There will be crop insurance claims in some southern regions and strong yields in other areas, but overall a bumper crop is probably gone.

No one knows how the rest of the growing season will evolve, but 2017 could set the groundwork for 2018. At the risk of sounding like an old timer, 1987-88 is remarkably similar to what we’ve seen this year.

The 1987 crop in much of Saskatchewan was produced on the strength of the subsoil moisture from the fall rains of the previous year. It wasn’t great, but it was a lot better than the next year, when there was very little rain on top of precious little subsoil moisture.

Subsoil moisture is like money in the bank. It’s the main reason why this year’s crop won’t be a widespread disaster. Unless that reserve is replenished, it won’t be an ace in the hole going into 2018.

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

## OPEN FORUM

### LETTERS POLICY:

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

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

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

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

### NDP MISINFORMATION

To the Editor:

Watching the NDP leadership debate brought to my attention the false information the NDP party is spreading in a desperate attempt to gain supporters.

- Banks do not create money. The federally mandated reserve rate is what creates the money through the banking system.
- The provincial liquor board stores did not make money for the government. It was the taxes that made the money, which they are still making in the stores which now sell the liquor.
- The fair share of taxes for corporations is zero because corporations collect the taxes from their

customers and pass them to the government. The only problem is that it disadvantages corporations that export in that it makes them non-competitive. This could be the reason that socialist countries are poor countries, making it difficult for them to export, causing them to move to other countries.

Barry A. Raymond  
Aneroid, Sask.

### SASK. BUDGET

To the Editor

Within the slash and burn 2017 budget of the (Saskatchewan Premier Brad) Wall government, there

is something that very few of us have taken into consideration, and yet it is bound to cost us all dearly in the end.

Adding PST on basic insurance is something that very few of us can afford to have, and yet it is that insurance that we cannot afford to be without.

Worse yet, it is yet another costly measure that is going to affect those most vulnerable in our society — a trend of this Wall government that is bound to be remembered for a long time to come.

Brian Mallard, former chairman of the Financial Advisors Association of Canada, has it right when he suggests that the provincial government likely won't realize the additional revenues that they are projecting.

Sadly, like many other cost saving measures that Saskatchewan residents are now faced with, thanks to this slash and burn budget, they are going to have to make that hard decision as to whether or not they can even afford to keep the insurance on some of the most basic things in life, including life and home insurance.

To me, these should be considered basic essentials and should never be taxed or made unaffordable for anyone in our society.

As a former insurance agent myself, I know all too well about how important basic insurance packages are for all Saskatchewan families. While we never want to think about needing it, it is extremely important to have it there for those unfortunate times in our lives.

Perhaps Mr. Wall needs to reconsider his position on many things in this budget, specifically the corporate tax breaks and the ever-growing boondoggle that is the Regina Bypass, so that he can reverse this extremely short-sighted decision that is bound to hurt residents when they least expect it.

Don Neuls  
Coppersands, Sask.

### GRAIN CAR SALE

## Sask. sells rail hoppers to shortlines

### SASKATOON NEWSROOM

The Saskatchewan government is selling its hopper car fleet to three short-line railways.

The government said in a news release it has commitments from three Saskatchewan shortlines to buy the Saskatchewan Grain Car Corp.'s fleet of 898 hopper cars for \$9.7 million.

The deal is with:

- Big Sky Rail Corp. — 663 cars
- Great Western Railway Ltd. — 150 cars
- Great Sandhills Railway: — 85 cars

"With approximately 14 years of service life remaining, the fleet still has value in the industry," said David Marit, the minister responsible for the grain car corporation.

"Selling the cars to our shortlines means they will continue to move commodities grown by Saskatchewan producers."

The sales process started in late March, with Saskatchewan's 13 commercial shortlines given first priority to buy the hoppers.

The \$9.7 million in total sales averages \$10,800 per car.

All offers were reviewed by an evaluation committee, which included representation from the grain car corporation, the highways and infrastructure ministry, an independent consultant, legal counsel and a fairness adviser to supervise and monitor the fairness of the competition, the release said.

Final details of the sales agreements are being completed.

The sales will likely be made final in the next two to three months.

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## PEST MANAGEMENT

# Sask. growers urged to be on lookout for wheat midge

The grasshopper population could also rebound if dry weather continues

BY TERRY FRIES  
COMMODITY NEWS SERVICE CANADA

Insect pests in Saskatchewan show little potential to affect yields, but farmers can't relax yet.

Aphids and diamondback moths may yet be swept in on southerly winds in large enough numbers to cause crop damage.

"Aphids and diamondback moths, aphids in particular, like any crop, so that's one we're just waiting to see if they show this year or not," said Brent Flaten, an integrated pest management specialist with Saskatchewan Agriculture.

Crop advisers and growers have been trapping diamondback moths but have not seen them in large numbers, he added. However, they could appear later, depending on winds.

Aphids and diamondback moths do not overwinter in Canada so strong winds from the United States will generally cause populations in Canada to increase.

Flaten said one of the more pressing issues growers might face this year is wheat midge.

He said they have not been a big issue, but that could change with the drier conditions currently seen in many areas of the province.

Wheat midge projections for Saskatchewan show the pest could pose threats to crops in a widespread region, he added. In the northwest, a potential problem area stretches from North Battleford to Prince Albert. In the southern grain belt, farmers from Herbert to the U.S. border and southeast to Estevan are advised to remain on the lookout for wheat midge.

"And all along the eastern side of the province," Flaten said.

As well, alfalfa weevils have been reported in some areas, but spraying for those is not recommended because swathing can control the problem.

Meanwhile, spring issues with cutworms and flea beetles appear to be over.

Flaten said that with the drier weather hitting Saskatchewan this summer, an old, familiar pest may rear its head following years of being suppressed by wet conditions.

"We're not expecting (large numbers of) grasshoppers, but with the dry weather, they could be starting a bit of a rebound," he said.

Lentil and flax growers should take special note, he added, because those crops are especially vulnerable.

The economic threshold at which it is advisable to spray lentils and flax for grasshoppers is two insects per sq. metre, compared to nine to 12 hoppers per sq. metre in wheat.

He said cabbage seedpod weevil has been spotted in canola and in brown and oriental mustard. The weevil is not considered a pest in yellow mustard.

"It's just something to keep an eye out for," Flaten said.



Strong winds can bring diamondback moths, above, from the United States, while dry conditions currently on the Prairies may spark an increase in wheat midge, right. | FILE PHOTOS

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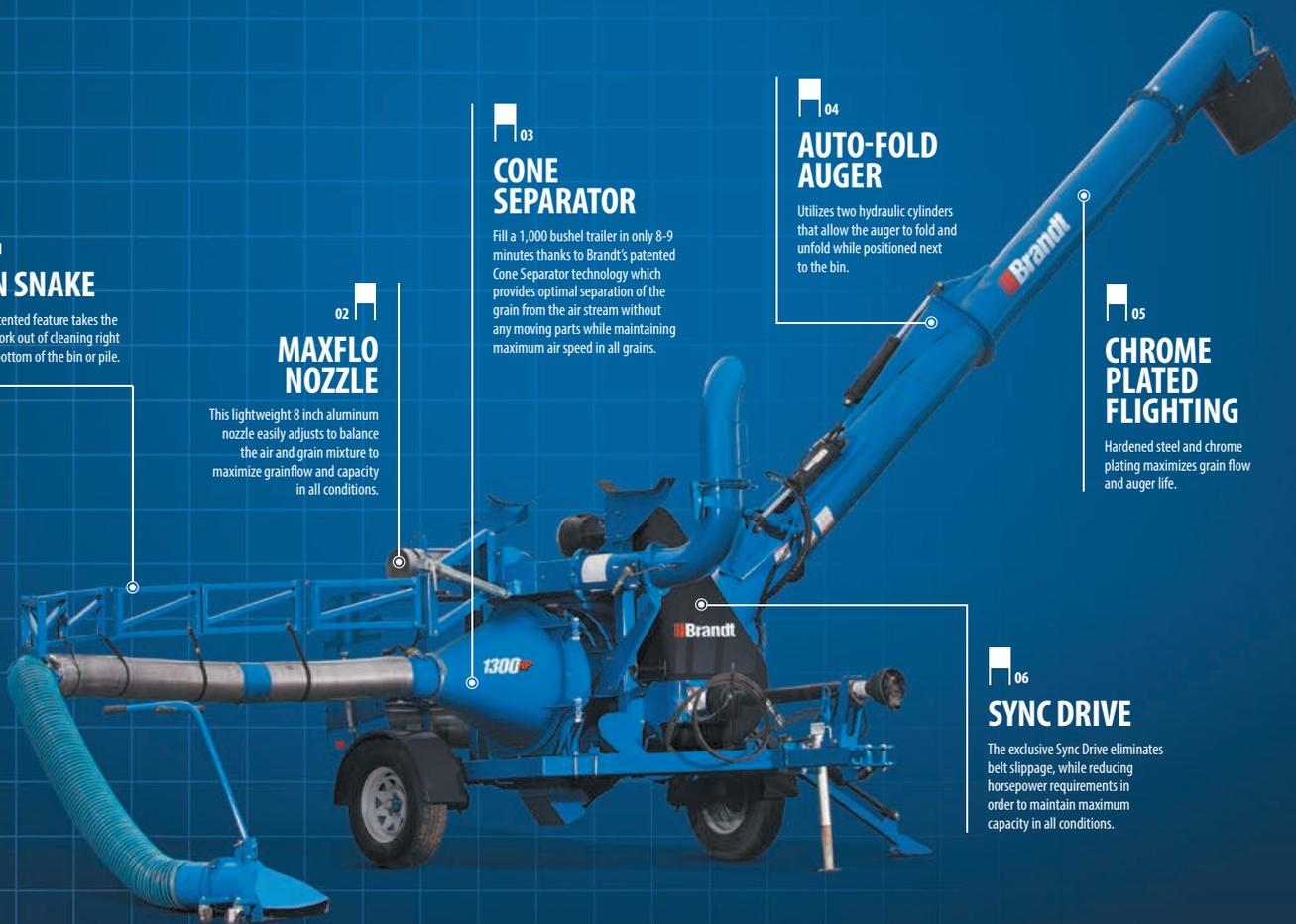
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## CENSUS OF AGRICULTURE

# Younger, large farm owners more likely to embrace new technology

BY BRIAN CROSS  
SASKATOON NEWSROOM

Computers, smartphones, global positioning systems and auto steer have become standard equipment on many farms in Canada.

However, the rate at which producers adopt new technologies varies significantly across the country, depending on the size of the farm, the value of the goods it produces and the age of the farmer.

According to data collected in the Census of Agriculture, younger operators are more likely than older farmers to use technology such as computers, laptops, smartphones, GPS, auto steer, GIS mapping, automated animal feeding and robotic milking machines.

In addition, producers with large landholdings of 5,000 acres or more are more likely than small producers to use modern technology on their farms, as are farms with gross annual sales of \$500,000 or more.

Erik Dorff, a census analyst with Statistics Canada, said the decision to invest in technology is based on a variety of factors, but primarily, investments in innovation are aimed at increasing efficiency and productivity.

"In general, farmers always have been and continue to be an incredibly innovative group," Dorff said.

"But as sales increase, we see an increasing proportion of farmers using all of these technologies."

## Technology and age

In a census document entitled *Growing Opportunity Through Innovation in Agriculture*, Statistics Canada suggests there is a strong correlation between the age of a farm operator and his propensity to use technology on the farm.

In 2015, 57.4 percent of farm operators older than 60 years used at least one type of technology from a list that includes computers or laptops for farm management, smartphones, global positioning systems, automated steering, GIS mapping, automated animal feeding and robotic milkers.

However, among farmers younger than 40, nearly 81 percent of farmers used at least one of the listed technologies.

Similarly, 95 percent of farms with gross annual sales of \$500,000 or more used at least one of the technologies compared with around 50 percent of farms that had gross annual sales of \$10,000

to \$25,000.

As well, nearly 95 percent of grain and oilseed producers that farmed more than 5,000 acres in 2015 were using GPS and auto steering technology to plant, manage and harvest their crops.

The Statistics Canada document also said computers and laptops are being used for farm management on 56.2 percent of Canadian farms.

That number would probably be much higher on large farms that spend more money on crop production and have larger annual sales figures, Dorff said.

Very small operators that have annual sales of a few thousand dollars may not require computers to manage inventories or track sales and expenses, he added.

At the same time, small operators are far more likely than large farmers to market their products directly to consumers.

According to Statistics Canada, more than 24,500 Canadian farms (12.7 percent) were involved in direct marketing in 2015.

Nearly 25 percent of farms with annual sales of \$10,000 or less sold directly to consumers, compared with six percent of farms with annual sales of \$1 million or more.

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Agronomist Keith Gabert showed participants on the Canolapalooza tour the effects of treated and untreated seed in trial plots.

ED WHITE PHOTO

## CANOLAPALOOZA

# Man. plot trials reinforce role of treated canola

Agronomist says most farmers don't scout their fields well enough to control flea beetles with spraying

BY ED WHITE  
WINNIPEG BUREAU

It's almost impossible to find a bag of untreated canola seed.

There's a reason for that.

"You'd have to be braver than me," said Canola Council of Canada agronomist Keith Gabert at Canolapalooza.

"I hope you have a skid of whatever your favourite insecticide is."

Gabert was talking about tiny demonstration plots that showed what can happen when untreated seed produces plants that face a flea beetle onslaught at the wrong time.

The plots were not an accurate depiction of what happens in a real farmer's field but exaggerated the differences between treated and untreated to make the point clear.

The early-seeded strips showed little difference because flea beetles were not active in large numbers until the plants were well-developed.

The late strips were starkly different, with the one using treated seed looking fine, but the untreated strip had almost no canola plants left.

"This is a phenomenal management tactic for managing an early season pest," said Gabert.

It is theoretically possible to control early flea beetles by spraying, but that requires very early spotting of the problem and speedy application, which isn't generally possible for most growers.

"Most producers don't go out and check their fields aggressively

enough to try to manage flea beetles with a foliar insecticide," said Gabert.

Most seed treatments contain multiple products, with both insecticides and fungicides rolled into the package. Trying to run with just fungicides didn't work out too well, said Gabert, recalling the days of Foundation Lite.

**The seed treatment is a really important part of the package but ... it doesn't fix bad agronomy.**

KEITH GABERT  
AGRONOMIST

"They didn't do it very long, did they?" he asked rhetorically.

However, Gabert warned against farmers assuming that seed treatments allow them to slack off with crop monitoring and management. They just give the crop a head start.

"The seed treatment is a really important part of the package but ... it doesn't fix bad agronomy."

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## CROP PROTECTION

# Possible fungicide breakthrough bodes well for farmers

Two multinational chemical companies working on 'novel fungicidal compound' that promises to ease resistance worries

BY SEAN PRATT  
SASKATOON NEWSROOM

Two major players in the agricultural chemical industry are collaborating on bringing a new lineup of fungicides to the market.

Sumitomo Chemical, one of Japan's leading chemical companies, has discovered a "novel fungicidal compound" that demonstrates high efficacy for the control of major plant diseases.

The company is joining forces with BASF to commercialize a series of new fungicides around the world. Each company will be developing unique formulations using the new compound.

"Together with BASF, we will be able to provide more growers with the opportunity to experience the benefits of this new fungicide,

which will play an important role in the resistance management of serious plant diseases," Ray Nishimoto, Sumitomo's representative director, said in a news release.

Carl Bradley, plant pathologist with the University of Kentucky and a leading expert on fungicide resistance, would like to know if the new compound is a brand new mode of action or a new chemistry within an existing mode of action.

The two companies are keeping their cards close to their chest on that topic.

"Please understand that both companies agreed to not disclose any further details about mode of action, crop and disease spectrum at this point of time," BASF spokesperson Jasmin Tortop said in an email.

Bradley said there is a hint con-

tained in the joint new release announcing the collaboration.

"They say it's novel," he said.

"That may mean it's a new mode of action or at least a mode of action that's maybe not being used currently on the crops that they plan to get this registered on."

Bradley said a new mode of action would be a "huge" development because it would slow down fungicide resistance and help preserve existing tools on the market.

Until recently, fungicide manufacturers have relied on two classes of chemistries, the triazoles and strobilurins.

That is worrisome because more than 20 fungal species have developed resistance to the strobilurin class of chemistry.

That is why it was a welcome development when new modes of

action were introduced within the succinate dehydrogenase inhibitors (SDHI) class of chemistries.

Sabine Banniza, plant pathologist with the University of Saskatchewan, said the last pulse crop foliar fungicide with a new mode of action was introduced about 15 years ago.

She said it is a rare occurrence, so if that's what this collaboration is about, it would be a big deal.

However, even if it were a new active ingredient within an existing mode of action, it would be an important development as long as it was highly efficacious, as stated in the news release.

"That obviously could make it a very attractive fungicide for growers with some of the diseases they're struggling with," said Banniza.

Fungicide use in Western Canada

has really picked up the last five to seven years because of wet weather conditions, she said.

"Nowadays it has become more the rule rather than the exception," said Banniza.

Bradley said herbicides were the main focus for agricultural chemical companies for years until Roundup Ready crops hit the market. Then they switched their attention to insecticides and fungicides.

Sumitomo and BASF say their new lines of fungicides will be commercialized following regulatory approval in major markets. Registration submissions are planned from 2018 onward.

The products will be made available worldwide.

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## PULSE EXPORTS

## India's pulse fumigation exemption avoids penalties on Canadian exports

BY TERRY FRIES  
COMMODITY NEWS SERVICE CANADA

Canadian pulse exports to India won't incur higher fumigation charges.

The Asian country had extended its fumigation exemption in late June, saying exports leaving Canada on or before Sept. 30 would not

require fumigation. However, the June 29 announcement sparked concerns over possible added fees that exporters might incur because it had said pulses that were shipped under the exemption but not fumigated would be charged five times the usual fee for fumigation at Indian ports.

"India had last week issued

another exemption for another kind of category for fumigation of methyl bromide for pulses entering the country, which did outline that if they want to import pulses with that exception, it would cost; there'd be certain fees associated with it," said Oliver Anderson, communications adviser at Agriculture Canada.

Anderson said the situation has

since been clarified and Canadian pulse exporters won't be charged fumigation fees.

India requires methyl bromide fumigation to guard against nematode pests from gaining a foothold in the country.

Canada is trying to phase out the use of methyl bromide because it is classified as an ozone-depleting

substance and the treatment prescribed doesn't work in cold temperatures. As well, the nematode pests that India is concerned about don't exist here and other pests are controlled by the cold weather so no fumigation is necessary.

A news release issued by Ottawa said Canada continues to work toward a long-term solution.

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**33**  
YEARS

## BEER MAKING

# Barley reputation entices brewmaster to Sask.

Thrilled to take over the helm at Great Western Brewing, Amanda Butt says she hopes to experiment with other grains

BY KAREN BRIERE  
REGINA BUREAU

Women have been brewing beer for centuries and the new brewmaster at Great Western Brewing in Saskatoon is carrying on that tradition.

Beer and its consumption might seem like a male domain but that is really only true of the last 150 years or so, said Amanda Butt.

Butt arrived at Great Western in February. Originally from Newfoundland and Labrador, she is finally working in the homeland of something she has found all over the world: Saskatchewan malt barley.

"I've worked in breweries all over this continent and over in Europe, and Saskatchewan barley is sought

after for beer production," she said during a presentation at Canada's Farm Progress Show.

"I don't know if it's the soil or it's the care that people take with it, but I mean people come here for the grain. It's of incredible high quality. It's incredibly consistent. Kernel size is fantastic and it's just right for brewing. In all of the breweries I've worked in at some point we've used Saskatchewan barley."

Butt studied biochemistry in Newfoundland then went to Scotland to obtain a master's degree in brewing and distilling.

She worked in various roles for Labatt Breweries and then landed with Boston Beer Co. in Massachusetts as brewing manager and head of research and development



AMANDA BUTT  
BREWMASTER

operations. That company's flagship product is Samuel Adams.

When she heard the story of Great Western and how 16 original partners took a huge gamble on the business after Carling O'Keefe and Molson Brewing amalgamated and decided to close, she said she was

compelled to move.

"How do you not want to become a part of that?" she said.

Great Western was built in 1927 as Hub City Brewing Co., became Western Canada Brewing in 1930 and Brewery's in 1932. O'Keefe Brewing acquired it in 1956 and ran it until 1989.

The previous brewmaster retired at the end of April after 50 years of experience and the last decade at Great Western.

Butt said it added up to an experience she couldn't resist.

She said quality issues with last year's grain crop haven't hit the brewery, thanks to a strong working relationship with Prairie Malt at Biggar, Sask. She said they have monitored quality closely and kept

in constant communication.

Butt doesn't rule out experimenting with different grains to produce a wider variety of beers.

"Barley is going to be the foundation of most beers," she said. "It's interesting to see people experiment with sorghum and lentils and all of these other grains that you would not normally consider with beer. I fear no grain."

There is a growing movement of women involved in brewing but she said gender is not a factor in determining who makes a good brewer.

"In fact, I'm convinced any man can brew a beer just as good as any woman so I don't think it plays a role," she said, tongue planted firmly in cheek.

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## CANADIAN BARLEY SYMPOSIUM

## Research seeks ability to label malt flavour with barley variety

BY ED WHITE  
WINNIPEG BUREAU

The taste of beer is all about the hops.

Wait a minute, that isn't true, but it's what millions of beer drinkers believe.

That's a problem for the barley

industry and came up a number of times during the Canadian Barley Symposium and North American Barley Researchers Workshop, held June 25-28 in Winnipeg.

"The hops people describe a lot of the hop aroma, flavour, and they are very much at events (promoting beer)," said Xiang Yin of Rahr

Corporation, a malting company operating in both the United States and Canada.

"A lot of the consumers didn't even know there is malt in beer. They think (what they taste in beer) is hops or that hops is the soul of the beer."

Hundreds of researchers, malting

company officials and other members of the barley industry attended the conference in Winnipeg.

It is an unsettling time for the barley industry, with acreage suffering as farmers favour other crops. It comes after decades in which brewers substituted barley with cheaper ingredients and that has, in turn, weakened barley's hold on the beer market.

As well, beer has been losing market share in consumer liquor sales.

Simultaneously, craft brewers are springing up everywhere in North America and putting a new focus and popularity on the idea of using quality ingredients to make authentic beer.

The conflicting factors of weakening farmer interest in barley and increasing consumer interest in quality beer buffeted many discussions at the conference.

Researchers described widespread efforts to try to improve barley as a crop choice for farmers and to build up its value for malter and brewers.

But the lack of awareness by beer drinkers about the importance of malt in the flavour of the beers has sparked concerns.

Yin said recent research has shown that different malts can create starkly different beer flavours, but very little research has been done to break apart the chemical components inside malt and barley that produce those different flavours.

"There could be very different flavour profiles and there could be many, many, many compounds we need to identify," said Yin.

Chris Swersey, the supply chain



XIANG YIN  
RAHR CORPORATION

specialist with the U.S. small-brewer-focused Brewers Association, said his organization is putting money into breaking apart the flavours that barley and malt provide to beer so brewers can develop even more varieties of flavour, and so that drinkers can better understand what they're getting from barley.

"We're spending a lot more time on this," said Swersey.

"What do we mean by flavour? We're starting to dig into that and getting some really good answers as an industry, whereas three years ago we did not understand that."

Now 11 of the 13 researchers his organization is working with include flavour as a component of their analysis, he said.

Brewers, especially small and craft brewers, often proclaim their allegiance to the notion of barley-based beer, but they have few details to give the consumer about the flavour provided by barley varieties and malt types in the finished product.

The barley industry hopes it has begun to change that, and it hopes that this will be part of the equation that encourages farmers to keep growing the crop.

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# FARMLIVING

## TAKING STREET FOOD HOME

The TEAM column presents ways to enjoy treats from holidays, food trucks and street vendors back home. | **Page 18**



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FARMYARD ART

## If it's metal, it's ripe for makeover

BY **BRENDA KOSSOWAN**  
FREELANCE WRITER

LINDEN, Alta. — Compelling evidence of a retired rancher's

powerful addiction is creeping across his yard.

It all started innocently enough. About 17 years ago, realizing that their children had no interest in

taking over, Ron and Karin Armstrong sold their family ranch near Youngstown, Alta., and moved to a quarter section north of Linden.

Not one to sit idly on the sidelines

after leaving the ranch, Ron took a job at the John Deere dealership in Drumheller and, in his spare time, started tinkering with used and discarded parts.

Every week, he would bring home the metal bits in the back of his pick-up truck, setting his fertile imagination on fire.

He began creating a metal menagerie, starting with a mythical bird made from old leaf rakes. He made a set of faces out of old spades.

Horseshoes, chains, nuts and bolts were welded on to make moustaches, noses, eyeballs and hair. Railway spikes, slices of rail and cultivator springs were reborn as a herd of longhorn cattle.

Discarded dinner forks were twisted into stainless steel snails, and fieldstones the size of lounging chairs were planted in a garden of gravel.

"We farmed forever and ever out there and we hated rocks. But we came over here and we found all these and we dragged them home and pressure washed them," said Ron.

Karin said Ron was so embarrassed to be seen washing rocks that he asked her to warn him if anyone was coming into the yard.

Ron started collecting the most colourful stones out of the gravel in

his yard and now has five tumblers installed and working in his shop polishing them.

Dominating the yard is his largest and most extravagant piece yet.

At 3.4 tonnes and roughly four metres high, the Harvestasaurus was built in the spring of 2015 from discarded combine parts over a six-week period.

Excluding a piece of pipe, a couple of reflectors and two plastic coffee cups, the Harvestasaurus is all Deere from its skids and wheels to its yellow hat and yellow bow tie.

Even its creator is uncertain of its species. Its arching proboscis suggests that it may belong to the mastodon or elephant family, while its eyes and antennae are more insectile, like those of a menacing wasp or hungry locust.

People driving into the yard after dark cannot escape the glow from its bright red eyes, reflected from their headlights.

Now that the Harvestasaurus is complete, Ron has a few more projects in mind for his growing stash.

He hasn't settled on anything yet, but thinks his next project may start with the corpse of an old Cessna Skymaster airplane that's perched on the pile. It is missing wings and propellers, but that will change soon enough.



ABOVE: Metal worker Ron Armstrong built his largest project so far, the Harvestasaurus, from about four tonnes of discarded John Deere combine parts. | BRENDA KOSSOWAN PHOTOS

TOP: Railway spikes, slices of rail and cultivator springs were reborn as a herd of longhorn cattle.



You can always make a new friend when you have an old spade.

## INTERNATIONAL RECIPES

## Enjoy unique flavours from around the world

## TEAM RESOURCES



SARAH GALVIN, BSHEC

Street food offers cheap and cheery meals to indulge in and remember fondly from vacations. Local cookbooks make good souvenirs that allow you to make those dishes at home.

## STRAWBERRY LASSI

A lassi is a refreshing yogurt drink available in every market in India. It can be plain with a touch of honey but the most popular is mango lassi. For a local twist, enjoy this strawberry lassi.

1 c.	sliced fresh strawberries	250 mL
2 c.	whole milk yogurt	500 mL
2-3 tbsp.	cream	30-45 mL
1/2 tsp.	ground cardamom or 1/2 tsp. rosewater	2 mL
4-5 tbsp.	honey	60-75 mL
1/2-3/4 c.	ice cubes	125-175 mL
	mint leaves for garnish	

Add strawberries, cardamom and honey to a blender, then puree. Add yogurt, cream and ice cubes and blend until smooth. To make a thinner lassi, add milk. Serve immediately and garnish with mint leaves.

## PERUVIAN CEVICHE

Ceviche is common throughout Central and South America and each country has their own version. Tiger milk is an acidic mixture for marinating and cooking raw fish.

## Tiger milk

2/3 c.	fresh lime juice	150 mL
2	cloves garlic smashed	
1 tbsp.	chopped fresh cilantro leaves	15 mL
1/2	small red onion, chopped	
1/2 c.	bottled clam juice (optional)	125 mL
	kosher salt	
	dried red chili flakes	

Set a fine-mesh sieve over a small bowl. Puree first four ingredients and four large ice cubes in a blender until smooth. Add onion, pulse about four times. Strain liquid into a medium bowl. Stir in clam juice, if desired, and season with salt. Cover and chill.

## Ceviche

1 small	sweet potato	
1 ear	corn, husked	
	dried red chili flakes	
1 lb.	raw firm white fish or shrimp	500 g
1 small	red onion, quartered and thinly sliced, divided	
	kosher salt	
	cilantro leaves	
	dried crushed chilis	

Pour water into a large pot fitted with a steamer basket to a depth of one inch (2.5 cm). Bring to a boil. Add sweet potato and corn, then cover and cook until just fork-tender. Transfer to a plate and let cool.

Cut kernels from cob. Reserve 1/3 cup (75 mL) kernels and save extra kernels for another use.



Place shrimp, two-thirds of onion, leche de tigre and four large ice cubes in bowl. Stir well. Let marinate for two minutes. Remove ice, then fold in potato and corn. Season with salt.

Using a slotted spoon, divide ceviche into small bowls or onto plates. Drizzle with tiger milk and garnish with remaining onion and cilantro.

## BEEF TAMALES

Making a big batch of tamales is like making a batch of perogies. It is labour intensive and a good project for two or three people. Make the filling the day before so things move more quickly. Tamales freeze well and can be reheated easily in a microwave or by steaming. They are also gluten-free and can easily be made vegetarian.

4 c.	instant corn masa mix	1 L
4 c.	lukewarm water or broth	1 L
2 tsp.	baking powder	10 mL
1 tsp.	salt	5 mL
1 1/3 c.	lard or shortening	325 mL
6 lb.	pork butt roast	3 kg
1 bottle	hot red salsa	
1 pkg.	dried corn husks	

Rub pork roast with cumin and salt and put fat side down in a roasting pan. Cover with tin foil and crimp edges so the steam will be sealed inside. Roast at 400 F (200 C) for four hours.

After each hour, turn the roast over. When fully cooked, let cool and then shred the meat with two forks. Add enough sauce to moisten.

Soak corn husks for two hours or overnight in warm water. Make a few strings for tying the tamales by tearing pieces of one of the husks. Mix shredded meat with enough salsa to moisten.

In a deep bowl, combine the masa, baking powder and salt. Pour broth into the masa and work it in to hydrate the masa. In a small bowl, beat vegetable shortening until fluffy, then add it to the masa and beat.

When you are ready to wrap, take two corn husks, with the widest part meeting together and glue with a little masa. Place about 1/4 cup (60 mL) masa and smear into a square and place two tablespoons (30 mL) of beef filling in a strip down the centre of the masa.

Fold long sides of husk and dough over filling to cover. Fold up narrow end of husk. Tie folded portion with strip of husk to secure, leaving wide end of tamale open. After they are all rolled and tied, steam them.

Put steamer insert in bottom of a deep pot and fill with water to just reach bottom of steamer insert. Line bottom of insert with some softened corn husks. Stand tamales in steamer basket. Insert crumpled pieces of



Make an international meal with strawberry lassi, top left, Indonesian chicken satay, top, and Peruvian ceviche, above. | SARAH GALVIN PHOTOS

foil between them to keep tamales upright.

Bring water in pot to boil. Cover pot and steam until dough is firm to touch and separates easily from husk, adding more water to pot as necessary, about 45 minutes. Let stand 10 minutes.

## INDONESIAN CHICKEN SATAY

## Satay Sauce

1 c.	unsweetened coconut milk	250 mL
3/4 c.	roasted salted peanuts	175 mL
1/2 c.	water	125 mL
1/2 c.	finely chopped onion	125 mL
2 tbsp.	fresh lemon juice	30 mL
2 tbsp.	soy sauce	30 mL
2 tbsp.	packed brown sugar	30 mL
2	cloves garlic	
1 tsp.	crushed red pepper flakes	5 mL
1 tsp.	fish sauce	5 mL
1 tsp.	peanut oil	5 mL

## Chicken

1/2 c.	unsweetened coconut milk	125 mL
1/4 c.	soy sauce	60 mL
2 tsp.	red wine vinegar	10 mL
2 tbsp.	vegetable oil	30 mL
2 tbsp.	grated peeled fresh ginger	30 mL
4 tsp.	coriander	20 mL

2	crushed garlic cloves	
2 lb.	skinless boneless chicken breasts cut crosswise into 1/4 inch slices	1 kg
16	10-inch bamboo skewers soaked for 30 minutes in water	25 cm

Make sauce by pureeing first 10 ingredients in blender until smooth. Add sauce to a saucepan and simmer until thickened and reduced to about two cups (500 mL). Stir occasionally.

It can be made a day ahead. Cover and refrigerate and reheat.

To prepare the chicken, add first seven ingredients to a large bowl. Add chicken and toss to coat. Cover and refrigerate one hour. Thread chicken onto skewers.

Transfer 1/3 cup (75 mL) sauce to a small bowl and brush it over the chicken. Bring rest of sauce to simmer over low heat. Grill chicken until cooked through, turning frequently and basting with sauce from bowl, about six minutes total.

Transfer skewers to a plate, serving satay sauce alongside.

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

## HIGH CHOLESTEROL

## Alternatives to statins

## HEALTH CLINIC



CLARE ROWSON, MD

**Q:** I am a 70-year-old male. I am in good health but I do have high cholesterol. As I am a dairy farmer, I like my milk and cheese. My doctor wants me to take Lipitor but I do not want to take it due to bad side-effects. Is there something else that is easier to take? I don't think there have been any early deaths from heart attacks in my family.

**A:** At your age, taking statin drugs may not be as helpful as for younger patients. A recent study has been published in *JAMA Internal Medicine Journal* that analyzed data from 2,867 older adults in the lipid-lowering trial component of a heart attack trial.

Researchers J.H. Han and associates found no significant benefit in all-cause mortality or cardiovascular outcomes after Pravastatin, a statin drug, was given to older adults with moderately high blood lipids and hypertension.

They also found that there was a small and not statistically significant tendency to an increased all-cause mortality with Pravastatin among adults 75 years and older.

The journal's editor, Dr Gregory Curfman of Harvard Medical School, reported that the combination of multiple risks in older adults "should be considered before prescribing or continuing statins for patients in this age category," because they may be associated with an increased mortality rate.

There is a safer alternative drug known as Ezetimibe or Ezetrol, which inhibits the absorption of dietary cholesterol. In other words, the fats will go straight through you.

However, as long as you do not eat too much cheese, you will not be running to the bathroom.

Those people in a lower age group who have higher than desirable cholesterol levels, particularly those with a family history of heart attacks and strokes, are more likely to continue to benefit from prescribed statin anti-cholesterol drugs such as Lipitor or Crestor.

## MEASLES OUTBREAK

In Europe and the rest of the world, the current measles outbreak is continuing to expand. At the time of writing, this involves at least 32 countries.

Romania has the highest number of cases with 6,500 reported so far, followed by Italy with about 2,500.

Most of the new cases have been tracked back to the Romanian strain. Ninety percent of those affected were not previously vaccinated, while another six percent had only had one dose of the vaccine.

Although no new cases have been reported in Canada as I write this, there is always a slight risk when travelling on airlines. Make sure your children are vaccinated.

Clare Rowson is a retired medical doctor in Belleville, Ont. Contact: [health@producer.com](mailto:health@producer.com).

ON THE FARM

# Couple works toward profitability of cattle sector

Producers also say sector co-operation will lead to amazing things

BY BARB GLEN  
LETHBRIDGE BUREAU

VALLEYVIEW, Alta. — The late 1970s and early 1980s were pivotal years for Roland and Fay Cailliau. They moved from Alberta's south to north and from crops to cattle.

It has worked out well. "I love what I'm doing," says Roland, the current vice-chair of Alberta Beef Producers. "I enjoy cows. I enjoy cattle. Always have."

Roland grew up on a farm near Enchant, Alta., and has no fondness for the demands of moving irrigation pipe and tending crops, which he remembers well.

Fay grew up on a farm near Edmonton so agriculture has always been their individual and shared culture.

"Here we have life easy compared to what we had down there," says Roland.

"I got into cattle because it fit well with the land here. Our land here, it's poor soil. Poor drainage, poor soil. Clayish. Grows hay, grows feed like you wouldn't believe."

## ON THE FARM



ROLAND & FAY CAILLIAU  
Valleyview, Alta.

The Cailliaus have about 125 cows on 12 deeded quarters of land north of Valleyview.

The cattle are primarily Simmental with Red Angus influence, and the land is managed in a 10-year rotation of two years in grain, four years in hay and four years in pasture.

This year, for the first time in the last 30, he planted a few acres of canola but weather conditions hadn't favoured the crop as of late June.

"We can make it work a lot better with cattle economically than we can with grain," said Roland.

"We tried grain in the '80s and we started switching over to cattle and we've just maintained that. The only reason we grow any grain now is for rotational purposes. That's it.

"We just feel we've got to work up that soil once in awhile. The clovers, the alfalfas tend to die out and the quack grass takes over. Quack grass is fine feed, there's nothing wrong with it, but we find that it just works better if we rotate a little bit."

Roland said he's been lucky in the cattle business in several respects. He sold most of his herd in a drought year and considered rebuilding a few years later. He and Fay decided against it, and another drought came the following year and they were relatively unscathed.

He was operating a livestock trucking business in 2003, the year



BSE disrupted the industry.

"When '03 hit, we had a small herd, about 25 cows. So it didn't affect us like it affected so many others," he said. "I was lucky."

The trucking business was sold in 2009 and the family concentrated on cattle ranching.

"I haven't regretted it. I enjoyed the work. We had a good business, and travelled from north of Fort St. John all the way to Lethbridge and every point in between, and over to Saskatchewan the odd time.

"It was fun. I enjoyed myself. Made decent money. What else can you want out of life?"

Fay and Roland have four grown children, none of whom are involved in the ranching operation, and there are now six grandchildren. Roland notes that the kids grew up in the late 1980s and early 1990s, when agricultural profits were low to non-existent.

"If there'd been really good money, they might have stayed. Not saying they would have, but they might have," said Roland.

As a cattle producer and the next chair of ABP, he wants to see the cattle business become consistently profitable.

"We talk about succession all the time.... I keep saying, you show sustainable profitability, so it's year after year, people will come back or stay on the farm. You do what we did in the '80s and '90s, and everybody leaves. That's why we lost a generation or two of farmers."

Their own succession plan consists of giving each child three quarters of land and letting them decide what to do with it.

Roland initially got involved in ABP over objections to a proposed government policy embraced by a former agriculture minister.

"In blunt language, I was pissed off at George Groeneveld. That's why I joined ABP."

He felt the Alberta Livestock and Meat Strategy was being forced on cattle producers using a stick rather than a carrot type of approach.

"The irony of it is, they were proposing what the industry has gone to," said Roland, referring to traceability and record keeping.

However, he said the carrot of sustainability and the ability to meet consumer desires have proven more effective than the previous approach.

Fay is the operation's bookkeeper, credit adviser and rotational grazing advocate. She works on the ranch but claims she has no talent for helping at calving time.

"I'm just really no good at it," she said. "I've had lists made up for me. I've had people explain what to look for and it's always a surprise."

She and Roland enjoy the story of why he no longer brings her flowers.

"He came home with flowers one day two decades ago and has never forgiven me for this statement. I looked at the flowers, I looked at him and said 'you bought the tractor.'"

As it turned out, he hadn't bought a tractor, only the bouquet.

"He used to buy them rather regularly. I'm so sad. Maybe one day," said Fay with a smile.

She also admits to one day writing her resignation. Roland, who was trucking at the time, shared the news with other ranching wives, expecting them to be aghast.

"Each one of them said, 'I wish I'd thought of that,'" recounts Fay.

"She wrote the letter of resignation, but I didn't accept it," said Roland.

As he looks toward next year as ABP chair, he has some specific goals.

"Continue on a steady course



Roland and Fay Cailliau raise cattle on 12 quarters north of Valleyview, Alta. | BARB GLEN PHOTOS

towards increasing the profitability of the industry. At the end of the day, I think that's what it's all about. We have to do things that end up leaving more money in producers' pockets."

He also wants to foster more co-operation between the cattle industry's various sectors, among them the Alberta Cattle Feeders Association and the Western Stock

Growers Association, the packers, retailers and consumers.

"We realize that we need to work together on as many things as we possibly can. I think it will come. I think we'll be there within the next couple years. We'll have it figured out. Then we can really do some amazing things."

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## CONSUMER PURCHASING

# Food companies aware of 'new consumer' demands

If food makers don't adjust to concerns about animal welfare and sustainability, it could lead to a train wreck, says Maple Leaf

BY BARBARA DUCKWORTH  
CALGARY BUREAU

OTTAWA — A group nicknamed YEMP could be the most influential consumer demographic since the baby boomer generation came of age.

Young, educated millennial parents are a food conscious group representing 24 percent of the population and able to take advantage of many more food choices than past generations.

Food companies need to figure out how to adapt to these shifting trends, said Kathy Perrotta of Canada Ipsos Marketing.

The company has been studying food consumption habits and presented the most recent findings to the Canadian Meat Council's recent annual meeting.

The most recent study worked with 20,000 consumers who showed modern eating is driven by spontaneity and whim. People no longer stick with three meals a day cooked at home.

They are straying into snacking and buying food online and other non-traditional outlets.

Perrotta pointed out the oldest boomers are pushing 70 years, represent 27 percent of the population and still hold much spending power.

Generation X represents about 15



Young consumers are reading labels, eating less meat and want to know how food is raised. | GETTY PHOTO

percent of the population. They were raised in an era of awareness and often focus on premium products.

"They are all about me, personalization and customization and look at the overall impact of food on their wellness," said Perrotta.

The study asked participants to keep daily food diaries and those showed 58 percent of meal decisions were fueled by convenience.

More people younger than 35 admit they eat five to six times throughout the day.

However, about half the popula-

tion still eats three meals and does not often snack.

Perrotta said the mini mealers have a wide sphere of influence.

They read labels and look for claims like vegan, vegetarian, no antibiotics, no hormones, probiotics, farmed responsibly, no GMO, vitamin enriched, premium or single portion. They want third party certification because they distrust big brands.

Meat protein is declining and non-meat protein is growing.

The larger trend is with people being more mindful of the portions.

More than half said all meat proteins are consumed for dinner, with chicken being most popular. Many also said they cook their meals on a stove top rather than oven.

More people are eating alone. Households are shrinking and people say they are too busy with activities to always gather for a meal.

Millennial parents want more fresh, organic and local as well as more fresh fruits and vegetables in the family diet.

The survey also showed the number one trend among Canadians is a desire to learn more about farm-

to-table stories.

Food companies are starting to realize that.

Ian Gordon of Loblaws said the company decided to make changes 10 years ago and offer shoppers more choice.

It started offering fresh and frozen meat products that were free from added hormones or antibiotics. The company also expanded its organic line.

"This was a product where we could take a commodity, brand it and add value that the consumer was looking for," he said during a panel discussion at the council meeting.

Meat company president Michael McCain of Maple Leaf Foods is also aware of the changing consumer.

"Today our industry is at a crossroads. We are at a very pivotal time in the meat industry," he said.

There is a whole generation of new consumers caught up in a tremendous amount of tension around the world.

"That tension shows up in how consumers perceive meat products, around the profile of health and nutrition, maybe responsible consumption," he said.

"It doesn't mean it is a train wreck but in my personal experience that kind of tension that goes unaddressed over a long period of time will turn into a train wreck," he said.

People are concerned about food security. They want affordable food that has been produced sustainably and is considerate toward the animals that provide food, he said.

"We can participate in a food industry of 2050 and not be viewed as the enemy by the food movement around the world, which we are today," McCain said.

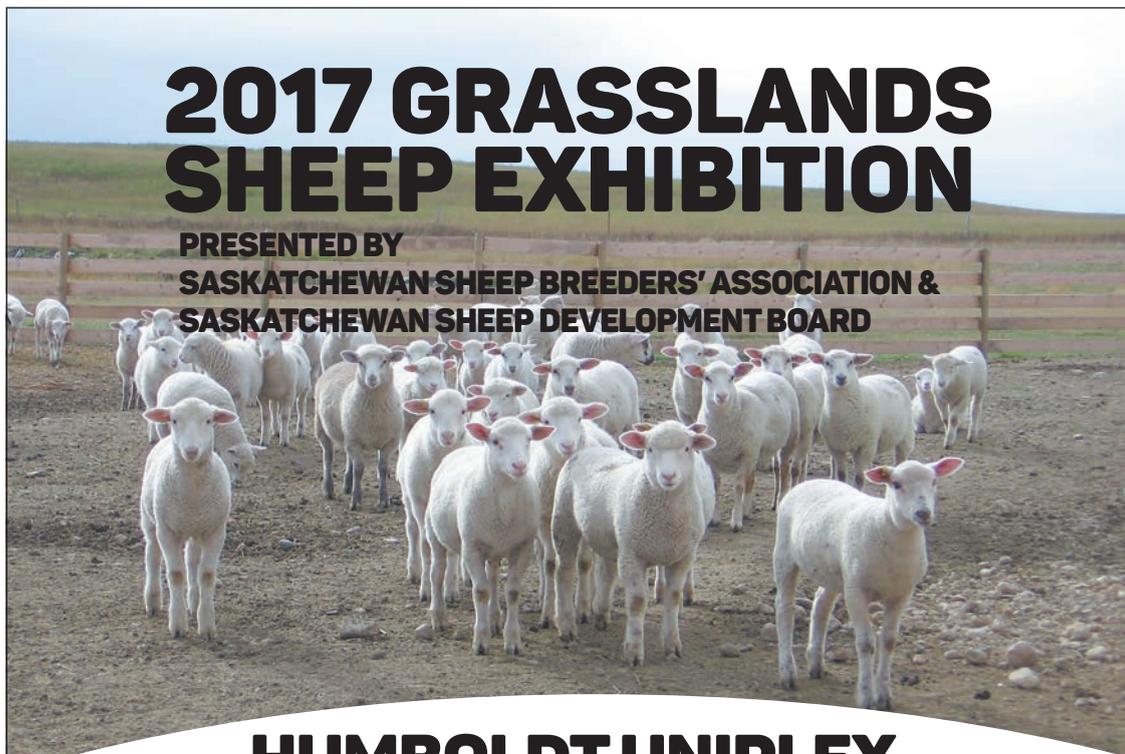
He said consumers expect companies to pay attention to issues and take positive steps forward.

"We are not an industry that has been lily white. The most important thing for us in advocating change is being very positive not for defending what was, but thinking about what needs to be in all these dimensions... then communicate the hell out of it in every form we can come up with," said McCain.

barbara.duckworth@producer.com

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### FARM LIVING NOTES

#### ALBERTANS NAMED CANADA'S NEW ASTRONAUTS

Albertans Joshua Kutryk and Jennifer Sidey are Canada's newest astronauts. The pair was chosen from more than 3,000 applicants to the Canadian Space Agency.

The list was pared down to 17 and included Jason Leuschen, originally from Bruno, Sask. He is a helicopter pilot trainee based at Portage la Prairie, Man.

Kutryk has worked as an experimental test pilot and a fighter pilot for the Canadian Armed Forces in Cold Lake, Alta.

He hails from Fort Saskatchewan, Alta. and was raised on a cattle farm.

Jennifer Sidey, originally from Calgary, worked as a mechanical

engineer, combustion scientist and lecturer at the University of Cambridge in England.

The pair will relocate to Houston, Texas, this month to begin a two-year astronaut training program.

#### PROUD TO BEE A 4-HER

More than 190 clubs signed up for the 2017 edition of the Proud to Bee a 4-Her program.

It helps 4-Hers learn about the role of pollinators in sustainable agriculture and food security.

This year, 4-H Canada is also distributing more than 30,000 additional seed packets across Canada through its Canada 150 Signature Project. It is intended to share the story of agriculture with other Canadians.

ANTIBIOTIC RESISTANT BACTERIA

# Researchers use synchrotron to battle superbugs

Canadian Light Source is used as microscope

BY WILLIAM DEKAY  
SASKATOON NEWSROOM

Dr. Albert Berghuis is warning that superbugs are at a critical stage and most people have not grasped the seriousness of the situation.

Berghuis of McGill University's Faculty of Medicine said a recent study in the United Kingdom found that if bacteria resistance to antibiotics continues to spread, more people will die from antibiotic resistance than from cancer by 2050.

"We just think now, oh sure this can always be cured. That time will not exist if we don't do something."

With help from the Canadian Light Source at the University of Saskatchewan, researchers from McGill University have discovered how superbugs gain resistance to certain antibiotics.

Berghuis said researchers have built up enough data to "out-trick superbugs."

He said it involves designing a slightly different antibiotic that is not recognized by the enzymes the

bacteria use to develop resistance. "We've used the Canadian Light Source as a microscope to look at these enzymes, these kinases, and how they take a macrolide, how they recognize a macrolide and how they then detoxify the macrolide," he said.

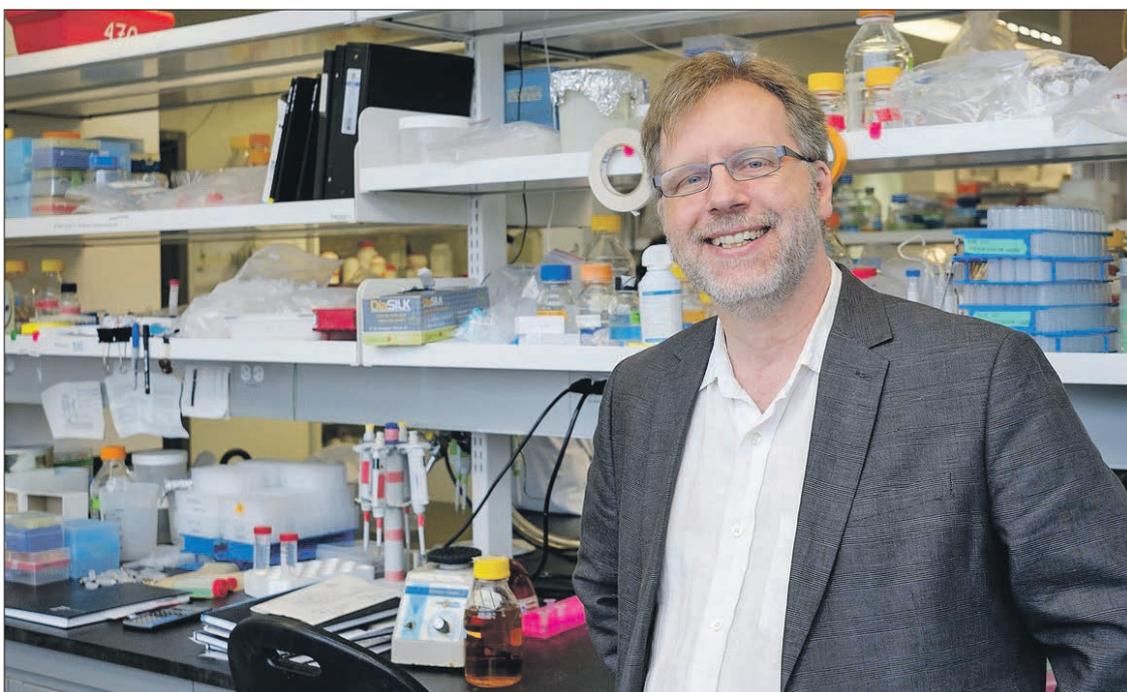
Macrolide antibiotics are prescribed for infectious diseases, including upper respiratory tract, skin and soft tissue infections. They are also prescribed as an alternative to penicillin.

Antibiotics are also added in feed to prevent illness and promote growth in many livestock operations.

The rising bacterial resistance to antibiotics has raised concerns about antibiotic overuse, which has sparked calls for an end to the practice in livestock operations.

Berghuis said enzymes in the bacteria have the ability to chemically modify antibiotics by taking a molecule that has a phosphate group in it and attaching that phosphate group to something else.

Kinases stick the phosphate



Researcher Albert Berghuis says knowing how superbugs gain resistance to antibiotics will help develop an attack plan. | SUPPLIED PHOTO

*This is one of the reasons my group is studying antibiotic resistance in this much detail so we can anticipate what kind of tricks the bacteria could come up with and you put that into your design.*

ALBERT BERGHUIS  
MCGILL UNIVERSITY

group onto the macrolide antibiotic, which is enough to render the antibiotic useless. As a result, the

resistant bacteria or superbug thrives.

"Nature has evolved these enzymes that makes these (chemical) reactions possible. Unfortunately, bacteria have also evolved catalysts that break down antibiotics. Bacteria now have these kinases that take macro antibiotics and detoxify them," he said.

Berghuis said it could take two to three years to develop a new macrolide antibiotic that the enzymes won't recognize.

However, he said the most difficult step is then turning the molecule into something a consumer can buy in a pharmacy, which is

another eight to 10 years of work.

Even with this new way to combat superbugs, the bacteria will continue to evolve and could find a way to develop resistance to the new antibiotic, he said.

"It could take a long time for them to find a way to deal with this, or it might happen very quickly," he said.

"This is one of the reasons my group is studying antibiotic resistance in this much detail so we can anticipate what kind of tricks the bacteria could come up with and you put that into your design."

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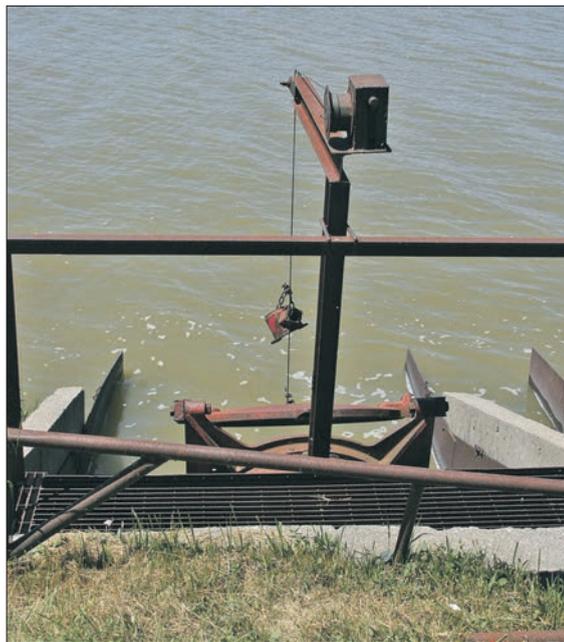


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COLLABORATIVE PROGRAM

# Canada-U.S. group studies phosphorus run-off issues

Tour sees progress of phosphorus reduction programs already underway

BY MARY BAXTER  
FREELANCE WRITER

A new phosphorus-loss program in Ontario hopes to focus attention on heading off phosphorus runoff before it gets to waterways.

Charles Lalonde, co-ordinator for the Thames River Phosphorus

Reduction Collaborative, said the biggest problem is trying to sort out the various groups and phosphorus reduction projects already underway.

"They all have the same thing at heart, they want to do their piece for the environment," he said.

The collaborative began in

2016 as a partnership between the Ontario Federation of Agriculture and the Great Lakes and St. Lawrence Cities Initiative to treat phosphorus loss in runoff between farm fields and main watercourses.

The GLSCI is an association comprising about 125 municipalities in

Canada and the United States.

Since then, the organization's steering committee has grown to 27 municipalities, industry groups such as Grain Farmers of Ontario and the Drainage Superintendents Association of Ontario and government ministries.

The collaborative was announced during a June 27 tour of phosphorus reduction activities in the Jeannette's Creek sub-watershed near Tilbury, Ont. The creek is part of the Thames River system, which covers a large portion of southwestern Ontario.

Researchers have linked phosphorus loss from farm fields, primarily from the Maumee River watershed in Ohio, to a greater frequency of toxic algal blooms in Lake Erie.

Recent research has implicated to a lesser degree the Thames River watershed even though the river empties into nearby Lake St. Clair.

Tributaries that travel through Leamington in Essex County, home to much of the province's greenhouse industry, are also watercourses of concern. Lake St. Clair connects with Lake Erie through the Detroit River.

In 2013, Canada and the U.S. signed an update of the Great Lakes Water Quality Agreement pledging, among other things, to tackle the phosphorus issue in Lake Erie.

In 2015, the two governments announced the goal of reducing phosphorus loading in Lake Erie by 40 percent of its 2008 levels by 2025 in the lake's western and central basins, the areas of greatest concern.

"There isn't one sector to blame, or one industry or one group of people to blame for the phosphorus issue we face," said Trevor Thompson, a Chatham-Kent councillor.

"It's a collaborative effort that we're all going to have to tackle of phosphorus in the Great Lake Erie basin and all throughout the municipalities we call home."

Agricultural groups are doing good work on improving best practices for fertilizer applications, said consultant Nicola Crawhall, one of the project team members.

Nevertheless, factors beyond farmers' control can result in the escape of nutrients from fields.

During one of the tour stops, Colin Little, Lower Thames Valley Conservation Authority agricultural program co-ordinator, recalled one such instance in the Jeannette's Creek area in early March when a windstorm arriving on the heels of an unseasonably warm winter and several dry days scooped up soil from fields.

***It's a collaborative effort that we're all going to have to tackle of phosphorus in the Great Lake Erie basin and all throughout the municipalities we call home.***

TREVOR THOMPSON  
CHATHAM-KENT COUNCILLOR

"You could see the plume as far as Chatham" about 20 kilometres away, he said.

The conservation authority also saw the impact in terms of nutrient loss from the nearby fields in its monitoring system along the Jeannette's Creek watershed. That came with the next big rain following the windstorm, when one of the municipal drains emptying into the watercourse showed a huge spike in phosphorus and nitrogen levels.

"We saw the largest concentrations we've ever seen out here from sampling," Little said.

The conservation authority is also monitoring nutrient losses from plots in two farm operations within the sub-watershed. One farm uses conservation practices, such as cover crops and no-till; the other employs conventional practices.

It's too early to draw conclusions, but the ability to compare results from the sites with those from the overall creek watershed should yield useful data about the effectiveness of different farming practices, Little said.

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**UNRESERVED AUCTIONS Saturday July 29th for James Morrow, Sunday, July 30 for Doreen Morrow and the Estate of JD Morrow.** Sale Site: 25 km East of Sherwood Park, AB on Wye Rd. Ph: 780-699-7174. (Reed) or 780-307-4958 (Andre). Selling Saturday- AGCO 9635 tractor c/w ALO loader, 3200 hrs; Versatile 800; NH 12 wheel rake; NH 411 discbine; Oliver 2655 tractor; MM G1000 c/w 3 PTH; Linkbelt Speeder dragline; Hobbi Toy hauler trailer; **20 Old Tractors & Old Farm Implements.** Selling Sunday- 5 Field Marshalls Series II and III; 2 JD D's; Case K18-32 and 12-20 Cross Motor tractors; 1929 Hart Parr; McCormicks 15-30, 22-36, WK-40; Oliver 1900; 4 Oliver 88's; Rock Island F; Lanz Bulldog 15-30; 1920 and 1926 Model T's; 11 VW cars; 4- 1966 and 1967 Toronado cars; Cat 30; Fowler Mark VF diesel; IH TD9; JD 40-C; Cletrac OC30-40 Ind; 1981 Harley Tour Glide c/w side car; 7.5 HP Stationary c/w Blacksmith Shop. All of the above are in original cond. Yard is full. View online at [www.prodanikauctions.com](http://www.prodanikauctions.com)

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**FARM AUCTION FOR THE ESTATE OF FELIX SEBASTIAN**, Tuesday, July 25, 11:00 AM, Montmartre, SK. Location: 8 miles South, 3 miles West, 1/2 mile North of Montmartre, SK., or 16 miles East of Francis, SK. on #708 Grid, 1/2 mile North. Watch for Signs! GPS: 50.114863, -103.506421. On Offer: JD 6200 dsl. tractor, w/JD 620 FEL and bucket, 3 PTH; 1981 JD 3140 dsl. tractor; JD 4560 MFWD, 3 hyd., 18 spd. powershift; 2009 Ford F150 FX4, SuperCab, 5.4 V8; 1983 Ford F700 grain truck, steel B&H, roll tarp, 5&2 trans., 370 V8; Keen 6x16' T/A bumper stock trailer; Morris CP 731 DT cultivator w/Degelman harrows and Valmar; JD 100 14' DT cult.; Morris B3-36 rodweeder; MF 26 run disc drill w/fert. attachment; 1992 JD 235 22' tandem disc; Flexi-Coil System 95 50' harrow packer bar, P-30 packers; JD 9350 30' hoe drill w/transport; 1987 JD 6620 Titan II SP combine, 212 PU header, spreaders, shows 2085 hrs; 1996 JD 2360 21' SP swather; Koenders swath roller; REM 552 grain vac, 540 PTO; 1981 JD 9' mower conditioner; JD 327 square baler, 1/4 turn chute; NH 1037 PTO bale wagon; JD 503 3 PTH rotary mower; NH 7' trail mower; Flexi-Coil post pounder; 2- NH #55 side delivery rakes; manure fork and bale fork; misc. bale feeders; Mister Squeeze livestock chute; feed trough; JD portable air compressor; Farm King 7' 3 PTH snowblower; 1000 gal. fuel tank and GPI pump; misc. shop and hand tools and much more! Call Rick 306-424-7311 or Bob 306-424-7388. [www.2sauctioneers.ca](http://www.2sauctioneers.ca) PL #333133.

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Unreserved Public Auction

**Lethbridge, AB**

July 20 (Thursday) | 8 am



1 of 2 - 2016 Case IH Magnum 340, 2013 Case IH 550, 2015 Case IH Patriot 4440 120 Ft, 1 of 8 - 2015 Case IH 8240 & 2015 Case IH WD1204 25 Ft



2009 John Deere 9630T, 2 - 2013 John Deere 9510RT & 2014 John Deere 8335RT



2 - 2013 Case IH 550, 2011 Case IH 535 & 2012 Case IH 500



2 - 2016 Case IH Magnum 340, 2 - 2016 Case IH Magnum 240 & 2016 Case IH Magnum 220



5 of 8 - 2015 Case IH 8240 - All w/Low Hours



2009 New Holland T9040HD & 2012 New Holland P2050 46 Ft w/P1060



2013 MacDon M155 & 2013 D65-S 30 Ft



2 - 2012 John Deere 290G LC



2012 John Deere 772G



2007 John Deere 300D



2012 John Deere 850J WLT

Real estate selling in this auction



Stage Coach Inn - 16 Unit Motel - Duchess, AB



4 Bay Commercial Strip Mall - Duchess, AB

Jerry Hodge - Ritchie Bros. Real Estate: 780.706.6652  
Brokerage: All West Realty Ltd.

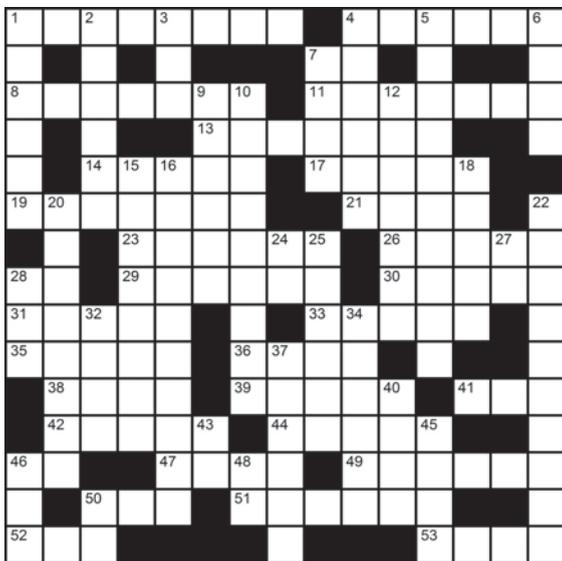
**Lethbridge, AB**  
July 20, 2017

South of Lethbridge at Hwy 4 & 508  
Phone 403.327.4933

Over 752+ items in this auction

- Ag Tractors
- Air Drills
- Truck Tractors
- Combines
- Swathers
- ...AND MUCH MORE!

**Entertainment Crossword**  
by Walter D. Feener



LETSCHER MAKEUP  
IH O AVALON R  
TR SMILEYS VIE  
VOODOO PRETTY I  
ATWILL HARRY S  
KHAN KAI LOBS  
EWA ACE IMFREE  
GRAMS T N REAR  
R YELLOW GRANT  
EASYA FIT AGNES  
T EVILTHATMEN  
C PRISONEREM  
HOO NAVEEN NAIL  
E O LEST TNT  
NORMAL STEPS T

Last Weeks Answers

ACROSS

1. Sagnier who played Julie in *Swimming Pool*
4. *Twelve O'Clock High* producer
7. Actress Collins
8. Canadian actress Sophie
11. *Secret* (1985)
13. Follow up series to *Father Ted* on BBC 2
14. Organization in charge of the Oscars: abbr.
17. 2012 pilot
19. He played Vince in *The Fast and the Furious* and *Fast Five*
21. 1984 Horror film
23. Best who played the Woman in Black in *The Woman in Black: Angel of Death*
26. 1960 John Wayne film (with *The*)
28. Initials of the actor who played the title character in *Barney Miller*
29. He played George Bluth Sr. on *Arrested Development*
30. 2006 film starring Adam Sandler and Kate Beckinsale
31. Arnold Schwarzenegger's middle name
33. She played Annie in *Alfie* (1966)
35. Co-creator of *Mr. D*
36. \_\_\_ *Stop* (2006 direct-to-video horror film starring Jaimie Alexander)
38. She won a Golden Globe Award for Most Promising Female Newcomer in 1960
39. *Get Him to the* \_\_\_ (2010)
41. \_\_\_ *Wednesday* (1973)
42. *Transformers: \_\_\_ Extinction* (2 words)
44. Robert De Niro's daughter
46. \_\_\_ *Cousin Vinny*
47. *Cheers* barfly
49. *Hogan's Heroes* corporal
50. *Nothing \_\_\_ Trouble*
51. *White of Family Matters*
52. *Think Like a Man* \_\_\_
53. Sommer from Germany

DOWN

1. Canadian who produced *Being Julia*
2. Lavi who played The Girl in *Lord Jim*
3. British actor Blackwood
4. 2007 film starring Jake Gyllenhaal, Mark Ruffalo, and Robert Downey, Jr.
5. *Hardcore Henry* director
6. Cameron of *Growing Pains*
7. \_\_\_ *to the Stars* (2014)
9. Exclamation from Gomer Pyle
10. Jessie or Ned
12. Taylor of *Designing Women*
15. \_\_\_ *Maniacs* (1970)
16. \_\_\_ *Eat the Daisies* (1960) (2 words)
18. Canadian actress who played Aunt Martha Brewster in *Arsenic and Old Lace*
20. She played Drew's Aunt Francis in *The Inkwell* (1994)
22. 2008 film starring Jennifer Lawrence and Selma Blair (with *The*)
24. \_\_\_ *Escape* (2015)
25. 1996 Arnold Schwarzenegger film
27. Gainey who was in *Con Air*
28. \_\_\_ *Plenty* (1998)
32. Jankowsky who was in *Mute Witness*
34. Hollywood stuntman who once doubled for Rod Cameron, Clayton Moore and Wild Bill Elliott
37. He played Delong in *Cry Danger* (1951)
40. *Claire's* \_\_\_ (movie in the series of the *Six Moral Tales*) (1970)
43. Initials of the *Dirty Rotten Scoundrels* director
45. She played Chloe in *All the Boys Love Mandy Lane*
46. Paul Le \_\_\_
48. Raccoon's name in *Over the Hedge*
50. Actor Hopkins

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**AUCTION SALES 0900 AUCTION SALES 0900**

# FARM AUCTION

**WADE BACHUR**  
**Thursday July 20th @ 10:00am**  
**PRINCE ALBERT, SASK**  
**Owners phone: 403-813-8318**

Internet bidding will start at 12:00 sharp on machinery

Directions: From PA, 11.5kms North on Hwy #2 to White Star Road, then East 13km to Paddockwood Road, then 202kms North, Yard on right side \*watch for signs\*.



**\*TRACTORS\*** 1979 Case 2470, approx 6000hrs, 1969 Case 1030 Comfort King, 1968 Case 930 Comfort King, c/w Case 70 series FEL w/ bucket & bale spear, 1965 Case 930 Comfort King, **\*COMBINE\*** 1983 MF 860, showing 2128hrs, **\*COMBINE HEADER\*** MF 9245, 24ft, batt reel, **\*DISCbine\*** 2008 Case/IH DCX 131, 13ft, **\*HIGH CLEARANCE SPRAYER\*** 1996 Melroe 3630 spray coupe, 70ft, showing 2381 hrs, **\*AIR SEEDER\*** Flexi-coil 200 27 1/2 ft, 12" spacing, 2 1/2 plastic packers, c/w Flexi-coil 1110 3 wheeled tow behind cart, **\*SWATHER\*** 1980 Versatile 4400, 20ft, **\*GRAIN TRUCK\*** Ford F-500, 330 V8 Gas eng., 4 + 2 spd trans., showing 51938 miles 14ft steel box w/ hoist, **\*ROUND BALER\*** 2002 Case/IH RBX 561, 14LX16.1 SL tires, hyd PU, approx 6000 bales, c/w Gandy applicator, **\*HARROW BAR\*** 1978 Flexi-coil system 80, 70ft, 5 bar tine harrows, **\*CULTIVATORS\*** IH 18ft vibrashank, Case 16ft DT, Co-op Imp 204, 36ft, DT, **\*TANDEM DISK\*** White 272 33ft, smooth blades front & rear, **\*HAY RAKE\*** MF 36 11ft, **\*V-DITCHER\*** Kirchner, **\*PLOWS\*** Case 6 bottom plow, c/w 6 replacement unused shears, MF 6 bottom plow, **\*AUGERS\*** Westfield TR100-51, Allied 6X36, c/w Kohler 12hp elec start gas eng., **\*COLLECTABLE TRACTORS\*** Approx 1965 Case 730, 1964 Case 830, Case 930 parts tractor, 1958 Case 700 parts tractor, Case 2470 for parts, Case 800 Case-o-matic complete but not running, **\*TRUCK CAMPER\*** Vanguard P2F, 11ft, **\*OTHER FARM EQUIPMENT\*** 2 Hart Emerson fanning mills, MF 36 11ft hay rake for parts, 6 sections of Bourgault MTH 36ft, 2011 Westeel 1000 gal fuel tank w/ fill rite 20 GPM 12 Volt pump, Case 70 series FEL c/w bucket



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**REGINA:** 2016 Chev Traverse; 2014 Ford Fusion; Bayliner Boat; 1997 Crownline 250 Cuddy Boat; 20'x48' Building to Be Moved Plus Mechanics Shop Retirement Sale July 24.

**SASKATOON:** Acreage Estate Auction for Shirley Alberts, Vanscoy - Tractors, ATV's Snowmobiles, Sauna, Hot Tub, Shop & Acreage Supplies, Bids Close Jul 14; 2016 Hyundai Santa Fe Sport SUV; Evinrude E-Tech Outboard Motor; Trucks & Vehicles; 2600 Sq. Ft Contemporary House For Removal - Wiseton; Monthly Industrial Auction W/7 Unreserved Grain Bins; Monthly Ag Equip. - Consignments Welcome!

**Alberta:** Alberta Ag & Industrial Auction - July 20.

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**ONLINE BIDDING ENDS TODAY, JULY 13TH**  
**DOWNSIZING AUCTION FOR ELECTRICAL CONTRACTING COMPANY**

Items Located at 288F Hodsman Road, Regina, SK.

Assorted Job Boxes On Wheels; Quantity Of PVC Pipe Various Sizes & Lengths; Shelving; Reception Desk Unit; Commercial Hanging Fluorescent Lights; Hand Pipe Benders; Connectors, Pipes, Joiners, Switches & Switch Boxes (Various Amps); Assortment of Lights & Lightbulbs; Chisels; Saws & Much More!

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**2 – 2014 John Deere S680**



**2015 John Deere R4045 120 Ft**

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## Unreserved Public Farm Auction

# Steve & Chrisa Kastning and Robert Jones

Govan, SK | July 24, 2017 · 10 am



**2010 Case IH 485 & 2010 Bourgault 3310PHD 65 Ft w/6550ST**



**2011 Case IH 4420 120 Ft**



**2010 & 2012 Case IH 8120**



**2004 New Holland TG255**



**2012 MacDon M105 35 Ft**



**2004 Peterbilt 379 & 2005 Doepker**

**AUCTION LOCATION:** From GOVAN, SK, go 1.6 km (1 mile) North on Hwy 20, then go 12 km (7.5 miles) East  
 GPS: 51.332597, -104.84872 Legal Land Description: SE 26-27-21 W2

**A PARTIAL EQUIPMENT LIST INCLUDES:** 2010 Case IH 485 Quadtrac Track Tractor · 2004 New Holland TG255 MFWD Tractor · 2012 Case IH 8120 Combine · 2010 Case IH 8120 Combine · 2014 MacDon FD75-S 35 Ft Flex Draper Header · 2012 MacDon M105 35 Ft Swather · 2004 Peterbilt 379 Sleeper T/A Truck · 2006 Freightliner M2 Business Class w/ IMT 2500 Boom Truck · 2004 Peterbilt 379 T/A Grain Truck · 2005 Doepker 28 Ft Super B Grain Trailer · 2014 PJ Trailers 16 Ft Tri/A Dump Trailer · 2010 Bourgault 3310PHD 65 Ft Air Drill · 2013 Horsch Joker RT-300 30 Ft Disc · 2011 Case IH 4420 120 Ft High Clearance Sprayer · 2012 Brandt 1020XR Grain Cart · Bins · 2012 Sakundiak SLM12-72 12 In. x 72 Ft Mechanical Swing Grain Auger · 2012 Forest River 36 Ft Travel Trailer · Tanks ...**AND MUCH MORE!**

For up-to-date equipment listings, please check our website: [rbauction.com](http://rbauction.com)

Steve Kastning: 306.725.7554 (h)  
 kastnings@sasktel.net

Ritchie Bros. Territory Manager –  
 Luke Fritshaw: 306.260.2189 800.491.4494



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## Unreserved Public Farm Auction

# Craig & Emer Gudmundson

Mozart, SK | July 25, 2017 · 10 am



**2008 John Deere 9770STS**



**2013 John Deere 4730 100 Ft**



**2004 John Deere 9320**



**1996 Case IH 9350 4WD**



**2000 IH 9900I & 2006 Castleton 45 Ft**

**AUCTION LOCATION:** From WYNYARD, SK, go 13.7 km (8.5 miles) East on Hwy 16. GPS: 51.765584, -103.965172

**A PARTIAL EQUIPMENT LIST INCLUDES:** 2004 John Deere 9320 4WD · 1996 Case IH 9350 4WD · 1978 John Deere 4240 2WD · 1977 Massey Ferguson 265 2WD · 2008 John Deere 9770STS · 2012 Premier M155 35 Ft · 2000 IHC 9900I Eagle T/A · 1989 Ford 800 S/A Grain · 1986 Ford 800 S/A Grain · 1974 Ford 600 S/A Grain · 1988 GMC 7000 S/A Rock · 2006 Castleton 45 Tri/A Grain · 2014 Double AHB208 26 FT/A Equipment · 2015 Diamond C 3RBT 10 FT S/A Utility Equipment · Caterpillar D717A Wheel Dozer · 2013 John Deere Conserva Pak 1870 · 56 Ft Air Drill · Bourgault 8810 40 Ft Air Seeder · 1996 Bourgault 3195 Air Tank · Westward 6 Ft Cultivator · Buhler Farm King Y705TD 6 Ft Disc · John Deere 235 32 Ft Disc · 1995 Morris Wrangler II 50 Ft Harrow Packer · Morris 51 Ft Harrows · 2000 Morris HHB 70 Ft Heavy Harrows · Degelman 6000 Signature Rock Picker · 2013 John Deere 4730 100 Ft High Clearance · 2008 Brandt 1070 Mechanical Swing Grain Auger · 2015 Meridian HD10-46 10 In. x 46 Ft Grain Auger · 2009 Brandt 850 Grain Auger ...**AND MUCH MORE!**

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Craig Gudmundson: 306.554.7976, c.g@sasktel.net  
 Emer Gudmundson: 306.328.4887

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**PREMIUM ACREAGE, LIVESTOCK & HAYING EQUIP. AUCTION**

**FOR HEADRICK HOLDINGS LTD.**  
Swift Current, Sk. (306) 750-8500  
**MONDAY, JULY 24 at 10:00 am.**  
6 miles North of Swift Current on #4 Hwy. to Skyline Road



1977 Case 970 diesel Tractor, 3 pt. ht., 540-1000 pto w/FEL & G/fork \*2013 Kubota MX5100 MFWA diesel Tractor, 3 pt. ht., 540 pto, 255 hrs. w/FEL \*2001 Kubota BX2200 MFWA diesel Tractor, 3 pt. ht., 540 pto, 507 hrs. w/FEL \*2006 Bobcat S185 diesel Skid Steer Loader \*Bobcat Attachments (Sell sep. from Bobcat. Fit Bobcat & Kubota) \*3 PT. HT. Equip. \*2011 Kubota ZD 326 diesel Zero Turn Lawn Mower, 270 hrs. \*JD F525 Frt. Mt. gas Lawn Mower \*2002 Ford F350 1-ton Dually Super Duty Lariat Crew Cab 4x4 Truck, Powerstroke 7.3L diesel motor w/power chip, auto, loaded, extra 80 gal. fuel tank, 5thWh. Ht. \*1977 Ford F350 1-ton Dually Grain Truck, auto, PS, 24,928 orig. miles \*2014 Rainbow 7'x18' B/Pull Flatdeck Trailer \*Southland 7'x20' 5thWh. Stocktrailer \*Highline Bale Processor \*NH 470 Manure Spreader \*3 pt. ht. Side Delivery Rake \*HIGH HOG EQUIP. - Cattle Squeeze \*Palpation Cage \*Calf Tipping Table \*Panels, Troughs, Feeders, Posts, etc. \*45' Flexicoil Harrow Drawbar \*Leon Rockpicker \*10' Friggstad Land Leveller \*And Much More. For further info call Wayne at (306) 750-8500.

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Swift Current, Sk.

**AUCTION SALES 0900**



**BETZ FARMS RETIREMENT SALE,** Wednesday, July 19th, 10 AM, 8 miles south Pelly, SK. Tractors: 1982 Versatile 875, 4 WD, 6568 hrs; 1985 Steiger Cougar CR1225, Cat 3306 eng.; Ford 6000 Commander, dsl; 1976 1066 IHC, 12' blade and A-frame sells separate, 6180 hrs; 1979 IHC 1086 dsl. Payloaders: Approx. 1980 IHC Model H-65 414 dsl. motor, 4 WD, shuttle shift, 3 yd. bucket; Approx. 1974 MF 300 wheel loader, 2 yd. bucket, Clark loader. Harvest: 1994 Case/IH 1688 SP combine, Swathmaster 14' PU, chopper, 3254 hrs; 1987 IHC 4000 19-1/2' SF swather, gas, batt reels. Trucks: 1993 Freightliner tandem grain truck, L10 Cummins, air ride, 10 spd. Eaton, steel B&H, roll tarp; 1972 IHC 1700 Loadstar, TA, 5&2 spd.; 1964 IHC 1600 304 V8, gravel box. Lots of field, tillage, shop and tools. Ken 306-590-7594; Randy 306-542-8559; Larry 306-542-8560. Photos at [www.eisnerauctions.com](http://www.eisnerauctions.com) Lawrence Eisner Auctions, Minitonas, MB, 204-525-2225. SK. PL #908417.

**MCSHERRY AUCTION: FARM LAND AUCTION** Denise Pasieczka (Late Bill) on Saturday, July 29, 10:00 AM, Domain, MB. 4 Miles South on Hwy 330, then West 1-3/4 miles on Rd 38. Contact: Denise 204-793-1891 or Brian 204-880-1742. Parcel 1: RM of MacDonald SE 16-7-1-E 160 cult. acres of Red River soil land. Serious sellers. Reserve Bid of \$4000/acre. Parcel 2: RM of MacDonald NE-9-7-1-E 160 cult. acres of Red River soil land, including yardsite, older 1-1/2 storey house, plus basement, 40'x80' insulated shop, 3 gunshed sheds, 2 w/cement floors, more older farm buildings, well sheltered yardsite. Serious sellers. Reserve Bid of \$4000/acre, plus \$200,000 for yardsite. Property sells in conjunction w/their tractors, equipment, tools and antique auction! For terms and conditions go to web! Stuart McSherry, Stonewall, MB., call 204-467-1858 or 204-886-7027. [www.mcsberryauction.com](http://www.mcsberryauction.com)

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**NEW WILSON and CASTLETON** tridems and Super B's. 2008 tandem Lode-King; 2014 Wilson Super B; 6 other used Super B's; 2005 Lode-King Super B. Ron Brown Imp. call 306-493-9393, DL #905231. [www.rbisk.ca](http://www.rbisk.ca)

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**BERG'S GRAIN PUP** 20' single hopper, spring ride, chip guarded hoppers, hitch and front, Michel's tarp and Berg's quality finish, \$28,600. 204-325-5677, Winkler MB

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

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**2008 CIMARRON 4** horse living quarter trailer, Sierra custom interior pkg., electric over hydraulic jack, new tires, \$44,500. 306-441-7680, Battleford, SK.



**2018 SUNDOWNER SANTA FE** LQ 3-horse, #J1HA7153, \$48,900. Ph 1-844-488-3142 or shop online 24/7 at: [www.allandale.com](http://www.allandale.com)

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**Misc. TRAILERS 1515**

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**2002 TRAIL-EZE TA** machinery trailer, 48', hyd. tail, certified, pull out steel extensions, \$38,000. 780-753-2550, Provost AB.



**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.

**1995 DOEPKER 48', 102",** tandem machinery trailer, single drop, hyd. tail/flip, alum. outriggers, 12,000 lb. winch, good condition, \$35,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

**BEHNKE DROP DECK** semi style and pintle hitch sprayer trailers. Air ride, tandem and tridems. Contact SK: 306-398-8000; AB: 403-350-0336.



**BIG TEX TRAILERS:** Goosenecks, Bumper Tow, Mission Alum. Enclosed, Stock and Horse Trailers. Big Tex 20-40' Goosenecks, 23,900 lbs. GVWR, start at \$12,995. Free spare & 3 yr. warranty. Jason's Agri-Motive 306-472-3159. [www.jasonsagri-motive.ca](http://www.jasonsagri-motive.ca)

**PRECISION TRAILERS:** Gooseneck and bumper hitch. You've seen the rest, now own the best. Hoffart Services, Odessa, SK. 306-957-2033 [www.precisiontrailers.ca](http://www.precisiontrailers.ca)

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

**WESTANK WATER TANKER:** Online only unreserved auction, July 12th-18th. For more information, call 306-865-7660 [www.championassets.ca](http://www.championassets.ca)

**2008 DECAP TRI-AXLE BELLY DUMP GRAVEL TRAILER,** 1 of 2. Online only unreserved auction, July 12th-18th. For more information, call 306-865-7660 [www.championassets.ca](http://www.championassets.ca)

**END DUMP:** 28' Arne's tandem, \$15,000; 48' Wilson TA Cattle Liner, double decker, nice, \$8500. 306-563-8765, Canora, SK

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**Misc. TRAILERS 1515**



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

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**COMPONENTS FOR TRAILERS.** Shipping daily across the prairies. Free freight. See "The Book 2013" page 195. DL Parts For Trailers, 1-877-529-2239, [www.dlparts.ca](http://www.dlparts.ca)



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**TRUCKS**

**NEWEST TO OLDEST 1595**

**2011 FORD F250 XLT** 6.2L gas, crew cab, 116,000 kms., excellent condition, asking \$26,500. 306-698-7787, Wolseley, SK.

**1989 DODGE 1 ton** dually, 4 WD, dsl., single cab, longbox, 250,000 km, good cond., \$8000 OBO. 306-865-3610, Hudson Bay SK

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**Unreserved Public Farm Auction**  
**Estate of Norval Hungerford**  
Eston, SK | July 26, 2017 · 10 am

**1991 Ford Versatile 876** **1982 Versatile 555**

**AUCTION LOCATION:** From ESTON, SK, go 6.4 km (4 miles) West on Hwy 44 to Witley Road, then 7.2 km (4.5 miles) South. Yard on the West side.  
**GPS:** 51.087919, -108.655675

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2017 Featherlite 8127-7020 20'x7' 2-7K Axles, 1 Gates w/slider  
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2006 FORD F250 4x4 regular cab, 5.4 auto, service body, only 88,000 kms., fresh safety, fleet maintained, very clean unit, good rubber, \$14,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

**GRAVEL TRUCKS 1675**

10+ TANDEM: Standards & Automatics, \$46,000 and up. Yellowhead Sales, 306-783-2899, Yorkton, SK.  
1977 F600 GRAIN TRUCK, low miles, steel box and hoist, roll up tarp, good condition. 306-492-4642, Clavet, SK.

1994 FL80 TANDEM, 8.3L Cummins, 5 spd. Allison auto., air ride, clean truck, fresh SK safety, long enough for 20' grain box. Call Neil at 306-231-8300, Humboldt, SK.

1996 Freightliner tandem w/20' box; 2004 Freightliner Columbia, 20' box, new rubber and brakes. Fred 204-773-6703, Birtle, MB.

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. 10 year old truck looks & drives like new. 204-771-9700, La Salle, MB.

2000 IHC 2674, 350 Cummins, 6 spd. Allison auto., tandem, low hrs. and kms., will take 22' grain box. Call Neil at 306-231-8300, Humboldt, 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.78truxsales.com DL #316542.

2008 WESTERN STAR, Eaton AutoShift, new 20' B&H elec. tarp; 2008 IH 7600 tandem, ISX Cummins 10 spd., new 20' BH&T; 2007 Peterbilt 330 S/A, Allison auto., new 16' BH&T. Ron Brown Imp. 306-493-9393, DL #905231. www.rbsk.ca

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

2007 KENWORTH, pre-emission. 475ISX, 18 spd., 390 rears, EGR delete, wet kit, 1.7 on truck (rebuilt at 1.2) Wabasto, good on fuel. Professionally detailed, \$67,500. Call Shane 306-530-5131, Weyburn, SK.

2009 KENWORTH T660 Chrome, 11-22.5 tires, 490 HP Cummins, AutoShift, AeroCab, \$35,000. 306-786-6510, Yorkton, SK.

2010 INTERNATIONAL PROSTAR, 500/550 Cummins eng., full delete, safety done in June, new Michelin's all around, all maintenance records available, 1,880,000 kms. Possibility of job to go with the truck! \$50,000. Call 306-229-5626, Kinistino, SK.

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

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**GRAVEL TRUCKS 1676**

1999 MACK MIDLINER, S/A, double frame w/12' Loadline gravel BH&T, 363,500 kms, 220 HP, 6 spd., air ride, 12,000 frts, 23,000 lb. rear axle, AC, tires like new, safetied, like new cond., \$34,500 OBO. 204-791-9950, Stonewall, MB. Email: djkinv@hotmail.com

2006 INTERNATIONAL 4400 gravel truck, just had annual DMV, very good rubber, 366,000 kms, \$49,500 OBO. 780-719-1675, Beaumont, AB. robthi@xplornet.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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TANDEM AXLE GRAVEL trucks in inventory. New and used, large inventory across Western Canada at www.Maximinc.Com or call Maxim Truck & Trailer 1-888-986-2946

**SEMI TRUCKS 1677**

1 of 2 2001 MACK CX613; 1998 PETERBILT w/Etnyer oil distributor. Online only unreserved auction, July 12th-18th. For more information, call 306-865-7660 www.championassets.ca

2005 FREIGHTLINER COLUMBIA, tri-drive, Series 60 Detroit, 515 HP, 18 spd, triple diff. lock, air ride suspension, 20,000 lb. front axle, 282" wheel base, 20' bed w/5' beaver tail. 780-983-0936, Clyde, AB.



2012 MACK PINNACLE CXU613, 34" flat-top sleeper, removable roof fairing, Mack MP8, 455 HP Eaton 13 spd trans., safetied, \$36,900. Norm 204-761-7797 Brandon MB

2005 TO 2007 Western Star 4900's, Cat C15 18 spd., 46's w/full lockers low kms. Call for pricing! Can-Am Truck Export Ltd., 1-800-938-3323, Delisle, SK

2006 KENWORTH W900, 565 Cummins, 18 spd., 46,000 rears, double highrise bunk, \$38,000. 780-983-0936, Clyde, AB.

2006 PETERBILT 379, short hood, Cat 18 spd. trans., good condition, offers. Call 204-870-2050, Portage La Prairie, MB.



2007 KENWORTH, pre-emission. 475ISX, 18 spd., 390 rears, EGR delete, wet kit, 1.7 on truck (rebuilt at 1.2) Wabasto, good on fuel. Professionally detailed, \$67,500. Call Shane 306-530-5131, Weyburn, SK.

2009 KENWORTH T660 Chrome, 11-22.5 tires, 490 HP Cummins, AutoShift, AeroCab, \$35,000. 306-786-6510, Yorkton, SK.

2010 INTERNATIONAL PROSTAR, 500/550 Cummins eng., full delete, safety done in June, new Michelin's all around, all maintenance records available, 1,880,000 kms. Possibility of job to go with the truck! \$50,000. Call 306-229-5626, Kinistino, SK.

**SEMI TRUCKS 1677**



2009 IH PROSTAR, 500 HP Cummins, 18 spd, 46,000 rears, 4-way locks, 485,000 kms \$41,000. 780-206-1234, Barrhead, AB



2011 IHC PROSTAR, daycab, 515 HP Cummins, 18 spd. trans., 46 rears, full lock, hi-low pressure wet kit, c/w 2002 Lode-King alum. B-train, spring ride, 685,000 kms, good to go, \$68,500. Financing avail. 306-563-8765, 306-563-4160, Canora, SK.



2011 VOLVO 730, 77" mid-roof, Volvo D16-550 HP 18 spd. trans., Super 40's, as is, \$37,900. 204-761-7797, Brandon, MB.



2012 MACK PINNACLE CXU613, 34" flat-top sleeper, removable roof fairing, Mack MP8, 455 HP Eaton 13 spd trans., safetied, \$36,900. Norm 204-761-7797 Brandon MB



2012 VOLVO 730, 77" mid-roof, Volvo D13 500 HP 13 speed trans., \$39,900. 204-761-7797, Brandon, MB.

2013 MACK RAWHIDE, 505 HP, MP8, 12 spd. AutoShift, 70" bunk, factory fridge, 244" WB, 46 rears, 24.5 rubber, PTO (never used), 4-way lockers, Herd bumper (optional), ext. warranty 805,000 kms/Feb. 2018, 617,000 kms. 306-718-7722, Southey, SK.



2013 VOLVO 670, 61" hi-rise, Volvo D13 500 HP, 13 speed trans., \$59,900. 204-761-7797, Brandon, MB.



2015 VOLVO HEAVY Spec, D16, 550 HP, 46 rears, 4-way locks, 1 owner, 250K, like new, \$85,900. 780-206-1234 Barrhead, AB



2015 KENWORTH T800: 383,161 kms, MX13 500, 18 speed, 40 rear, RER 3.55, lockers, and more!! \$139,999 Call 306-808-0290. Located at Upper Canada Truck Sales, 8338 50th St E, Saskatoon, SK.

3406 CAT ENGINE, 250 miles, installed in semi. Garage Keepers Act, \$6000. 306-786-6510, Yorkton, SK.

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**SEMI TRUCKS 1677**



2015 KENWORTH W900B, 475,215 kms, MX 500, 18 spd, 46 rear, RER 4.10, lockers, and more!! \$139,999. Call 306-808-0290. Located at Upper Canada Truck Sales, 8338 50th St E, Saskatoon, SK.



2016 KENWORTH T680: 451,360 kms, 500 HP, 18 speed, 46 rear, RER 3.91, lockers, and more!! \$139,999 Call 306-808-0290. Located at Upper Canada Truck Sales, 8338 50th St E, Saskatoon, SK.

BAILIFF SEIZURE: 2013 Int. ProStar; 2007 WS 4900; 2006 Int. 9900i; 2013 JD 326D skidsteer; 2010 JCB 940 all terrain forklift; 2013 Haulotte 3947E platform lift; Hunter RWA473-CM aligner; WS220 high cycle wall saw. bailiffservices@sasktel.net

KENWORTHS: 2008, 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.rbsk.ca



REPOSESSED 2006 INT. 9900, 435 HP long block rebuilt motor w/paperwork, 18 spd. Saskatoon bailiffservices@sasktel.net



REPOSESSED 2012 Pro-Star INT, 475 HP Max Force eng., 18 spd., lockers, all new rubber, 134,000 kms., like new! Saskatoon, SK. Contact bailiffservices@sasktel.net.



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**20' AND 40' SEA CONTAINERS**, for sale  
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**\$59,000**

Stock #2015-06R

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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



**\$85,900**

Stock #7718-11A

**2011 Peterbilt 367**

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**\$69,990**

Stock #9477-09A

**2012 International ProStar**

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**\$39,900**

Stock #: 1452-09A

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**CALL**

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**2017 Timpte Grain Hopper**

Grain, Air suspension, Tandem axle, Aluminum/Steel rims, 20 king pin, Tarp: Rollover Black, Hoppers: Ag Hopper Black w/Interior Access steps, Width: 96in, Length: 40ft. Saskatoon, SK



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Stock #E2262031U

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**CALL**

Stock #HB157706

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- 2013 NH CX8080 ..... \$344,000
- 2011 NH CX8070 ..... \$199,000

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- 2015 NH 840CD-35 ..... \$69,000
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- 2013 NH 840CD-35 ..... \$57,000
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- 2012 SEMST 8012 CT TXB w/300 Onboard tank and JD 1910 ..... \$260,000

- 2007 SHAWK 50FT-10IN c/w 777 TBH ..... \$99,000
- 1984 BO 28-32 ..... \$8,500
- 1995 FC 2320 ..... \$13,000
- 2013 JD 1910 JD c/w 5012 Seedmaster ..... \$160,000
- 1998 JD 1900 ..... \$13,900
- 2011 NH P1060-TBH-MEC ..... \$56,000
- MISC.**
- ATV 2009 CK 3100S ..... \$9,250
- Track Loader 2013 CA TV380 ..... \$55,000
- Mower Conditioner 2014 NH H7460 ..... \$36,500
- Mower/Rotary 2014 SU XH1500 ..... \$22,900
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- Forklift 2004 SX SD 80 ..... \$64,000
- Grain Auger 2011 FK 10x70TMMR ..... \$10,000
- Grain Auger 2011 FK TMR10x70 ..... \$9,500
- Grain Auger 2016 WHEAT R 8-51 ..... \$15,250
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**HEADERS**



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**2009 MD FD70**  
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40' rigid draper, AHHC, transport, hyd F/A, for CR/CX/AFX ..... **\$48,800**

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- 03 JD 9650STS, 3141hrs, 20.8Rx38, dial a spd, hyd fore/aft, hopper toppe..... **\$85,800**
- 04 JD 9760STS, 3061hrs, 800/65R32, large wire concave, wide spread chopper.. **\$90,800**
- 03 JD 9650STS, 2714hrs, 800/65R32, auto header height, small wire concave..... **\$93,600**
- 06 NH CR960, 2278hrs, w/ 2006 76C 14' pickup header, 900/60R32, chopper..... **\$101,800**
- 05 JD 9760STS, 2268hrs, 800/70R38, hopper toppe, fine cut wide spread chopper..... **\$108,400**
- 05 JD 9660STS, 2139hrs, new feeder chains/sprockets/return chain, hammers .. **\$112,700**
- 07 JD 9760STS, 2130hrs, contour master, 800/70R38, bullet rotor, small wire con..... **\$119,000**
- 04 JD 9860STS, 2619hrs, 20.8x42, Kuchar rub bars, Mav chopper, Redekop chop **\$125,100**
- 10 JD 9870STS, 2794 hrs, 20.8x42, large wire concave, premier cab, Maurer 60bu hop..... **\$167,600**
- 11 JD 9770STS, 1487hrs, premier cab, small wire concave, Prodrive trans, wide chop..... **\$221,100**
- 12 JD S680, 1200hrs, 520/85R42, powerfold hopper, Pro-Drive Trans w/HarvestSmart..... **\$334,700**
- 14 JD S670, 229hrs, 520/85R42, autotrak, powergard warranty til Aug/2018..... **\$382,500**

## HEADERS

- 07 JD 936D, draper, multi-connection point, slow spd transport..... **\$27,920**
- 07 HoneyBee SP36 draper, dingle knife drive, hyd fore/aft, hyd header tilt..... **\$30,800**
- 09 MacDon D60 35' draper, single knife, multi-point, hyd fore/aft..... **\$31,600**
- 09 JD 635 Draper, dual zone float, poly tine PU reel, crop convey auger, off S series **\$31,600**
- 10 JD 640D-40' Draper, poly tine pickup reel, cutterbar full width skid shoes, off S680..... **\$35,800**
- 08 MacDon FD70 40' draper, double knife drive, upper cross auger, CA20 adaptor **\$64,600**
- 10 MacDon 40' FD70 Flex draper, double knife, upper cross auger, slow spd trans **\$64,800**
- 12 JD 640 Flex draper, feed drum scraper kit, came off JD S series combine..... **\$81,300**
- 12 JD 640 Flex draper, top aiger, feed drim scraper kit, came off JD 9870sts..... **\$85,100**
- 15 JD 635 Flex draper, dual kife drive, crop convey auger, reel tine flip over kit..... **\$96,800**

## COMBINES

- 97 Gleaner R62, 3105hrs, chopper, 24.5x32, 16.9x24, grain loss monitor..... **\$37,800**
- 97 JD CTS, 2231hrs, w/ JD 914 Pickup, 30.5x32, dual range cyl, dial a speed..... **\$47,300**
- 06 JD 9760STS, 2910hrs, 480/70R30, 800 singles, Greenstar, Touchset concave..... **\$84,000**
- 01 JD 9750STS, 2776 hrs, 20.8R-38, deluxe header controls, service lights..... **\$82,500**
- 04 JD 9760STS, 3011hrs, Outback autotrak, 800/70R38, dial a spd header ctrl..... **\$93,000**
- 04 JD 9760STS, 2640hrs, 800/70R38, Touchset concave, prem header control.... **\$99,700**
- 04 JD 9760STS, 2509hrs, 420/80R42, Touchset concave adj, hyd fore/aft..... **\$104,000**
- 04 JD 9760STS, 2059hrs, 800/65R32, small wire concave, 3 position header height..... **\$112,000**
- 06 JD 9660STS, 2116hrs, 800/65R32, mech roll tarp, small wire concave..... **\$116,400**
- 05 JD 9860STS, 2307hrs, 800/70R38, new chopper hammers & top sprockets..... **\$124,900**
- 06 JD 9860STS, 2038 hrs, 20.8-42, HID lights, premium header control, fore/aft..... **\$136,900**
- 10 JD 9870STS, 1657hrs, autotrak, bullet rotor, high capacity feeding, small wire..... **\$214,500**
- 12 CIH 8230, w/ 3016 15' pickup, Magnacut chopper, 620/70R42, luxury cab..... **\$286,100**
- 13 CIH 8230, w/ 2011 CIH 3016 15' pickup, 620/70R42, Magna cut chopper..... **\$338,300**

## HEADERS

- 08 JD 936D, draper, poly tine pickup reel, cutterbar full width skid shoes..... **\$29,500**
- 09 MacDon D60 40' draper, double knife w/ poly C-bar, came off JD S690..... **\$31,600**
- 10 MacDon D60 40' draper, CA20 adaptor, poly skid shoes, elec fore/aft..... **\$31,600**
- 13 JD 635D Draper, poly tine pickup reel, gauge whls & transport, off JD S670..... **\$44,300**
- 09 MacDon FD70-40' Flex draper, double knife drive, off JD 9760..... **\$58,000**
- 10 MacDon 40' FD70 Flex draper, double knife, upper cross auger..... **\$64,800**
- 12 MacDon 40' FD70 Flex draper, double knife, upper cross auger, slow spd trans.. **\$73,000**
- 12 JD 635 Flex Draper, crop convey auger, header height sense rigid, off 9870sts.. **\$82,200**
- (3) 14 JD 635 35' flex draper, dual knife drive, crop convey auger, poly tine reel..... **\$88,900 up**
- 14 JD 635 Flex Draper, came off S680, crop convey auger, dual knife drive..... **\$90,000**



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- 2016 Case IH 8240** 520 Duals, Lat Tilt, Rocktrap, Ext Wear Rotor, Standard Chopper, Deluxe Cab, Leather Seat, Trailer Hitch, Pro 700, Accuguide Ready Stk: 022147 (SC) . **\$425,000**
- 2015 Case IH 8240** 620 Duals, Lat Tilt, Rocktrap, Hyd Hopper Cover, Long Auger, Magnacut Chopper, Lux Cab, HID Lights, Accuguide, Stk: 024326 (SA) ..... **\$450,000**
- 2015 Case IH 9240** 620 Duals, Lateral Tilt Feeder, Rocktrap, Hyd Hopper Cover, 40' Auger, Magnacut Chopper, HID Lighting, Accuguide Stk: 022527 (SC) ..... **\$499,000**
- 2014 Case IH 7130** 800 Singles, Deluxe Cab, Lateral Tilt, Extended Wear Rotor, Electric Folding Hopper Cover, Chopper, Yield & Moisture Stk: 014705 (SA) ..... **\$279,000**
- 2013 Case IH 9230** 620 Duals, Lux Cab, Lat Tilt w/Rocktrap, Accuguide, Hyd Grain Tank Cover, Magnacut Chopper, HID Lights Stk: 021990 (ES) ..... **\$350,000**
- 2012 Case IH 7230** 520 Duals, Lat Tilt, Ext Wear Rotor, Hyd Folding Cover, Std Chopper, HID Lights, Accuguide, Air Compressor Stk: 021503 (PA) ..... **\$269,000**
- 2009 Case IH 7120** 520 Duals, Lateral Tilt, Accuguide, Poer Mirrors, Std Cut Chopper, 3016 Header /W SwathMaster Pickup Stk: 205692B (LL) ..... **\$189,000**
- 2010 Case IH 8120** 900 Singles, Leather Seat, Ext Wear Infeed, Fine Cut Chopper, HID Lights, Accuguide, Small Tube Rotor Stk: 018938 (SC) ..... **\$205,900**
- 2010 Case IH 7088** 800 Singles, Lateral Tilt, AFX Rotor, Chopper, Yield & Moisture, Trailer Hitch, New radiator, 1,200 Engine & 900 Rotor Hrs Stk: 017933 (SC) ..... **\$182,000**
- 2006 Case IH 8010** 14' CIH 2016 Pickup, 520 Duals, Rocktrap, Pro 600 Monitor, Std Rotor, Maurer Topper, Fine Cut Chopper, Long Auger Stk: 021412 (ME) ..... **\$155,500**
- 2001 Case IH 2388** Long Auger, Specialty Rotor, Chopper, SwathMaster Pickup Stk: 021973 (LL) ..... **\$89,000**
- 2014 John Deere S670** 520 Duals, 28L Rear Tires, Autoguidance, Fine Cut Chopper, HID Lights, 615 Pickup Header Stk: 022003 (SA) ..... **\$375,000**
- 2010 John Deere 9770STS** c/w JD 615 Pickup, Deluxe Cab, Bullet Rotor, Long Auger, Fine Cut Chopper, 2600 Monitor, Hopper Topper, Steer Ready Stk: 022038 (ME) ... **\$245,000**
- 2003 New Holland CR960** c/w NH 76C Pickup Header, Beacon, Service Lights, Yield & Moisture Stk:023071 (PA) ..... **\$102,900**

- 2016 Case IH 4440** 120 Ft, AIM Pro, Active Susp, Pro 700, Accuguide, Accuboom, Autoboom, Front Fill, Wide Fenders, Trelleborg 710's Stk: 022565 (SA) ..... **\$495,000**
- 2015 Case IH 4440** 120 Ft, AIM, Autoboom, Accuboom, Pro 700, Accuguide, Omnistar, Luxury Cab, 620's & 320's, 670 Hrs Stk: 023153 (SC) ..... **\$475,000**
- 2014 Case IH 4430** 120 Ft, Lux Cab, Active Susp, HID lights, AutoBoom, Accuboom, Viper Pro Monitor, AIM Pro, 380's & 620's, Raven Smartrax Steering Stk: 023711 (PA) . **\$380,000**
- 2014 Case IH 4530** Floater 70 Ft, Lux Cab, Power Mirrors, Deluxe HID Lights, Fenders, Double 6" Auger 50 CF, Viper 4 Monitor, 1550 Hours Stk: 024242 (SC) ..... **\$320,000**
- 2013 Case IH 4430** 100 Ft, Deluxe Cab, AIM, Pro 700, 372 Receiver, 2 Sets Of Tires, HID Lights, Autoboom, Accuboom Stk:024786 (SC) ..... **\$305,000**
- 2013 Case IH 3330** 100 Ff, 380 & 650 Tires, Active Susp, Front Fill, AIM Command, Deluxe HID Lighting, Accuboom, Autoboom Stk: 022510 (SA) ..... **\$249,900**
- 2013 Case IH 3230** 100Ft, 800Gal, 320&520's, LuxCab, ActiveSusp, AIM, Pro 700, Accuguide, Accuboom, AutoBoom, Fence Row Nozzles, Wide Fenders Stk: 024438 (ME) .. **\$234,000**
- 2012 Case IH SPX160** 134 Ft Pull-Type, 600 Gallon, 5 Way Bodies, Raven Autoboom, 6 Section Accuboom, Duals Stk: 024155 (SC) ..... **\$33,000**
- 2011 Case IH 4420** 120 Ft, Dlx Cab, 380's & 650's, HID Light, AirComp, ViperPro, Smartrax Auto Steer, AutoBoom, AccuBoom, Crop Dividers, Fan Reverser Stk: 021959 (ME) .. **\$213,000**
- 2009 Case IH 4420** 100 Ft, AIM, 1200 Gallon, Norac Boom Height Control, Sectional Control, Autopilot, 380's & 520's, Ag Leader Monitor Stk: 020576 (ES) ..... **\$199,500**
- 1998 Case IH SPX3185** 90 Ft, 2 Sets Of Tires Stk: 017817 (SA) ..... **\$79,000**
- 2013 John Deere 4940** 120 Ft, Boomtrac, Sect. Control, Autosteer, Star 3000, 2630 Monitor, 380's /w Rear Duals, HID Lights, Crop Dividers, Planetary Upgrade Stk: 024157 (PA) ..... **\$240,000**
- 2014 New Holland SP240F** 120 Ft, 1200 Gal SS Tank, Intelliview IV Monitor, AccuBoom, AutoBoom, 2 Sets of Tires Stk: 024111 (LL) ..... **\$299,000**
- 2014 Case IH 4530** Floater 70 Ft, Lux Cab, Power Mirrors, Deluxe HID Lights, Fenders, Double 6" Auger 50 CF, Viper 4 Monitor, 1550 Hrs Stk: 024242 (SC) ..... **\$320,000**
- 1999 Apache 790** 90 Ft, 440 Raven Rate Ctrl, Outback S3, UC4 Norac Boom Height Ctrl Stk: 021953 (PA) ..... **\$69,000**



**\$503,000**  
**2015 Case IH 9240**  
620 Duals, 3016 Pickup, Lux Cab, Accuguide, HID Lights Stk: 019866 (SA)



**\$355,000**  
**2013 John Deere S680**  
520 Duals, 615P Pickup Hdr, Auto Steer, Folding Hopper Stk: 024730 (SA)



**\$378,000**  
**2014 Case IH 8230**  
620 Duals, Accuguide, Magnacut Chopper, Lux Cab, HID Lights Stk: 022739 (ES)



**\$125,000**  
**2009 Spra-Coupe 7660**  
90 Ft, 380 & 650 Rear, Raven SCS50000, EZ-Steer Stk: 021347 (SA)



**\$452,000**  
**2015 Case IH 4440 Sprayer**  
120 Ft, AIM Pro, New 620's, Extended Warranty to 04/2018 Stk: 024860 (SC)



**\$217,600**  
**2008 Case IH Patriot 4420**  
120 Ft, AIM, HIDs, Lux Cab, Ag Leader Insight, New 620s, 2,492 Hrs Stk: 021025 (ME)

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- Package Pricing:
- 40x56' ..... **\$25,750<sup>00</sup>**
  - 48x80' ..... **\$41,500<sup>00</sup>**
  - 48x120' ..... **\$58,650<sup>00</sup>**
  - 60x120' ..... **\$73,600<sup>00</sup>**

\*Includes materials & labour

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  - 1 Large Sliding Door
  - 1 Three-Foot Walk-in Door
  - Gable End Vents
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- 30x96' ..... **\$19,395<sup>00</sup>**

\*Includes materials & labour

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- 3.25"x7' Rd Treated Post ..... **\$5<sup>99</sup>**
- 4.25"x6' Rd Treated Post ..... **\$6<sup>99</sup>**
- 4.25"x7' Rd Treated Post ..... **\$8<sup>69</sup>**
- 4.25"x8' Rd Treated Post ..... **\$9<sup>49</sup>**
- 5.25"x7' Rd Treated Post ..... **\$10<sup>99</sup>**
- 5.25"x8' Rd Treated Post ..... **\$13<sup>49</sup>**



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**BALING EQUIPMENT 4139**

1992 CASE/IH 8570 big square baler. \$7500 in new parts installed and many other parts have been replaced in the recent past. Overhauled, field ready. Baler was used last season, worked beautifully, vg cond., \$24,900 OBO. 226-343-1853, Alma, ON. Email: dseastep@hotmail.ca

NEW HOLLAND 1003 bale wagon: 84 bale capacity, in good condition. Phone 204-428-5176, Portage la Prairie, MB.

NH BR780A and BR790 both with regular pickups, big tires, good running condition, shedded, \$20,000 for 2 or \$11,000 each. 780-808-4101, Frenchman Butte, SK.

JD 568 BALER, flotation tire, Mega PU, bale kicker hyd. PU, shedded, good shape. 306-856-4710, Conquest, SK.



1999 HIGHLINE 700 BALE WAGON, very little use, \$13,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

TRI-HAUL SELF-UNLOADING ROUND bale mowers: 8' to 29' lengths, 6-18 bales. Also exc. for feeding cattle in the field, 4 bales at a time with a pickup. 1-800-505-9208. www.trihaulbalemovers.com

NEW HOLLAND 1033 Stackliner bale wagon, in working cond, 105 bales. Rose-town, SK. 306-831-9979 or 306-882-3141.

BALE SPEAR ATTACHMENTS for all loaders and skidsteers, excellent pricing. Call now 1-866-443-7444.

NEW IDEA 4865 5x6 hyd. PU, rubber mount teeth, 2300 bales, shedded, good. 306-944-4325, 306-231-8355, Bruno, SK.

JD 568 BALER, mega wide plus PU, flotation tires, bale kicker, twine and netwrap, good condition, \$31,000 OBO. Call Scott 403-854-0230, Hanna, AB.

HIGH QUALITY NET WRAP 64" & 67" rolls. Covering all areas of SK. Delivery avail. to SK, AB and MB. Quality is guaranteed. 306-227-4503. www.norheimranching.com

NH 1002 Stackliner Bale Wagon, 1 owner, excellent condition; 84 Vers. 24' PT swather, 1 owner, field ready. 306-335-2756, 306-537-3718, Lemberg, SK.

VERMEER 605M ROUND baler, monitor, kicker, new PU, good cond., field ready, \$12,000 OBO. 306-335-7875, Lemberg, SK

JD 375 round baler, 2nd owner, always shedded, exc. cond, field ready, \$4500. 306-274-4823, 306-274-2242, Lestock, SK.

JD 535 ROUND BALERS, 1991 and 1993, \$6500 each. Ph 204-207-0017, Roblin, MB.

**MOWER COMBINATIONERS 4142**



RECON 300/400. Reduce drying time by 35-65%. Crush stems & move swaths to dry ground. One pass with mounted tedder for fastest dry down. Make quality hay dry faster! 1-888-907-9182 www.agshield.com

KRONE-BIG M400, 2011, 1056 hrs. with accumulators, 30' cutting width, shedded, \$3000 in new parts included. Sold the cows, field ready, exc. shape, \$200,000 firm. 306-457-2935 after 6, Stoughton, SK.

NH 14' HAYBINE; MF 128 sq. baler; NH 1033 bale wagon; NH 268 sq. baler; NH chain round baler. 306-283-4747, 306-220-0429, 306-291-9395, Langham.

**SWATHERS 4145**

MF 5200 22' draper header, metal teeth, moveable header, easy attach, fits 9430 machine. 780-698-2279, Westlock, AB.

BERGEN SIDE LOAD swather transport, in fair condition, \$5500. Call 306-476-2501, Rocklglen, SK.

2011 MASSEY FERGUSON 9430, 36' in excellent condition, asking \$90,000 OBO. Call 306-231-8212, Humboldt, SK.

WANTED: 25' SP swather w/PU reel, later 1990's/2000's, CIH, JD, or Massey. Must be in good shape. \$120-931-2541, 306-227-1971, Saskatoon, SK.

CIH WD1203 SALVAGE, good cab, engine, hyd. parts, and auto guide. Call 1-800-667-4515, www.combineworld.com

**SWATHERS 4145**

2010 MACDON M150 30', dual direction, hyd. tilt, header transport wheels, wide tires, 695.9/614.5 hours, \$125,000. Please call us at 403-358-2840, Lacombe, AB. Luuk\_VanAken@Hotmail.com



1988 CI 722, same as MF 200, 16' auger head, new HoneyBee knife, 22' DSA draper head with PU reel, A/C, diesel, \$15,900. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.



2010 MASSEY FERGUSON 9430 windrower, smooth cutting, 30' head, PU reel, rear mtd. swath roller, 2 spd. trans., new canvases, 1010 hrs., vg condition, asking \$68,500. Financing available. Call 306-563-8765, 306-563-4160, Canora, SK.

2015 JD W150 435D, PU reel, fore/aft double knife drive, hydraulic tilt, free form roller, integrated GPS, 147 engine hrs. Call 306-537-9636, Riceton, SK.

2001 MACDON 9352, 30', double knife, 1225 hrs., JD AutoSteer ready, 972 header, \$50,000. 780-768-2306, Vegreville, AB.

MASSEY 885 SP, 30', gas, 1700 hrs, 66" opening, pickup reel, rebuilt wobble box, new canvases and spare parts, \$9500. Call 306-335-2777, Lemberg, SK.

CASE/IH 8820 25', diesel, triple delivery header, Roto-Shears, 2500 hrs., \$15,000. 780-203-2448, Fort Sask, AB.

HESSTON 8100 SP 21', DSA, 2000 hrs., Cummins eng., clean cut crop dividers, new draper bearings (rollers), new canvas, constant speed control; Premier 30' PT, new pit man and belt, bat reel. For prices, call 780-889-3788, Heisler AB.

2013 JD W150, 35' c/w double knife & double reel, 650/500 hrs., \$130,000 OBO. Call 780-679-7795, Camrose, AB.

2009 M150 MACDON, 806 cutting hours, large rubber, mounted roller, JD GreenStar AutoSteer, 35' D60D header with split reels, double knife drive, canola kit canvas rollers, recent new canvases, always shedded, completely serviced, ready to work, \$109,000 OBO. Jason 204-937-0965, John 204-937-7079, Roblin, MB.

2006 JD 4895 swather, 30', c/w hay panels and hyd. roller, 525 eng. hrs., 427 cutting hrs, excellent shape, \$60,000 OBO. Call 306-646-4505, Maryfield, SK.

2003 JOHN DEERE 4895 swather, 2500 hrs., c/w 2011 896 18' hay header with rubber rollers, in good condition, \$65,000. Call 306-476-7601, Rocklglen, SK.

1998 35' WESTWARD 9300, 960 header, PU reel, turbo, big tires, \$29,500; 1995 30' MacDon Premier 2900, PU reel, 960 MacDon header, 21.5-16.1 tires, \$19,500; 1995 Case/IH 8820, 30' header, PU reel, 21.5-16.1 tires, \$18,500. All swathers in exc. cond. 306-861-4592, Fillmore, SK.

2005 MF 9220, 30', PU reel, double swath, excellent cond., \$48,000. 306-567-8614, Davidson, SK.

1985 VERSATILE 4700 25' SP CAHR, 1439 hrs., like new canvases, good condition; Laurier 24' drive thru drill/wadner carrier. Offers. Call 306-338-2927, Watena, SK.

2012 JD D450 c/w 35' header, PU reel, mtd. roller, Roto-Shears, 550 hrs., exc, \$91,000 OBO 306-297-7400 Shaunavon SK

2001 PRAIRIE STAR 4940 25' SP with 972 header, very good condition, field ready, \$35,000 OBO. 306-726-2151, Southey, SK.

2000 8860 30' CASE/IH SP swather, low hrs., \$42,000; 2002 30' 2950 MacDon SP swather, \$40,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2013 JOHN DEERE W150 w/2014 430D double knife, DS. split reel, weight box and transport, 400 hrs., \$120,000; Freeform hyd. roller available. 204-734-0361, Swan River, MB. cgust@xplornet.com

NH HW325 SALVAGE cab, axle, engine, lots of good parts. Call 1-800-667-4515 or visit www.combineworld.com

**SWATHERS 4145**



2014 MF 9740 windrower, nice cruiser, 30' header, PU reel, TopCon Guidance System, big tires, 414 hrs., very good condition, \$115,000. Will take trade, and/or financing. 306-563-8765, 306-563-4160, Canora, SK.

2007 MACDON 2952, 935 hrs., 30', 972, DS, dbl knife, triple del., hyd. fore/aft, hyd tilt, mounted roller, Roto-Shears, 1 season on cutting bar, fresh service, mint cond \$65,000. 403-485-8198, Arrowwood, AB

1989 CASE 6000 SP 30', 1600 hrs., new wobble box, vg cond., field ready, \$10,500. 306-874-8032, Naicam, SK.

1989 CASE 736 36' swather, not used in 12 years. 1988 Case 730 30', not used in 10 years. Both shedded and in vg cond., \$3000 ea. 306-628-4267, Liebenthal, SK.

ELMER SWATHER TRANSPORT in fair cond., \$4000. Call 306-476-2501, Rocklglen, SK.

2006 MF 9420 SP, 30', 1510 hrs., sliding table, diesel, UII PU reel, caster wheels, good rubber, new batteries and canvases, asking \$42,500. Call 306-252-2810 or 306-567-7281, Kenaston, SK.

RETIRED: 1984 VERSATILE 400 for sale, good shape. Call for more information. 204-757-2278, Lockport, MB.

1986 SERIAL IMPLEMENTS 722 SP Swather, w/U2 PU reel, 2130 hrs., \$10,500; CIH 721 PT Swather, w/MacDon PU reel, \$1200. 204-638-8443, Dauphin, MB.

2010 CNH WD1203 30', 350 hours, very good condition. Call Fred 204-773-6703, Birtle, MB.

WANTED: 15' SP SWATHER w/crimper and pickup reel. Must be in A1 shape. 306-734-2970, Chamberlain, SK.

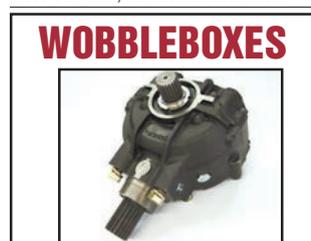
2006 WESTWARD SWATHER 9352i, 30' 972, 540 drive tires, double knife drive, double draper drive, Roto-Shears, pea auger, JD GPS wiring, full poly skid shoes, vg cond., \$52,000 OBO. 306-621-8352, Jedburgh, SK.

2006 MF 9420 SP swather, 30', 5200 header, triple delivery, gauge wheels, hyd. tilt, PU reel, Schumacher drive, Cummins 120 HP diesel, 2 speed hydro. adjustable rear axle, air/heat, new knife & guards last year, approx. 800 hrs, excellent shape, \$51,000. 403-664-0735, Sibbald, AB.

**SWATHER ACCESSORIES 4148**

2012 MANDAKO SWATH ROLLER 10', poly, axle mount, electric winch, excellent condition, \$2980. Call 1-800-667-4515. www.combineworld.com

HONEYBEE WS30 HEADERS complete for swathers, starting at \$9980. Call 1-800-667-4515, www.combineworld.com



WH 1010/1020...\$1,895 JD600 D/F.....\$4,495 IH 4000/5000...\$2,249 JD 600 R/F.....\$3,395 JD 1209.....\$2,069 JD 900 Draper.\$3,995 JD 200/900 Flex\$1,733 MD Heavy Duty\$2,442 JD 200/900 Rigid\$1,753 MD Regular.....\$1,854

Sold with warranty!  
**1-800-667-4515**  
www.combineworld.com

SWATHER KNIFE DRIVE from 2005 NH swather w/Honeybee 30' header rebuilt and kept for a spare, \$1500. 204-734-0361, Swan River, MB. cgust@xplornet.com

2001 MACDON 972 25' header, Keer Shears, double swath, new knife, exc. shape. Call 306-435-7893, Moosomin, SK.

WANTED: GOOD USED MacDon header transport to fit 30' 972 MacDon header. 306-435-7893, Moosomin, SK.

OUTBACK AUTOGUIDE COMPLETE system with new monitor. For more information, call 1-800-667-4515 or visit www.combineworld.com

**H/H VARIOUS 4151**

NEW 2017 VERMEER VR1224 12 wheel rake, \$8995. tractorcompany@gmail.com www.tractorco.ca 306-239-2262, Osler, SK.

JD 7720 TITAN II combine, shedded; 4324 hrs., field ready, \$12,500; JD 580 25' PT swather, excellent condition, \$1400. 306-331-7749, Fort Qu'Appelle, SK.

NEW HOLLAND HW325 CAB, fits other CNH swathers, good condition. For more info, call 1-800-667-4515 or visit www.combineworld.com

MORRIS 881 HAY hiker, good condition, 8 bale, some welding on picker, \$8000. 306-476-2501, Rocklglen, SK.

RICHARDTON DUMP WAGONS, #1200, #700, #750; JD 3970 harvester; Balers: JD 510, \$1500; JD 535, \$4500; Vermeer R23 hyd. rake, \$9000; NH 216, \$5000; Hay conditioners, \$800 and up; Gehl haybine, 14', \$2500; JD 15' batwing mower, \$6000; JD 20', \$10,000; JD 5', \$1000; JD 7', \$2000. 1-866-938-8537, Portage, MB.

JD 300 16' hay header, fits 23, 2420, 3830, \$3000; Ford Major dsl. w/loader and blade \$5500. Call 306-304-1959, Goodsoil, SK.

NH 114 HAYBINE, 14', good working cond; JD 535 round baler, field ready, always shedded; NH 1033 bale wagon, PTO, field ready. Call 306-423-5748, Wakaw, SK.

2003 MACDON 16' haybine, \$15,000; 2000 Highline bale processor, \$7500. Both very good cond. Ph 306-867-8410, Outlook, SK.

2008 JD 7500 forage harvester, 216 original hrs., 4WD, Prodrive, corn header, PU header, auto greaser, shedded, new condition. 204-851-0745, Elkhorn, MB.



14 WHEEL FARM-KING hay rakes, set-up and ready to go, can pull two 18' swaths together. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

**COMBINES**

**CASE/IH 4160**

2002 CASE 2388, 3600/4500 hrs., fully loaded, duals, good cond., \$39,000 Cdn OBO; Int. 1480, call for info., \$8500 Cdn. OBO. Delivery available. 218-779-1710.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1999 CASE/IH 2388, c/w 2004 2015 PU, 3300 eng./2400 sep. hrs., hopper topper, ext. unload auger, Kirby chaff spreader, always shedded, \$48,000. 204-523-0069 or 204-523-0106, Killarney, MB.

1993 1688, 1015 PU, chopper, reverser, monitors, 1020 25' header, PU reel, carrier, \$20,000. 204-362-1024, Manitou, MB.

1997 2188 with 1015 PU header, 4200 eng./3100 sep. hrs., yearly inspection, nice shape, 1999 1020 30', all for \$45,000. Call Frank 306-394-7000, Coderre, SK.

2004 CIH 8010, new chopper, feeder chain, pick-up & teeth rasp bars, 2899 eng. hrs., \$99,500. 306-287-7645, Watson, SK.

CIH 8010 CAB complete, in good condition, \$13,800. Call 1-800-667-4515 or visit www.combineworld.com

2010 CNH 7120, 830 hrs; 2011 CNH 2142 header, 2500 acres. Call Fred 204-773-6703, Birtle, MB.

2009 CASE/IH 7088, 2016 14' header, 1239 eng./956 sep. hrs., std. chopper, rocktrap, long auger, HHC, fore&aft, AFS Pro 600 monitor, chip incl., always shedded, exc. cond., \$140,000 OBO. Call 306-594-7044, Norquay, SK. Email: dlnokinsky@gmail.com

2003 CIH 2388 AFX w/2015 header, field ready, very well maintained, long auger, hopper topper, chopper, Pro600 w/Y&M, 262 receiver, shedded, \$87,500. Call Lorne McCarty, 306-869-7834, Ceylon, SK.

WANTED: CIH 2188, low hrs., w/internal straw chopper and PU header. 306-549-4030, Hafford, SK.

1996 CASE 2188, low hrs., exc. cond., field ready, \$45,000 OBO; 1986 CIH 1660 SP offers; 2003 HoneyBee 30' header, \$15,000 OBO. 306-463-3257 Kindersley SK

1993 CASE 1688, AFX rotor, chopper, chaff spreader, PU header, roll trap, 4900 eng. hours. Call 306-957-4236, Francis, SK.

2007 CASE/IH 7010, dual wheels, w/2016 header, \$17,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2002 CASE/IH 2388 axial flow, 2160 eng. hrs., Big Top hopper, long auger, 2015 PU header, 1620 rotor hrs., SwathMaster PU, AFX rotor, 30.5x32 tires, CNH 8.3L, S/N JJC0271599, good condition, \$54,900 OBO. Phone 306-374-5887, Clavet, SK.

**CATERPILLAR LEXION 4166**

LEXION 500 RWA complete w/axle, tires, and rims, \$17,980. Call 1-800-667-4515 or visit www.combineworld.com

2014 760TT, fully loaded, 700/1000 hrs., \$325,000 Cdn OBO; 2014 760, fully loaded, 600/900 hrs., RWA duals, exc. cond., \$285,000 Cdn OBO; 2011 750, 900/1400 hrs., duals exc. cond., \$189,500 Cdn OBO; 2011 750, 1400/2100 hrs., duals exc. cond., \$129,500 Cdn OBO; 2006 590R, 1800/2900 hrs., loaded, duals, RWA, \$114,500 Cdn OBO; 2013 MacDon FD75, 35' flex draper, exc. cond., \$65,500 Cdn OBO. Delivery available. 218-779-1710.

2011 JD 9870STS, 1444 hrs., AutoTrac, high capacity feeding, \$225,600. Call South Country Equipment, 306-721-5050, Regina, SK.

JD FINAL DRIVES, used and rebuilt for 9400-9610, CTS & STS. 1-800-667-4515, www.combineworld.com

**FORD/NH 4172**

1991 NH TX36, w/newer Sunnybrook cylinder and new feeder chain, 2770 hrs., \$25,000; NH 971 24' straight cut header, \$4900. 204-638-8443, Dauphin, MB.

**FORD/NH 4172**

2004 NH CX860, 2131 threshing hrs., 2660 eng. hrs., regular maintenance, field ready. Call Larry 204-638-8384, Dauphin, MB.

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 NH CR9090, 988/656 hrs., 523 HP 355 bu. tank, factory hopper ext., c/w NH 790 CP PU, deluxe straw chopper, NH chaff spreader, HID lights, long auger, premium leather cab, Intellicruise/Opti-Fan, Y&M, factory guidance w/Intel IV/372 NAV, 620/70R42 duals, 600/65R28 floatation rrs, elec mirrors, shedded, field ready, exc. cond. Will consider CX8080 on trade. 403-501-1165, 403-377-2416, Tilley, AB.

WANTED: NH TX68 combine in good running condition with good engine. Call 780-685-2264, Worsley, AB.

**GLEANER 4175**

RETIRED: Gleaner L2 and Gleaner L3. Both in good shape. Call for more info. 204-757-2278, Lockport, MB.

GLEANER S77 SALVAGE, duals, pickup and many good low hour parts still available. Call us now! 1-800-667-4515 or visit www.combineworld.com

GLEANER R72 & R62 SP combines for sale: R72 has 2089 thres. hrs., Cummins motor, excellent shape, recent work orders, field ready, always shedded, \$36,500; R62 has 1680 thres. hrs., optional bigger motor & drives (make it same size as the R72), very nice shape, also shedded, work orders, field ready, \$26,500. Both c/w PU headers. Phone 403-664-0735, Sibbald, AB.

2000 R62, 8.3L Cummins eng., 3053 sep. hrs., c/w header, 12' Swathmaster PU, approx. \$5000- new spare parts, field ready, \$35,000. 306-961-8291, Prince Albert, SK.

1992 R62, only 2400 sep. hrs., very nice combine for its age, \$22,500 Cdn OBO. Ph. 218-779-1710.

**JOHN DEERE 4178**

2012 JD S690 STS, 708 sep. hours up, 650/85R38, AutoTrac, \$340,100 up. Call South Country Equipment, 306-424-2212, Montmartre, SK.

2007 JD 9660 WTS, 1100 sep hrs., 615 PU, new rub bars, shedded, very good cond. 780-877-2339, 780-

**COMBINE HEADERS 4199**

2010 MACDON D60 35' straight cut header w/transport and skids, poly under knife, low hours, always shedded, \$47,000. 204-662-4474, 204-851-0211, Sinclair, 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

2011 JD 635 flex platform, hydra flex 35', poly skids, single point hookup, Crary air reel system, field ready, \$33,000; 2010 JD 635 flex platform, hydra flex, single point hookup, Crary air bar system, field ready, \$31,000. Gerald or Glenn Walkeden, 306-861-6849, 306-861-7782, Tribune, SK

25' HONEYBEE HEADER to fit JD 9650, 9750 and older combines, new guards and canvas, asking \$15,000. 306-553-2230, 306-741-8173, Swift Current, SK.

2013 and 2014 MACDON FD75 flex drapers 35' and 40' JD adapters. Ph. 306-563-8482

2005 JD 630F Hydraflex, single point, poly skids, PU reel, fore/aft, AWS air bar, c/w 2016 Arc-Fab SB30 transport, \$29,000. 306-962-3605, 306-962-7454, Eston, SK.

JD 930 DRAPER header, c/w PU reel, new pea auger, built-in transport, prem. cond., limited use. 403-823-1894, Drumheller, AB

2008 NH 94C 30' draper header, will fit CIH, CR, CX and NH combines, pea auger, fore/aft PU reel, transport, good cond., \$32,000. 250-782-0220, Dawson Creek, BC

2006 974 36' MacDon flex draper, transport, JD adapter, field ready, \$31,000. Gerald or Glenn Walkeden, 306-861-6849, 306-861-7782, Tribune, SK.

2009 MACDON D60 35', upper cross auger, single knife, trans., canola closure kit, header done 7000- 8000 acres, Case or NH adapter \$45,000 403-588-9497 Bashaw AB

**FLEX HEADS:** CASE #1020, 25' and 30'; #2020, 30' and 35'; 1010 PU header, JD 925 and 930. Ph. 1-866-938-8537, Portage, MB

JD 930 FLEX, PU reel, poly skid plates, new gearbox, single pt. hyd., fits up to JD 70 series, \$8500. 306-547-8064 Stenen SK

**PEA AUGERS** for MacDon, Honeybee, and JD headers. Call 1-800-667-4515 or visit www.combineworld.com

2013 CASE/IH (MacDon) 2162 flex draper, 40', fits CR/CX combines, \$69,900 OBO. 306-563-8482.

2006 AND 2005 John Deere 936D, excellent condition, always shedded, transports and full poly skid shoes, need nothing, \$28,750 OBO. 306-621-8352, Jedburgh, SK.

35' MACDON 960 header w/PU reel and transport, fits CIH 1680 to 2388 combines, nice shape, runs well, \$9500. Storthoaks, SK., call 306-452-7037, 306-452-7037.

2009 NH94C 36' draper, fits CIH/CR/CX combines, pea auger, 1 owner, \$35,000. 306-563-8482.

2012 MACDON 1052 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

2003 MACDON 972, 30', CIH adaptor, \$18,000 OBO. Call 306-563-8482, Yorkton, SK.

2017 JD 640FD Flex Draper, flip-over-reel, HHS in Rigid Mode, course tooth knife, double drive, new w/warranty, \$93,500 USD. 320-848-2496, 320-894-6560, www.ms-diversified.com Fairfax, MN.

**COMBINE DRAPER HEADERS:** 2008 36' HoneyBee, PU reel, transport, Pea auger, AFX adapter, \$37,000; 2002 42' SP42 HoneyBee, PU reel, transport, Pea auger, Cat adapter, \$20,000; 2000 36' 1042 Case/IH, PU reel, Case adapter, \$16,000; 2006 36' 2042 Case/IH, PU reel, transport, \$28,000; 2010 40' 2152 Case/IH, PU reel, transport, AFX adapter, \$55,000; 2013 40' 2152 Case/IH, PU reel, transport, AFX adapter, \$65,000; 2010 40' D60 MacDon, PU reel, Pea auger, transport, JD adapter, \$60,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

**RECONDITIONED** rigid and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK www.straightcutheaders.com

2012 MACDON FLEX draper header 45', cross auger, split reel, JD hook up, slow spd. transport, very good condition, field ready, \$72,000. Can deliver. Call any time 204-743-2324, Cypress River, MB.

**COMBINE HEADERS 4199**

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1999 TYLER PATRIOT WT, 800 gal. tank, 90' boom, 175 HP 2 sets of tires, Trimble 500 GPS w/AutoSteer & AutoBoom, boom touchdown tires, 2 new crop dividers, 3600 hours, good condition, \$45,000. 306-925-4442, Glen Ewen, SK.

2015 CASE/IH 4440 120', AIM, Auto-Boom, AccuBoom, Pro 700 Stk: 02315 \$475,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2010 JD 4830, 100' booms, 1000 gal. tank, AutoSteer, Swath Pro, AutoBoom Stk: 021520, \$215,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

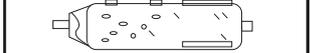
2013 APACHE 1020, 470 hrs., duals, 100', 1000 gal. tank, AutoSteer, AutoBoom, Auto Section. Meticulous one owner unit, \$190,000 OBO. 306-591-1133, Pense, SK.

2013 JD 4940 120'. BoomTrac, sect. control, AutoSteer, 2630 monitor, Stk: 02415, \$240,000. 1-888-905-7010, Prince Albert, SK. www.redheadequipment.ca

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**SPECIAL EQUIPMENT 4232**

**NEW NUHN 4000** gallon slurry tank, truck mount. 780-635-2627, 780-210-2627, St. Vincent, AB. Email: rmbrouss@mcsnet.ca

**SPRAYING EQUIPMENT**

**PT SPRAYERS 4238**

2014 NH SP240F 120', 1200 gal. SS tank, IntelliView IV , AccuBoom, AutoBoom, Stk 024111, \$299,000. 1-888-905-7010, Lloydminster. www.redheadequipment.ca

2007 AG SHIELD 7700 suspended boom PT sprayer 120', GFS boom height control, break away booms, 1500 gal. tank, 3 sets of nozzles, \$16,000. Call 403-836-9699, Ceylon, SK. cfinc@shaw.ca

**FLEXI-COIL 67XL, 130', 1250 Imp. gal.,** rinse tank/wand, chem handler, tank rinse, variable rate, wind curtains, monitor, \$10,000 OBO. 780-777-5468, Calmar, AB.

**FLEXI-COIL 65, 100', 800 gal. tank,** auto-rate control, chemical handler, \$3500 OBO call after 5PM, 306-533-2114, Pangman SK

**SP SPRAYERS 4241**

1998 CASE/IH SPX3185 90', 2 sets tires Stk: 017817, \$79,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

1996 TYLER PATRIOT 150 high clearance sprayer, 2703 hrs., 90', 750 gal. poly tank, 3-way nozzles, Outback AutoSteer, Raven AutoBoom height, 12.4x38 tires, excellent shape, well maintained, clean, shedded, \$38,000. 403-899-2496, SE of Calgary, AB.



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1999 TYLER PATRIOT WT, 800 gal. tank, 90' boom, 175 HP 2 sets of tires, Trimble 500 GPS w/AutoSteer & AutoBoom, boom touchdown tires, 2 new crop dividers, 3600 hours, good condition, \$45,000. 306-925-4442, Glen Ewen, SK.

2015 CASE/IH 4440 120', AIM, Auto-Boom, AccuBoom, Pro 700 Stk: 02315 \$475,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2010 JD 4830, 100' booms, 1000 gal. tank, AutoSteer, Swath Pro, AutoBoom Stk: 021520, \$215,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2013 APACHE 1020, 470 hrs., duals, 100', 1000 gal. tank, AutoSteer, AutoBoom, Auto Section. Meticulous one owner unit, \$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



2015 JD R4045, #1N4045RV0006639, 1420 hrs., 380/105R50 tires w/row crop fenders, hyd. thread adj., High flow SS plumbing w/dual flow meters, SS chem. educator, HID lights, 120', fence row nozzles, StarFire 3000 receiver with JDLink Activation tilt 2018, AutoTrac SF2 and sectional control incl., one set off 0.3 guardian nozzles incl. Powertrain warranty until 2018, \$370,000. 204-612-6531 Cartier, MB

2010 AGCO HIGH Clearance 884 Rogator, stainless tank, 100' boom, c/w Fruehauf TA tanker, electronic level, Handler III mixer, chemical pump, 1550 hrs., all you need to spray, \$185,000. Financing available. 306-563-8765, 306-563-4160, Canora, SK.



2010 JOHN DEERE 1830 61', 10" sp, DS dry, Poirier openers, Alpine liquid kit Stk: 023964, \$67,500. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2006 BOURGAULT 5710 40' 9.8" spacing, steel packers, 6200 Stk: 020500, Cart \$60,000. www.redheadequipment.ca or 1-888-905-7010, Swift Current, SK.

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**PLASTIC WATER TANK** on skid, c/w 3" Honda pump,

**AIR DRILLS 4250**

2012 MR 8650, \$99,500. 306-946-3301 or www.watrousenholland.com

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.

2007 SeedHawk 50', 10" c/w 777 TBH, \$109,900. www.raymorenewholland.com or 306-746-2911.

2012 SEMST 8012 CT TXB w/300 onboard tank & JD1910, \$260,000. 306-783-8511 or www.yorktonnewholland.com

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

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

2012 BOURGAULT 3320 QDA 66', 10" sp., c/w L6550 tank, MRB, NH3 kit, duals Stk: 02317, \$295,000. Call 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2010 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

2002 Morris Maxim 34', 10" c/w 2320 TBT, \$16,900. www.yorktonnewholland.com or 306-783-8511.

**AIR SEEDERS 4253**

2012 70' SEEDMASTER, 10" spacings, liquid fertilizer w/Raven sectional control, foam filled packer tires, \$50,000 firm. 306-745-2737, Esterhazy, SK.

**HARROWS/PACKERS 4256**

2011 BOURGAULT 6000 mid harrow, 80', exc. cond., \$25,000 OBO. 204-647-4274, Dauphin, MB. wolff.ron.odile@gmail.com

WANTED: 50' FLEXI-COIL tine harrow packer bar, P-20 packers. 306-628-4267, Liebenal, SK.

**TILLAGE EQUIPMENT 4262**

BREAKING DISCS: KEWANEE, 14' and 12'; Rome 16' and 9'; Wishek 14' and 30'. 2-DMI 7 shank rippers. 1-866-938-8537.

BOURGAULT 6000 medium harrows 90', \$25,000; Flexi-Coil 340 32' chisel plow c/w 4-bar harrows, anhydrous kit, \$16,000; Flexi-Coil 340 40' chisel plow, with 4 bar harrows, \$25,000. Dave 403-556-3992, Olds, AB.

KELLO-BILT 8' to 20' offset discs w/24" to 36" notched blades; Kello-Bilt 24" to 38" tandem wing discs w/26" and 28" notched blades and oilbath bearings. Red Deer, AB. www.kellohghs.com Call: 1-888-500-2646.

IHC 6400 54' chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

3-12' JD DISCERS (36'), fair condition, not used for 10 years. Offers. 306-463-4866, 306-463-8800, Kindersley, SK.

DISCS: JD 330 25' -30', IH 30', \$10,000; Bush Hog 25' and 28', \$7500; JD 15', \$3500; Wishek 13', \$4000; Row Crop cults. 4-12 row; Lilliston 8-13 row; JD 830 #7000 planter; Valmar applicator, \$2000; Phoenix harrows H-11, H-14, H-17; Melroe auto reset plow, 7-8 furrow; Big Mac fork type rockpicker, \$4000; Degelman 570 rockpicker, \$2500. Call 1-866-938-8537.

5 MORRIS RODWEEDERS 36' and 48', some with very good harrows. Call Bob 403-934-4081, Mossleigh, AB.

**TRACTORS**

**ALLIS/DEUTZ 4277**

WANTED: 4W305; 4W220; 220 and D21. 8 0 7 0, 8 0 5 0 or 8 0 3 0 M F W D. 701-240-5737, Minot, ND.

**CASE/IH 4286**

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1985 CASE 2096 w/Leon 800 loader, new rubber, AC completely redone, always shedded. 306-728-3443, Melville, SK.

**CASE/IH 4286**

2006 CIH STX375, powershift, PTO, 1917 hrs; 2009 STX335, c/w 6-way Degelman blade/guard, 1281 hrs; Two 2013 Magnum 260, FWA, deluxe cab, leather, 320 hrs; 2015 Magnum 280, FWA, CVT, deluxe cab, leather, 608 hrs; 2014 Versatile 250, FWA, GPS, etc. Ph Dave 403-556-3992, Olds, AB.

CASE 4494 4WD; Case 2390: Online only unreserved auction, July 12th-18th. For more information, call 306-865-7660 www.championassets.ca

2009 CASE/IH 435, Outback guidance, 710/70 tires, rear weights, std. trans., 4 hyds., 3100 hrs., shedded, \$180,000. Nipawin, SK. 306-862-7138 or 306-862-5993

2011 MAGNUM 340, FWA, fully loaded, 2555 hrs. 3 PT, GPS, 1000 PTO, ft/rr duals, \$172,500 OBO. 403-373-4781 Lacombe AB

IHC 5488 TRACTOR, new dual tires, low hours, 189 HP, excellent condition. 403-823-1894, Drumheller, AB.

1996 CASE/IH 9370 Steiger 4WD, triple 20.8R42's, Ez-Guide 500 auto steering & GPS. Nav. w/display, 5445 eng., hrs., N14 Cummins 360HP, 12 spd. synchro range trans., all clutches in exc. cond., 4 sets remote hyds. with new quick couplings, S/N JE00037740, very clean, excellent cond., \$74,900 OBO. 306-374-5887, Clavet, SK.,

2000 MX120, equipped w/new Quicke loader, 4400 hours; 2000 MX170, 4600 hrs., equipped w/new Quicke loader; 2000 MX220, low hrs., great grain cart tractor. Call 204-522-6333, Melita, MB.

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2002 JOHN DEERE 9520, 4 WD, 6000 hrs., powershift, diff. lock, weights, AutoTrac, 800 Firestone duals, \$139,500 OBO. 306-621-8352, Jedburgh, SK.

2013 JOHN DEERE 5085, 4WD, only 103 hrs., cab, self-levelling loader, front & rear blades, excellent cond., \$83,000. Olds, AB., 403-556-2644, halutz2644@hotmail.com

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2008 JD 5303, 2 WD, 60 HP 3 PTH, PTO, 522 loader, 565 hrs., exc., \$29,000 OBO. Retired. Call 306-771-0001, Balgonie, SK.

JD 4230, 100 HP Quadshift, dual PTO hyd. 18.4x38 tires. 204-525-4521, Minitonas, MB. www.waltersequipment.com

1995 JD 8100, MFWD, 840 loader, PS, new tires, 9043 hrs., excellent condition, \$76,000. 306-472-7704, Woodrow, SK.



**JOHN DEERE 4295**

2010 JD 7330 MFWD, 2896 hrs., 20 spd. PowerQuad, 540/1000 PTO, excellent shape, \$89,900. 306-535-1083, Vibank, SK.

1991 JD 4755: Online only unreserved auction, July 12th-18th. For more info, call 306-865-7660. www.championassets.ca

1994 JOHN DEERE 6300 FWA, cab, 640 loader, PowerQuad, 540/1000 PTO, \$37,500 OBO. 780-877-2513 Ferintosh, AB

STEVE'S TRACTOR REBUILDER specializing in rebuilding JD tractors. Want Series 20s, 30s, 40s, 50s, 7000s to rebuild or for parts. pay top \$\$ . Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

2005 JD 7320 MFWD, new rear tires, 3PTH, w/741 self-levelling loader, \$70,000 Call A.E. Chicoine Farm Equipment 306-449-2255, Storthoaks, SK.

UTILITY TRACTORS: John Deere 6200, 4400 hrs; JD 6310 w/640 loader, 4500 hrs. Call 204-522-6333, Melita, MB.

1985 4650, MFWA, 7300 hrs., 1000 PTO, 50% duals, PS, Raven GPS, recent w/o, LED lights, new batteries, very clean and reliable, \$44,000. 780-208-4808, Two Hills

1983 JOHN DEERE 4450 MFWD w/Ezee-On FEL 2130 grapple, 15 spd. PS, 3 hyds., 7925 hrs. showing, 14.9-26F, 20.8R32, duals available. 306-283-4747 or 306-291-9395, Langham, SK.

2001 JD 8310 FWA, 5500 orig. hrs., front duals, triple rears, excellent cond., \$96,500 Cdn OBO. Ph. 218-779-1710.

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.

JD 3130 w/JD 148 loader, \$15,900; JD 2130 w/148 loader, \$12,900; JD 2550 w/245 loader, \$15,900. All have gone through shop. All w/new paint, look, run great! Randy 204-729-5162, Brandon, MB.

2000 JD 7710, 5130 hrs; 2000 JD 8100; 2002 JD 7810; 1996 JD 8100. All MFWD, can be equipped with loaders. 204-522-6333, Melita, MB.

2002 JD 7410, FWD, left-hand reverse, new tires, w/JD 740 loader & grapple; JD 7710, FWD, left-hand reverse, 3 PTH, like new JD 740 loader & grapple avail. Barrhead, AB. 780-674-5516, 780-305-7152.

2003 JD 9320/2005 K-TECH 2800 SCRAPER: Online only unreserved auction, July 12th-18th. For more info, call 306-865-7660 www.championassets.ca

**MASSEY FERGUSON 4301**

MF 190 w/LOADER; MF 110 w/loader; Case 2290 w/loader. 306-283-4747, 306-220-0429, Langham, SK.

**NEW HOLLAND 4304**

2002 TJ450, very nice Firestone triples, powershift, approx. 4000 hrs., \$129,000. Call 306-948-7223, Biggar, SK.

2015 NEW HOLLAND T7.170 AutoCommand, MFWD, 1150 hrs., 50km/hr., 4 remotes, Intelliview, 4 monitor, front axle & cab susp, climate control, 1000/540E PTO, shiftable from in cab, PTO/remote fender control, elec. heated mirrors, front bumper weights, 650/65R38 rear, 540/65R28 front tires. Tractor is in absolute mint condition, \$119,500 OBO. For more info call 306-861-2500 or email: kruitenterprises@gmail.com Weyburn, SK.

2006 TG210, FWA 7900 hrs., exc. tires, 3 PTO 540/1000, excellent condition, \$48,500 Cdn OBO. Ph. 218-779-1710.

**FORD 4307**

1979 FORD 6700, CAHR, w/90 HL Ezee On high lift loader, runs excellent, \$12,500. 306-238-4590, Goodsoil, SK.

**VERSATILE 4310**

1992 FORD/VERSATILE 946, 20.8x42 duals, AutoSteer JD Globe and monitor, very nice, \$44,500 Cdn OBO. Delivery available. Call 218-779-1710.

2006 VERSATILE FWA, 210 HP w/Alo FEL bucket, grapple and duals, 4050 hrs. \$94,000. 306-728-9033, Melville, SK.

**VARIOUS TRACTORS 4319**

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2005 MCCORMICK MTX120 w/Quicke loader, 3100 hrs.; 2006 MTX150. 204-522-6333, Melita, MB.



2013 JD 7230R, 3000 hrs, IVT50K new loader \$149,000; 2013 Deere 8360R, 1300 hrs, IVT50K, \$232,500; 2012 MF 8690, CVT50K, GPS, \$129,000; 2011 Fendt 939, 1100 hrs, 65km/h, \$235,000; 2016 Fendt 936, 500 hrs, loaded, call for price; 2015 Fendt 939, 2100 hrs, VarioGrip, call for price; 2010 Claas Xerion, 2040 hrs, CVT50K, front 3PTH, 800R38, \$187,000; 2016 MF 8737, 400 hrs, front PTO, loaded, call for price; 2011 Amazone 5200L 3PT Spreader, \$12,900. Many more in stock! Clinton, ON. Call 519-955-1331 or visit www.rozendaalclinton.com

**LOADERS/DOZERS 4322**

NEW DEGELMAN BLADE, model 12-46/57, \$8500. Ph Henry 403-588-0958, Alix, AB.

**MISCELLANEOUS 4325**

ROCK-O-MATIC No. 57 rock picker, PTO, 7' bucket, high lift, excellent condition, \$2500 OBO. 306-233-7889, Cudworth, SK.

JD GREENSTAR RATE Controller, with implement safety switch and foot pedal for on/off, \$2500. 204-734-0361, Swan River, MB. Email: cgust@xplornet.com

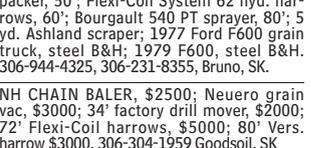
**SUNFLOWER HARVEST SYSTEMS. Call for literature. 1-800-735-5848. Lucke Mfg., www.luckemanufacturing.com**

RETIRED: 2012 JD T-670 combine, 250 cyl hrs., 2013 JD 635 flex header, \$300,000; 2005 JD 4720 SP sprayer, 90', 1300 hrs., \$145,000; 1997 NH 9882 tractor, 3300 hrs., w/Deg. 16' dozer blade, \$100,000. 306-869-7141, 306-789-9992, Beaubier SK

RETIRING: FLEXI-COIL SYSTEM 92 harrow packer, 50'; Flexi-Coil System 62 hyd. harrows, 60'; Bourgault 540 PT sprayer, 80'; 5 yd. Ashland scraper, 1977 Ford F600 grain truck, steel B&H; 1979 F600, steel B&H. 306-944-4325, 306-231-8355, Bruno, SK.

NH CHAIN BALER, \$2500; Neureo grain bag, \$3000; 34' factory drill mover, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. 306-304-1959 Goodsoil, SK

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26' SCHULTE 5026 BATWING mower, double blades, exc. shape, pics. available, \$20,000. 1-866-402-4031, Cassidy, BC.

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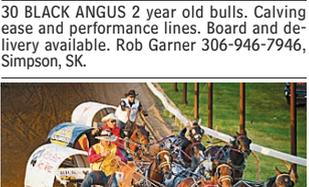


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BIG RIVER AREA: 3100 sq.ft. family home w/many great features. Very bright w/lots of windows. Heated w/in-floor (glycol) by propane and wood, and also a large wood fireplace. The property is 154 ac. of mainly bush pasture and fenced w/8' game fence and one electric wire. The yard is serviced w/water well. Other outbuildings included. This property is a must see! MLS#611536 Call Lloyd Ledinski, RE/MAX of the Battledowns, 306-446-8800 or 306-441-0512.

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**SASKATCHEWAN 6133**



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5 QUARTERS GRAIN LAND in RM 331. By online AUCTION at http://bidwin.org. Qing Zhang, Landmart Realty, 306-684-0136, qing.canada@gmail.com Arran, SK.

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FARM FOR SALE: Nestled in the heart of the Moose Mountains sits a beautiful piece of land with a 4 year old custom built home. This property includes 4 quarters of land with oil revenue and a 2580 sq ft + fully finished walkout basement, 5 bdrm, 4 bath home. Geothermal heat and heated double car garage. Full wrap around deck to enjoy the beautiful views. 20 minutes from Kipling, SK. \$1,650,000. 306-736-8215, 306-736-7153, email: kf\_arn@hotmail.com

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HOLDFAST 159 acres - owned by Sheri Ann Bews  
STOCKHOLM 159 acres - owned by Andrea Routley  
WHITE CITY 159 acres - owned by Kenneth Herauf  
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**SASKATCHEWAN 6133**

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.

**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. MLS #1627477, Karen Goralluk, Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

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3 QUARTERS WITH YARDSITE: 477 acres in a block. Mixed farm, 300 arable acres. Fenced and cross fenced, 2 shallow wells., 40'x60' machine shed, 34'x44' pole shed, barn, corrals, hay fence. 24'x32' bungalow, w/double attached garage. Located beside the Riding Mtn. National Park. Contact Karen Goralluk-Salesperson, 204-773-6797. NorthStar Insurance & Real Estate. MLS #1701622. www.north-star.ca

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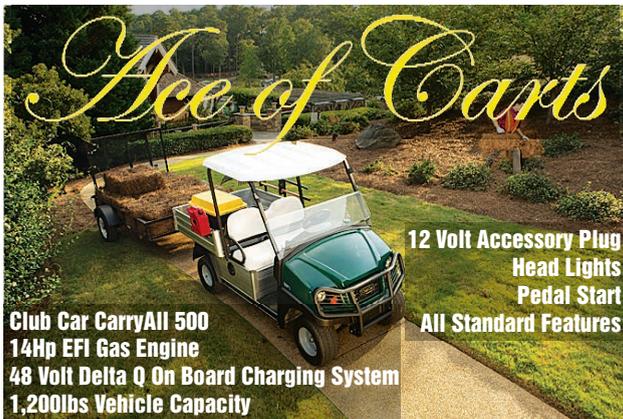
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# High hopes

Riders of all ages were in the saddle at the Guy Weadick Days Rodeo held June 23-25 in High River, Alta.

| **MIKE STURK PHOTOS**



**ABOVE:** Kelly Dinsmore loses his seat in the mini-bronc event.  
**BELOW:** Lane Cust of Sylvan Lake, Alta., gets a grip on Big League in the saddle bronc event.  
**BELOW RIGHT:** Sally Bishop rides Roman style while pulling skier Caith Cameron through the rodeo infield.  
**BOTTOM:** Noémy Coeurjoly of Nanton, Alta., rides Roman style over a jump.



## DEFENDING BIOTECHNOLOGY

# Scientists adapt to better deliver biotech message

Experts are listening to consumers' concerns

BY JOHN GREIG  
FREELANCE WRITER

The biotechnology debate is changing — new voices are entering the debate, the technology is changing, and much of the innovation is originating from outside of North America.

It means many scientists who have defended the use of genetically modified crops in the past are today dealing with fewer activists and more people who are curious or have concerns about their food.

Scientists from around the world and representatives of farm organizations gathered in Guelph recently to share stories about being on the frontline of the debate.



KEVIN FOLTA  
UNIVERSITY OF FLORIDA PROFESSOR

"It's funny, I think we've turned a corner," said Kevin Folta, a professor at the University of Florida, and well-known biotech defender. He said activists are changing their focus from the safety of GM crops to herbicides and bees.

"What's changed is that the average science enthusiast is excited about technology. They love a new phone, love enhanced features in their car and now they're a little excited about technology that makes their food safer or healthier," he said.

"The nerd brigade has turned their attention to it. In social media, they have taken our place. It's no longer four scientists talking to the unreachable."

Conferences like the Biotech Bootcamp are designed to help by bringing together scientists to learn what for many is like a new language.

"We're doing amazingly better (at communicating to the public)," said Folta, who has received threats

for his biotech support. To this day, he will not open packages from sources he does not know.

"Scientists listen to debate and poke holes in arguments.

"We didn't listen to understand people. The corollary to that is when we listen and understand why people are upset and have concerns, we realize this is their reality in their heart. We can't ignore that and always did."

The use of the biotechnology is spreading, said C.S. Prakash, dean of the College of Arts and Sciences at Alabama-based Tuskegee University.

People post pictures on Instagram of a GM grapefruit because it is a brilliant colour and high in antioxidants, not because it is GM, he said.

"There are more products labelled boldly as having genetically engineered ingredients," he said. "And it's not driving people away."

For the first 25 years of GM crops, most involved corn, soybeans and cotton. In Western Canada, many farmers first became acquainted with GM crops in canola.

Now, there are GM fruits and vegetables, most of them focused on disease resistance or consumer health.

Disease resistance is the area where genetic modification has the biggest potential to do good, said Alison Van Eenennaam of the University of California at Davis. Van Eenennaam runs a livestock genetics research lab there.

GM technology is also changing with recently developed gene editing techniques, the best known being CRISPR.

Folta said this technique, which involves replacing, inserting or deleting a small portion of an organism's DNA, should be more acceptable to consumers.

GM acceptance also becomes more widespread as more countries get involved with their own local research. African governments are solving many of their own problems using GM.

"They have beautiful labs in Kenya," Folta said. "They are going to solve their own problems. It's not coming from us. They are sick of waiting."



EYE SPY | A long-eared owl fledgling hides in a willow bush in the Arm River Valley near Chamberlain, Sask. | MICKEY WATKINS PHOTO

## HEALTH HAZARD

## Monsanto vows to fight California for linking glyphosate to cancer

(Reuters) — Glyphosate will be added to California's list of chemicals known to cause cancer effective July 7, the state's Office of Environmental Health Hazard Assessment said June 26.

Monsanto, which uses the chemical to make Roundup, vowed to continue its legal fight against the designation, required under a state law known as Proposition 65. Monsanto called the decision "unwarranted on the basis of science and the law."

The listing is the latest legal setback for Monsanto, which has faced increasing litigation over glyphosate since the World Health Organization's International Agency for Research on Cancer said that it is "probably carcinogenic" in a controversial 2015 ruling.

Dicamba, a weed killer designed for use with Monsanto's next generation of biotech crops, is under scrutiny in Arkansas after the state's plant board voted recently to

**We will continue to aggressively challenge this improper decision.**

SCOTT PARTRIDGE  
MONSANTO

ban the chemical.

OEHHA said the designation of glyphosate under Proposition 65 will proceed following an unsuccessful attempt by Monsanto to block the listing in trial court and after requests for stay were denied by a state appellate court and the California's Supreme Court.

Monsanto's appeal of the trial court's ruling is pending.

"This is not the final step in the process, and it has no bearing on the merits of the case. We will continue to aggressively challenge this improper decision," said Scott Partridge, Monsanto's vice-presi-

dent of global strategy.

Listing glyphosate as a known carcinogen under California's Proposition 65 would require companies selling the chemical in the state to add warning labels. Warnings would also be required if glyphosate is being sprayed at levels deemed unsafe by regulators.

Monsanto and other glyphosate producers would have roughly a year from the listing date to re-label products or remove them from store shelves if further legal challenges are lost.

Monsanto has not calculated the cost of any re-labelling effort and does not break out glyphosate sales data by state, Partridge said.

Environmental groups cheered OEHHA's move to list the chemical.

"California's decision makes it the national leader in protecting people from cancer-causing pesticides," said Nathan Donley, a senior scientist at the Center for Biological Diversity.

## BAYER DIVESTITURE

## Syngenta eyes Bayer assets to bolster seed, crop protection market

BASEL, Switzerland (Reuters) — Syngenta, which was acquired by ChemChina, has vowed to bulk up its seed business and join the chase for assets that Bayer must sell to gain regulatory approval for its takeover of Monsanto.

Syngenta, a distant third in the global seed market behind Monsanto and DuPont, is determined not to lose ground on its rivals as the seed and crop protec-

tion sector continues an unprecedented wave of mergers and acquisitions.

The Swiss company, which is the world's leading crop chemical maker, itself fought off unwanted suitor Monsanto before agreeing to be taken over by ChemChina to secure better access to Asian markets and is now targeting its own acquisitions and licensing deals.

"We are very interested in seed

assets from remedies and beyond that," chief executive officer Erik Fyrwald said in response to a question about assets to be sold by Bayer.

Bayer last month said it will sell its LibertyLink-branded seed businesses, a key part of asset sales required to satisfy competition authorities looking at the \$66 billion Monsanto deal.

"The goal is to strengthen Syngenta's leadership position in crop

protection and to become an ambitious No. 3 in seed," the company said.

Seed will be the main plank of the growth strategy to meet ChemChina's target for Syngenta to double its revenue over the next five to 10 years, the Chinese group said.

ChemChina, which has acquired close to 98 percent of Syngenta's shares, also plans to float a minority stake in its newly acquired sub-

siary on the stock market in the next five years or so to bolster its balance sheet.

"The timing of the minority IPO (initial public offering) of Syngenta will depend on the market situation," ChemChina chair Ren Jianxin, now also Syngenta chair, said.

Ren also dismissed as "rumours" reports that ChemChina could merge with state-owned Chinese peer Sinochem.

## HOPS PRODUCTION

# B.C. hops farm rides craft brewing wave

Small breweries around the world seek hops that are grown in different soil and climates to create unique flavours

BY BARBARA DUCKWORTH  
CALGARY BUREAU

CHILLIWACK, B.C. — Chilliwack was once the largest hops growing region in the British Commonwealth but the crop slowly fell out of favour.

Thanks to the exponential growth of craft breweries around the world, farmers are interested in planting them again.

Chilliwack Hop Farms started as a hobby and has grown to more than 300 acres of privately owned and contracted land in the Fraser Valley of British Columbia.

Owned by John Lawrence, the operation started with a few acres in 2011.

Today, the company grows about 20 varieties in its own greenhouses, and has a sophisticated harvesting, drying and distribution facility for customers around the world.

Working out of a former horse barn the original plan was to sell the hops to Molson brewery.

"We never ended up selling to Molson's at all. It was the craft brewing industry that took it all," said John Briner, in charge of marketing for Chilliwack Hop Farms. A former hop grower, he joined the company as its marketing plans expanded.

Hops act as a preservative and give each beer a distinctive flavour. With the surge of small breweries, many beer drinkers are looking for something unique.

Hops are super bitter. Briner compares them to the garlic in garlic bread where very little is needed.

"It balances out the sweetness of the malt," he said.

"Without hops, beer is basically a sweet, malted drink."

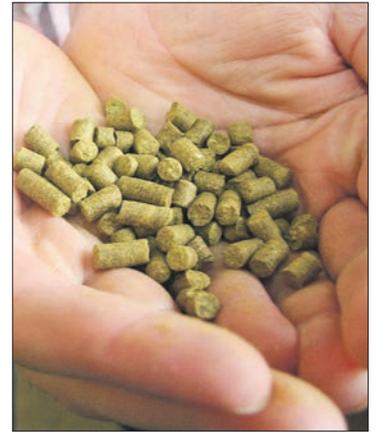
"You've got a demographic that is no longer interested in macro, generic, flavourless lagers. There is a generation now that wants something more flavourful," he said.

He compares the surge in craft beers to the demand for better coffee.

"Once you have had a good tasting coffee you don't want to go back," he said.

A typical recipe may have two or three varieties of hops where one makes it bitter while another adds flavour or aroma.

While most varieties are developed elsewhere, companies have



learned growing conditions change the final product.

"You can take hops that originated in Germany that we grow here and they taste very different just because of the soil and climate and environment," Briner said.

The U.S. Pacific Northwest region seems to grow a unique type with a citrus aroma. Chilliwack Hop Farms is also experimenting with added flavours. It has added spruce tips or lavender during the pelleting process. They have also tried smoking hops.

Growing hops requires plenty of hands-on labour.

Three years ago, the company started growing its own plants from finger-sized rhizomes under the supervision of greenhouse manager Cori McKay.

About 250,000 plants are started from rhizomes in the greenhouse and are later transplanted to fields. A perennial plant, hops start to grow early in the season.

"Out in the field, they start popping out around March and in the greenhouse it is when we turn the heat on," McKay said.

At the greenhouse, she has four full-time people and during busy periods contracts more workers.

"Many hands are needed," she said.

The plants are placed about three feet apart in the field. Large poles are sunk in the ground at a rate of 60 per acre and coconut ropes hang down from overhead wires. The plants are trained to climb the ropes. By summer solstice, the vines have reached the top and then start pushing out horizontally to create walls of growth.

"If it is raining a lot you don't need



to irrigate but they are thirsty plants. In the heat of the summer they need more," she said.

As they mature, green burrs that look like pine cones form. Each plant produces about two pounds of cones containing essential oils and aromas.

At harvest time, the vines and ropes are cut down and composted while the cones go to the facility to be pressed, dried and pelleted.

Some brewers request fresh hops that must be delivered immediately to preserve the flavours.

The pelleted form can last for three years in special vacuum

packages. A five kilogram bag sells for about \$165.

"The economics are there to expand and grow," Briner said.

"At this point it is a fairly lucrative industry in terms of per pound, but it is very labour intensive so we spend a lot of money on contract labour," he said.

Once the hops are processed, they are shipped across Canada and around the world.

"Every six to eight weeks we load a container and send them to Russia. Russia is one of our biggest markets right now," Briner said.

Calgary-based companies like

**ABOVE LEFT:** Hops are perennial plants transplanted in early spring. They are strung up on coconut ropes secured by overhead wires. These could grow to be about 20 feet high.

**ABOVE:** Pressed and dried pellets can last for up to three years.

**LEFT:** Chilliwack Hop Farm grows more than 20 varieties of hops in the company greenhouse.

| BARBARA DUCKWORTH PHOTOS

Big Rock Breweries in Calgary and Brewsters Brewing may each use 20,000 pounds of hops, but Cariboo Brewing at Prince George, B.C., is its largest customer.

"It is the power of social media. We are really active on social media. All of our Russian sales came through Instagram," said Briner.

While this company is growing, a larger industry has developed in Washington state. About two-thirds of the U.S. crop is grown in the Yakima Valley.

barbara.duckworth@producer.com

**You've got a demographic that is no longer interested in macro, generic, flavourless lagers. There is a generation now that wants something more flavourful.**

JOHN BRINER  
CHILLIWACK HOPS FARMS



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PROBABILITY CALCULATIONS

# New hail modelling system draws mixed reviews from insurers

BY TERRY FRIES  
COMMODITY NEWS SERVICE CANADA

A new hail risk modelling system is available for Canadian crop insurers, but providers are divided over its value.

AIR Worldwide recently developed the industry's first probabilistic computer model designed to better assess hail risk in Canada.

Ken Doleman, chief executive officer at Palliser Insurance, said the additional data from the AIR model will provide a more complete picture.

"It gives us a better forward look

as opposed to just simply a rear-mirror look," he said.

He said the AIR computer model looks at 10,000 years of weather and climate history and uses calculations to look at the probability and timing of storms.

That information is overlaid with Palliser's own database, which Doleman described as likely the most extensive held by an individual organization on hail loss insurance in Western Canada.

However, Saskatchewan Municipal Hail Insurance CEO Rodney Schoettler is less convinced. The main feature of the AIR probabilis-

tic model lies in its ability to project possible future risks, but Schoettler said that has little value in his current business model.

"We don't really honestly care what the future will bring," he said.

"If a model says two years from now it's going to hail more so your risk is going to go up, we're not going to respond today anyway. We're still going to write it based on our experience."

He said SMHI, which writes more than half of the hail insurance in Saskatchewan, determines its rates based on its 100-year database for each township.



AIR Worldwide's model uses 10,000 years of data to determine the probability and timing of hailstorms. | FILE PHOTO

Schoettler also pointed to SMHI's business model, which he said is different than how many other hail insurance providers operate. SMHI coverage is tied to property ownership with 80 percent of farmer-clients choosing to renew their coverage in subsequent years through the yearly crop reports they fill out. Other companies are often represented by agents that represent several insurance products.

Doleman said the AIR model will help Palliser more accurately assess risks, which should lead to better hail insurance rates.

He said farmers in areas that experience large numbers of hail events already pay high insurance rates, but he believes that using the AIR model together with the company's existing database can result in rates that are more responsive to weather data with insurance rates adjusted depending on if the weather improves or worsens.

The system can also help keep historical biases out of rate assessments, he said. Rates for localized areas hit by heavy hail are bound to go up accordingly if many claims are filed.

However, Doleman said the probabilistic model uses an "elegant algorithm" to determine whether such events are actually only one-in-50-year or one-in-100-year events and if so, could adjust rates to account for relative rarity.

"We need to make sure that we're not biased by too long a history of data," he said.

The model will also be able to adjust for changes farmers are making to mitigate hail damage, he added, such as improved farming practices and seed genetics.

Palliser, which is Canada's largest private hail insurer, can incorporate those beneficial changes into the risk rate process to the benefit of farmer clients, he said.

ONTARIO MARKETING BOARD

## Vegetable growers face changes

BY MARY BAXTER  
FREELANCE WRITER

A proposed restructuring plan for the troubled Ontario Processing Vegetable Growers marketing board leaves little room for ousted former board members to contribute to governance in the first years of its relaunch.

And if the regulations released for public feedback in June by the Ontario Farm Products Marketing Commission are passed without changes, processing vegetable growers and their new board won't be electing the chair of the board any time soon.

The marketing commission proposes that it appoint that chair position, a practice it uses on only two other of the 22 marketing boards it oversees.

If passed, the regulations would require board members who sit for three consecutive terms to step down for two years before running again. The retroactive requirement would apply to eight of nine previous board members.

Their earliest opportunity to run for re-election would be late 2019, but it would apply only to some. That's because the commission is proposing to stagger elections for two-year terms and to reboot the board by introducing a mix of two-year elected and one-year appointed positions.

Fall 2017 is the target for implementing the new board.

Francis Dobbelaar, the board's former chair and chair of the Processing Vegetable Growers' Alliance, a group formed in reaction to the province's decision to restructure, said his group worries about proposed changes.

"The (agriculture) ministry and

the farm products (commission) haven't really properly rationalized the difficulty in representing all of those different crops and grading and negotiations."

Loss of expertise at both the board and staff level also damages the organization's ability to represent growers' interests, he said.

In a June statement, the alliance expressed concern that the changes would allow the province to control the board for another year because proposed regulations don't require appointed board members to be active processing vegetable growers in Ontario.

Criteria will be developed once the regulation is made, and growers will be encouraged to apply for the board member appointments, said Magda Wolanowska, a commission spokesperson, by email.

The commission also plans to identify the chair through an application process and will share selection criteria when it's developed.

"The commission would like to appoint a chair who offers a diverse set of skills to best foster growth and innovation in the sector."

The province fired the processing vegetable growers' board and announced plans to restructure the organization in March, citing concerns about deterioration in relations between growers and processors that could do "irreparable harm" to the industry.

Former board members dispute the assertion.

In May, a group of about 100 growers filed a request in Toronto for an Ontario Superior Court of Justice Divisional Court panel to review the provincial action.

They are still awaiting a decision on that request, Dobbelaar said.



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## CROP REPORT

ALL CONDITIONS AS OF JULY 7. VISIT WWW.PRODUCER.COM REGULARLY FOR UPDATED CROP REPORTS

## MANITOBA

## SOUTHWEST

- Precipitation varied from five to 55 millimetres, but most areas are well below normal. Strong winds were also reported.
- First cut hay is well underway with good quality, but yields are below average for older stands and average for new stands.
- Spraying for fusarium head blight is underway.

## NORTHWEST

- Rainfall ranged from four to 25 mm along with warmer temperatures, resulting in good to excellent crop growth but a lot of variability in crop stage.
- Spraying underway on peas where disease risk exists.
- First-cut hay harvest is completed for dairy operations, but haying for beef operations is underway and alfalfa weevil pressure continues.

## CENTRAL

- Cloudy conditions and intermittent showers continued with precipitation varying from trace amounts to 37 mm.
- Fungicides are being applied by air where conditions are wet.
- Bertha armyworm monitoring shows numbers are increasing but remain relatively low.

## EASTERN

- Conditions ranged from cold and rainy to warm and cloudy.
- Soil moisture conditions on cropland are 100 percent adequate, while hayland and pastures are 90 percent adequate.
- Fungicide applications have begun for fusarium head blight on spring wheat, but uneven development is a challenge for timing spraying.



A nice-looking potato crop marches off toward the bottom of the Manitoba Escarpment near Morden, Man. | JEANNETTE GREAVES PHOTO

## INTERLAKE

- Rainfall amounts varied up to 32 mm, and soil moisture conditions are generally adequate.
- Canola staging varies from seeding to about 35 percent flowering.
- Alfalfa weevil larvae are eating leaves, and ongoing maturity of the alfalfa plants is reducing hay quality.

## SASKATCHEWAN

## SOUTHEAST

- Precipitation varied from negligible to 15 mm. Baseball-sized hail and a tornado touched down near Alida.
- Topsoil moisture conditions on cropland are rated 48 percent adequate, 39 percent short and 12 percent very short, while hayland and pastures are 39 percent adequate, 45 percent short and 15 percent very short.
- Hay quality is rated 52 percent good, 32 percent fair and 12 percent poor. Pasture are rated 28 percent good, 50 percent fair and 18 percent poor.

## SOUTHWEST

- Rainfall ranged from trace

amounts to 15 mm along with wind.

- Topsoil moisture on cropland is rated 24 percent adequate, 55 percent short and 21 percent very short, while hayland is 12 percent adequate, 47 percent short and 41 percent very short.
- Hay quality is rated 48 percent good and 44 percent fair, while pasture conditions are 16 percent good, 65 percent fair and 14 percent poor.

## EAST-CENTRAL

- Rainfall ranged from one to 21 mm along with wind.
- Topsoil moisture on cropland is rated 63 percent adequate and 32 percent short, while hayland and pastures are 59 percent adequate, 32 percent short and eight percent very short.
- Hay quality is rated eight percent excellent, 46 percent good, 23 percent fair and 23 percent poor, while pasture conditions are three percent excellent, 48 percent good, 31 percent fair and 16 percent poor.

## WEST-CENTRAL

- Precipitation varied from small amounts to 22 mm.
- Topsoil moisture on cropland is

rated as 46 percent adequate and 48 percent short. Hayland and pastures are 33 percent adequate and 59 percent short.

- Hay quality is rated 65 percent good and 30 percent fair, while pasture conditions are 45 percent good, 35 percent fair and 11 percent poor.

## NORTHEAST

- Rainfall ranged from trace amounts to 78 mm in the Nipawin area, which holds the provincial record of 438 mm since April 1.
- Topsoil moisture on cropland is rated 20 percent surplus and 70 percent adequate, while hayland and pastures are 20 percent surplus, 71 percent adequate and nine percent short.
- Hay quality is rated 67 percent good and 33 percent fair, while pasture conditions are 19 percent excellent, 57 percent good and 16 percent fair.

## NORTHWEST

- Precipitation varied from trace amounts to 28 mm.
- Topsoil moisture on cropland, hayland and pastures have an average rating of 19 percent surplus, 60 percent adequate and 21 percent short.
- Hay quality is rated as 36 percent excellent and 64 percent good, while pasture conditions are 15 percent excellent and 74 percent good.

## ALBERTA

## SOUTH

- There was virtually no precipitation. Hot, dry and windy conditions were reported.
- Crop condition ratings declined to 74 percent good or excellent.
- Soil moisture ratings fell to 46 percent good or excellent and the poor rating rose to seven

percent, while sub-soil remains at 60 percent good or excellent.

## CENTRAL

- Warm temperatures and occasional light showers provided good growing conditions for crops, which were 80 percent good or excellent.
- Surface moisture averages 82 percent good or excellent.
- Pasture and hay ratings declined to 77 percent good or excellent.

## NORTHEAST

- Showers and warm temperatures saw good crop growth, and crop conditions are rated 84 percent good or excellent.
- Surface soil moisture ratings improved to 67 percent good or excellent.
- Most pasture and hay crops are in good or excellent condition.

## NORTHWEST

- Warm temperatures and isolated rainfall dominated, but cereal crop development is seriously delayed and entering the stem elongation stage.
- Overall, crop condition ratings declined to 59 percent good or excellent.
- Surface soil moisture ratings improved to 64 percent good or excellent, while most pasture and hay are good or excellent.

## PEACE

- Precipitation varied from 10 to 40 mm with warm temperatures, but crop develop is well behind normal.
- Crop ratings improved to 68 percent rated good or excellent.
- Surface soil moisture ratings improved to 82 percent good or excellent, while pasture and hay are 77 percent good or excellent.

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FUJIFILM XP90

# Waterproof camera designed for rugged outdoor use

## OUTDOOR PURSUITS



KIM QUINTIN

Most people today seem to take photographs with their cellphones. They are commonplace, have decent cameras and are easy to use.

However, there are outdoor occasions that are not safe for cellphones. Adverse weather and backcountry environments can permanently damage these devices even when inside their protective shells.

The outdoor photography niche is still well-served by sports cameras designed for use in adverse conditions. One camera I have

been particularly impressed with is the Fujifilm XP90.

It has a 16-megapixel sensor that produces good quality images in all but the darkest conditions. It comes with an internal flash, but I have never had good results strictly relying on them regardless of the camera. The 5x optical zoom was adequate for general photography.

The lightweight and small camera is shockproof up to a 1.75 metre drop and waterproof up to a depth of 15 metres.

I have used the Fujifilm XP90 snorkeling in the Caribbean, producing sharp, colourful images. It handled everything my family could throw at it in our adventures.

The camera can be configured into an automatic mode that allows novice photographers to simply point and shoot or it can be configured for more exacting control.

The Fujifilm XP90 can take a series of burst photographs up to 10 frames per second. As well, I can

record video in full 1080p resolution with reasonable sound quality for its internal microphone.

The rear display is bright and large, providing a good view to frame my images. The controls were simple enough to figure out with a little experimenting.

There are multiple ways to get the photographs out of the camera, including HDMI output to an external monitor or television, USB connections to a computer, wi-fi transferring to a smartphone and moving its external memory card to a reader-equipped computer.

Having lived in Saskatchewan my entire life, one feature I was pleased to see was it was rated to function in temperatures as low as -10 C.

The combination of features makes the Fujifilm XP90 good for trips where a more expensive cellphone or camera would be at risk. It can withstand rough treatment and forever capture those rare memories in stills or videos.

For those of us active in the out-



The Fujifilm XP90 is ideal for outdoor adventures where an expensive camera could be at risk. | KIM QUINTIN PHOTO

doors and wanting to snap a few quality photographs or take some video of our adventures, a good sports camera cannot be beat.

Technical information about the Fujifilm XP90 can be found at [www.fujifilm.ca](http://www.fujifilm.ca). Retail prices vary but as

of the writing of this article [www.amazon.ca](http://www.amazon.ca) had this model starting at around \$180.

Kim Quintin is a Saskatoon outdoor enthusiast and knife maker. He can be reached at [outdoorpursuits@producer.com](mailto:outdoorpursuits@producer.com).

## AG NOTES

### AGRICULTURAL HALL OF FAME INDUCTEES

Robynne Anderson, Patty Jones and Jean Szkotnicki are scheduled to be formally inducted into the Canadian Agricultural Hall of Fame in November.

The hall of fame has about 210

inductees with only five women.

For the first time, the induction ceremony will be held in Calgary.

Anderson of Calgary began her career in Canadian agriculture with the government before starting and publishing several agricultural magazines. She operates Emerging Ag, an agricultural consulting firm. Jones from Puslinch, Ont., has

been a livestock photographer for 44 years, primarily focused on dairy animals. Her library contains more than 70,000 animals from all breeds and her official photographer status extends to major shows, including 4-H and the Royal Agricultural Winter Fair held each year in Toronto. Szkotnicki of Moffat, Ont., has led

the Canadian Animal Health Institute for more than 25 years, where she has advocated for Canadian veterinary pharmaceutical companies and livestock producers. She has been instrumental in ensuring antimicrobials are properly used as part of a new approach to human and animal antibiotic use in Canada.

projects across British Columbia, Manitoba, Saskatchewan and Alberta.

### SEAFOOD SECTOR GETS FUNDING

The federal government is planning to invest up to \$764,754 to help expand markets for British Columbia's seafood sector.

- The Canadian Pacific Kazunoko Association is in line for \$450,000 to promote B.C.'s herring roe products in China and expand Japanese sales.
- The Pacific Sea Cucumber Harvesters Association is expected to receive \$74,975 to promote markets in Asia.
- The Pacific Urchin Harvesters Association is expected to receive \$152,563 to promote their products in Asia, the European Union and the United States. Additional funding of \$87,216 is expected to go to four small- and medium-sized seafood businesses to help them expand into domestic and international markets.

### EXCEEDING '150 IN 150' CHALLENGE

With Canada celebrating its 150th birthday and with a target of 150 4-H clubs, 4-H Canada and Syngenta Canada saw 194 clubs from across the country sign up to participate in the 2017 edition of the Proud to Bee a 4-Her program.

The program helps 4-Hers take a role in learning more about pollinators and their role in sustainable agriculture and food security in Canada.

More than 100,000 pollinator-friendly seed packets have been distributed to 4-H clubs in communities across Canada since 2014.

4-H Canada is also distributing more than 30,000 seed packets across Canada as part of a new 4-H club start-up kit campaign called the Canada 150 Signature Project.

The project represents the opportunity to share with urban and new Canadians the type of programming available through 4-H in Canada and engage them in conversations relevant to Canadian agriculture.

More information is available at [4-h-canada.ca/proudtobee](http://4-h-canada.ca/proudtobee).

### OLDS COLLEGE NEW PRESIDENT

Stuart Cullum has become the 13th president of Olds College, located in Olds, Alta.

Cullum brings extensive knowledge and experience from the agriculture industry. He recently served as Olds College's chief innovation officer and has also held academic and administrative leadership roles at Lethbridge College and the Northern Alberta Institute of Technology.

Cullum has served on numerous boards, working groups and advisory panels within the post-secondary, agriculture, community development and innovation sectors.

He and wife also farmed in the Three Hills, Alta., area until 2009 and continue to participate in the cattle business with their family.

### BEEF AND FORAGE FUNDS

Co-op Community Spaces is providing \$125,000 to help Manitoba Beef & Forage Initiatives and its agricultural research farm near Brandon.

The funding program supports recreation, environmental conservation and urban agriculture projects. The money will help support construction of the Learning Centre of Excellence at the beef and forage initiative's site in Brookdale, Man.

The centre is being built to help producers, industry leaders, students and the public better understand on-farm research, food production and agriculture's role in rural and urban communities.

The new facility will also provide hands-on training in crop and livestock production, farm product marketing and workshops around safe animal handling.

Since launching in 2015, Co-op Community Spaces has provided \$4.5 million to more than 60

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The winner of the **2016 Western Producer Outstanding Dealership Award** will be announced at the WEDA annual convention in Phoenix, AZ, to be held in November, 2017, and printed in The Western Producer.

\* Name of dealer being nominated: \_\_\_\_\_

\* Dealer Location: \_\_\_\_\_ \* Ph #: \_\_\_\_\_ \* Dealer Contact (Name): \_\_\_\_\_

\* Customer Name: \_\_\_\_\_ \* Customer Ph #: \_\_\_\_\_ \* Customer Email: \_\_\_\_\_

\* Customer Address: \_\_\_\_\_

In Part I, rank the dealer on each attribute. In Part II, write a brief description of an event, incident or characteristic that you feel makes this dealer the Dealership of the Year. Use extra paper as necessary. Only Part I has to be completed for your ballot to qualify. Part II will be used to help in the selection process.

* Part I	Unacceptable	Acceptable	Somewhat Above Average	Well Above Average	Outstanding
A. The normal customer service provided by this dealer is:	<input type="checkbox"/>				
B. The honesty and integrity displayed by this dealer is:	<input type="checkbox"/>				
C. When I have needed parts or service, the response from the dealership has been:	<input type="checkbox"/>				
D. The information available from this dealer about my equipment needs has been:	<input type="checkbox"/>				
E. This dealer has demonstrated a willingness to "go above and beyond" to service my needs:	<input type="checkbox"/>				

## Part II

Why do you think this dealer should be Dealer of the Year?  
(This question helps us see specific examples of dealers doing something special for their customers, so don't worry about the appearance or quality of your writing!)

\_\_\_\_\_

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**MAIL TO:** The Western Producer Outstanding Dealership Of The Year Award, PO Box 2500, Stn. Main, Saskatoon, SK S7K 2C4  
**FAX TO:** 306-653-8750



## WEED MANAGEMENT

# Iowa's resistant weed problem: what Canadian farmers can learn

Agriculture cannot tackle weed resistance issues by 'simply spraying herbicide,' warns weed scientists

BY ROBERT ARNASON  
BRANDON BUREAU

SCHLESWIG, Iowa — Driving on Interstate 80, west of Des Moines, the land rolls more than many people might expect.

There are also tree bluffs, scenic river valleys and billboards promoting wineries... in Iowa.

Another unexpected sight was a highway sign pointing out the town of Winterset, which apparently is the birthplace of John Wayne.

But there was also something most people likely would expect to see: many, many fields of corn, soybeans and more corn.

It wasn't possible to see them in detail at 120 km-h, but the dozens of soybean fields along the highway had something in common. In early June, almost all had weeds popping up between the rows. And those weeds were likely resistant to one or more herbicides,

including glyphosate.

Some growers in Iowa are reluctant to admit they have a problem with herbicide-resistant weeds because it could affect their reputation or the value of their land.

Brian Sieren isn't one of them.

Sieren, who farms in western Iowa near the town of Schleswig, laughed when asked about herbicide resistance on his farm.

Nearly every farmer in Iowa has glyphosate-resistant weeds so there's no need to feel ashamed, he said.

Walking into a soybean field, just east of his house, it took Sieren about five seconds to find a weed with resistance to glyphosate.

The 10 centimetre tall weed was likely resistant because almost all waterhemp in the region is resistant to glyphosate, the active ingredient in Roundup.

Pointing at the weed, on a 30 C morning with a scorching wind



Iowa growers worry about fields like this one, northwest of Des Moines, where weeds get out of control. Seeds from the marestail weeds, which are likely resistant to glyphosate, can blow onto neighbouring land, causing headaches for farmers in the area. | ROBERT ARNASON PHOTOS

**Get educated and don't be in denial. Because you're going to have to deal with it eventually.**

BRIAN SIEREN, IOWA FARMER



Brian Sieren, who farms near Schleswig, Iowa, holds up a waterhemp weed from his soybean field in early June. Sieren uses diverse chemistries to manage weeds on his soybean crops, pre- and post-emergence, because almost all of the waterhemp is resistant to glyphosate.

from the southwest, Sieren explained that early season control is critical.

"You can still kill waterhemp when it's two to three inches (five to eight cm) tall with glyphosate. But the key is getting there when it's that tall," he said, as the sun blazed off his Cyclone Nation T-shirt, a reference to Iowa State University football.

If waterhemp reaches 20 to 25 cm (eight to 10 inches) glyphosate will "ding it" but won't kill it, he said.

Sieren and thousands of other growers in the U.S. Midwest are coping with waterhemp and other weed species resistant to glyphosate because they relied almost solely on the weed killer for more than a decade.

On its website, DuPont Pioneer calls the period from the late 1990s to the early 2010s the "glyphosate era" of weed control in United States.

"A 2003 survey of Indiana soybean growers found that glyphosate was the only herbicide applied on 74 percent of (Roundup Ready) soybean acres," DuPont Pioneer said.

The glyphosate era was a fantastic time for Midwest growers because they had cheap and highly effective weed control.

"We had 10 years where it worked really well," said Clarke McGrath, research and extension co-ordinator with the Iowa Soybean Research Centre. "And then in a really short time frame (he snapped his fingers), we had resistant weeds."

Sieren noticed five years ago, on his 550 acre farm, that glyphosate was becoming less effective. The herbicide would damage but not kill weeds.

In the last couple years, its efficacy has diminished and it's now difficult to kill waterhemp, marestail (horseweed) and giant ragweed on his land with just Roundup.

The situation on Sieren's farm is challenging but other growers are worse off.

There are fields in Iowa where waterhemp is resistant to four types of weed killers, including

glyphosate, ALS inhibitors, HPPD inhibitors and PPO inhibitors.

Fortunately for western Canadian growers, waterhemp is still a rarity on the Prairies. The first confirmed find of the pigweed species occurred last fall on a soybean field southeast of Winnipeg.

Jeanette Gaultier, a Manitoba Agriculture weed specialist, said there is no data on herbicide use in soybeans, but most Manitoba growers probably use "glyphosate only" for weed control.

Sieren said Canadian farmers can learn a lesson from growers in Iowa.

"Get educated and don't be in denial," he said. "Because you're going to have to deal with it eventually."

**Diversification of weed management approaches beyond herbicides must be considered in order to support the tools currently available to farmers.**

MIKE OWEN, BOB HARTZLER  
2017 HERBICIDE GUIDE

Sieren, who also works as a marketing consultant and adviser for other farmers, has adopted a more sophisticated weed control program. He applies a diverse array of herbicides, pre-emergence and post-emergence, on his fields. Those include 2,4-D and Cobra, a PPO inhibitor.

McGrath said such a program is more expensive but the cost is reasonable.

"Two trips of just glyphosate, if a guy can get away with that, we're talking \$10 to \$12 (an acre)," he said. "To do what guys like Brian (Sieren) are doing... you are probably talking \$25 to \$30 (per acre)."

McGrath said many Iowa growers are finally accepting that they have a problem.

"A few years ago, you would talk about resistance... and grower

interest was ehhhh," he said, glazing over his eyes to simulate boredom.

"Now (they) are asking for training on how to handle resistance... and how to put together the right herbicide and insecticide and fungicide programs to hold off resistance."

Around Schleswig, most farmers realize the glyphosate-only era is over, but a few haven't gotten the message. Those few can cause problems beyond the borders of their own farms.

Sieren, for instance, never had a problem with glyphosate-resistant horseweed, but two years ago it suddenly appeared on his land.

"I figured out where it came from. A neighbour that wasn't doing a good job (controlling the weed) and the wind blew the seeds over," he said. "I could do everything... right, as far as chemicals and trying to control stuff, but if your neighbours aren't part of the program... the seeds blow around so much."

Nevertheless, most Iowa growers have added chemistries for pre-emergence, post-emergence and burn-down applications. Others are planting LibertyLink soybeans or beans that are tolerant of glufosinate.

Last year, the acres of LibertyLink beans likely doubled in the state, McGrath said.

Diversifying herbicides and rotating between Roundup and LibertyLink beans are positive developments, but weed scientists at Iowa State University remain worried.

"Diversification of weed management approaches beyond herbicides must be considered in order to support the tools currently available to farmers," said Mike Owen and Bob Hartzler in their 2017 *Herbicide Guide*.

"Despite recent pronouncements by some in the industry, agriculture will not be able to resolve weed management issues by simply spraying herbicides."

CONTINUED ON NEXT PAGE >>

**It probably won't take very long for dicamba resistance to evolve in waterhemp, marestail, lambsquarters.... It will happen quickly if we're not careful.**

CLARKE MCGRATH, IOWA SOYBEAN RESEARCH CENTRE



Clarke McGrath, Iowa Soybean Research Centre research and extension co-ordinator, examines a sizable example on marestail (horseweed) in a field of soybeans in western Iowa. | ROBERT ARNASON PHOTO

» CONTINUED FROM PREVIOUS PAGE

In 2012, a group of Agriculture Canada weed scientists, including Hugh Beckie and Neil Harker, issued a similar message.

In a *Weed Science* paper, they said all proposed solutions to herbicide resistant weeds seem to involve more application of chemicals.

**Stacked traits**

Over the objections of some weed scientists, major crop science firms pushed ahead with stacked traits, or crops with tolerance for more than one weed killer.

Monsanto now has soybeans that can be sprayed with glyphosate and dicamba. And Dow has Enlist soybeans, which are tolerant of glyphosate and a new formulation of 2,4-D. The firms plan to roll out similar products for corn.

Sieren didn't seed dicamba soybeans this spring but he thinks the technology will be beneficial.

"I think it will (make a difference) for some time. Then they (the crop science companies) will come up with something else."

McGrath said the stacked traits should help, but he wonders how long they will last.

"It probably won't take very long for dicamba resistance to evolve in waterhemp, marestail, lambsquarters.... It will happen quickly if we're not careful."

Many Iowa growers are also worried about dicamba drifting onto neighbouring fields.

"If you have a lot of people spraying dicamba, how do you know where it came from? The challenges will escalate over the next couple of years," McGrath said.



**Palmer amaranth**

If there is one weed that could play the role of super-villain, it would be Palmer amaranth.

The pigweed can produce 500,000 to one million seeds per plant, it can grow five to 10 cm per day and it rapidly develops resistance to herbicides.

In May, American and Canadian weed scientists ranked it as the worst weed in North America.

Palmer is most common in the U.S. southeast but in the last few years it has migrated to the Midwest.

It's now in half of all counties in Iowa and has been spotted only 10 kilometres from Sieren's farm.

Despite the threat, Sieren doesn't lie awake at night worrying about Palmer amaranth. If it does appear on his farm, he said he will chop it down, put it in a bag and burn it.

If it becomes established in one of his soybean fields, he will switch to corn.

"You can just plant continuous corn and get rid of it," he said. "Just because (more) chemicals are avail-

PALMER AMARANTH CAN PRODUCE UP TO **1 million** SEEDS PER PLANT

able for the corn (such as atrazine)." Sieren is confident that Iowa farmers will take the necessary steps to tackle Palmer amaranth.

"I don't think it will move in and cover whole fields," he said. "I don't think it's going to be as bad as the scare factor it was two years ago."

For Sieren and most farmers in Iowa, herbicide-resistant weeds are part of the new reality of farming.

It's an added complication, but not the end of the world.

Few weed scientists believe that herbicide resistance will cause an agricultural apocalypse, but things may get worse before they get better.

"There are no new herbicides in the developmental pipeline that will be commercialized within the next 10 years and possibly longer," Hartzler and Owen wrote in their 2017 herbicide guide.

"Issues in weed management continue to be increasingly complex, and there are no simple and convenient answers."

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Images courtesy of Kathrin Lowe (left), Sam Wirzba (middle), and Canadian Cattlemen's (right)



**FAR LEFT:** Peter Bigler, left, chair of the North Peace Applied Research Association, and manager Nora Paulovich, centre, show tour participants the nodules on a fababean plant.

**ABOVE:** Paulovich examines a multi-species shelterbelt on the research site.

**LEFT:** The nitrogen-fixing nodules are evident on a fababean root.

| BARB GLEN PHOTOS

NORTH PEACE PLOT TOUR

# Research targets Peace area farmers' needs

Improvement to soil quality through use of cocktail cover crops and minimum tillage are among research thrusts

**BY BARB GLEN**  
LETHBRIDGE BUREAU

MANNING, Alta. — Soils in Alberta's Peace River region "are particularly difficult to manage," reads an Alberta Agriculture fact sheet.

Nora Paulovich, manager of the North Peace Applied Research Association, knows all about that but various projects on the association's site near Manning, Alta., are aimed at improving soil quality.

Progress is being made, said Pau-

lovich during the June 20 "solstice" plot tour. Cover crops are showing particular promise, she said, as she walked across a plot in its fourth year of cover cropping.

Next year, the crew will start a long-term crop rotation trial on the plot using wheat, barley, canola and peas.

"There's not enough being done on soil health, not enough funded research and we have the perfect scenario here," she said.

"We've got a start on it, we've got a plan and we want to see where we

can go with reduced inputs by using the cover crops."

NPARA's applications this year for funding from the major commodity groups were not approved, with the exception of the Alberta Wheat Commission, which provided some money.

Paulovich can't explain why more funds aren't provided for research in the dark grey and grey-wooded soils of the region.

"If we can reduce our inputs, it's just in everybody's best interests," she said. "Hopefully, the commodity groups will come on board. They take a lot of money out of here. When you look at the check-off dollars, there's a lot of money comes out of here and not that much comes back."

She said a lot of the available soil information originates from the United States and is not applicable to the Peace region.

"We need local research done. We're very fortunate in this province to have ARAs (applied research associations.) We just need more reliable funding."

Soil health is a main thrust for NPARA. It also conducts crop and agronomic trials.

It has been testing various cocktail cover crop mixes since 2013 and is also testing sainfoin varieties and sainfoin-alfalfa mixes to gauge their yield, nutrient levels and in



Quinoa is often mistaken for a weed because it is in the same family as lamb's quarters

the case of sainfoin particularly, its longevity.

A 10 acre pasture plot has been established to see the effect of grazing on the varieties, as well as sainfoin's ability to mitigate cattle bloat.

Local interest in fababean potential prompted NPARA to start trials in that crop as well.

"We think that it definitely could be another pulse that people could include in their crop rotation. It has to go in early because it is a long-season crop," said Paulovich. Some farmers in the area have grown it for sale as hog feed.

Weather challenges last year saw some fababeans harvested this spring and she was surprised at

how well it stood up.

"It does fix the most nitrogen. It's awesome when later in the season we can dig them up and look at the nodules. They've got huge, fat nodules on them, so they're really pumping out the nitrogen."

Chickpeas, lentils and soybeans, along with quinoa, fall rye and numerous varieties of wheat, oats and barley are all on test.

"Our variety trials are very important to our producers and to our board," said Paulovich.

"We like to do variety trials of all the specialty crops that guys might think of trying. We can make the costly mistakes instead of them."

NPARA also has a display of an eco-buffer along two of its borders, consisting of various species of trees and shrubs.

"They call it an eco-buffer because it can be a pathway for wildlife to go from a grain area to a riparian area. It has minimal maintenance on it because they are planted very close together and include a multitude of species.

"I think we have 25 different species in there, lots of suckering species, lots of berry-producing ones, so it's good for pollinators. It looks beautiful. It more mimics nature than our monoculture shelterbelts."

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## TRAIT RESEARCH

# Genetic selection coming to bee sector

BY BARB GLEN  
LETHBRIDGE BUREAU

BEAVERLODGE, Alta. — Variability of traits in honeybees is similar to the variability of traits in other livestock, and researchers are working to identify markers so beekeepers and honey producers can select for the traits they want most.

Renata Borba, a post-doctoral researcher at the Agriculture Canada research farm in Beaverlodge, said work on the project, dubbed Bee'Omics, is underway in five regions of the country.

"We are looking at 12 economically valuable traits, traits that beekeepers find very important," said Borba during the 64th annual beekeepers field day at the research farm.

"All 12 traits that we are studying are traits that are heritable. We're going to collect samples from these colonies and look at their protein and their DNA to find these pieces, these specific proteins or group of proteins, or one specific gene or group of genes, that correlate to that behaviour."

The traits include honey production, brood production, hygienic behaviour, grooming behaviour, overwintering ability, aggression behaviour, varroa resistance, healthy gut biome and several other innate immunity characteristics.

"We're developing these markers so beekeepers can select for colonies that have those traits and they can breed from those colonies, so they can have better colonies, healthier colonies, colonies that produce more," said Borba.

Honey and brood production are obviously important to beekeepers. Hygienic behaviour, for example, may be a lesser known but highly desirable trait.

Hygienic bees can quickly identify brood that is infected, sick or dead and remove it from the colony before any virus or disease spreads.

Bees with good grooming behaviour are able to more readily remove varroa mites from their bodies. Varroa mites carry a virus that kills bees.

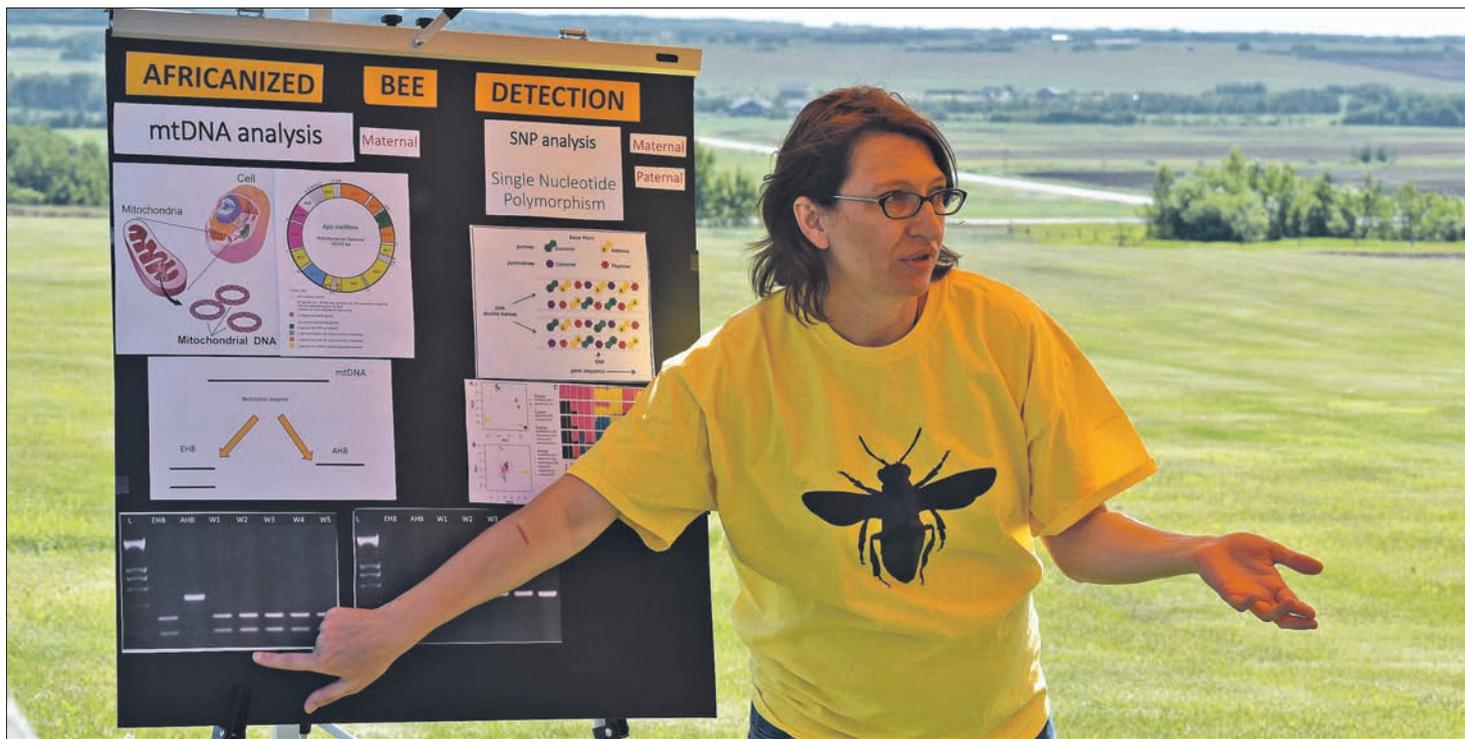
"Some genetic lines are known for having the ability to reduce on their own the infection level of varroa mites," Borba said.

Genomics and proteomics are both being used as research tools so researchers can identify more robust markers that beekeepers can use for a long time.

This is the second year of the Bee'Omics project with research underway in Beaverlodge, Lethbridge, British Columbia, Manitoba, Quebec and Ontario.

Borba said about 1,000 colonies were studied last year, and this year researchers will repeat and validate the markers identified last year. That will involve testing about 550 colonies across Canada.

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Patricia Wolf Viega, a senior technician with the National Bee Diagnostic Centre in Beaverlodge, Alta., explains Africanized bees to visitors at the Agriculture Canada beekeepers field day June 23. | BARB GLEN PHOTOS

## BEE RESEARCH

# Research farm expansion will benefit bees

Facility to host Ag Canada's bee research program

BY BARB GLEN  
LETHBRIDGE BUREAU

BEAVERLODGE, Alta. — A \$6 million injection to the National Bee Diagnostic Centre will expand the reach and abilities of the Agriculture Canada Beaverlodge Research Farm, now in its 100th year of operation.

The project is an initiative of Grande Prairie Regional College, which established the centre in 2013 at the research farm. The centre will now triple in size and host Agriculture Canada's bee research program, along with its own research pursuits.

"Becoming host to AAFC's bee production management research program through dedicated and shared laboratory space will truly enable us to create the National Centre of Excellence for Bees," Bruce Rutley, GPRC's director of research and innovation, said in a news release.

The announcement took place during the research farm's 64th annual beekeepers' field day June 23.

Stephen Pernal, Agriculture Canada research scientist and officer in charge of the farm, eyed the stakes in the ground for the new building as he discussed the farm's history and future.

"It's a period of change and a period of moving into the future. Governments come and go with their different initiatives but certainly in Canada right now, partnerships are highly desired and this partnership in terms of bee research with Grande Prairie Regional College has been very beneficial."

The Beaverlodge research farm is Agriculture Canada's most northerly site.

It conducts a variety of crop,

agronomy and soil studies and is also known for bee research.

Pernal said the greater attention on bees and their value as pollinators in recent years has helped raise the farm's profile.

"I think many levels of government and the general public have been quite receptive and supportive of trying to find ways to support bee health and support beekeepers," he said. "I think that's been very possible because of heightened concern about bees, heightened awareness, and realizing the importance of pollinators to agriculture."

The Beaverlodge site was founded by W.D. Albright, who settled on the farm in 1913 and petitioned the federal government to undertake crop trials in 1917. By 1919, the site had been officially recognized as a dominion agricultural substation.



STEPHEN PERNAL  
AGRICULTURE CANADA

Albright was essentially "a one-man show" in the early years, said Pernal. He managed the site until 1945 and during that time undertook research and held field days that typically drew hundreds of farmers.

In 1965, Beaverlodge became head of Canada's northern research group, controlling sites all over the north, into the Northwest Territories and the high



CENTRE: Diana Cox Foster of the U.S. Department of Agriculture's pollinating insects research lab explains various bee disorders.

ABOVE: Amy Needham and Ian Hof, who both work on the pest management team for the city of Grande Prairie, extract nectar from canola flowers during the open house.

Arctic. That was wound down in the 1970s.

The farm now has a permanent staff of 23, and levels rise to 50 people in summer, Pernal said. In addition to its crop and soil research, it is the only federal site in Canada with a honeybee research program.

"We've typically always had a honeybee program here. Albright brought the first bees in... in 1923, I think was the date.

"And what was really early recognized was the extremely high productivity of bees here in the Peace region compared to other parts of Canada or the world. Amazingly, they saw these colonies produce two and 300 pounds of honey per colony and certainly beekeeping really became a staple of the Peace region and still to this day is recognized as having some of the highest honey pro-

duction anywhere in the world."

Grant Hicks, past-president of the Alberta Beekeepers Commission and a major honey producer, said research at Beaverlodge is important. He said scientists here are able to work with others in North America to the benefit of beekeepers.

"They all work together, rather than compete. And that's kind of refreshing in my experience. In the '80s, they were all fighting for the same dollars and now they seem to be more co-ordinated. And I think that push has largely come from Beaverlodge. I view it as very vital," said Hicks.

The national bee health survey initiated in Beaverlodge could also serve to protect international markets, he added, because standards will be comparable to those in Europe, a large importer of honey.

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25 YEARS AGO

# National Farmers Union denies being 'too far left'

## 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: JULY 9, 1942

Argentina, Australia, Canada, the United States and the United Kingdom met in Washington, D.C., to begin the process needed to reach an international agreement governing wheat prices. Farmers called on the dominion government to include them when the negotiations got underway.

A two-day conference in Saskatoon concluded that "legal machinery" needed to be set up with provincial and federal authority to deal effectively with the problem of adjusting all farm debt in relation to agriculture's ability to pay. The conference was attended by representatives of the three prairie governments, the prairie wheat pools, municipal associations and farmers' educational organizations.



Old boots topped a kilometre of fence posts at Poor Boot Acres north of Martensville, Sask., in the spring of 1984. | FILE PHOTO

### 50 YEARS AGO: JULY 13, 1967

J.C. McIsaac, Saskatchewan's municipal affairs minister, proposed changing the costs that railways would be allowed to use when making the case for abandoning rail lines. McIsaac suggested using only the cost of the branch lines instead of the previous practice of including the cost of shipping grain from the local elevator to the export point.

National Farmers Union president Roy Atkinson said grain companies needed to be forced to modernize their operations before requests for increased handling charges were considered.

Atkinson said it was generally agreed as a "rule of thumb" that an elevator needed to turn over its capacity 3 1/2 times a year and have an average storage of 45 to 50 percent of capacity at all times to break even, but this was gener-

ally not being accomplished.

### 25 YEARS: JULY 9, 1992

The Cairns group, which represented trade oriented nations, appeared to have Canada's support when it proposed ending supply management, but federal Agriculture Minister Bill McKnight said later that Canada continued to defend its right to retain supply management import controls.

Stuart Thiesson, who retired as executive director of the NFU after 41 years in the farm union movement, said he could not understand why so many people considered it to be a radical organization. "We are being accused of being too far left, whatever the hell that means," he said.

"But if you boil it right down, we've been defending the status quo relative to the Canadian Wheat Board, the Crow, marketing boards. That isn't very radical."

### 10 YEARS AGO: JULY 12, 2007

Bruce Horner, chief executive officer of Great Northern Terminals in Nampa, Alta., was hoping for sweeping changes to how Canadian National Railway did business after the Canadian Transportation Agency ruled that the railway breached its statutory obligations to provide GNT with adequate rail service.

"I think it's good for farmers and I think it's good for small grain companies," he said.

Pulse Canada launched a transportation strategy designed to get on top of the lingering special crops shipping problem that had plagued the industry for years.

"We've been talking about it long enough. Now it's time to act," said Greg Cherewyk, director of transportation with Pulse Canada.

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# PRODUCTION

## AGRICULTURE CANADA DEVELOPS BLACKLEG RACE TEST

It's not always good enough for canola growers to know they have blackleg in their fields. Management decisions are often based on what kinds of blackleg are present. This new test should help. | **Page 58**



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

SOIL MANAGEMENT

# Aerator tackles hard, reduced-till soil

Digging into the dirt doesn't mean tearing it up

BY RON LYSENG  
WINNIPEG BUREAU

Soil needs to breathe. It loses productivity when sealed with a layer of hardpan or a buildup of mulch on the surface to block the infiltration of air and water.

Cattle producers have long realized that pasture soil becomes dry and hard when it has been compacted by a concentration of animal hooves and has had its surface sealed by a thick mat of organic matter. Water runs off instead of soaking down into the root zones, and air fails to reach soil microbes down within the soil.

Year after year, the pasture becomes progressively less productive.

However, it's no longer just a cattle producer's problem. Veteran zero-till farmers have found the same issues in their long-term no-till fields, said agronomist David Benjamin of RanchWorx, which designs and builds soil aerators for sale around the world.

Benjamin, who works in Okotoks, Alta., said that when the company started building soil aerators 44 years ago, they were intended to be used in pasture and hayland renovation. The concept of zero-till cropping hadn't even hit yet.

"We've become accustomed to walking an old pasture and seeing a condition known as root bound soil," he said.

"It's caused partially by hooves of cattle. Researchers say there's more soil compaction from the hooves of a cow than there is from tires on our big tractors."

The similarities between pastures and zero-till fields are becoming more evident, he added.

A number of inter-related factors prevent roots from going deep in their water quest. Compacted soil is too strong of a barrier to allow the roots to migrate, and there's very little water in the lower zones anyway because it can't infiltrate. As well, taproots don't make the effort to search deeper because they sense that there's no water down there. As a result, the roots interlink into a tight mat just below the surface.

Despite countless studies that validate the benefits of soil aeration in pastures and hayland, Benjamin said some cattle producers are still reluctant to take the plunge.

"Guys tell me, 'my grandfather owned that land a hundred years ago and he told us to never touch it. If we do, we're going to bring up rocks and start all kinds of erosion and other problems,'" he said.



RanchWorx agronomist David Benjamin says aerator sales to zero-till farmers are increasing every year as they deal with a thick mat of organic material on the surface and a compacted hardpan layer below caused by heavy machinery. | PAUL RAY PHOTO



RanchWorx blades carry a lifetime warranty against breakage.

| DAVID BENJAMIN PHOTOS

"But the RanchWorx doesn't do those things. It's not like deep tillage or ripping. You're not bringing up boulders or exposing the soil to erosion. The work is performed by sharp six-inch-wide blades welded to the roller. Slices in the soil surface are only six inches across and six inches deep.

"The big thing is that it fractures the soil down to a depth of 24 inches. It alleviates any hardpan or compaction so water can finally get down into the soil."

Gravity brings water deep into the soil and the roots chase after it.

Benjamin said the impact on the root system is the same in zero-till field crops and forage crops. The plant puts down taproots that are deeper and stronger so it accesses more water and nutrients.

Not only does the aeration process allow water to flow into the soil, but it also incorporates organic matter.

Benjamin said nutrient recycling is stymied in pastures, hayland and zero till fields because organic matter lies on the surface. Many nutrients are lost to the atmosphere as it decomposes. A soil aerator works some of that

organic matter into the soil so the nutrients feed the crop.

"Soil aerators take an excessive amount of physical abuse," Benjamin said.

While other manufacturers use a spike or a tine to punch holes in the soil surface, RanchWorx uses a blade.

**The big thing is that it fractures the soil down to a depth of 24 inches. It alleviates any hardpan or compaction so water can finally get down into the soil.**

DAVID BENJAMIN  
RANCHWORX

"We have enough confidence in the strength and integrity of our blades that we warranty them for life against breakage. We can't warranty them for normal wear and tear, but if a blade breaks, we replace it free of charge. We have a special process for welding on new blades so they remain in place."

Benjamin said the frequency of



Some ranchers are hesitant to aerate old pasture and hayland for fear of bringing rocks to the surface. Benjamin counters that concern by explaining that the blades simply cut slots through the sod.

aerating a field or a pasture depends on soil conditions.

It also depends on annual rainfall. He said it's best to aerate just before rain if possible. The other strategy is to aerate just before winter so you'll have water penetration from snow melt and frost penetration.

"Custom aeration is a good way to offset the investment in a machine," he said. "It's not a machine that you'll use full time on your own farm. Rather than let it sit idle, there are opportunities to do custom work for other farmers."

"I was a hay producer before I started with RanchWorx. I ended up buying two of these machines because one was always rented out. I couldn't get my own work done, so I had to buy a second unit."

Some RanchWorx models are designed specifically for brush clearing. Some are single drum and others are tandem drum units. He said once the pulling tractor has knocked down the biggest trees and brush clumps, the aerator mulches the wood and slices into the root balls. The blades incorporate the wood and breaks up the root system, he added.

"When you're talking about brush clearing, you used to have only two options," he said.

"You can spend a lot of money and spray it out to kill the trees, or take a dozer or an excavator to dig it all up and pile it and eventually burn it."

"But now people are realizing that these aerators are a viable third option. If you have a tractor that can drive through it, the aerator will do the rest. And we're seeing more 4x4 tractors now with blades on the front, so this is a logical third option. A lot of guys already own those blades, so all they need is the aerator to pull behind."

RanchWorx has a wide variety of soil aerator types, ranging in price from \$15,000 to \$100,000. The most common units sold on the Canadian Prairies are the SB models ranging from \$20,000 for an eight-foot drum up to \$40,000 for a 16-foot drum.

"Here's an interesting fact to consider," Benjamin said. "Every year, we're selling more soil aerators to the zero-till guys who are a hundred miles from the nearest pasture."

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FILE PHOTO

## WEED OF THE WEEK: STINKWEED

BY MICHAEL RAINE  
SASKATOON NEWSROOM

Stinkweed isn't the worst of the weeds that are common on the Prairies, but little by little it eats away at crop resources and selects itself for herbicide avoidance.

It is fairly easy to kill with the right herbicides applied at the right time, but by the time farmers get the chance it has already sucked up a fist-full of nutrient dollars.

As well, the winter annual will germinate from seed mid-season, after crops have passed most herbicide windows.

Stinkweed can withstand hard frosts in the spring and midseason droughts and still manage to produce up to 15,000 seeds in a single year.

All those seeds make it a danger to developing resistance, and it has, making Group 2 controls unreliable when dealing with this old problem.

The seeds are even tougher than the plants, with heavy seed coats that can remain viable in the soil for up to seven years. Seeds that are incorporated into the soil profile below the cropping region can last 20 years or more.

The plants grow up to 60 centimetres high and are often

branched. They are typically shorter, but by the second week of May the weed can be more than 30 cm tall and difficult to kill.

Lower leaves can be in the form of a rosette. Leaves are alternate and without hairs. The upper leaves clasp at the stem.

The small, white flowers are stalked, with yellow to green centres. Seeds are held in tan packets.

Stinkweed, formally known as *thlaspi arvense*, is also called Frenchweed, pennygrass and fanweed.

Not only is it a pest on its own, but it also acts as host to other pests, including clubroot and the tarnished plant bug.

The weed can also taint milk and meat with bad flavours and contains enough glucosinolates to be toxic to livestock.

During periods of drought, such as the late 1980s, researchers in Western Canada documented cattle abortions, animals off feed and even death from eating the weed.

The best time to deal with the pest is in the fall ahead of freeze up. Fall herbicide burn-off strategies tend to be successful.

Bromoxynil with 2,4-D or MCPA are effective at controlling the weed in the appropriate crops. Most Group 2 chemistries are also effective,

### STINKWEED FACTS:

- **Family:** brassicaceae
- **Life cycle:** annual or winter annual
- **Seed/fruit type:** true seed
- **Length:** 2-2.5 millimetres
- **Width:** 1-1.5 mm
- **Thickness:** .5-1 mm
- **Shape, in outline:** oval
- **Shape, in cross-section:** oval
- **Surface texture:** distinctive pattern of concentric ridges cover the seed
- **Colour:** reddish-brown when immature; dark brown when mature
- **Other structures:** hilum at narrow end looks like an open mouth with tissue inside

but the weed has developed resistance to Group 2 herbicides in parts of Alberta.

Glyphosate, glufosinate and Clearfield products provide control in herbicide tolerant crops. Tillage can control the weed, but it will survive if not fully uprooted or chopped.

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### SPRAYERS

## Dedicated water pump would ensure safe tank clean-out

There's more to flushing out a sprayer tank than adding clean water, says spray expert

BY ROBIN BOOKER  
SASKATOON NEWSROOM

Agriculture application researcher Tom Wolf says manufacturers should do a better job building machines that are easier to clean out.



TOM WOLFE  
SPRAY RESEARCHER

"Why can't you sell us a sprayer worth \$500,000 or more, make clean-out easy and effective and give the customer some sort of assurance that when they're done the clean-out that the canola is safe," Wolf said during the Canola Palooza event in Saskatoon recently.

Adding an additional water

pump dedicated to the clean water tank would allow operators to clean out more quickly and effectively by practicing what Wolf dubbed continuous rinsing.

He said continuous rinsing is a more efficient way of diluting the remainder of the chemical in the sprayer tank.

As with other clean-out methods, growers are encouraged to spray the remainder of their tank in the field.

"Once the pressure goes down in the system and the pump is sucking air, we flick on the clean water pump and now that draws down the clean water," he said. "It may contain a cleaning solution and it rinses the tank walls, and all the time the solution pump is still running and is drawing that down and pushing it through the booms."

The remainder of liquid in the tank becomes more diluted in just a few minutes compared to traditional clean-out methods, and operators don't have to bother performing batch rinses.

Existing sprayers can be retrofitted with a water pump dedicated to the clean water, which is pumped into the tank through the rinse-down nozzles at the top.



Continuous rinsing is the most effective way to clean out a sprayer. | FILE PHOTO

However, the additional pump has to be capable of matching the sprayer's output volume.

"The pump has to be either hydraulically or electrically or air driven, and it depends on the make of the sprayer," Wolf said.

"The pump has to deliver a volume of water that is very similar to your sprayer output volume, which is somewhere between 20 and 30 gallons per minute, for an average high clearance fast moving sprayer."

Operators must match the volume of water being pumped into the spray tank and the volume of water being pumped out through the boom so that excessive water won't accumulate in the tank.

"You want to always be accumulating a little bit and then drawing that down so your pump is sucking

air, then not sucking air," he said.

"It creates these plugs that are actually scrubbing those lines, which is a much better way of cleaning."

Up to 10 gallons still remain in the sprayer after a sprayer tank is sprayed out.

"The sump, the draw line to the pump that might have some liquid left in it, and then the return line to the back to the tank, the agitation and sparge line: those together contain a total of 10 gallons, let's say."

He said the least efficient method of cleaning a sprayer is to add the entire contents of the clean water tank to the sprayer tank.

"If you add 150 gallons you've diluted it by a factor of 16, approximately. If you do three 50 gallon batches, with the same volume, you've diluted it by a factor of 216,"

he said. "If you were to take the same 150 gallons and just do a continuous rinse, with the same precedent, so the tank is also empty at the beginning, you will be much cleaner in less time."

He said operators would likely find it useful to keep cleaner in their clean water tank, especially when cleaning out Group 2 chemicals before spraying canola.

"Some guys are concerned that spraying ammonia right onto your crop is harmful, it's not. Ammonia doesn't harm crops."

Ammonia raises the pH level, which is helpful for the DuPont, Dow and Bayer group of Group 2 products. The BASF Group 2 products dissolve better at a lower pH, he said.

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CANOLA DISEASE

# Blackleg race test will aid management

By knowing the type of blackleg and matching it with the resistant labels in seed, growers can better manage the pathogen

BY ROBIN BOOKER  
SASKATOON NEWSROOM

A rapid blackleg test from Agriculture Canada is now available.

"We have developed a set of molecular markers that can tell us exactly what races are in the field," research scientist Hossein Borhan said at CanolaPalooza in Saskatoon.

"The markers have been tested over several years in the lab. They are very robust, and we have recently released these markers to several of the provincial and also private labs, to conduct diagnostic tests."

The markers have been developed through a research project with support from Sask Canola, the Agriculture Development Fund and Agriculture Canada.

A commercial blackleg race test may be available for producers as soon as next year once the molecular markers and a protocol are tested and validated through the diagnostic labs.

Labs used to tell farmers only if their sample had blackleg or root rot in it.

Justine Cornelsen, an agronomy specialist with the Canola Council of Canada, said the new testing protocol will greatly help growers manage blackleg.

"It will pair up really well with the new R gene labels, so producers

will then know what genetics they are using in their varieties, major gene genetics, and then they will be able to match it up with the actual pathogen in their field or fungus in their field," Cornelsen said.

The Western Canada Canola/Rapeseed Recommending Committee approved a new labelling system last winter for major gene



JUSTINE CORNELSEN  
AGRONOMIST

canola resistances as a way to extend the life of the resistant genes. The system identifies specific resistant genes in the varieties and place them into one of 10 groups.

The existing labelling system for canola, including the R and MR annotations, has been retained to help distinguish the qualitative resistance in the canola cultivars.

The labelling system is voluntary and it may take years for all seed companies to buy in, but the avail-

ability of the new blackleg race testing for producers may hasten seed company participation.

"I think that was a concern from some companies, they were wanting this step (blackleg race testing) to come as well," Cornelsen said.

Dekalb is the only company that includes the blackleg resistant genes on its canola variety labels.

"They (Dekalb) have released their 2018 seed guide and have incorporated their R gene labels in there," Cornelsen said.

"So they've done a really good job to outline the groups because we've grouped these genes, and then they have put the associated gene next to it."

She said other companies plan to have their labels out within a year.

Seed companies still have reservations about the blackleg resistant labelling system because an over-emphasis on major gene blackleg resistances may not be a good long-term strategy in terms of durability of the resistance.

"A lot of those (blackleg resistant canola) varieties have a pair of major and minor genes, and that's probably what's been doing lots of the heavy lifting in Canada, are those minor genes."

Gary Peng, a research scientist with Agriculture Canada, has shown through his work that the major gene (quantitative resis-

tance) commonly used in commercially available canola varieties are now largely ineffective, and it is minor gene (qualitative resistance) in cultivars developed by canola breeders that is currently suppressing blackleg.

"Qualitative resistance is kind of a backbone of the current varieties for now," Peng said during a presentation at Murray Hartman's Science-O-Rama in Lacombe, Alta., last spring.

"It is a valuable resource to us. The drawback of only relying on qualitative resistance is when we have things like hail damage, that's where that resistance will start falling down."

Damage to canola plants from root maggots and flea beetles can also allow blackleg to bypass qualitative resistance and infect the stem.

Major gene resistance allows even wounded plants to resist a blackleg infection and the associated yield loss that it causes.

The problem with major gene resistance is that it can quickly break down if it is relied on too heavily.

It is hoped the labelling system in combination with new testing procedures will help protect new major gene resistances in the developmental pipeline. This is because growers with blackleg

problems can now better understand which major gene resistance is breaking down in their field, and they can rotate to a different resistance package.

Growers previously had to switch to a different R rated variety, which may have used the same resistant genes.

The blackleg pathogen is present in the majority of prairie fields, including more than 90 percent in Alberta, but there is still low incident rate of blackleg infections in Canadian canola.

There are also concerns that the disease can be used against the Canadian canola industry to deny market access, especially by China, which has stated it does not want to risk importing blackleg in shipments of Canadian canola.

When it comes to controlling blackleg, Cornelsen said the best defence is focusing on the extension of rotations, scouting for the disease and knowing what you're looking for.

"Right now is a good time," Peng said. "If you are seeing root rot symptoms or potentially blackleg, if you're not sure about what you're seeing, make sure to send those samples away because they will help to at least identify what you're dealing with."

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# PRECISION AGRICULTURE DATA COLLECTION

A SPECIAL FEATURE OF THE WESTERN PRODUCER | E-MAIL: NEWSROOM@PRODUCER.COM | 306-665-3544 | MANAGING EDITOR: MICHAEL RAINÉ



The Falcon 5000 Automated Soil Sampling System geo-references samples to their exact location in the field. At a cost of US\$60,850, inventor Allan Baucom says this is the type of farm machine that can conceivably generate a lot of off-farm custom work following harvest. | ALLAN BAUCOM PHOTOS

## Start with soil

Collect 40 samples per minute at a 12-inch depth, running 12 m.p.h. while simultaneously sending GPS location data to the cloud

BY RON LYSENG  
WINNIPEG BUREAU

Nobody denies the value of a good soil test program. The challenge has always been to obtain enough samples in close enough proximity and in the short period of available time.

Vertical core samplers mounted on quads or trucks were a big improvement over hand sampling, but the process still consumes too much time for many growers. As farm sizes grow, more and more operators find they can't complete the task before freeze-up.

Enter the world of automated soil samplers.

This small handful of commercially available automated sampling machines use various arrangements of rubber tracks, scoops, knives and large diameter wheels with integral probes. As with most innovative agricultural technology, the newest inventor in the marketplace has the benefit of studying the shortfalls of existing machines and building upon that analysis.

Case in point is Allan Baucom's

new Falcon 5000 automated soil sampler.

Baucom farms 9,000 acres in North Carolina but harvests 14,000 acres a year because he uses a system of double cropping. He also runs an engineering and metal fabrication plant, specializing in agricultural trailers.

"I realized my conventional soil sampling program was time-consuming, labour intensive and often gave me inconsistent results because of the human factor," he said.

"We work with the latest precision ag technology, therefore our major management decisions are now data driven rather than based on tradition. That's out the window if you don't have accurate soil test data."

In pondering how to improve his soil test program, Baucom's main concern was the variability in sample depths guided by human hands.

After reviewing commercially available automated soil samplers, he concluded they were all too complex and costly. He said he felt it was time to take the bull by the



The ground-driven drum receives soil samples that fall out of the probe and then thoroughly mixes them before sending them down the slide into the red carousel. Note the geo-referenced bar code labels showing through the windows on each sample bag.

horns and develop his own automated soil sampler that would give himself and customers the benefit of high quality samples at their typical seven-inch depth.

Working with his in-house engineers, Baucom devised a ground-

driven, five-foot diameter drum with a single seven-inch probe sticking straight out from the edge. He named it the Falcon 5000 Automated Soil Sampling System.

CONTINUED ON NEXT PAGE >>

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ABOVE: The probe is forced into the soil as the Falcon's five-foot diameter stainless steel drum rolls forward. Baucom says the rolling inertia of the drum makes it easier for the probe to penetrate, compared to systems that penetrate vertically.

TOP RIGHT: A bristle brush cleans the probe after every revolution.

RIGHT: The probes are made from high grade stainless steel and have an increasing inside diameter from the tip to the exit orifice so wet clay samples slide out easily.

| ALLAN BAUCOM PHOTOS



#### » CONTINUED FROM PREVIOUS PAGE

With one probe mounted on the drum, Falcon 5000 grabs one sample every 15 feet. With two probes mounted 180 degrees opposite each other, it grabs one sample every 7.5 feet. All components that contact soil are made of stainless steel.

The entire apparatus is mounted on a compact, two-wheel trailer that can be towed on the road at the legal speed limit. Recommended operating speed in the field is eight to 12 m.p.h. A pick-up truck easily tows the Falcon 5000 on the highway or in the field.

When Falcon 5000 enters a new field, the drum is lowered into the operating position so the probe has the full weight of the 675-pound steel drum pushing down.

Once the GPS system is activated

and a red sample carousel is positioned to accept samples, the Falcon 5000 is ready to get to work.

With each revolution, the probe drops a soil core into the drum's hollow compartment. As the drum turns, the samples are mixed. The operator has already entered the desired number of cores into the computer, and when that number is reached, the drum automatically dumps the mixed core samples into a bag located in the red carousel.

Using the Falcon 5000's GPS labelling system, each bag then receives a bar code and a number to identify its exact location in the field.

Most of Baucom's customers opt for the seven-inch probe, but he also offers probes from four to 12 inches.

"When we do demos, I always try to find a nearby, hard packed gravel roadbed to show how the probe works," he said.

"It may not penetrate the full seven inches, but it always does an honest five inches. It'll go that deep into a roadbed where a 250 lb. man can't even get a probe down less than an inch. I do that just to show people how well this thing works.

"That stainless steel probe is very sharp and very strong. It's chamfered or tapered both internally and externally, so the ID (inside diameter) increases the further into the probe you go. It opens up in size from the tip to the exit, so there's no friction along the inside walls of the probe.

"As the probe comes around in a complete 360 degree rotation on the drum, it gradually rolls itself forward into the soil. The entire weight of the wheel is pushing down on the probe where it's vertical in the soil. That rolling motion makes it a lot easier for the probe to penetrate compared to a vertical machine where you're trying to push a probe straight down."

#### Anti-clogging

Sample release in extremely wet clay soil can be a problem with many probe designs.

Baucom said the inside taper, with the diameter increasing from the point to the exit, allows the sticky samples to drop freely into the mixing drum.

The probe body is machined from a solid piece of stainless steel. The inside is threaded so tips can be changed. A tip sells for US\$75.

The red carousel has slots for 12 containers, each with a geo-referenced sample. Loaded sample bags are placed on shelves in the compartment at the rear of the trailer.

It takes the operator about one minute to transfer the bags to the shelves. As a means of compressing sample time, some Falcon 5000 customers buy many carousels and move full carousels to the storage compartment.

"Every sample bag automatically gets a GPS location label with a bar code that pinpoints the spot where it was taken. The soil lab reads each bar code and places the results from that bag at the corresponding spot in my field," he said.

**Every sample bag automatically gets a GPS location label with a bar code that pinpoints the spot where it was taken**

ALLAN BAUCOM  
FALCON

"That information is fed back to field maps on my computers through the software we designed ourselves. Our software works fluidly with everybody else's operating software. It's universal. The only requirement is that it has to be a shape file.

"We made it this way because I'm a farmer. I abhor, I detest, I become aggravated when I have to buy additional software to operate a piece of equipment."

Baucom said he has sold about 100 Falcon 5000 units since they were introduced in 2015. They sell for \$60,850 with all possible options, he added.

"Our customers are mainly consultants and fertilizer dealers," he said.

"People ask us what size farm they need to justify buying a \$60,000 soil sampler. That depends on your soil, your crops and your yields. We have farmers under 10,000 acres who've bought a sampler. I think to economically justify it, you only need about 4,000 acres."

Baucom said off-farm custom work is more viable with a soil sampling machine than with other farm implements. Western Canadian winters create a significant time factor.

A tight seeding season and a tight harvest season typically dictate that an operator can't do much custom work with either his seeding rig or his combine.

However, the Falcon 5000 can cover a lot of custom acres traveling at the recommended speeds of eight to 12 m.p.h. picking up 40 samples per minute.

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## AGRONOMY

# Precision ag has plenty of room for error

Mistakes happen on data like they do in the field

## PRECISION HAPPENS



TERRY A. BRASE

Learning from your mistakes is an important part of education, especially in precision agriculture, so I thought it would be entertaining to hear about one of the more stupid precision farming mistakes I have made.

One of the fields at Kirkwood Community College, where I taught for 15 years, was known as the Beef field. I'm not sure why, but that's what it had always been called.

It was close to campus and therefore was easy for students to participate in field activities, such as soil sampling or yield mapping.

It was in a corn-soybean rotation with a variety of chemical and nutrient trials and demonstrations.

The best part of this field was that it had been in consistent use for many years, which meant more than five years of yield maps.

Too often the college would buy farmland for use in its farm and within three years the boundary would change as the college built a new horse arena or hotel or sell it to the local school district for a new middle school.

This meant that we did not have many fields with a consistent boundary for more than three years of yield data.

But the Beef field, with five years of yield data and good variability, made an excellent field for demonstrating analytical techniques. It had a distinctive rectangular shape that made it easier to recognize for students and supposedly by me, the instructor.

One fall after all the fields had been harvested, I was responsible for the initial yield data processing. This included exporting the yield map file from the combine display and processing it in the desktop software.

The software worked well and allowed me to process one field at a time. Most systems allow the field entry of a field name, operator and other pertinent information, but in this case the raw data did not have a field name associated with it, so it was up to me to identify the field.

When I got to one specific field, the characteristic rectangular shape told me automatically that it was the Beef field. I did a review of the yield data, deleted some outliers, checked the statistics and classified the data to a legend based on our local yield standards.

The problem occurred when I

added the Beef field yield layer to the farm map. It was on the wrong side of the road.

The Beef field is directly north of a main paved road, so not only was it easy to identify by its shape, but also by its location.

However, the newly processed field was directly south of the road, about 30 metres south of its "correct" location.

In these early days of GIS and mapping, there was something known as datum shift.

This occurred when the wrong datum was assigned to a data layer.

This sometimes expressed itself when a road incorrectly positioned itself running through a field or two field boundaries did not line up.

The most common datum shift was usually an error of about 30 metres.

Knowing that this was possible, I made the assumption that this was the problem. How else could the Beef field end up on the wrong side of the road?

### Wrong daturn?

My first task was to call software support to ask how this could have happened. In talking with the tech support, the gentleman assured me that it was not possible. The software automatically assigned a correct datum to all data layers.

His only response was, "maybe it's the wrong field." Well, that couldn't be, since I recognized the Beef field, and the field on the south side of the road was not even owned by the college.

I actually edited all yield points for the entire field so it fit where I thought it should be.

The field in question happened to be on my way home from work. I looked that night and noticed that the field to the south was about the same size and shape of Beef and it was a cornfield. The next day I mentioned the situation to the agronomy instructor.

"Oh, sorry," was his response.

He had forgot to mention that we had indeed harvested that field to the south.

The neighbouring farmer wanted a yield map so we helped out by harvesting his field.

After reprocessing the raw data, I left the yield where it was supposed to be on the south side of the road. I also found the raw data for the real Beef field and processed it to the north side of the road.

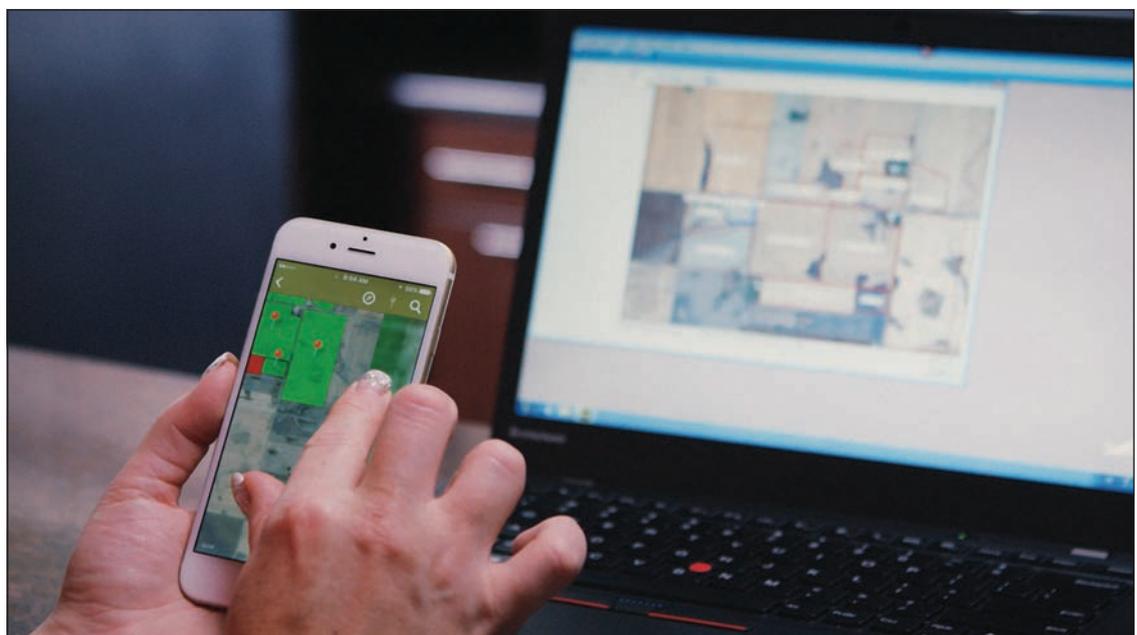
I always wondered about calling that tech support person up and explaining but never did. This was a case that precision happens... in spite of me.

Terry A. Brase is an agriculture consultant, precision agriculture educator and author. BRASE LLC. Contact him at precision.happens@producer.com



FILE PHOTO

Mistakes in agriculture come in many forms. In precision agriculture there are more opportunities to goof up, but often they aren't ones the neighbours will see.



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The Land O'Lakes Co-op is looking for innovative software tools that can tap the potential of drone technology by integrating it with precision agriculture.  
| FILE PHOTO



INNOVATION

# Drone Challenge: first prize nets US\$140,000

The best idea for extracting more work from a drone may put a roll of dough into your pocket

BY RON LYSENG  
WINNIPEG BUREAU

Have drone aerial images become useful tools yet, or are they still stuck in the realm of "pretty pictures?"

The best response to this challenge will net someone US\$140,000 cash.

Rapid evolution in drone technology has made high-resolution aerial field photos readily available to all farmers at a reasonable cost.

A whole new industry has emerged in the past five years, fostered by farmer demand for better programs to make better use of their drone images.

Surprisingly, we still hear the accusation that those aerial field images are still nothing more than pretty pictures. While the new ag-oriented programs seem to work magic in the hands of a professional, many farmers say that they have neither the training nor the time to optimize their drone investment.

*... there's a huge opportunity for innovators to bring world-class imagery, smart tech and scalable technology together in a groundbreaking solution for farms everywhere.*

LAND O'LAKES CO-OP  
MINNESOTA

It all comes down to having practical user-friendly fool-proof programs. If they're too complex or too time-consuming, the drone owner does not get the best bang for his buck.

The Land O' Lakes Co-op, a century-old Minnesota-based farmer-owned co-op with members in all 50 states, decided it was time to bridge the gap between producers and their drones.

Drone technology is one of the hottest topics in agriculture today, but available solutions have not yet evolved to the extent that they are cost effective tools, the co-op said. In response to this problem, Land O' Lakes' Drone Challenge contest is a serious one with a serious first place award.

The contest is looking for a new innovative app that helps growers turn their expensive flying toys into valuable farm implements.

The co-op is looking for more than a new version of an old program. Instead, it is looking for a genuine breakthrough.

Members of the Drone Challenge team feel these machines have tremendous untapped potential to push the cutting edge of precision agriculture much deeper into the problems facing farmers. They think farmers themselves are the people to steer that cutting edge.

"A truly exceptional integration of aerial drone imagery and automation still doesn't exist," the co-op said.

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\* All horizontal accuracy specifications are based on in-field performance 95% of the time. Receiver convergence time varies based on GNSS constellation health, level of multipath, and proximity to obstructions such as large trees and buildings.



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“As a result, there’s a huge opportunity for innovators to bring world-class imagery, smart tech and scalable technology together in a ground-breaking solution for farms everywhere.”

Organizers of the challenge point out that agriculture has a tradition of adapting to changing conditions and using the latest innovations. Farmers deal with pressures such as demand for sustainability, maximizing yields, maintaining margins and managing water use. As these pressures increase, more of their decisions are driven by hard data rather than seat-of-the-pants notions.

Farmers have always collected field data. The process was once as simple as walking through a field making mental observations. However, given the size of today’s farms, a producer can no longer rely on that simple method of data collection.

In the past two decades, precision agriculture has emerged through the marriage of satellites and precision machinery. Data from multi-spectral satellite images depict plant health and field productivity in small zones.

Land O’ Lakes has been recognized as a leader in the area of satellite-based management by bringing the WinField R7 Tool to farmers. Marrying this satellite data to variable rate machinery allowed its clients to design field management specific to the needs of their crops. The result has been better water efficiency, less fertilizer waste and higher yields.

However, drones can do things for farmers that no satellite can. They provide immediacy, repeatability, the ability to go back and fly a puzzling zone again the same day, higher resolution and the ability to create images on cloudy days. The next frontier in precision ag will be enabled with higher resolution data captured on demand.



**MIKE VANDE LOGT**  
WINFIELD UNITED

Mike Vande Logt of WinField United said farmers must get to the field, launch the drone, take the pictures, pack up, download the data, stitch the images together and then figure out what the images are telling them.

“It’s time consuming and the applications are difficult to use,” he said.

By issuing the Drone Challenge, Land O’ Lakes is seeking proposed solutions that enable scalable, autonomous drone use in precision agriculture. The prize will be awarded to an individual or team that develops a new drone technology into a valuable user-friendly tool for farmers.

The co-op said the new drone hardware and software it is looking for will solve critical issues for farmers. The prize-winning solution will limit the need for human involvement in the collection of high resolution field data, decrease the time needed to access crop imagery and improve the ability to make decisions based on field data.

The decision-making technology will help farmers better tailor their management to meet the specific needs of crops. It will lead to potential gains in water efficiency and crop yield while reducing fertilizer waste. Competitors will retain ownership of intellectual property contained in their proposal.

Competitors must submit written proposals along with videos, log files and other supporting information by Aug. 1.

Judges will determine three finalists, who be invited to demonstrate their solutions at a Federal Aviation Administration-approved test location. Performance at this event will be a main factor in determining the winner.

The second and third place winners will receive \$5,000 each.

For more information, visit [herox.com/loldrones](http://herox.com/loldrones).

[ron.lyseng@producer.com](mailto:ron.lyseng@producer.com)



The drone contest is looking for software to simplify the collection of field information, improve access to crop imagery and allow decisions to be based on field data. | FILE PHOTO



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# LIVESTOCK

## ANTIBIOTIC-FREE PRACTICES TAKE PRACTICE

Raising cattle without antibiotics or artificial hormones requires commitment and attention to detail. | **Page 66**



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### ANIMAL HEALTH

## Mycoplasma reappearing in bison herds

BY **BARB GLEN**  
LETHBRIDGE BUREAU

BIG SKY, Mont. — Mycoplasma may be rearing its ugly head again in bison herds.

The bacteria-like organism was responsible for a significant number of bison deaths during a 2010-12 study and now it may have mutated to attack animals in a different way.

Dr. Pat Burrage, a veterinarian with Bluffton Veterinary Services, told those at the International Bison Conference July 5 that mycoplasma seems to be affecting the upper airways of bison, rather than primarily the lungs as it has in the past.

However, it has appeared in a limited number of cases so far, in Burrage's experience, so its direction remains to be seen.

"We seem to have something come along that wants to sneak up on us and this mycoplasma is one of them. We have nothing to treat it," said Burrage.

In the previous study of bison deaths, losses were 20 to 30 percent when mycoplasma invaded a herd. In most cases, attacks to the lung were evident.

Five years later, "it appears that very little lung now is involved and now we're infecting these lymph nodes that surround that upper airway."

Burrage speculated that natural immunity is created in a herd after a major outbreak and it takes four or five years to create a new, naïve set of animals that might be susceptible.

Mycoplasma does not respond to antibiotics, and avoidance is the only strategy, Burrage said. That requires care when buying animals and introducing them to a herd.

"It's out there. We did get a little complacent because we hadn't seen it, but it is starting to come back, so in the feeding industry, there's a challenge for us. How do we minimize the risk? We know what it is. We know where it is.... We just don't know why. Risk is where we're at."

Dr. Murray Woodbury of the University of Saskatchewan's Western College of Veterinary Medicine has studied mycoplasma bovis in cattle and bison. In a published paper on the illness, he noted "there are large knowledge gaps in the subject of M. bovis infections in cattle and even less is known about this organism and its relationship to bison...."

"Research into suitable, bison-specific diagnostic and screening tests for bison is needed.... The bison industry needs evidence-based treatment and prevention strategies to deal with extremely expensive outbreaks showing high morbidity and high mortality rates.

"Mycoplasma infection could be the most important newly emerging disease the bison industry has ever had to deal with."

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### ANIMAL HEALTH

## Disease a major headache for Montana bison ranch

Without an effective vaccine, brucellosis continues to plague bison herd

BY **BARB GLEN**  
LETHBRIDGE BUREAU

BOZEMAN, Mont. — About 2,600 bison cows and bulls, with 1,800 calves at side, roam the 114,000 acres of the Flying D ranch, but even this vast area and relative isolation can't protect them from illness.

In fact, the wide-open spaces that make this ranch ideal for bison are also ideal for other wildlife, including an elk herd that harbours brucellosis and spreads it to bison.

Ted Turner, the largest bison owner in the world, bought the Flying D in 1989 and put it under a conservation easement in 1990. It comprises about 175 sq. miles of contiguous property in the southern part of Montana.

However, the bison herd has been quarantined by the U.S. Department of Agriculture since 2010, when some animals tested positive for brucellosis. Chronic infection in the elk herd that frequents the property means the bison herd will never be free of the contagious and untreatable disease.

"The only real solution is going to be a better vaccine," said ranch manager Danny Johnson.

"Until there's a better vaccine, there is no chance of us getting off of quarantine because we have to have three consecutive (negative) tests" of the entire bison herd.

Johnson said the Montana Fish and Game department estimates 27 percent of the elk herd in the region carries brucellosis.

Since the bison herd is tested only once a year, Johnson said the chances of finding no brucellosis cases in that many bison over three years are virtually nil.

"We were quarantined for brucellosis in 2010, and it's from migrating elk. We're never going to get away from that, so basically animals cannot leave here unless they're on a USDA sealed truck and trailer and going to slaughter, so we try to keep them here as long as we can."

For the Flying D, that has led to establishment of two Supplemental Nutrition for Animal Performance (SNAP) areas on the ranch. They are essentially feedlots, although Johnson said they're trying to avoid that term.

Each lot holds 499 head, keeping numbers below the level



Danny Johnson, manager of the Flying D Ranch near Bozeman, Montana, says they have established supplementary feeding areas to retain bison until the animals are ready for slaughter because the herd has been quarantined since 2010 after some animals tested positive for brucellosis. | **BARB GLEN PHOTO**

where commercial feedlot rules would apply. Each allows 800 sq. feet per animal.

"The main reason we've gone into it, and actually all the ranches are kind of heading this direction anyway, the longer we can keep (the bison) home, the more comfortable they're going to be," said Johnson.

The bison have free choice of grain and can choose from three different kinds of hay so they can follow natural instincts to balance nutritional needs and rumen health.

Animals enter the SNAP facilities at 18 months and are shipped at about 28 months after 180 days on feed.

Young bulls are fed through fall and winter and heifers in spring and summer.

"We're trying to grow things on this ranch, rather than importing feeds... wherever we can and try to feed them out," said Johnson.

"All the hay comes off the ranch right now and we're trying programs with oats and barley. And field peas, we tried that. Just things we can grow here on the ranch."

About 10 percent of heifers are kept each year as replacements, and the rest are fed out.

During the once-per-year processing, the entire herd is tested, tagged and sorted. It takes about five weeks.

Back in 2010, when brucellosis appeared during random blood test screening, the USDA demanded that the entire herd be tested. That required a second run through the chutes, and

Johnson said he thinks the stress left the herd open to an outbreak of mycoplasma. About 800 head were lost to that illness in 2010.

"The herd's healthy right now," said Johnson.

Turner owns three other ranches in Montana, six in Nebraska, three in New Mexico, two in South Dakota, one in Kansas and three in Argentina. He owns about 56,000 bison.

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Visit us online at [www.producer.com](http://www.producer.com) to see a video about this story.



A three-year study conducted by Manitoba Agriculture will examine whether cattle can be trained to eat leafy spurge, a noxious prairie weed. | ROBERT ARNASON PHOTO

## WEED CONTROL

## Train cattle to eat leafy spurge

Grazing may help control this weed better than other efforts

BY ROBERT ARNASON  
BRANDON BUREAU

The yellow-green flowers of leafy spurge were seemingly everywhere in late June on a pasture just north-east of Brandon.

The flowers swayed in the wind on a bright but very breezy morning as Jane Thornton spoke to about 75 people participating in a Manitoba Beef & Forage Initiatives (MBFI) field tour.

Leafy spurge was certainly the dominant weed in the area where Thornton was speaking, but it was less noticeable in other parts of the pasture.

Thornton, a Manitoba Agriculture pasture specialist, said there's a reason for that. Predator insects, which feed on the weed, curbed the number and size of leafy spurge plants.

"For years, bio-controls (like the leafy spurge beetle) were released ... but leafy spurge didn't disappear," said Thornton.

"Everybody sort of assumed that bio-controls weren't doing their job. But I think they are working. The density of the stands are less than what they would have been (without bio-controls)"

Thornton is studying leafy spurge control with the MBFI, a research organization that is a collaboration between Manitoba Beef Producers, Ducks Unlimited, the Manitoba Forage and Grassland Association and Manitoba Agriculture.

MBFI staff and Thornton want to know if insect predators and grazing livestock can actually keep leafy spurge in check.

The question is relevant because the weed frustrates ranchers across the province.

"Leafy spurge is probably the most difficult noxious weed to control in Manitoba," according to the Manitoba Agriculture website.

The researchers are employing the many little hammers model,

### WEEDS PART OF A HIGH-PROTEIN DIET

Many weeds have higher protein content than pasture grasses. Leafy spurge, Canada thistle and Russian thistle have 15 to 20 percent protein, compared to two to 11 percent for grasses.

Source: Livestock for Landscapes

often used in organic agriculture. In this case, they're hoping beneficial insects damage leafy spurge and that grazing cattle will also have an effect.

"Eventually you get enough percentages, adding up, that you have an impact on it," Thornton said.

Agriculture Canada scientists have studied such methods to control leafy spurge, but the MBFI team is hoping to quantify the benefits of bio-controls and grazing livestock.

Thornton and Mae Elsinger, an Agriculture Canada range management biologist, pointed out a few examples of natural predators, mostly beetles and larvae, feeding on leafy spurge.

Convincing insects to eat leafy spurge isn't a problem, but getting cattle to eat the weed is another matter.

Goats like leafy spurge and sheep will eat it, but cows are less willing.

"Cattle have, basically, a total aversion to it," Thornton said.

However, she is convinced they can be trained to eat leafy spurge, based on research from the United States.

Kathy Voth, a livestock grazing expert and author of *Cows Eat Weeds*, has demonstrated that cattle will eat undesirable plants.

Voth, who runs Livestock for Landscapes in Tucson, Arizona, has been teaching cattle to eat weeds such as Canada thistle, leafy spurge and knapweed since 2004.

"The steps I use are based on

decades of research about how animals learn and how they choose what to eat," Voth said in a Livestock for Landscapes document.

"I've learned what it takes to adapt the process so that anyone, anywhere can use it.... It's now possible to teach a cow to eat a new weed in as little as eight to 10 hours spread over seven days."

Voth's one week method is straightforward:

- She feeds cattle morning and afternoon for four days. At each feeding they receive a different bag of feed, perhaps things such as oats, barley and soybean meal.
- On day five the cattle are fed in the afternoon. They are given a weed to eat, mixed with half a bag of feed that they ate in the first four days.
- On day six they receive the same weed mixed with a quarter bag of feed.
- On day seven they receive only the weed.

Thornton tried Voth's strategy last year at the MBFI pasture and it was successful.

"Training cattle to eat leafy spurge is very cost effective," she said. "It's not an onerous training program."

Thornton is now hoping to build on Voth's research by determining if cattle will continue to eat it and if certain cows like leafy spurge more than others.

"I'm thinking within the population of cattle, there might be some that can metabolize it," she said. "I want to go on and identify those cattle and ... breed their offspring and see if they carry that trait.... Maybe we could build herds that are better at it."

Thornton's study will run for at least three years, but she hopes it goes longer.

For more information, visit [www.mbfi.ca/index.php](http://www.mbfi.ca/index.php).

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## SHEEP

## National sheep database holds potential if more records used

BY BARBARA DUCKWORTH  
CALGARY BUREAU

RED DEER — The Canadian sheep industry is building a record-of-performance program that needs more participants.

GenOvis Canada, a national sheep database that records breeding records, weight gains and other valuable economic traits, allows producers to compare their own flocks with others.

However, more information is needed to produce meaningful results with estimated progeny differences, said Stacey Wright, head of the Canadian Sheep Breeders Association.

"We need more producers enrolled, and the more producers enrolled and the more data goes into the system, the more accurate the information," said Wright.

The database is housed at the Centre for Genetic Improvement and Livestock at the University of Guelph. Weekly results are available.

"Most breeders who have used it would not be able to manage without it," he said in an interview at the All Canada Sheep Classic held in Red Deer June 29-July 1.

However, with fewer than a million animals in the national flock, it takes time to build up information for animal improvement. Genomically enhanced expected progeny differences (EPD) are a long way off, said Amelie St-Pierre of GenOvis.

"We would like in the future to offer DNA tests," she said.

"In Canada we are not there yet, but we are talking about it."

The database is compatible with electronic flock inventory programs already in use.

It records the individual animal identification, sex, sire, ewe, date of



Ultrasound technician Raymond Deshaies shows how muscle and fat depth are measured on a lamb. Information is stored in the GenOvis national database. | BARBARA DUCKWORTH PHOTO

birth and breeding records.

Ultrasound on muscle and fat depth can be included as well as weights at 50 and 100 days of age. The early weight helps demonstrate the mother's milk production and 100-day weights are taken after weaning to show the potential of the lamb to grow.

GenOvis measures 15 traits, such as weight gain, muscle depth, fat cover, lambing interval and age at lambing.

It can then use that information to generate EPDs, which are an estimation of the genetic value that an animal may pass on to its offspring.

Genetic indexes are also available to select for several traits at once to provide an average rate of genetic progress.

The program started 17 years ago in Quebec and Ontario, where producers were looking for consistent information on performance and ways to predict future potential of rams and ewes. It is expanding across Canada and costs \$232 plus tax to enroll.

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## NICHE MARKETING

# Cattle raised without antibiotics require increased management

BY BARBARA DUCKWORTH  
CALGARY BUREAU

Raising cattle without antibiotics or artificial hormones requires commitment and attention to detail.

"People make the biggest difference in managing cattle in this kind of system," said David Saretsky of the family-owned cattle marketing company Cantrix Livestock, based at Ponoka, Alta.

The company selects and raises cattle for beef programs that require that animals are not given antimicrobials or growth-promoting hormones.

As export and niche markets grow, these programs will become more important, he said at the recent beef cattle health conference sponsored by the University of Calgary's faculty of veterinary medicine.

Each link in the beef value chain has to be committed to the end goal and people must be trained to adopt the system.

The first link, the cow-calf level, is where the stage is set because calves need to be treated with a higher level of animal husbandry from birth until they are sent to a feedlot.

Vaccinations are emphasized in this system to help build immuni-

ty and the ability to fight off bugs that may attack and sicken the animals later in life.

Prewaning vaccination should be considered two to six weeks before weaning.

Low-stress weaning is encouraged and calves need to be exposed to a new diet, learn to eat from a feed bunk and drink from a watering bowl.

**By default we are losing efficiencies because we are not using those growth promotants so we need to get every little advantage we can.**

DAVID SARETSKY  
CANTRIX LIVESTOCK

"You are not teaching the calf how to eat but you are teaching the calf that when that feed wagon rolls by that good things are going to happen," he said.

If they are not eating or drinking, they are more likely to get sick.

Feedlots that raise cattle for these niche programs must ensure consistent quality. But not all lots are created equal so owners must be committed, and employees

and owners must understand the protocols, audits and end goals of the programs.

Veterinarians, nutritionists and consultants also need to understand the process and challenges to find solutions if animals get sick.

Products like Draxxin are not allowed.

"Draxxin is such an incredible technology and it changes the way feedlots are managed today," Saretsky said.

Without Draxxin, feedlots must work to reduce stress because it can cause sickness.

Animals arriving at the feedlot undergo minor stress during processing, vaccination, movement, feed change and exposure to new cattle.

Major stresses are things like living in muddy pens, transportation and weaning.

"Major stresses will result in treatment. Minor stress will result in a loss of efficiency," he said.

Growth promoting implants and beta agonists are not allowed in these programs.

"By default we are losing efficiencies because we are not using those growth promotants so we need to get every little advantage we can," Saretsky said.

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## ANTIBIOTIC RESTRICTIONS

# Europe a leader in reducing antibiotic use

Mass administration of antimicrobials can only be given in exceptional situations

BY BARBARA DUCKWORTH  
CALGARY BUREAU

Restrictions on the use of antibiotics in veterinary medicine in Europe have been in place since 2015 so farmers must find other ways to treat serious problems like bovine respiratory disease.

Antimicrobials classified as critically important in human medicine are almost unavailable for food producing animals.

They may be used only as a relapse treatment prescribed by a veterinarian after clinical examination and after an antimicrobials susceptibility test.

Mass administration of antimicrobials should be limited to exceptional situations and only after veterinarian examinations.



SEBASTIEN ASSIÉ  
NANTES ATLANTIC  
COLLEGE OF VETERINARY MEDICINE

"Exceptional situations are not clearly defined," said Sebastien Assié of the Nantes Atlantic College of Veterinary Medicine in France. He spoke at the recent University of Calgary beef health conference.

Governments in Europe have established these measures. Producers and veterinarians have no say in the policies, he said.

So far this newest restriction on the use of critically important drugs is not a problem for the control of BRD in French beef cattle but it would be useful to be able to treat a group rather than individuals.

"In my opinion, restrictions on the use of mass medication is a critical issue for the control of BRD in beef cattle," he said.

Before restrictions, probably 70 percent received treatments when they arrived at feedlots, he said.

The aim was to prevent sickness and death as well as improve the animals' performance.

"One of the advantages of mass medication is you don't need to accurately detect all cases of BRD."

Non-critically important antimicrobials are prescribed most often for food-producing animals in Europe but BRD was considered a hot topic because of the restrictions.

"In bovine production, the proportion of critically important antimicrobials prescribed in (European Union) in 2014 was very, very high," he said.

The EU is a major beef producer with feedlots in Italy and Spain where young bulls are confined for

fattening from six to eight months of age and finished at around 16 to 20 months. Antibiotic use is restricted and no growth-hormone implants or beta agonists are allowed.

They live in open or closed barns and are sorted into eight to 20 bulls per pen. A very big operation would finish about 500 bulls per year.

Most are purebreds and receive 70 percent corn silage and 30 percent concentrate.

They are susceptible to respiratory disease because of risk factors like transportation and commingling with strange animals.

"The intensity of these risk factors like transportation are very low in our system when compared with your system. However, BRD in our system is the first health disorder," he said.

One study showed before the restrictions on antimicrobials were imposed about 18 percent were treated for BRD. About 70 percent received treatment upon arrival.

Now animals must be regularly monitored for illnesses. One method is to take rectal temperatures and treat them when sickness appears.

"This solution is very time consuming," Assié said.

"In field conditions, there is a lack of cheap and practical tools to monitor disease," he said.

Now producers need to find ways to improve animal husbandry to stay ahead of diseases.

Under the new protocol, annual veterinary visits are mandatory to identify risk factors and assess the prevalence of disease in the herd. Working with the farmer, a plan can be developed on preventive measures and treatments.

Producers are encouraged to offer preconditioned calves that have been vaccinated at the cow-calf level.

Vaccination efficacy on arrival at the feedlot is questionable, he said.

It is likely that new antimicrobials would be restricted to human medicine so alternatives to antimicrobials are needed. As well, further research is needed.

"We use less antimicrobials but we do not know the economic consequences. In my opinion, we will observe an increase in morbidity whatever efforts are made to find alternatives," Assié said.

There are no penalties in France for producers or veterinarians if antimicrobial consumption is too high. However, in Denmark the swine sector faces a system of penalties for producers and veterinarians for overuse.

More restrictions are coming and Assié suspects macrolides like Draxxin could be restricted so treatment plans for BRD could be more challenging.

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## RESEARCH

# Tailored biosecurity advice can make a difference

## ANIMAL HEALTH



JOHN CAMPBELL, DVM, DVSC

Beef cattle producers make decisions every day that can affect the risk of infectious disease entering their cattle operation.

Decisions on where and when to buy new stock or deciding whether to use a community pasture can have major impacts on the risk of infectious diseases such as bovine viral diarrhoea (BVD), infectious bovine rhinotracheitis (IBR), trichomoniasis, and tuberculosis.

Biosecurity can be described as all of the management practices that prevent the movement of disease-causing agents between and within livestock operations.

Biosecurity involves almost all aspects of farm management including environmental and manure management.

We can develop biosecurity plans for entire nations, regions or individual farms to help prevent the spread of infectious diseases.

A recent scientific study in the journal *Preventive Veterinary Medicine* evaluated the value of veterinarians providing tailored biosecurity advice and its effect on farmer behaviour and the presence of pathogens in beef herds in England and Wales.

Researchers from the Royal Veterinary College in the United Kingdom recruited 116 beef cow-calf herds from 10 different veterinary practices and followed these herds for three years.

The herds were randomized into two groups. About half the herds received tailored veterinary advice regarding biosecurity on their farm while the other herds acted as the control group and producers received only generic



Good biosecurity reduces the risk of bovine diseases. | FILE PHOTO

advice from their veterinarians.

A scoring system was developed to evaluate and score the biosecurity practices on each herd.

Veterinarians were able to use this tool in the targeted advice herds to evaluate management practices and to identify factors that could be targeted for change.

Vets visited all farms annually to complete the risk assessment questionnaire allowing them to have a total of four risk assessments per herd.

In addition, blood samples were collected from about 50 animals per farm and were evaluated for the presence of BVD virus antibodies, IBR virus antibodies, Leptospirosis antibodies and bovine tuberculosis antibodies.

The participating veterinarians worked with the intervention herds to develop a biosecurity strategy for the year and used the scoring system to estimate the potential effects of that strategy.

Control farms had the scoring system applied, but received only general feedback and advice instead of a tailored biosecurity program.

As you can imagine, this is a very difficult study to carry out as it involves working with a large number of farms and veterinarians over a prolonged period of time.

At the end of the study, animals on the intervention herds (those that received specific veterinary biosecurity advice) had a significantly lower rate of serologically

positive animals to infectious diseases such as BVD virus and *Leptospira hardjo*.

## Improved scores

When using the scoring system for risk assessment, all herds had significantly reduced scores over the three years of the study demonstrating that biosecurity practices had markedly improved on all herds.

This may be due to the fact that all farms, regardless of intervention status, had more emphasis placed on biosecurity in their interactions with their veterinarians.

This is the first scientific study that has provided some evidence that tailored biosecurity advice packages have the potential to reduce the prevalence of infectious disease. It demonstrates that a biosecurity risk assessment scoring tool can be used by producers and veterinarians to develop a more effective program.

The Canadian Food Inspection Agency, in collaboration with producer organizations, provincial and territorial governments and academia, has established national biosecurity standards for most of the livestock industries found within Canada.

Both the beef cattle and dairy cattle industries have documents describing how to implement biosecurity practices on your farm and what areas to focus on.

The biosecurity standards are there to help producers create biosecurity plans that will be specific to their farm. Farm workers, family members, service providers and anyone who conducts business with or visits your farm should be made aware of the importance of biosecurity.

Some of the major management areas that the cattle biosecurity standards focus on include:

- animal health management
- animal additions and movement
- premises management and sanitation (a focus of the dairy document)
- management of the movement of people, vehicles, equipment and tools
- education, planning and record keeping.

The documents are worth reading for all cattle producers. They can be found online on the CFIA website.

Working with a veterinarian to adapt these standards to your particular herd may even provide greater benefits.

We rely on biosecurity to protect our animals and our livelihood.

It is always difficult to ascertain the benefits of biosecurity when there are no major outbreaks.

However, good biosecurity will usually result in less disease and healthier, more productive livestock.

John Campbell is head of Large Animal Clinical Sciences at the University of Saskatchewan's Western College of Veterinary Medicine.

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Stantec Consulting Services Inc.  
Saskatoon, SK

Nicole is an environmental consultant and performs field work related to vegetation and wetlands such as rare plant surveys, wetland surveys, and range land health assessments.

"Being registered as an agrologist (AAg) provides a community of professionals to reach out to, and the recognition of my qualifications, which gives me the ability to sign off on projects."

Nicole grew up in Saskatoon, SK. She received a BSc in Biology and an MSc in Biology focusing on Northern Plant Ecology from the University of Saskatchewan. Nicole previously worked as a sessional lecturer and departmental assistant at the U of S in the Biology department and continues to teach occasionally. She joined Stantec Consulting Services Inc. in 2013.



**Kristin Sedgwick, PAg**  
Loans Analyst  
Farm Credit Canada  
Yorkton, SK

Kristin provides support to the Yorkton District lending staff by processing credit applications from primary producers. These requests can include land, livestock, infrastructure and equipment.

"The professional agrologist (PAg) designation instills confidence in the public that the work is performed by a qualified professional, who can access knowledge from a large network of individuals with varying expertise."

Kristin grew up in Saskatoon, SK but is connected to the farm through her extended family. She received a BSA in Agriculture from the University of Saskatchewan. Kristin previously worked for Syngenta before joining Farm Credit Canada in 2008.

[www.sia.sk.ca/find-a-member](http://www.sia.sk.ca/find-a-member)

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## ANIMAL WELFARE

## Cattle ad pulled after complaints

Airport heard complaints that poster implies cattle can be mistreated

BY MARY BAXTER  
FREELANCE WRITER

A Toronto airport is sending a new advertising campaign out to pasture after receiving pressure from animal activists.

Jen Brailsford, spokesperson for Ports Toronto and owner and operator of Billy Bishop Airport on Toronto Island, said the airport removed a poster from its passenger lounge after receiving 25 telephone complaints in five hours, as well as emails and messages over social media.

At issue was the poster's slogan: "You're precious cargo, not cattle." Toronto resident Len Goldberg spearheaded the protest on his Facebook page.

He called the slogan insulting to cows and contacted Ports Toronto

asking it to remove the ad. He also encouraged others to express their views to airport officials.

He said in a Facebook message that the airport's decision to remove the poster "advocates the truth that animals are not commodities; they are sentient beings who want to be free and alive."

The campaign had been running for about a week and was developed by the passenger terminal's owners, Nieupert Aviation Infrastructure Partners. It was intended to explain the purpose of construction activity at the terminal and promote the eventual advantages of the upgrades to the building and passenger lounges.

"Once we were alerted to the concerns we immediately removed the poster in question and have cancelled that particular message from

the campaign moving forward," Brailsford said by email.

The slogan had appeared on only one poster in the airport's passenger lounge.

Crystal Mackay, a spokesperson for the Canadian Centre for Food Integrity, said the airport's decision to remove the poster is not precedent setting. The centre fosters positive relationships between the farm sector and consumers.

Ads are sometimes pulled when someone feels offended, she said.

"That happens all the time on many (different) topics."

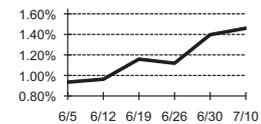
Mackay said different people often perceive situations differently.

"And what may seem perfectly fine or funny" to a farmer "may be considered offensive or off-side" by others, she said.

## AG FINANCE

CDN. BOND RATE:

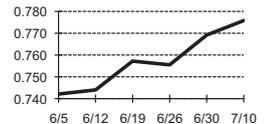
1.460%



Bank of Canada 5-yr rate

CDN. DOLLAR:

\$0.7758



July 10

AGFINANCE EDITOR: D'ARCE MCMILLAN | Ph: 306-665-3519 F: 306-934-2401 | E-MAIL: DARCE.MCMILLAN@PRODUCER.COM | TWITTER: @DARCEMCMILLAN

BIOENERGY

# Shell plans to take biofuel technology to next level

Energy giant buys innovative Alberta biofuel start-up company

BY SEAN PRATT  
SASKATOON NEWSROOM

A major oil company could soon become a big player in Canada's biofuel sector.

Royal Dutch Shell has acquired exclusive development and licensing rights for SBI BioEnergy's biofuel technology.

SBI is an Edmonton company that has developed a novel approach for creating biofuel out of plant oil and animal fat.

The company uses a catalytic process that requires no water or consumable chemicals to make biodiesel.

"It uses a catalyst that doesn't get consumed at all and can be used almost forever," said SBI founding president Inder Singh.

"That makes it really cheap and clean."

The next step is to use another proprietary catalyst to convert the biodiesel into renewable diesel, jet fuel and gasoline that is identical to petroleum fuel.

That process does not require hydrogen, which lowers the capital and operating costs of making renewable diesel, increases manufacturing safety and reduces the carbon footprint.

The patented process produces a drop-in renewable fuel that is identical to petroleum fuel, so there are no blending limitations. SBI says its fuels do not require modifications to engines, storage facilities or distribution infrastructure.



ANDREW MURFIN  
SHELL

"SBI has a promising new Canadian biofuels technology," Andrew Murfin, general manager of advanced biofuels for Shell, said in a news release.

"This is a great opportunity for us to combine Shell's innovation and commercialization capabilities with SBI's technical expertise to investigate the potential this technology has for commercial application."

SBI is in the midst of building a \$20 million, 10 million litre demonstration refinery in Edmonton.

The original plan was to follow that up by building a full-scale commercial plant capable of producing 240 million litres of biofuel by 2018.

Commercialization of the product is now in hands of Shell.

"I think their first facility will be much larger than that," said Singh.

He said companies such as Shell typically build refineries capable of producing 400 million litres of fuel annually.

The agreement with Shell includes a clause that its first refinery using the new technology will be built in Alberta.

"We thought we need to give back to the community where we live and we work and create jobs," said Singh.

Shell did not respond to an interview request for this story.

Amit Kumar, a mechanical engineering professor at the University of Alberta, said SBI is on the leading edge of the renewable fuel industry.

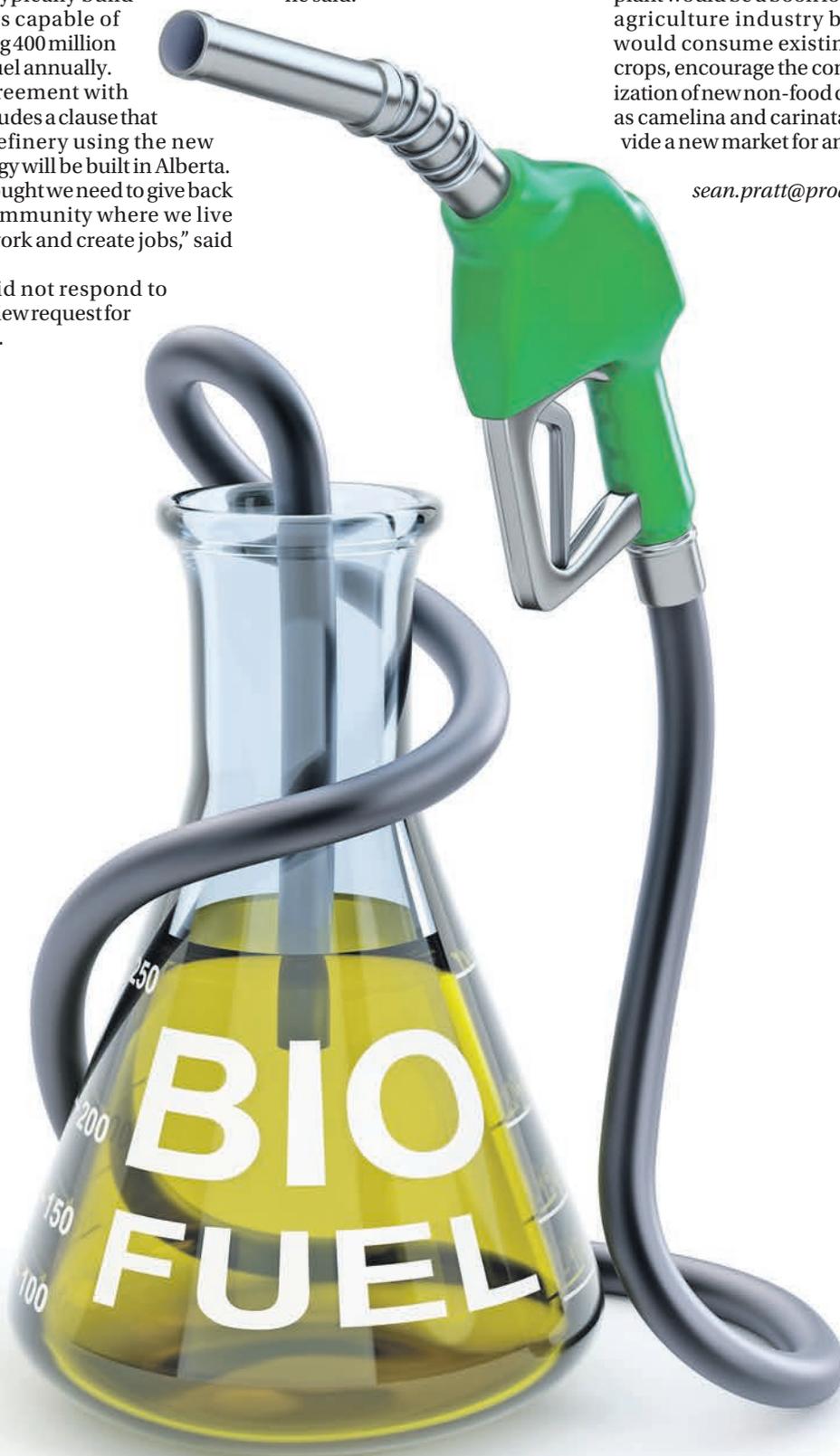
"This seems to be a more upcoming new technology and new way of producing renewable diesel that has the potential of reducing costs," he said.

"That might be the main driver for Shell to adopt this one."

He believes Shell will help SBI complete the demonstration facility, operate it for a couple of years to gather data and then build a commercial-scale facility if it is happy with the results.

Kumar said a commercial-scale plant would be a boon for Alberta's agriculture industry because it would consume existing oilseed crops, encourage the commercialization of new non-food crops such as camelina and carinata and provide a new market for animal fat.

sean.pratt@producer.com



## AG STOCKS JULY 3 - 7

Rising OPEC and U.S. production forced oil prices lower. U.S. job creation topped expectations. For the week the TSX composite fell one percent, the Dow rose 0.3 percent, the S&P 500 climbed 0.1 percent and the Nasdaq rose 0.2 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

### GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	41.24	41.38
AGT Food	TSX	23.45	23.28
Bunge Ltd.	NY	76.84	74.60

### PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.88	0.94
Cervus Equip.	TSX	11.25	11.07
Input Capital	TSXV	1.97	2.00
Rocky Mtn D'ship	TSX	9.86	9.95

### FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	33.42	35.76
Hormel Foods	NY	33.20	34.11
Lamb Weston	NY	43.10	44.04
Maple Leaf	TSX	32.78	32.74
Premium Brands	TSX	93.75	93.04
Tyson Foods	NY	60.22	62.63

### FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	56.79	57.72
AGCO Corp.	NY	68.38	67.39
Buhler Ind.	TSX	4.23	4.23
Caterpillar Inc.	NY	106.92	107.46
CNH Industrial	NY	11.62	11.38
Deere and Co.	NY	126.64	123.59

### FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	117.02	117.53
BASF	OTC	92.85	93.29
Bayer Ag	OTC	125.65	129.87
Dow Chemical	NY	63.89	63.07
Dupont	NY	82.03	80.71
BioSynt Inc.	TSXV	8.51	8.22
Monsanto	NY	118.00	118.36
Mosaic	NY	22.60	22.83
PotashCorp	TSX	21.04	21.15
Syngenta	ADR	92.50	92.68

### TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	105.95	105.22
CPR	TSX	209.46	208.65

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.

## Loonie hits 10 month high

(Reuters) — The Canadian dollar rallied well above US77 cents last week on strong job growth and expectations of a Bank of Canada interest rate increase this week. It would be the first increase since 2010.

The economy added 45,300 jobs last month, Statistics Canada said, topping forecasts for a gain of 10,000. The unemployment rate dipped to 6.5 percent, its lowest since April, even as more people were looking for work.

There was no sign of wage pressure, with average hourly earnings up one percent from a year earlier, matching May's pace.

## FINANCIAL MANAGEMENT

# Investment decisions must be based on data, not hope

## PERSPECTIVES ON MANAGEMENT



TERRY BETKER

We go to trade shows across Western Canada throughout the year, and most recently attended Canada's Farm Progress Show in Regina.

We typically have a booth at the shows and look to talk to farmers and farm families about the opportunities, successes and challenges they experience in managing their businesses.

It can be tricky to get farmers to stop and talk. There's a lot to take in at the shows and not that much time. In fact, a general comment we hear is that farmers don't have enough time to get to all the exhibits and presentations that they would like to visit.

As well, every other exhibitor is trying to do the same thing — get some of their time.

So, what to do? Well, we have a draw for a prize, as do many, if not the majority, of exhibitors.

We use the draw as a way to get them to stop at our booth for a few minutes while they fill out an entry. It lets us engage them in a discussion as a first step in getting to know them.

The entry includes information that we can use to contact them after the show. We ask them to check any one of four management challenges that have caused them stress during the current year.

It's completely optional. Many read through the challenges and decide not to check any of the boxes, which is fine.

However, there are quite a few who do.

One of the management challenges listed is, "not knowing how well my farm is doing financially."

I've talked to farmers about financial management for many years. As well, I lecture on the topic at the University of Manitoba's agriculture department and deliver workshops whenever I'm given the opportunity.

I have observed over the years that many things have changed when it comes to financial management.

Land and equipment values are way higher, and with that, many farms are carrying significantly more debt.

Some things reflect less change, such as profit margins. They can still be very small or non-existent at times.

As well, a lot of farmers still don't know how well their farms are performing financially.

Given the large capital investment required, and especially where a farm has considerable debt, not knowing how well the farm is doing financially must be really unsettling at times.

Too many farmers make decisions about financial investment and take on additional debt on the hope that things will work out over time. They often do, but there's the chance that they won't. "Hope" is

not a good foundation for strategy. Decisions should be made knowing where things are at financially.

Financial management can be a very broad topic. I'm going to focus my comments here on balance sheets and net worth statements.

Both include assets and liabilities, and the difference between them on a balance sheet is referred to as retained earnings. For net worth statements, the difference is known as equity.

Assets are what you own; liabilities are what you owe. Equity (or retained earnings) is what's yours. Assets on a balance sheet are recorded at original cost. On a net worth statement, they're recorded at fair market value.

Both are a snapshot in time. They represent a farm's financial position at the date of completion, which is typically once a year but could be quarterly, monthly or for that matter, every day.

The year-over-year change —

### Don't consider an increase in the value of assets as a measurement of earnings

increase or decrease — in retained earnings (balance sheet) is primarily a function of earnings for the year. This is earned financial progress.

Year-over-year change in equity (net worth statement) is a function

of earnings and increases in the value of assets such as land and quota.

Farmers particularly need to know how much of their financial progress comes from earnings. This is extremely important.

The only sustainable source of cash is profit.

This is only one very small part of financial management. If you don't know how your farm is doing financially, find someone to help you. It will give you peace of mind.

It could reinforce that things are fine. And then again, it could identify a problem area that requires attention.

I often will talk to farmers who are quite capable of analyzing their farm's financial performance on their own but like to get a "second opinion."

Whatever your situation, you need to know. There's a saying that "cash is king." When it comes to financial management, it could be argued that "information is king."

Terry Betker is a farm management consultant based in Winnipeg. He can be reached at 204-782-8200 or [terry.betker@backswath.com](mailto:terry.betker@backswath.com).

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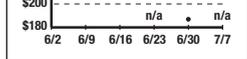
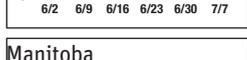
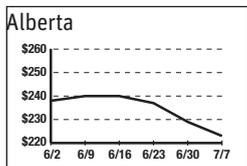
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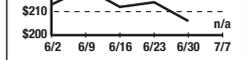
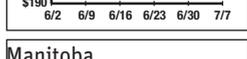
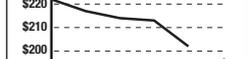
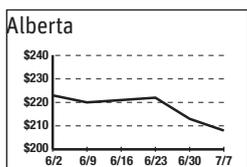
## TOUGH TO BEAT IN THE LONG RUN

# CATTLE & SHEEP

## Steers 600-700 lb. (average \$/cwt)



## Heifers 500-600 lb. (average \$/cwt)



## Canadian Beef Production

million lb. YTD	% change
Fed	949.0 +2
Non-fed	174.9 +12
Total beef	1,123.9 +4

Canfax

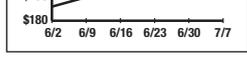
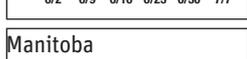
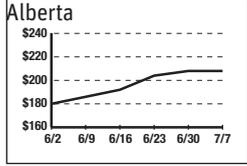
## EXCHANGE RATE

**JULY 10**  
 \$1 Cdn. = \$0.7758 U.S.  
 \$1 U.S. = \$1.3179 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
	June 30-July 7	June 23-June 29			June 30-July 7	June 23-June 29	
<b>Steers</b>							
Alta.	n/a	n/a	148.83	235.00-241.50	250.00-254.50		
Ont.	140.95-164.28	151.39-168.63	150.33	253.00-278.00	258.00-280.00		
<b>Heifers</b>							
Alta.	n/a	151.75	145.68	235.00-238.50	250.00		
Ont.	138.10-162.09	143.20-164.72	152.32	252.00-274.00	257.00-279.00		

\*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
<b>Steers</b>	no sales															
800-900					165-185											
700-800					181-195											
600-700					196-212											
500-600					211-236											
400-500					225-242											
<b>Heifers</b>	no sales	no sales	no sales	no sales	165-174											
800-900					170-192											
700-800					187-214											
600-700					197-221											
500-600					201-233											
400-500					225-266											
300-400																

Canfax

## Average Carcass Weight

	YTD 17				YTD 16			
	July 1/17	July 2/16	YTD 17	YTD 16	July 1/17	July 2/16	YTD 17	YTD 16
Canfax								
Steers	858	884	882	917				
Heifers	778	816	814	846				
Cows	742	765	739	775				
Bulls	1,030	1,010	1,055	1,021				

## U.S. Cash cattle (\$/cwt)

	Steers		Heifers	
	35-65% choice	65-75% choice	35-65% choice	65-75% choice
National	118.00	117.70	117.70	117.70
Kansas	117.64	117.55	117.55	117.55
Nebraska	117.56	n/a	n/a	n/a
Nebraska (dressed)	188.00	n/a	n/a	n/a

	Steers		Trend	
	800-900 lb	900-1000 lb	800-900 lb	900-1000 lb
South Dakota	138.50-154.50		-5	
Billings	n/a	n/a	n/a	n/a
Dodge City	146.00-149.00		+3/firm	

USDA

## Cattle / Beef Trade

	Exports		% from 2016	
	2017	2016	2017	2016
Sltr. cattle to U.S. (head)	244,544 (1)	244,544 (1)	-11.8	-11.8
Feeder C&C to U.S. (head)	77,586 (1)	77,586 (1)	-43.6	-43.6
Total beef to U.S. (tonnes)	104,175 (3)	104,175 (3)	-1.8	-1.8
Total beef, all nations (tonnes)	144,705 (3)	144,705 (3)	+4.7	+4.7

	Imports		% from 2016	
	2017	2016	2017	2016
Sltr. cattle from U.S. (head)	n/a (2)	n/a (2)	n/a	n/a
Feeder C&C from U.S. (head)	23,496 (2)	23,496 (2)	+164.0	+164.0
Total beef from U.S. (tonnes)	61,639 (4)	61,639 (4)	-0.8	-0.8
Total beef, all nations (tonnes)	89,623 (4)	89,623 (4)	-12.2	-12.2

(1) to June 24/17 (2) to May 31/17 (3) to May 31/17 (4) to July 1/17  
 Agriculture Canada

## Fixed contract \$/c/kg

(Hams Marketing)	Maple Leaf		Thunder Creek	
	Sig 5	Sig 7	Sig 5	Sig 7
Week ending				
Aug 05-Aug 12	184.61-184.85	183.52-186.13		
Aug 19-Aug 26	176.63-181.40	170.49-172.89		
Sep 02-Sep 09	165.68-169.51	158.11-161.98		
Sep 16-Sep 23	161.53-163.16	156.67-157.32		
Sep 30-Oct 07	160.89-161.12	158.94-160.54		
Oct 14-Oct 21	158.91-159.14	155.73-157.80		
Oct 28-Nov 4	151.43-158.10	149.48-151.85		
Nov 11-Nov 18	144.39-148.04	139.51-144.18		
Nov 25-Dec 02	137.58-139.98	136.82-137.17		
Dec 09-Dec 16	142.58-145.60	137.84-140.19		

## Hogs / Pork Trade

	Export		% from 2016		Import		% from 2016	
	2017	2016	2017	2016	2017	2016	2017	2016
Sltr. hogs to/fm U.S. (head)	428,114 (1)	428,114 (1)	-12.1	-12.1	n/a	n/a	n/a	n/a
Total pork to/fm U.S. (tonnes)	157,187 (2)	157,187 (2)	-8.1	-8.1	89,276 (3)	89,276 (3)	+7.0	+7.0
Total pork, all nations (tonnes)	545,480 (2)	545,480 (2)	+4.7	+4.7	100,285 (3)	100,285 (3)	+3.5	+3.5

(1) to June 24/17 (2) to May 31/17 (3) to July 1/17  
 Agriculture Canada

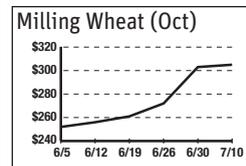
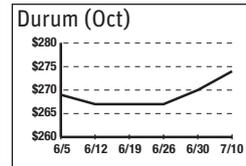
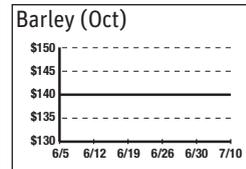
## Chicago Hogs Lean (\$/cwt)

	Close		Trend	Year ago		Close		Trend	Year ago
	July 7	June 30				July 7	June 30		
Jul	91.78	90.63	+1.15	80.05	Feb	68.88	68.88	0.00	65.85
Aug	83.23	83.75	-0.52	78.83	Apr	72.00	70.58	+1.42	70.65
Oct	70.98	70.45	+0.53	68.60	May	76.03	74.50	+1.53	74.88
Dec	65.35	63.48	+1.87	62.18	Jun	78.60	77.78	+0.82	78.73

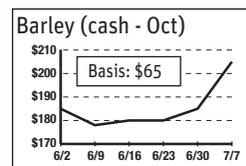
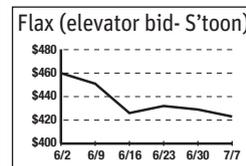
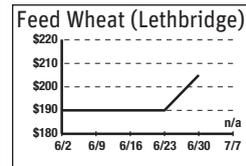
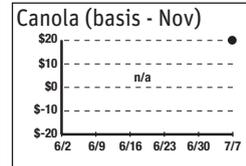
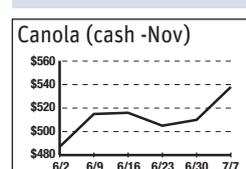
(000 tonnes)	July 2	June 25	YTD	Year Ago
Alta.	290.3	271.0	13,975.3	13,032.1
Sask.	424.8	370.7	21,199.1	19,439.4
Man.	144.2	136.7	7,197.3	6,743.3

# GRAINS

## ICE Futures Canada

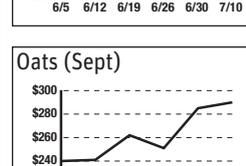
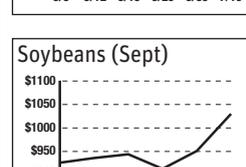
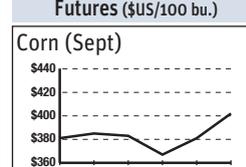


## Cash Prices

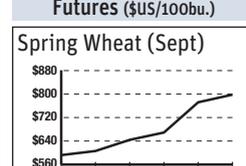


Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

## 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.

	July 7	June 30	June 9
Laird lentils, No. 1 (c/lb)	44.67	44.67	46.29
Laird lentils, No. 2 (c/lb)	36.67	36.67	40.00
Laird lentils, Xtra 3 (c/lb)	25.20	25.20	27.60
Richlea lentils, No. 1 (c/lb)	37.62	37.62	43.60
Eston lentils, No. 1 (c/lb)	37.36	37.36	39.94
Eston lentils, No. 2 (c/lb)	35.25	35.25	37.69
Eston lentils, Xtra 3 (c/lb)	25.00	25.00	29.50
Sm. Red lentils, No. 2 (c/lb)	21.92	21.53	25.16
Sm. Red lentils, Xtra 3 (c/lb)	17.86	18.50	19.50
Peas, green No. 1 (\$/bu)	8.31	8.31	8.31
Peas, medium, yellow No. 1 (\$/bu)	9.33	9.33	9.33
Peas, sm. yellow No. 2 (\$/bu)	8.32	8.32	7.48
Feed peas (\$/bu)	6.03	6.03	6.53
Maple peas (\$/bu)	15.17	15.17	15.17
Mustard, yellow, No. 1 (c/lb)	31.50	31.20	30.25
Mustard, Oriental, No. 1 (c/lb)	29.67	30.50	29.67
Mustard, Brown, No. 1 (c/lb)	36.55	36.55	35.33
Canaryseed (c/lb)	20.82	20.82	20.32
Desi chickpeas (c/lb)	35.67	35.67	35.67
Kabuli, 8mm, No. 1 (c/lb)	59.58	59.58	59.58
Kabuli, 7mm, No. 1 (c/lb)	39.58	39.58	39.58
B-90 cpeas, No. 1 (c/lb)	46.00	46.00	44.75

**A RARE CATCH** | A great blue heron catches a large tiger salamander in a pond west of Cayley, Alta. This nocturnal salamander is seldom spotted during the day. In the spring these amphibians travel to small ponds to breed, but most of the time live in burrows, under logs or other vegetative debris. | MIKE STURK PHOTO



# THE WESTERN PRODUCER

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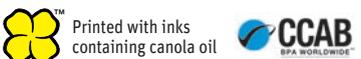
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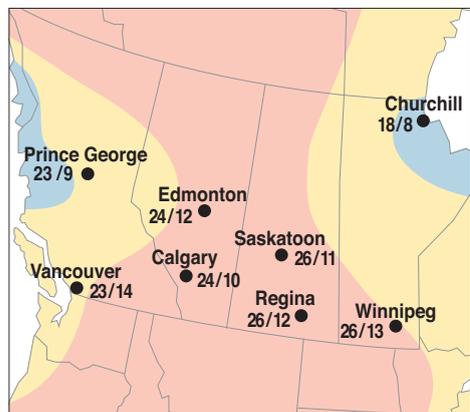
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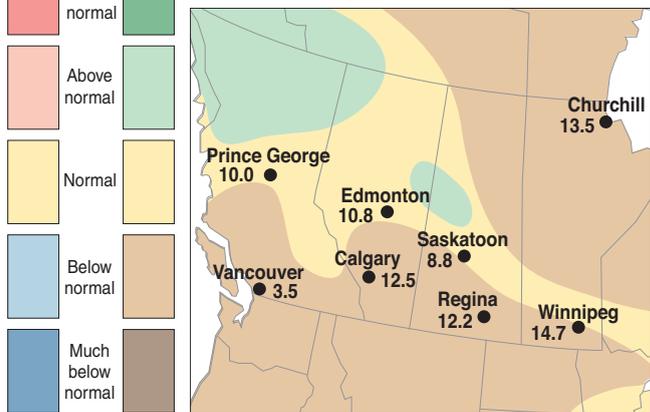
We acknowledge the financial support of the Government of Canada.



**TEMPERATURE FORECAST**  
 July 13 - 19 (in °C)



**PRECIPITATION FORECAST**  
 July 13 - 19 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

**LAST WEEK'S WEATHER SUMMARY JULY 9**

**SASKATCHEWAN**

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	36.6	8.2	0.0	82.7	49
Broadview	31.2	8.7	4.2	114.1	61
Coronach	38.2	8.2	0.1	67.3	38
Eastend	33.6	11.0	0.0	80.0	47
Estevan	33.5	10.6	0.0	93.3	51
Maple Creek	34.8	9.1	0.4	101.5	64
Meadow Lake	27.7	8.3	0.0	277.5	178
Melfort	28.1	9.6	0.0	132.9	86
Nipawin	26.8	7.9	9.0	208.8	127
North Battleford	31.2	7.2	0.1	107.7	73
Prince Albert	28.6	8.1	18.3	177.3	110
Regina	33.3	7.1	0.0	75.7	46
Rockglen	37.3	12.1	0.0	58.6	35
Saskatoon	31.9	8.7	0.3	103.7	68
Swift Current	35.5	10.8	0.0	68.4	42
Val Marie	38.5	6.8	0.8	58.1	39
Wynyard	27.8	9.7	2.0	94.0	58
Yorkton	29.2	10.4	11.0	105.9	57

**ALBERTA**

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	34.5	11.3	0.2	124.4	86
Calgary	32.7	8.5	0.0	136.5	70
Cold Lake	29.1	9.5	2.2	214.5	132
Coronation	31.2	7.5	5.0	143.6	95
Edmonton	28.3	3.6	1.2	165.0	88
Grande Prairie	29.2	4.3	5.6	191.1	124
High Level	28.2	9.7	7.7	115.0	96
Lethbridge	36.5	9.2	0.0	155.4	93
Lloydminster	27.6	8.4	0.0	218.2	136
Medicine Hat	36.2	12.0	1.6	142.9	100
Milk River	36.2	9.9	0.0	196.8	108
Peace River	29.6	5.6	9.6	155.1	107
Pincher Creek	33.5	9.3	0.0	219.0	99
Red Deer	29.4	5.9	6.8	174.6	85
Stavely	31.0	9.6	0.6	229.3	114
Vegreville	29.4	8.4	0.4	222.6	142

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	30.0	9.2	7.6	115.8	61
Dauphin	29.7	9.9	9.6	125.2	68
Gimli	28.0	9.8	1.5	113.2	58
Melita	31.4	11.2	0.0	100.2	55
Morden	30.8	12.4	0.0	96.3	46
Portage la Prairie	29.1	12.2	5.9	135.6	67
Swan River	28.9	9.1	6.0	112.2	59
Winnipeg	29.5	9.9	2.8	114.6	56

**BRITISH COLUMBIA**

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	36.3	10.8	0.0	100.7	67
Fort St. John	27.3	6.8	16.5	222.3	150
Kamloops	38.4	12.5	0.0	57.6	59
Kelowna	36.6	7.5	0.0	102.1	84
Prince George	32.2	1.7	14.5	200.9	123



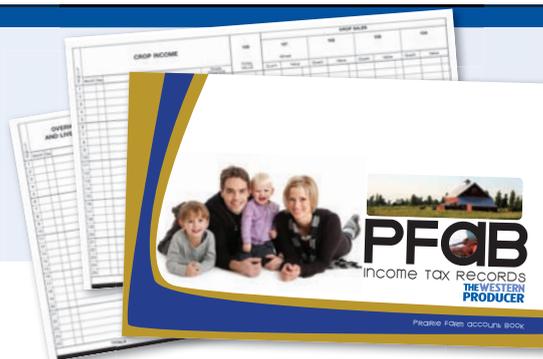
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