



TRUMP IS 'GOOD FOR AGRICULTURE,' SAY RANCHERS

Top U.S. cattle official praises president for his farm program » PG 3



'SUSTAINABLE' BEEF PROGRAM READY TO LAUNCH

Years of work could give Canadian beef an edge in the marketplace » PG 2

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EXPRESS

New technology poised to give barley a boost

Researchers aim to breed barley tailored to very specific needs

BY JENNIFER BLAIR
AF STAFF / LACOMBE

There's a bright future for boring old barley.

Aside from malt, barley doesn't generate a lot of excitement for Prairie grain growers — something you can see in acreage figures (which have fallen by more than a third in Alberta and by nearly half in Western Canada during the past decade).

But new technology is adding some pizzazz for both the feed and malt varieties.

Researchers at the Field Crop Development Centre in Lacombe

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Proposed tax changes could hit farmers hard

Ottawa's plan to make wealthy Canadians pay their fair share of taxes could cripple your retirement or succession plans

BY JENNIFER BLAIR
AF STAFF

Proposed changes to the federal income tax act could have far-reaching consequences for Canadian farmers.

"The proposals that came out in July are so wide reaching and so complicated that they could significantly impact all farms across Canada," said Allan Sawiak, a taxation partner at accounting firm Kingston Ross Pasnak in Edmonton.

"This will affect any tax planning for farmers on an annual basis all the way until their deaths. It will always have to be at the back of their minds now."

The federal government's proposed changes are to income-avoidance measures such as income splitting, paying dividends to family members, and lifetime capital gains deductions. The proposed moves sparked an outcry, particularly from physicians, but the changes should concern farmers, too, said Sawiak.

"My main concern is that they're going to go through with these changes no matter what and the farmers are going to be caught off guard, and it will be too late at that point in time," said Sawiak.

Farm business management expert Merle Good agrees.

"In my view, this is the biggest tax reform package since 1971," said Good. "These changes that they're bringing in are primarily going to restrict our



Federal Finance Minister Bill Morneau is proposing changes to "level the playing field" by changing income tax rules that allow some to avoid tax through "fancy accounting schemes." But Alberta farm business experts say they will have a big impact on farmers. PHOTO: REUTERS/CHRIS WATTIE

ability to convert farmers' wealth into retirement income and their flexibility in transferring the farm to the next generation.

"All producers should take a very careful look at these proposals and make sure that Revenue Canada realizes that its huge steps maybe have unintended consequences to the farm industry."

'Tax traps' feared

Under the new tax proposals, using a child's capital gains deductions will come with various restrictions, said Sawiak.

Children under the age of 18 who receive a capital gain will not be able to use their deduction on any property, and

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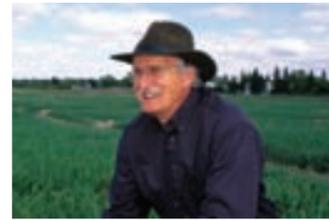
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Processors are also part sustainable beef plan

Along with animal welfare and food safety, indicators cover worker safety and community involvement

STAFF

Beef processors will also have their own set of 'indicators' for producing sustainable beef.

The Canadian Roundtable for Sustainable Beef has 19 indicators for processors, covering areas such as natural resource management; people and community; animal health and welfare; food security and efficiency; and innovation. Grades, scored out of three, will be given to specifics such as air impact and water use, land and ecosystem health, worker safety, community involvement, career development potential, animal housing conditions, efforts to minimize animal pain and stress, management of sick animals, food safety programming, waste reduction, energy efficiency, and efforts to improve further.

The facilities will also be audited. Audits may be based on existing management plans or emergency protocols; invoices to measure energy or water use; interviews with staff; unit measurements (such as the amount of carbon dioxide produced per head or water used per kilogram of beef); available first aid training and personal protective equipment; injury tracking, professional development opportunities; employee training; research investment; and technology among others.

On-site audits will be part of the process, and there will be followups to track improvement.

The roundtable also plans to compare its program with existing verification programs, said Monica Hadarits, the organization's programs and verification director.

"One of the pillars of work that we're doing as part of our verification framework is also looking at equivalency and developing a process for recognizing other programs because we realize that there are already a lot of programs out there, potentially, that address one or more of the indicators that we're looking at," she said.

The program does not consider secondary processors, largely because such facilities do not handle live cattle.

Economics, likewise, had no direct mention, but will be an underpinning theme of the entire framework, Hadarits said.

"They also have to be balanced with economic sustainability as well," she said.

The roundtable has already anticipated a number of challenges, including more cost and investment for processors and the risk that indicators may actually work at cross-purposes. Food safety, for example, may run up against efforts to lower water use while increased automation may bolster innovation, but cause job loss.

"One of the things that we found with testing our beef production indicators is there's a lot of overlap or crossover and we've actually found that they're more complementary than contradictory," Hadarits said.

Canada ready to make 'bold statement' with sustainable beef program

After years of effort and unprecedented industry collaboration, a national sustainable beef program is poised for rollout

BY ALEXIS KIENLEN
AF STAFF/CALGARY

The long process to create a Canadian 'sustainable beef' program is nearing the finish line.

"We will be launching in December a national framework — this is go time," said Cherie Copithorne-Barnes, a Calgary-area rancher and chair of the Canadian Roundtable for Sustainable Beef.

The effort to make Canada a world leader in producing cattle raised to the highest environmental, animal health and welfare, and food-safety standards goes back more than three years when fast-food giant McDonald's picked this country for its global sustainable beef pilot. After the pilot ended, the Canadian roundtable took on the job of refining the 'indicators' created for the fast-food giant's program.

The roundtable has now grown to 109 members from across the value chain, including government, non-governmental organizations, academics, processors (including Cargill and JBS), major grocery chains, and fast-food chains (including A&W, which attracted the ire of cattle producers for its 'raised without any added hormones or steroids' beef program).

"The roundtable has determined what sustainable beef is in Canada," said Copithorne-Barnes. "We've got the definition and we've set the standards. We've done it through a very collaborative effort, so hopefully we're not missing out on anything."

The group has established a new scientific advisory committee, which will launch special projects and kick into motion after the framework is launched. And a newly created communications and marketing committee will be working with roundtable members, which include heavy-hitters such as Loblaw's and the World Wildlife Fund, to promote their work to Canadians and the rest of the world.

"We will use media, social media, and any means possible to try and get this word out," said Copithorne-Barnes.

The organization doesn't have estimates on what it will cost to producers to comply with the indicators. But it



Iconic photos like this one have given Canadian beef a strong global image, and the almost completed sustainable beef program aims to back that up with hard data. PHOTO: CANADA BEEF

has long insisted that for most producers, it will be mostly about documenting what they are already doing rather than changing the way they raise cattle.

Unlike other certification schemes, the indicators are outcome based — which means producers are not required to use specific practices, said Tim Hartman of the World Wildlife Fund, who sits on the indicator committee.

Work on the indicators began nearly three years ago and even though they've gone through a public consultation, they are still being reviewed, he said.

"We're going to have a series of meetings and webinars that will happen between now and December, when we roll this thing out completely," said Hartman.

The verification committee has taken the indicators and built a framework around them, which will be realistic to producers and processors and not disrupt their business, said Emily Murray, one of the co-chairs of that committee.

"It has to be long term and cost effective," said Murray, who works for Cargill.

But the program will also be credible for consumers and give them reason to trust Canadian beef when it comes to environmental, welfare, and food-safety standards, she said.

Twenty-one different producers from across the country have tested the verification framework to see how it will work. These producers came from different provinces, and represented every size of operation from small to large.

"We have a nice mix of experiences and expectations," she said.

Three auditors tested the audit, the training manual, and the program developed for auditors. The majority of producers tested were able to identify areas of improvement, and said the participation in the trial was worth their time.

The supply chain, represented by Verified Beef Production Plus, the Beef InfoXchange System (BIXS) and Cargill, is also developing their own program to meet the standards set out by the roundtable.

"CRSB is building the standard, but the supply chain has to meet it. If the supply chain doesn't meet it, we can't put a logo on anything. We're really working to build that while this is going on, so that we be ready and make a bold statement for Canada as possible," said Murray.

The verification framework will get its launch at the Western Canada Conference on Soil Health and Grazing, which will be held in Edmonton on Dec. 5-7.

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Trump has been good for agriculture, says top U.S. cattle official

The National Cattlemen's Beef Association says the U.S. president is 'getting a lot of stuff done for agriculture'

BY ALEXIS KIENLEN
AF STAFF/CALGARY

When it comes to agriculture, President Donald Trump is doing a crack-jack job, says a senior official with the top U.S. cattle association. "If you listen to the media, it's nothing but conversations about Russia, South Korea and the overall general hatred for people who just don't like Donald Trump," said Colin Woodall, senior vice-president of government affairs with the National Cattlemen's Beef Association.

"What it's not telling you is that the president while all of the showmanship is going on with the tweets and with the bad reporting of the media, he's getting a lot of stuff done for agriculture."

Woodall, CEO Kendal Frazier, and several of the association's staff were among the 700 attendees at the Canadian Beef Industry Conference.

In a session on American-Canadian relations, Woodall said Trump has been good for the cattle business because he's surrounded himself with lots of good people who help him get things done. He praised several of Trump's appointments, such as the controversial choice of Scott Pruitt as the administrator for the Environmental Protection Agency — even though he sued the agency more than a dozen times while he was attorney general of Oklahoma.

"Mr. Pruitt came to us and said we no longer have to fear the EPA and that he wants to work with us," Woodall said. "That's something we haven't seen in the United States over several administrations, both Democrat and Republican."

The new secretary of the interior, Ryan Zinke, rode a horse to work on his first day, which shows his commitment to agriculture while Agriculture Secretary Sonny Purdue is a veterinarian, he said.

"He's also a businessman so he understands the role of all of us in agriculture, but he also understands where government should and, most importantly, should not be," he said.

Neil Gorsuch, the newest justice on the U.S. Supreme Court, has a track record of "judicial decisions that are there to protect our side of the equation against the Leonardo DiCaprios and some of the others who live in those blue (Democratic) states."

And when it comes to keeping the border open to trade in cattle and beef, Canada can count on his organization, he added.

"We have a strong commitment to the cross-border relationship that comes from our relationship with your diplomatic staff in Washington, D.C.," said Woodall.

He urged attendees to discount media coverage of Trump and U.S. agriculture, saying the media is under the influence of the "left coast" (Washington, Oregon and California) and "left-er coast" (New York, Maryland and New Jersey), which don't like either the president or conventional agriculture.

But he admitted this is an unusual period in American history.



"What it's not telling you is that the president, while all of the showmanship is going on with the tweets and with the bad reporting of the media, he's getting a lot of stuff done for agriculture."

COLIN WOODALL

"There's an ancient Chinese curse that says, 'may you live in interesting times,' and as I'm sure all of you have seen in the media, it's interesting times down south of the border right now," said Woodall.

But Trump's moves to ease the regulatory burden on cattle producers have been welcome, as have his efforts to rein in the Environmental Protection Agency.

"It was going to change the nature of ranching, change the nature of agriculture, change the nature of land use in our country in a way that nobody was really prepared to handle," he said.

He also said his organization is pushing for more trade deals and access.

"When it comes to the renegotiation of NAFTA and the talks that are going on as we speak in Washington, D.C., we want our government to do no harm to beef and cattle trade," said Woodall. "We think they're working and we think they work quite well — and we don't want the president and his team to mess them up."

His organization is also working hard to make sure that country-of-origin labelling (COOL) is not revived, he said.

"All of you sitting here know that COOL is a failed policy and a failed program that jeopardized the relationship that we talked about earlier."

He said he hopes the NAFTA negotiations will go smoothly and proceed quickly. He added his organization did not agree with the president's decision to pull out of the Trans-Pacific Partnership talks as it was a way to fix the problems with tariffs in Japan.

"That's one area where we have butted heads with the president, and that's on the issue of TPP," said Woodall.

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Farmers' markets allowed to offer local beer

Craft breweries and local distilleries excited by the chance to introduce their products to a wider range of Albertans

BY ALEXIS KIENLEN
AF STAFF

Shoppers at provincially approved farmers' markets can now crack open a brew or sip a bit of vodka.

"We're really excited with the news. It offers us the chance to expand our customer base and reach out to different sales channels," said Marty Shaw, general manager of Ribstone Creek Brewery in Edgerton.

The move puts craft beer makers and distilleries on the same footing as meaderies and wineries, which have been offering samples to customers at farmers' markets since 2008.

"It's really bringing the policy in line to allow other small manufacturers the same economic opportunity," said Michelle Hynes-Dawson, spokesperson for the Alberta Gaming and Liquor Commission.

"There's been a lot of changes that have been happening the last few years when it comes to craft beer."

Being able to offer samples at farmers' markets, where the focus is on locally grown and locally made products, will work well for Ribstone Creek since its beer is brewed in a town of about 400 people, said Shaw.

"I think it'll be a good fit for us to be showcased at those types of venues," he said.

Shaw and others at Ribstone Creek are hoping to be involved with tastings at local farmers' markets around Edgerton, an hour's drive southwest of Lloydminster. But the company also



Allowing beer tastings at farmers' markets is being welcomed by craft brewers such as Edgerton's Ribstone Creek Brewery, where head brewer Ryan Moncrieff creates unique beers from locally sourced ingredients. PHOTO: RIBSTONE CREEK BREWERY

wants get into farmers' markets around Edmonton, Calgary, and Red Deer to promote its brews, which are sold across the province and have won numerous awards including a gold medal at the 2017 Canadian Brewing Awards for its "session ale."

"We are always trying to bring out new exclusive beers that are available just in Edgerton in our tap room," said Shaw.

The provincial rule change came after a lot of discussion with stakeholders, said Hynes-Dawson.

Craft brewers tend to be small business owners, and farmers' markets offer a low-cost way to grow their customer base.

"It really provides another opportunity for small businesses to be able to get out, and turn new people on to their Alberta-made products," she said.

More than ever before, patrons of bars and restaurants are asking for Alberta-made liquor and craft beer, she added.

"The distillery industry is quite cool as well because for the first time, we're seeing a lot more different rums or vodkas or whiskeys and all sorts of things that are produced right here in Alberta."

Local craft brewers and distillers are also a boon to farmers because they highlight the quality of Alberta-grown grains.

The new change, which went into effect Aug. 15, allows each farmers' market to make its own decision whether or not to approve beer tastings, and which breweries will be allowed at their market.

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OPINION



Beware, the taxman may be paying your farm a visit

A crackdown on high-income individuals avoiding taxes looks like it could catch a lot of farmers in its net

BY GORD GILMOUR
MANITOBA CO-OPERATOR EDITOR

Canadian farmers could soon be swept up in a looming taxation crackdown. The federal Liberal government has promised to lower the boom on what it characterizes as the abuse of private corporations by high-income individuals to avoid taxation.

Doctors have been especially vocal in their condemnation of the move, saying they have forgone fee increases in negotiations with provincial governments in exchange for the right to incorporate and lower their tax burden.

Now they're decrying that what one level of government gave, another took away. With somewhere around two-thirds of Canadian doctors incorporated, it promises to fundamentally alter the economic reality of many doctors.

Lost in the busy summer season, however, has been the potential impact on farmers — about one-quarter of farms are incorporated. Edmonton-based accountant Allan Sawiak, of Kingston Ross Pasnak LLP, has been sounding the alarm in a recent letter to clients and farm groups.

In the document, Sawiak notes what he describes as "shocking" changes that will affect various strategies an increasing number of farms use to manage their tax burden.

There's "income sprinkling" which sees a corporation gain revenue, rather than an individual, and then splitting that income among family members in the form of salary or dividends, which serves to lower the overall tax bite.

The government says that in the future these payments will only be valid if family members are shown to have earned it

either through their labour or through capital investments in the corporation. In particular, they've said they'll be watching very closely payments made to children between the ages of 18 and 24.

So-called 'passive investments' are also under the gun, which refers to making investments in stocks and bonds through a business, rather than individually, and therefore paying a lower tax rate in the end.

The feds also say they'll be cracking down on the use of the lifetime capital gains exemption, which shelters more than \$835,000 of capital gains in qualifying small-business shares. Currently business people and their financial advisers are able to use the exemptions of many family members to protect capital gains from taxation. Once again, younger family members seem to be the target of the proposed changes.

Sawiak also notes that a proposed grace period for capital gains exemption may provide some relief, but will also create issues of its own, including boosting the amount of tax paid under the 'alternative minimum tax' system.

Perhaps most troubling for farmers is that the government appears to be proposing to crack down on the very concept of incorporating a small business like a farm. The federal government is proposing a crackdown on transactions that would prevent any transaction that creates income at a lower tax rate. Sawiak notes in his letter to clients that the proposals "... are broad enough that they could apply to common situations like selling farm assets to a corporation."

It's clear, according to financial professionals, that these changes aren't small potatoes. They're a fundamental alteration in the way that professionals and small business owners can use incorporation to manage their affairs.

Alan Acton, an Ontario-based financial adviser to doctors and finance columnist, recently noted the proposals fundamentally call into question whether there will be any benefit in the future to incorporation.

That would seem to dovetail nicely with the government's goal and may placate some who feel the wealthy are given tax advantages that most Canadians cannot access. But it's a simplistic analysis of the situation.

The truth is most of the people setting up a corporation are operating in a far different environment than most salaried and hourly employees.

They're taking more risk. They're funding more for themselves, such as retirement saving and other benefits like medical care. They therefore claim they need the structure of incorporation to do so.

Critics of the move warn of the risk of pushing out well-trained and mobile professionals and the chilling effect on entrepreneurship. They also note many of the affected may simply close up shop and move — something that's not an option for a farmer.

For farmers perhaps the greatest risk is that the proposed changes now throw a lot of doubt on succession plans set up under the old rules. Many of these will now need to be revisited and perhaps revised.

The changes are set for this fall and farmers need to understand them, respond to government, and make sure their financial houses are in order.

The government is currently seeking input up until an Oct. 2 deadline.

While the timing is terrible, this might be important enough to park the combine long enough to write a letter.

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Liberals should say supply management is not in danger

Dairy and poultry products are subsidized in some way or another the world over

BY ED FAST
MEMBER OF PARLIAMENT

With negotiations on a new North American Free Trade Agreement (NAFTA) presently underway, it is appropriate for Canadians to ask: Whither supply management?

Supply management ensures producers receive a reasonable return on their investment, and consumers have access to a steady supply of safe and healthy dairy, chicken, turkey and egg products at a reasonable price.

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

Admittedly, supply management is not necessarily synonymous with free trade. Yet most of Canada's international competitors who produce these products, including the U.S., European Union, Brazil, Australia and New Zealand, also protect their industries to one degree or another.

The U.S., for example, provides billions of dollars of subsidies to its dairy industry, providing an unfair advantage over other dairy-producing countries. The European Union recently reinstated price control mechanisms to counteract a dramatic decline in global dairy prices and Australia and New Zealand have bailed out farmers who risked going bankrupt due to declining world market prices.

The bottom line? There is presently no level playing field which ensures that everyone plays by the same rules and prevents protectionist policies from being used to provide some countries with an unfair trade advantage.

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

from doing so. And to be clear: Our supply management system fully complies with all of the current rules set out by the WTO.

U.S. President Donald Trump has recently referred to our system of supply management as a "disgrace," no doubt wishing to "soften up" our trade negotiators. And yet, there is absolutely no reason for Canada to put its supply management system in play during these negotiations. The U.S. has no intention of eliminating its subsidies to its own farmers, and simply wants to gain additional market access in an attempt to deal with its own problem of overproduction, to the detriment of Canadian farmers. Indeed, Canada is already the second-largest importer of American milk, importing five times the volume of dairy goods it exports to the United States. The massive size and clout of the American dairy and poultry industries is such that many Canadian farmers fear an Americanization of our farms and the products they supply.

Canada's supply-managed farmers have a right to be concerned about the future of their farms. Foreign Affairs Minister Chrystia

Freeland has studiously avoided saying supply management would not be on the negotiating table. The Liberal government also recently appointed former Conservative prime minister Brian Mulroney as an envoy to the Trump administration, primarily to promote Canada's interests in the renegotiation of NAFTA. He has not disguised his dislike of supply management and has mused that perhaps it's time to end the system. Similarly, other luminaries within the governing Liberal party, such as former deputy prime minister John Manley and Martha Hall Findlay, have advocated for the dismantling of supply management.

Despite Prime Minister Justin Trudeau's past lip service in support of supply management, he has yet to confirm that dismantlement of Canada's system of supply management will not under any circumstances be on the table for negotiation. I call upon him to now make that commitment to our farmers.

Ed Fast is a Conservative MP from B.C. and a former minister of international trade.

OPINION



Enterprising young farmers are the hope of a new Africa

The beleaguered continent has the potential to feed the world – if it can rise above the divisions created by its troubled past

BY **BRENDA SCHOEPP**
AF COLUMNIST

The concept of a united Africa feeding the world is often considered.

With a massive land base, Africa has an estimated 632 million hectares of arable land of which only 179 million hectares are currently being utilized. More than 40 per cent of these lands are in Nigeria, DR of Congo, and North and South Sudan, which are areas of conflict. Despite having this massive land base for producing food, life expectancy in Africa varies from 49 to 60 years.

Putting the countries together within the continent would make it the third-largest populated country with the fourth-largest economy while having the 11th-strongest purchasing power in the world. And it is not just the soil that brings it wealth; the continent is home to massive stores of gold, platinum, diamonds, and a host of other mineral resources.

To be a superpower it would take irrigation (only five per cent

of arable land is irrigated) and the erasing of the 166 borders (as well as the appreciation of the more than 3,000 languages officially and unofficially spoken on the continent). The cultural divisions could not and would not disappear overnight, but the economic benefit of its land, resources, and extensive ports could bring dramatic wealth in a short period of time.

From the perspective of political power in the World Trade Organization (WTO), the majority of the membership and minority of the power lies in developing and least developed countries. Unification of Africa literally erases the line between the Global North and the Global South and has opportunity to change the world economic order. In terms of trading agreements, one Africa could have the same clout as experienced by Canada, China, U.S., EU and Japan, which currently collectively make up 68 per cent of all trade through the WTO.

Pushing the agenda even further, a group of scholars is asking: Can Africa feed the world by 2050?

Despite population growth, Africa has the youngest working population on earth. They are well connected, educated, and innovative. I asked my Nuffield colleague Thato Moagi about her farm in Limpopo, South Africa. Thato is South Africa's first woman to be awarded a Nuffield Scholarship and is breaking the bamboo ceiling by managing her commercial farm of 59 hectares. She is looking at beef production systems globally, which is a smart move as much of the foreign buying interest in the continent of Africa is for beef.

Thato faces the same challenges as Canadian farmers, such as the shortage of labour, high input costs, and limited export markets. She often gets labourers from nearby Zimbabwe and is learning how to navigate commodity contracts. This is important as African countries are huge processors of coffee, tea, cocoa, sugar, fish, beef, biopesticides, maize, rice, nuts, fertilizer, and soybeans (to name a few).

I was curious about some of the issues we are tackling in

Canada today and how they were seen from her perspective as an indigenous South African.

"How do you feel about colonization?" I asked.

Her comments were twofold. First, she made it clear that "there was no hunger in Africa prior to colonization," and then added, "That is in the past." This shows the entrepreneurial spirit of the rural youth who are ready to take on the challenge of becoming the breadbasket of the world.

Smallholdings, co-operatives, private enterprises, and joint ownership all have their place in Africa. But knitting the threads together through the maze of culture and religion is not a simple task because of all the boundaries drawn up by Europeans in the 1800s to protect what they considered as their territory.

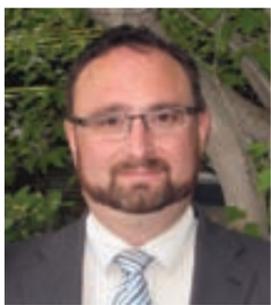
Perhaps it could be possible if the countries with controlling political and economic interests allow unification. But then again, why would they? Keeping Africa divided ensures their dependency and weak economies make for willing partners.

This is a deep-seated global political game and often a dangerous one. One wonders if Africa as a continent can make her own decisions to become Africa the nation. Who will be marginalized in the process?

But let us not get caught in the negative, and instead remember young women like Thato who are working at being a living example for other youth in her area. Her goal is to empower other Africans, and she as well as those others who look for economic prosperity should be supported and encouraged. Unification of Africa may very well come from the people of the soil with small social changes that add up to a social construct.

Whatever the future, as separate African nations or in the unification of Africa, this is a continent of hope and the potential to feed our world.

Brenda Schoepp works as an international mentor and motivational speaker. She can be contacted through her website www.brendaschoepp.com. All rights reserved. Brenda Schoepp 2017



Gene editing can benefit everyone – but we need consumer acceptance

This technology can spark a new green revolution and feed the planet, but we must avoid Frankenfood labelling

BY **CAM DAHL**
PRESIDENT OF CEREALS CANADA

It is hard to believe, but the genetic engineering technology that gave us herbicide-resistant canola, corn, and soybeans is yesterday's science.

The recombinant DNA techniques that gave us these new farming options have benefited agriculture — through increased yield, reduced input costs, and reduction of tillage and summer-fallow. The technology has also helped improve Canadian agriculture's sustainability picture by reducing fuel use, improving soil organic matter, and decreasing erosion.

But not everyone in society sees these benefits and the resistance to 'GMO' by some consumers in the marketplace continues.

So what about the next step in technology?

I am a complete science nerd, so I get excited when I read about new gene editing techniques like CRISPR-Cas9. But not everyone shares this excitement. Should we embrace the advances in genetic

science or stick to the older traditional methods of plant breeding? For me, the answer is an enthusiastic 'yes, but.'

First to the 'yes' part of the answer. Unlike rDNA methods, the new gene editing techniques do not introduce DNA from outside of the plant. A new wheat variety derived using the emerging technology will still be 100 per cent wheat DNA. Gene editing will rapidly speed the plant breeding process. It can take 10 to 15 years (or more) to breed a new variety using traditional plant breeding methods. With the new processes, this will be cut back to five to seven years or even less.

Gene editing technology will allow scientists to deliver drought-tolerant crops, salt-tolerant crops, fusarium-resistant crops, resistance to rust, specific nutritional profiles, and a likely few beneficial traits that we have not even contemplated. The technology is precise, only changing what needs to be adjusted, leaving the beneficial characteristics in place. And the new breeding programs will deliver these traits in half the time, or less, of regular plant breeding.

"The world really is on the edge of another green revolution. How could one be anything but excited?"



Being on the cutting edge of technology is a competitive advantage for Canadian farmers. We can't afford to turn our back on advancements in science.

The new technology will help agriculture adapt to a changing climate. This is how we will deliver new productive seeds to small landholders around the world who are looking for a path out of poverty. This is how we will feed a growing population. The world really is on the edge of another green revolution. How could one be anything but excited?

Now we get to the 'but' part of the answer.

Many consumers are wary of new science and technology, especially when that science is applied to food. We can't blaze the new technology trail and ignore the consuming public. We need to acknowledge the concerns and bring consumers on the path with us.

Accomplishing this goal is just as important as delivering new traits and varieties.

There are two tracks we as an industry need to take simultaneously.

First, we need scientists and farmers to come out of the fields and labs to explain why the new technology is good for consumers and our planet. We know how the science will benefit agriculture, but how will the new techniques benefit someone in downtown Toronto with no connection to the farm? We need to deliver real answers to this question before the activists convince the public that we are putting Frankenstein's monster onto grocery shelves.

But our actions should not be confined to trying to convince

the consumers. There is a regulatory element as well. And here the government of Canada must be an active partner. Canada must lead the development of clear, science-based regulations that include the new gene editing techniques.

Regulations based on fact and research, not fear, will facilitate the adoption of the new technology.

Second, we need the government of Canada to actively engage regulatory agencies in key markets to follow the Canadian example and implement a regulatory regime that allows — rather than prevents — the use of the new plant breeding techniques. This is work that needs to be accomplished before new varieties are planted. Working towards enabling regulations around the world should have a priority that is on par with negotiating the elimination of tariffs and restrictive quotas.

The new technology is a potential boon, not just for farmers but for consumers and a hungry world. But agriculture has work to do with consumers and governments around the globe if the possibilities of the science are to be realized.

TAX CHANGES ▶ from page 1

capital gains allocated from a family trust will no longer be eligible for a deduction. Children will also “not be able to use their capital gains deductions on the appreciated value of eligible farm property that built up before their 18th birthday,” Sawiak said in a report on the federal tax proposals.

As well, a “reasonableness test” will be applied to capital gains that were realized through farm partnership interests or shares.

If enacted, the changes will create “tax traps,” Sawiak said in an interview.

“These rules are going to be very difficult and costly to follow. There are significant requirements for them to follow within the rules as they’re written.

“At the end of the day, we’re looking at tax rules that are getting very complex. The red tape is growing to unbelievable proportions.”

Estate planning threat

The proposal also includes “a very broad anti-avoidance provision intended to prevent transactions that ‘convert’ a dividend from a corporation to another form of income taxable at a lower tax rate,” said Sawiak’s report. “These proposals are broad enough that they could apply to common situations like selling farm assets to a corporation.”

That provision is the most concerning to Good.

“If I want to sell land to the company so I can create a retirement pension, under these new rules, I may not be able to do that,” he said.

“If a farmer cannot sell land to his company to get cash out of his corporation to retire or create an income stream for non-farm



“This will affect any tax planning for farmers on an annual basis all the way until their deaths.”

ALLAN SAWIAK

children, I’ll bet that is going to affect 90 per cent of the clients I work with on retirement and estate planning who have companies.”

Good is urging producers and farm groups to “get really involved in this.”

“History shows we have to be active and not just sit back as an industry,” he said, adding that in 1971, producer feedback helped change the rules around farm property rollovers.

Sawiak echoes that plea.

“We do have a very narrow window for the Canadian public to get back to their MPs on these changes,” he said of the Oct. 2 deadline for public comment.

“There’s really not a lot of discussion time in considering these proposals, and farmers will need to get on it before harvest begins, before they’re too busy to concern themselves with anything but their farms.”

Special election

Ottawa has included a provision for a ‘special election’ that would allow individuals to use their capital gains deductions under the current tax rules until Dec. 31, 2018. But farmers will need to move quickly this fall to make the most of that special election.

“That will be the last time they

can use the capital gains deduction under the old rules, and if they hear about these rules in 2018, it might be too late to fully take advantage of that election,” said Sawiak.

“There actually have to be changes done before the end of this year to get ready for that election. That might mean restructuring their farm or the way they do things on their farm from a tax perspective to get things ready.”

The government has also proposed income splitting restrictions around ‘income sprinkling,’ which transfers money from individuals in a high tax bracket to family members in a lower one. That proposal has angered physicians and other business people who have incorporated and use dividends to split income with spouses and even children.

That’s not something that would typically affect farmers, said Good.

“I’m not too concerned about the income sprinkling one at all,” he said. “In most cases, farmers use their income to expand and grow their businesses.”

Sawiak’s report is available on the Canadian Association of Farm Advisors’ website at www.cafanet.ca under the ‘Farm Update Series’ pull-down menu.

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With interest rates on the rise, is it time to lock in?

Variable rates have been a winner for decades, but a fixed rate is an option worth considering

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Is it time to lock into a fixed long-term mortgage?

“Since 1975, the majority of the time the variable interest rate has been the better option and has saved producers money,” said provincial farm financial specialist Rick Dehod.

However, the Bank of Canada recently increased its prime rate by a quarter of a percentage point to 0.75 per cent, prompting charter banks to hike their prime rates to 2.95 per cent. Bank prime rates have not exceeded 3.0 per cent since Jan. 22, 2009, and posted five-year mortgage rates have not exceeded 5.0 per cent since March 2014, said Dehod.

“We’re seeing that the world’s central banks are reviewing their interest rate policies,” he said. “Economists feel that the Bank of Canada’s move signals a turning point to a longer-term trend in rising interest rates, and we could see a slow climb in interest rates over the next 18 months.”

Overall, Alberta farmers have a strong balance sheet, he said.

“In 2016, an average Alberta farm had assets of \$3,988,598 with total liabilities of \$507,003 for a net worth of \$3,481,595 or 87.2 per cent,” said Dehod. “However, equity doesn’t make interest payments—profits do. A one-quarter of a per cent interest change — if

all interest was based on prime — would see an additional \$1,267 cost to that farm. But not all debt is variable.”

Outstanding farm debt in Alberta has grown from \$15.890 million in 2012 to \$21.322 million last year, he noted.

“Many beginning farmers have incurred debt to finance entrance into the business of farming or expansion. Their debt loads are much larger than the average Alberta farmer and are subject to some financial risk should interest rates rise. The increase in debt has followed the increase in farmland values.”

The majority of farm managers have chosen the variable-rate term on their mortgages or a one-year fixed term in the past.

“Going forward, as mortgages are reviewed, a five-year fixed term should be part of the discussion. Mind you, peace of mind comes at a price as five-year fixed mortgages are presently posted at 2.0 per cent higher than prime.”

However, that could change quickly, said Dehod.

“Changes in Canada’s and the world’s economies will drive variable rates higher. A fixed rate will give the borrower certainty in their interest costs, and that certainly is worth something to those who have a higher debt load. A small premium on fixed rate mortgages could represent inexpensive protection to an interest rate increase into the future.”

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Service, Repair and Tires.

BARLEY BOOST ▶ from page 1

are using novel technologies to breed better varieties that will grow more efficiently, be easier to market, and most importantly, be more profitable. At a field day last month, barley growers learned about two key projects that, when finished, could put more cash into producers' pockets.

The first uses near-infrared technology to develop varieties for different markets.

"We've come to the point where we've made specific varieties for specific markets," said provincial research scientist Lori Oatway. "It's become quite detailed."

Using near-infrared technology — traditionally used to determine protein and moisture levels in grain — Oatway can look at 50 different components in barley and target certain attributes.

"The breeders use it to select and screen samples if you want to pinpoint a specific variety for malting or for food," she said.

Livestock feed is a "huge" part of the program, and the technology can be used to determine levels of protein, starch, acid detergent fibre, natural detergent fibre, and in vitro fibre digestibility. The food barley program, on the other hand, is "very small," but growing all the time.

"There's not much barley grown for food in Canada, but they're still doing some very unique stuff with it," said Oatway, adding researchers are working to increase beta glucan content in bread and cereal so merchandisers can add heart health claims to their packaging.

Twenty-five years ago, researchers might look at the protein, moisture, and maybe the starch content of food barley, but "now we've come to the point in time where barley actually has a health food claim. There's a lot more interest in food barley."

The bulk of their work is focused on crafting new lines for the malt barley market.

"This analysis has advanced so much in the last 20 years from what we were doing," said Oatway. "We've come a long way from measuring just the protein and moisture — all the way to measuring flavour."

Brewers tend to glom on to a specific malt barley variety that they like in their beers. It started with Harrington in the 1980s, which became the preferred malt variety for 20 years.

"Now we have AC Metcalfe and it's in the same position," she said.

The industry can be slow to take up new varieties — and that can cause heartbreak for breeders, particularly when they've improved the agronomic properties.

"Sometimes a variety goes through the whole process, and the brewer will come back and say, 'Oh but it tastes different. It's got an off flavour that we don't like.' And then the variety never goes anywhere," said Oatway.

"You have all those million dollars in development, and then it dies. We'd really like to have the industry move over quicker and take our newer varieties for the yield advantages and the disease resistance that we're putting into it."

However, the explosion in craft brewing is changing the game and giving those different varieties a new home.

"The feedback we're getting is that they want flavour," said Oatway. "With the craft market, we're actually seeing more potential for different flavours. They want to be unique, and they want those different things to make them unique."

But developing new lines for flavour attributes is "very difficult and very subjective," she added. Right now, she's looking for funding for a project with Rahr Malting that could help with that. Using a micro-malting machine, researchers can brew a single bottle of beer from a malt sample of about 250 grams.



When creating new varieties, barley breeders can now target up to 50 different quality attributes using near-infrared technology, said researcher Lori Oatway.

PHOTOS: JENNIFER BLAIR

"It would go through Rahr's complete sensory panel, where they would tell us what they like and what off flavours there were," said Oatway, adding Rahr also has a full lab for wet chemistry analysis that could tell which components relate to flavour.

"If they can tell us what those components are, we're hoping we can use the near-infrared technology to pinpoint some of those different components and say, 'Oh that's an off flavour and it's measured by this. Let's screen our varieties and make sure we don't have it.'"



Using GreenSeeker technology, barley breeders can select barley plants for improved nitrogen use efficiency, said researcher Yadeta Kabeta.

On the hunt for more green

Another project, led by provincial research scientist Yadeta Kabeta, is working to increase nitrogen use efficiency using a GreenSeeker crop sensing system.

"Cereals in general don't make very efficient use of nitrogen," said Kabeta. "Only about 50 per cent of the available nitrogen is utilized by the plant. The other 50 per cent partly remains in the soil and is partly lost to the environment."

"That incurs unnecessary cost on the producer."

About 10 years ago, researchers began to select and breed for

"Taking up nitrogen is important, but what pays for farmers is the yield."

YADETA KABETA

improved nitrogen use efficiency in barley.

"The idea is really to select and develop materials that can take up more nitrogen from the soil, as well as utilize that nitrogen more efficiently to produce grain yield," he said. "Taking up nitrogen is important, but what pays for farmers is the yield. So we look at not only taking up, but also making the materials more efficient at converting nitrogen into grain yield."

Growing crops under both high- and low-fertility conditions, researchers use GreenSeeker technology, which measures plant vigour, to assess how plants respond to different treatments.

"Plants that take up more nitrogen or use more nitrogen more efficiently tend to grow vigorously,

show more green colour, and have better ground cover," said Kabeta.

Researchers take readings at the tillering stage all the way to anthesis, monitoring how each variety progresses.

"At about the maximum biomass stage, we also take plant samples and we assess the exact amount of nitrogen taken up by each individual line. At the end, we look at the exact amount of nitrogen recovered in the grain."

That information is used during the selection process in "decisions whether to advance some lines while discarding others."

"We have identified some lines with better nitrogen use efficiency," said Kabeta. "In general, the lines we've selected for nitrogen use efficiency show about 10 per cent improvement over the standard cultivars."

One promising new line should be available for purchase in 2018.

"It's showing really good nitrogen use efficiency, but also in terms of yield. It showed about five to six per cent higher grain yield over the best checks in the co-op trial," he said.

"If this material continues to perform like last year, it will be put forward for registration in 2018."

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Options weighed for AgriRecovery in B.C. fire zones

B.C. Cattlemen's Association says both ranches and communities need assistance to help 'the B.C. cattle industry to survive'

STAFF

Officials in British Columbia are now gauging what sorts of damages and expenses can be covered through an AgriRecovery plan for ranchers and farmers affected by wildfires.

The federal and B.C. governments says they're "working together to quickly assess the extraordinary costs farmers are incurring and what additional assistance may be required to recover and return to production following the wildfires."

As of mid-August, almost 2.24 million acres have burned in more than 1,000 fires, including major portions of cattle ranges and pastures. Costs "under consideration" for AgriRecovery compensation may include livestock feed, shelter and transportation, re-establishing cropland and pastures in fire-damaged areas, and costs related to "ensuring animal health and safety."

Wildfires throughout the province "have caused unprecedented impacts for not only the cattle industry but for all of the rural communities" in affected areas, B.C. Cattlemen's Association general manager Kevin Boon said in a federal/provincial release.

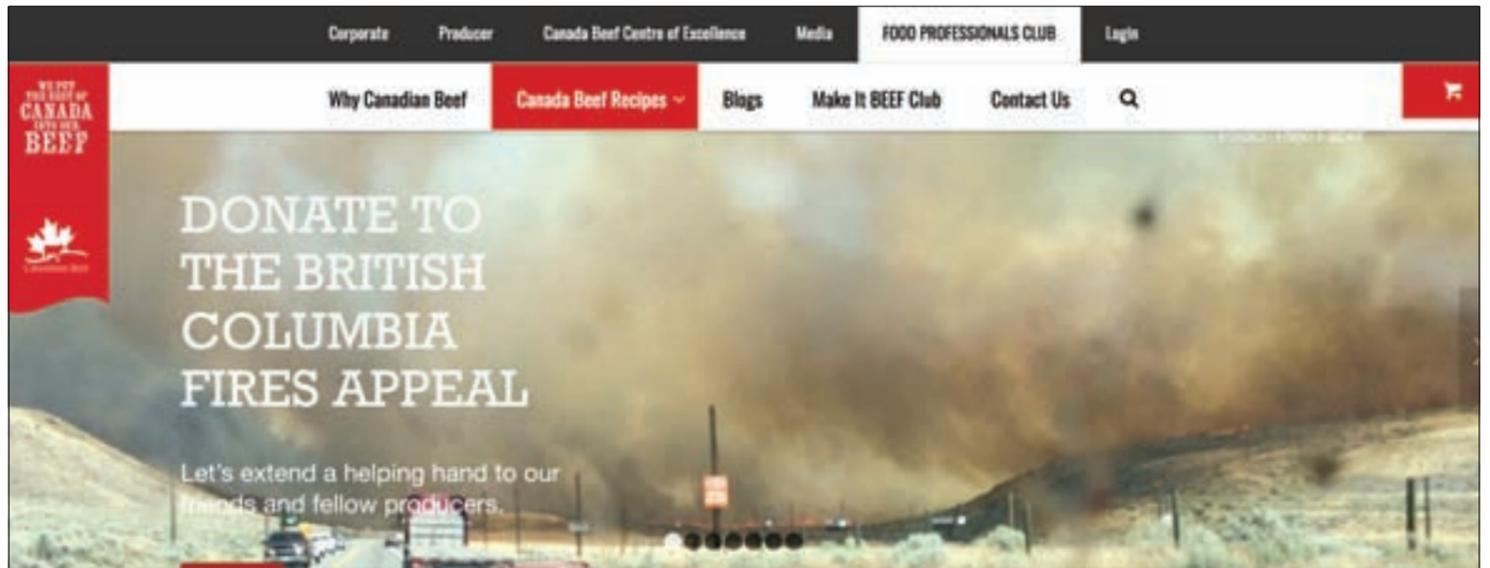
"We urge the governments to do everything possible in their assessment, including looking at the parameters of the program, to get as much financial support as possible into these businesses."

Funds will be spent in the communities where producers live, he noted, and "will be every bit as important to rebuilding the communities as they are to rebuilding the ranches and helping the B.C. cattle industry to survive."

AgriRecovery, the disaster relief arm of the federal/provincial Growing Forward 2 (GF2) ag funding framework, is set up where needed to respond to specific natural disasters and is meant to work in tandem with GF2's "core" business risk management programs such as AgriStability, AgriInvest and AgriInsurance.

The announcement followed the first meeting between Lana Popham, the province's new agriculture minister, and her federal counterpart Lawrence MacAulay.

An AgriRecovery response, when ready, "will help B.C. ranchers and farmers recover from their losses, and return to their land and their livelihoods," Popham said in a joint release.



Canada Beef is one of many organizations soliciting support for ranchers and farmers affected by wildfires in B.C. SOURCE: CANADA BEEF WEBSITE



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U.S. farmers confused by Monsanto's XtendiMax instructions

The furor over dicamba could determine the fate of Monsanto's largest-ever biotech seed launch



Arkansas farmer John Weiss is one of many U.S. producers complaining about damage due to the drifting of Monsanto's pesticide dicamba. Weiss said he fears losing up to 50 per cent of his soybean crops. PHOTO: REUTERS/KAREN PULFER FOCHT

BY TOM POLANSEK
AND KARL PLUME
REUTERS/CHICAGO

With Monsanto's latest flagship weed killer, dicamba, banned in Arkansas and under review by U.S. regulators over concerns it can drift in the wind, farmers and weed scientists are also complaining that confusing directions on the label make the product hard to use safely.

Dicamba, sold under different brand names by BASF and DuPont, can vaporize under certain conditions and the wind can blow it into nearby crops and other plants. The herbicide can damage or even kill crops that have not been genetically engineered to resist it.

To prevent that from happening, Monsanto created a 4,550-word label with detailed instructions. Its complexity is now being cited by farmers and critics of the product. It was even singled out

in a lawsuit as evidence that Monsanto's product may be virtually impossible to use properly.

At stake for Monsanto is the fate of Xtend soybeans, its largest-ever biotech seed launch.

Monsanto's label, which the U.S. Environmental Protection Agency (EPA) reviewed and approved, instructs farmers to apply the company's XtendiMax with VaporGrip on its latest genetically engineered soybeans only when winds are blowing at least three miles per hour, but not more than 15 m.p.h.

(The product's Canadian label puts the acceptable wind speed range between three and 15 km/h, or about 1.9 to 9.3 m.p.h.)

Growers must also spray it from no higher than 24 inches above the crops. They must adjust spraying equipment to produce larger droplets of the herbicide when temperatures creep above 91 F, or 32.8 C.

(On the Canadian label, farmers are instructed to not spray when the temperature is expected to

Dicamba, sold under different brand names by BASF and DuPont, can vaporize under certain conditions and the wind can blow it into nearby crops and other plants.

exceed 30 C. It also calls for farmers to "use coarse sprays since they are less likely to drift than fine sprays" and to avoid spraying in high humidity or fog.)

Also, after using the product, farmers must triple rinse spray tanks and equipment.

Label controversy

"The restriction on these labels is unlike anything that's ever been seen before," said Bob Hartzler, an agronomy professor and weed specialist at Iowa State University.

The label instructions are also of interest to lawyers for farmers suing Monsanto, BASF and DuPont over damage they attribute to the potent weed killer moving off target to nearby plants.

A civil lawsuit filed against the companies in Federal Court in St. Louis last month alleged it might be impossible to properly follow the label. Restrictions on wind speed, for example, do not allow for timely sprayings over the top of growing soybeans, according to the complaint.

The companies failed "to inform the EPA that their label instructions were unrealistic," the lawsuit said.

Monsanto said that while its label is detailed, it is not difficult to follow.

"It uses very simple words and terms," said Scott Partridge, Monsanto's vice-president of strategy. "They are not complex in a fashion that inhibits the ability of making a correct application."

Monsanto and BASF have said they trained thousands of farmers to properly use dicamba. Monsanto also said the crop damage seen this summer likely stemmed largely from farmers who did not follow label instructions.

Those detailed instructions led some growers and professional spraying companies to avoid the herbicide altogether.

In Missouri, farm co-operative MFA Inc. said it stopped spraying dicamba for customers last month partly because high temperatures made it too difficult to follow the label.

One confusing requirement on its dicamba label, farmers said, prohibits spraying during a "temperature inversion," a time when a stable atmosphere can increase the potential for the chemical to move to fields that are vulnerable.

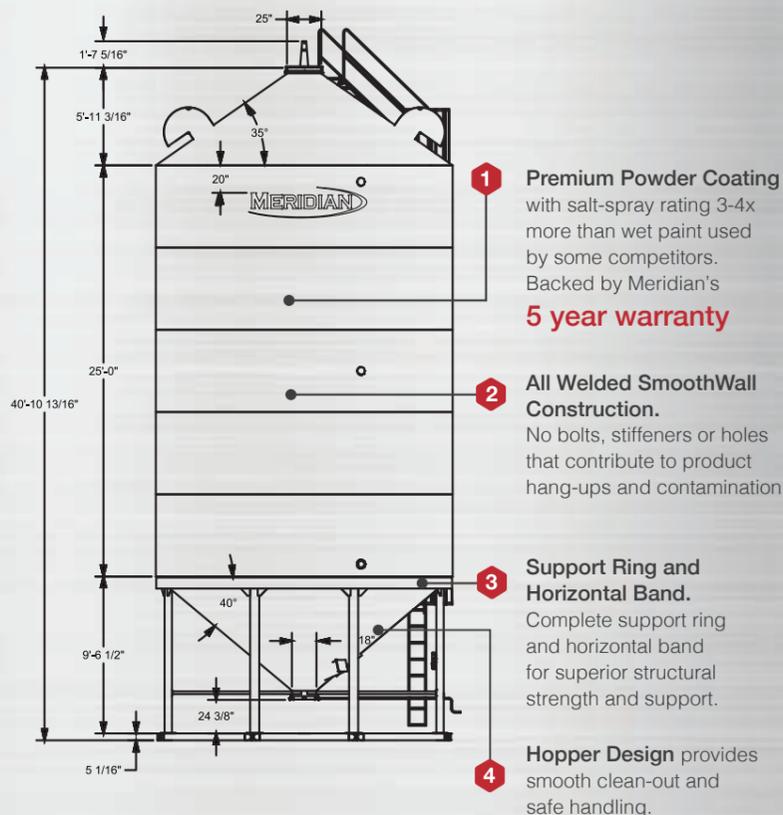
To follow the rule, some growers used their smartphones to check weather websites for wind speeds and information on inversions.

"You have to be a meteorologist to get it exactly right," said Hunter Raffety, a Missouri farmer who believes dicamba damaged soybeans on his farm that could not resist the chemical.

The EPA is reviewing label instructions following the reports of crop damage. — *With staff files*

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PRODUCTION TO FALL BUT 'NOT A DISASTER'

Wheat production is likely to be down sharply, but canola output looks more promising, according to a survey of 17 traders and analysts. Their average estimate for wheat is 26.2 million tonnes, a 17 per cent drop and the smallest crop in six years. However, they forecast a one per cent rise in canola production to a record 18.6 million tonnes. Hot, dry weather damaged canola, spring wheat, and durum grown in a narrow band north of the U.S. border, said Jerry Klassen of GAP SA Grains and Produits. But robust crops in other areas balanced some of those losses. "It's not a disaster, but it's not what we're used to seeing the last four to five years," he said. — Reuters

BLACK SEA ENJOYING ANOTHER STRONG YEAR

Black Sea wheat producers anticipate strong exports in the current marketing year. Prospects are up for the harvest in Russia, Ukraine and Kazakhstan, which were already expecting a good harvest this year. The IKAR agriculture consultancy raised its forecast for Russia's 2017-18 wheat exports by 0.5 million tonnes to 29.5 million to 31.5 million tonnes after upgrading its wheat production estimate to 74 million to 77 million. Ukrainian farmers were seeing average wheat yields of 56 bushels an acre, pushing total production estimates to around 25 million tonnes. — Reuters

MARKETS



Fundamentals help canola get back above \$500 mark

U.S. wheat futures slip on improving conditions and rising loonie impacts returns for growers here

BY DAVE SIMS

It was a choppy time for canola contracts during the week ended Aug. 18, but underlying fundamentals have pushed the front-month contracts above the psychologically important \$500-per-tonne mark.

Questions are growing about next year's carry-out, as current trade guesses put the crop somewhere between 17.5 million and 19.5 million tonnes. A lot of the crop was late seeded too, which means it could still benefit from mid-August rains or be threatened by an early frost.

At the same time, a large proportion of canola fields — particularly in Manitoba and northern Saskatchewan — is looking good. Some harvesting has begun and the early returns from southern Manitoba are solid.

Although the dominant November contract has climbed above the \$500 mark for now, the crop is still subject to price pressure in the near term. Off-the-

combine deliveries could be just around the corner, along with the daily pressures in the soybean market.

Crush margins continue to dwell at their lowest point since last summer while the market does its best to ration existing supplies.

One factor acting against the market is the growing strength of the Canadian dollar. A mid-August inflation report sent the loonie rising toward the 80 U.S. cents mark. Weakness in the U.S. dollar has also contributed to the loonie's rise.

It was a bearish week for the corn market as milder conditions in the U.S. Midwest and expectations of a massive U.S. harvest weighed down the market. Crop conditions, which had been stressed in July due to the heat, actually improved. The U.S. Department of Agriculture pegged yields at 169.5 bushels an acre, which surpassed traders' estimates.

Soybeans chopped around for much of the week as solid demand for oilseeds offset some of the bearish weather factors facing the crop. As well, a group from China travelled to the U.S. for a crop tour,

after which came an agreement to purchase 3.8 million tonnes of soybeans. U.S. export sales were also higher, which limited the losses. However, reports of bird flu outbreaks in the Philippines and China dragged on corn and soybeans.

The wheat market sunk lower as cooler weather and scattered rains brought relief to key sections of the U.S. Plains.

Technical selling was also a feature. On the international front the news wasn't any better, as many analysts say this year's Russia wheat crop will likely be bigger than expected.

Dave Sims writes for Commodity News Service Canada, a Winnipeg company specializing in grain and commodity market reporting.

For three-times-daily market reports from Resource News International, visit "ICE Futures Canada updates" at www.albertafarmexpress.ca.

Prairie wheat bids continue their downward trend

A rising loonie and falling U.S. wheat futures drag on cash wheat values

BY PHIL FRANZ-WARKENTIN
CNS CANADA

Hard red spring wheat bids in Western Canada during the week ended Aug. 18 moved lower for a fourth consecutive week as declines in U.S. futures and strength in the Canadian dollar weighed on prices.

Depending on the location, average Canada Western Red Spring (CWRS) wheat prices were down by \$1 to \$4 per tonne across the Prairie provinces, according to price quotes from a cross-section of delivery points compiled by PDQ (Price and Data Quotes). Average prices ranged from about \$253 per tonne in western Manitoba to as high as \$267 in eastern Manitoba.

Quoted basis levels varied from location to location, but generally held steady to range from about \$7 to \$21 per tonne above the futures when using the grain company methodology of quoting the basis as the difference between



PHOTO: THINKSTOCK

U.S. dollar-denominated futures and Canadian dollar cash bids.

When accounting for currency exchange rates by adjusting Canadian prices to U.S. dollars, CWRS bids ranged from US\$201 to US\$212 per tonne. That would put the currency-adjusted basis levels at about US\$34-\$45 below the futures.

Looking at it the other way around, if the Minneapolis futures

are converted to Canadian dollars, CWRS basis levels across Western Canada range from \$43 to \$57 below the futures.

Canada Prairie Spring Red (CPSR) wheat bids were down by \$13-\$14 per tonne, with prices ranging from \$150 to \$160 per tonne.

Average durum prices were steady to down by as much as \$15 per tonne, with bids in Saskatche-

wan coming in at about \$303-\$314 per tonne.

The December spring wheat contract in Minneapolis, off of which most CWRS contracts Canada are based, was quoted Aug. 18 at US\$6.825 per bushel, down 5.75 U.S. cents from the previous week.

Kansas City hard red winter wheat futures, traded in Chicago, are more closely linked to CPSR in Canada. The December K.C.

wheat contract was quoted at US\$4.4225 per bushel on Aug. 18, down 27 U.S. cents compared to the previous week.

The September Chicago Board of Trade soft wheat contract settled at US\$4.425 on August 18, down 24.5 U.S. cents on the week.

The Canadian dollar settled Aug. 18 at 79.45 U.S. cents, up roughly two-thirds of a cent on the week.

Average (cash CWRS) prices ranged from about \$253 per tonne in western Manitoba to as high as \$267 in eastern Manitoba.



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Lethbridge scientist wins beef industry's outstanding researcher award

Karen Schwartzkopf-Genswein is an internationally recognized expert on cattle welfare and behaviour

STAFF

Agriculture Canada researcher Karen Schwartzkopf-Genswein is the winner of the 2017 Canadian Beef Industry Award for Outstanding Research and Innovation.

The senior research scientist at the Lethbridge Research Centre is an internationally recognized expert on cattle welfare and behaviour. Her research also includes work on early disease detection, feeding behaviour, stress assessment, and acidosis, as well as cattle transportation, lameness, and pain mitigation. Her research has guided the industry in updating Canadian Transport Regulations and Canadian Beef Codes of Practice.

"Those of you who know me will know that this award means a lot to me," Schwartzkopf-Genswein said after being presented with the award at the Canadian Beef Industry Conference earlier this month. "My dream will be to work with the industry as long as I can and to be as useful to you as I can."

Schwartzkopf-Genswein is a pioneer in her field, the Beef Cattle Research Council said in a release.

"She recognized early on that animal welfare was an emerging field and sensed the public's growing interest and lack of understanding as to how livestock are produced," it said. "Her realization occurred before the industry fully recognized this area as a high priority for research funding, however, she persevered and continues to contribute greatly to the sustainability and public trust of Canadian beef production."

She has been "an incredibly positive impact on the Canadian beef industry by successfully navi-

gating, engaging and influencing at all levels," said council chair Bryan Thiessen, who is manager of Namaka Farms near Strathmore.

"Without her dedication, the beef industry would be challenged to develop a scientific base that allows beef consumers to maintain a high level of confidence in our farming and ranching operations."

Schwartzkopf-Genswein has more than 70 peer-reviewed publications and holds adjunct appointments at several universities.

The Canadian Beef Industry Award for Outstanding Research and Innovation, established in 2015, recognizes scientists and academics who are actively involved in strong research programs aligned with industry priorities, continually engage with industry stakeholders, and demonstrate their passion and long-term commitment through leadership, teamwork, and mentorship.



Karen Schwartzkopf-Genswein was presented with her outstanding researcher award at the recent Canadian Beef Industry Conference by (left to right) Beef Cattle Research Council science director Reynold Bergen, council vice-chair Matt Bowman, Ken Perlich of Perlich Bros. Auction Market, and research council executive director Andrea Brocklebank. PHOTO: BEEF CATTLE RESEARCH COUNCIL

Poultry watching NAFTA talks, but not worried

Dairy may be getting all the attention in the NAFTA negotiations, but the chicken, egg and turkey boards aren't letting their guard down.

"The government has been clear in its support for supply management and we are confident it will continue to support and protect supply management during the negotiations while finding a way to work with the United States," said Yves Ruel, manager of trade and policy for Chicken Farmers of Canada. "It has been done before successfully and we believe it will be done again."

The U.S. has a surplus in chicken trade between the countries of about \$200 million a year, he said.

It's a similar story for eggs, with the U.S. having a net trade surplus in eggs of nearly \$40 million last year, said Rowan Weerdenburg, communications officer for the Egg Farmers of Canada.

In addition to NAFTA, the poultry groups have been closely tracking the Trans-Pacific Partnership and Europe free trade talks. — AF contributor Alex Binkley

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Biosecurity proves its worth in PEDv fight

Rather than slaughter recovered pigs, authorities move them to clean barns and then closely monitor them

BY JENNIFER BLAIR
AF STAFF

Manitoba hog producers battling porcine epidemic diarrhea virus (PEDv) aren't out of the woods yet — but the situation has shown that biosecurity measures are effective.

"We had not had any positive cases since July 14, but yesterday, one infected premises was confirmed positive based on samples collected from pigs," Manitoba's acting chief veterinary officer Glen Duizer said in an Aug. 10 town hall meeting.

The pigs had been previously infected with PEDv, but had recovered and tested negative before being moved to a new premise in the existing 'buffer area' of at-risk farms in southeastern Manitoba.

"That same group of pigs have not exhibited any clinical signs, but has had some positive tests that suggest that they are shedding (the virus) again," said Duizer. "We're doing some further diagnostic work and working with the owners to sort out implications of this."

As of Aug. 9, Manitoba had 61 infected premises — 22 infected sow herds, 13 nurseries, and 26 finishers.

"There are still approximately 117,000 sows under test and approximately 67,000 sows on infected premises. We're working very hard to keep the disease geographically contained."

Because of the large number of at-risk animals, some movement of animals

within the buffer area is a necessary evil, said Duizer.

"We simply need the space in order to handle some of these pigs," he said. "As much as possible, we are working with the producers and the companies involved to do biosecure routing and ongoing monitoring at sites to ensure that, if anything flags positive, we find it."

In most cases, that means moving recovered pigs or uninfected piglets to previously positive barns that are now clean or to a negative barn within the buffer area.

"When we have to move pigs to a previously negative premises, we are trying to make sure they are non-shedding by agreed-upon criteria and we are conducting monitoring after it happens to ensure that, if they do break, we catch them right away," said Duizer.

But in the case of the most recent positive test, those protocols failed, he added.

"We've been working on some baseline statuses that say there's some confidence that these movements will not transfer the disease. We had been working off of 35 days post-clinical signs with two consecutive negative tests on pigs prior to movement. That's not declaring the site negative. That is simply declaring the site capable of producing non-shedding pigs."

"As a result of yesterday's case, we probably will tweak that a little bit further."

To date, five premises have received pigs under those protocols, but it's too early to say whether those barns will become positive as well.

"The most successful farms were the ones that implemented that within the first week of the outbreak."

GLEN DUIZER

"They themselves are undergoing ongoing monitoring after receiving the pigs, and as much as possible, we will keep surveillance in place to follow up with what those premises are doing."

Biosecurity protocols

Despite this latest positive test, Duizer is pleased with how successful these increased biosecurity protocols have been at "containing it within a limited number of areas so far."

"The bulk of our infected cases on the tail end of this outbreak have been direct animal movements and not biosecurity breaches," he said. "Those direct animal movements are things that had to happen in order to simply try to keep flow moving and avoid euthanizing large numbers of otherwise healthy pigs that just have no place to go."

"I think that underscores some of the success that we've had."

The willingness of at-risk farms to implement "short-term biosecurity protocol changes" has helped limit the spread of the disease, he added. Those protocols include limiting the use of shared staff, focusing on key contact points, disinfecting barns and trucks, and managing animal movement.

"When we've seen farms implement an aggressive outbreak-based biosecurity response — and we're not saying that those need to be implemented 24-7 for the rest of the farm's life — it appears to be effective."

And the quicker these protocol changes are made, the better.

"The most successful farms were the ones that implemented that within the first week of the outbreak. They were very quick on ramping up their biosecurity," said Duizer.

That's where emergency plans come in, he added.

"You need an idea of how you can implement things very, very quickly," he said.

"One of the struggles we've seen here is the issue of how quickly any operation can implement a ramped-up biosecurity protocol because they're now in the high-risk buffer area, or, if they have the disease, how quickly they can implement an elimination or control protocol to contain the disease."

"Those plans will play a big role in preventing farms from either spreading the disease or contracting the disease in a high-risk area."

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Heat stress and horses

Emergency interventions may be necessary to save overheated animals as heatstroke can occur very quickly

BY CAROL SHWETZ
DVM

Hot weather poses a unique set of challenges to the physiology of horses that are better equipped to deal with cold weather.

Horses naturally benefit from the heat produced as a byproduct of their own digestive processes and muscular activity. However, as temperatures rise beyond approximately 24 C and humidity increases, horses struggle to effectively cool themselves and are at a risk for heat stress. The exercising horse relies on the evaporative losses or sweating to cool itself and dissipate heat generated through sustained and strenuous muscular activity. The sweating horse loses both water and electrolytes which can lead to dehydration and electrolyte imbalance, further compounding the ill effects of the heat stress.

Both exercising and non-exercising horses exhibit heat stress and symptoms range from mental dullness and poor performance to potentially fatal heatstroke. Heat builds up just as easily in the non-exercising horse as the exercising horse, particularly those confined to enclosed trailers, small drylots with no shade, and closed or poorly ventilated stables.

Factors other than hot weather that contribute to heat stress in horses are obesity, metabolic conditions, long hair coats, lack of conditioning, poor acclimatization, excessive and strenuous work, transportation, inability to sweat (anhidrosis), and heavy muscling. Foals are particularly sensitive to hyperthermia with their naive thermoregulatory abilities and can overheat simply from being in the hot sun. Horses that are overweight and not used to regular hard physical activity are at the greatest risk. Additionally any horse that does not have access to salt and minerals will struggle with heat to a greater degree.

Common terms for describing the "overheated" horse include hyperthermia, heat exhaustion, heat cramps, heatstroke or sunstroke and represent severity along a continuum. "Overheating" or hyperthermia occurs when the horse's temperature rises beyond 41 C (106 F). This is often coupled with dehydration and electrolyte disturbances.

Physiology changes

As heat stress becomes heat exhaustion, the physiology of the horse becomes distressed and begins to change. Ironically horses that develop anhidrosis even cease to sweat as heat exhaustion progresses. Heat exhaustion can advance to heatstroke quickly. If a horse's body temperature rises to 41 C (106 F)



Hosing down an overheated horse with cold water will quickly cool the animal. PHOTO: THINKSTOCK

and beyond for prolonged periods the consequences to health can be serious.

The "overheated" horse typically begins to lack focus and/or state of presence, becoming dull and inattentive. The exercising horse will be profusely sweating, becoming dehydrated and fatigued. As the horse becomes more distressed and exhausted by the heat its heart will climb to over 60 beats per minute and remain elevated while its breathing becomes rapid and shallow. Some horses may begin to pant. Exercising horses refuse to work, drip sweat, and some horses exhibit "thumping" — a spasmodic jerking of the diaphragm or flanks in response to the electrolyte disturbances. Heat cramps may occur as a result of electrolyte loss and disturbances. Signs of heat cramps include spasms and twitching of the abdominal and/or large leg muscles. The horse may move

very stiffly and abnormally, similar to a horse that is tying up. Other horses appear to have colic.

Left untreated, heat exhaustion can rapidly turn into heatstroke with horses developing evidence of central nervous system dysfunction: inco-ordination, weaving, stumbling, staggering, and falling. A coma and death may follow if the horse is not treated immediately. Complications from the heatstroke include colic, laminitis, liver and kidney failure, respiratory complications, and "tying up."

If hyperthermia is suspected, taking the horse's rectal temperature provides a valuable parameter to monitor its well-being. Horses have a regulated internal set point within a very narrow range and a rectal temperature exceeding 40.5 C (105 F) is abnormal in any horse and poses a dangerous situation. The "overheated" horse often

requires active intervention from the moment it is recognized to be a problem to avoid a downward spiral of heat exhaustion and heatstroke. The extent of the measures taken depends greatly upon the factors that have led to the heat stress. If the horse is still alert, still sweating normally, and its rectal temperature reads 40 C (104 F) it is "overheated" but not necessarily in danger.

Care would involve environmental correction as much as possible, cessation of exercise, and cooling out the horse by walking as well as offering the horse plenty of opportunity to drink. As the horse starts to edge towards heat exhaustion aggressive cooling measure will become necessary.

Cool to cold water hosing of the large hindquarter muscles and large blood vessels that travel along the inside of the horse's hind limb and under the

As heat stress becomes heat exhaustion the physiology of the horse becomes distressed and begins to change.



neck will act to quickly dissipate and carry excess heat away from the body. Gentle walking will encourage circulation to bring more heated blood to the surface of the skin for cooling.

Standing the horse up in a breeze whether natural or created by fans will increase evaporative losses. If the horse's body temperature climbs upward into the danger zone of 41 C (106 F) and higher, douse as much of its body as possible with the coldest water available. Sponge the horse with cold water and apply ice packs to the large vessels along the insides of the hind legs. If its temperature does not come back into the normal range of 38.5 C (102 F) and the horse is not back to normal eating and drinking readily within an hour, then summon veterinary assistance. It may need intravenous hydration and further measures to support its recovery.

Heat stress and its various forms of distress can be prevented with proper management and conditioning. The most important single factor in preventing heat stress is providing plenty of clean, fresh water and trace mineralized salt to all horses. Sensibility when asking the horse to perform during the heat and a watchful eye for early signs of distress are equally important.

Carol Shwetz is a veterinarian focusing on equine practice in Millarville.

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HARVEST OUTLOOK LOOKS PROMISING

There should be decent harvest weather on most of the Prairies, according to Drew Lerner. The popular weather forecaster predicts “a good mix of rain and sunshine and more sunshine than rain, actually. There will be a certain amount of mixed emotions about that, of course, with it being as dry as it is in some areas.” Lerner said his forecasts are based on long-term weather patterns that have been locked in over the Prairies for some time. He said he expected the northwesterly flows to continue through most of autumn, which means humidity will stay low, and that means cooler air will arrive sooner to the region, making rain less likely. — CNS Canada

FORECASTER SAYS EL NIÑO UNLIKELY

A U.S. government weather forecaster says there are no active El Niño or La Niña patterns, and neutral conditions are favoured in the Northern Hemisphere this winter. However, the chances of neutral conditions were likely to fall from about 85 per cent between July and September to 55 per cent between December and February, the National Weather Service's Climate Prediction Center said in a monthly forecast in mid-August. The last El Niño, a warming of ocean surface temperatures in the eastern and central Pacific, was linked to crop damage, fires and flash floods in 2016. — Reuters

WEATHER



It was a very hot July but winter may be more average

‘Average’ and ‘near average’ are frequent terms in the forecasts of both the almanacs and national weather agencies

BY DANIEL BEZTE

Here I am in beautiful Riding Mountain National Park in western Manitoba and after three days of camping, I have yet to smack a single mosquito. How nice is that?!

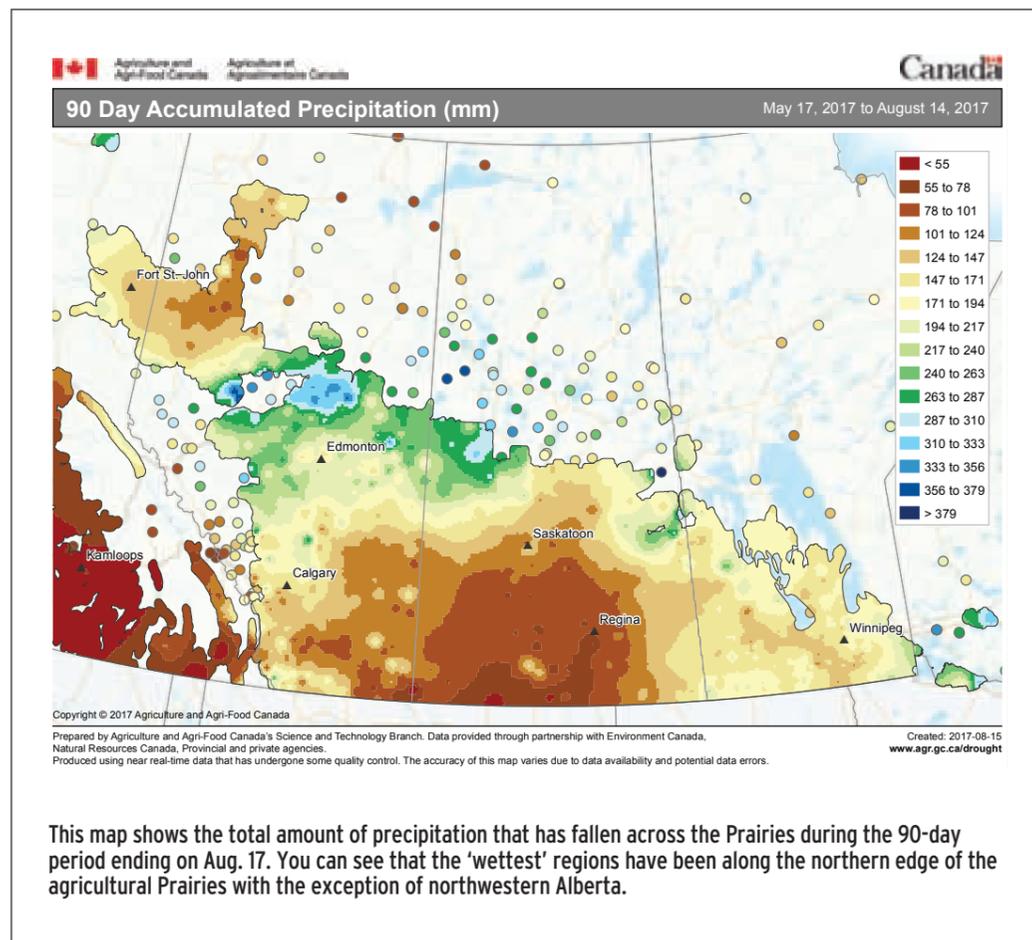
As I wrote this, I was keeping my fingers crossed that the sky conditions will work out for the eclipse on Aug. 21, more for my son than me. I'm old enough to remember the total solar eclipse that was visible across part of Manitoba back in 1979. This year's eclipse was to be visible over much of Alberta and parts of southern Saskatchewan but if you missed it, you will have to wait until 2044 to see another (unless you head to the East Coast in April 2024).

There is not a lot of weather news coming out of the Prairies that we haven't already covered, so for this article I figured we would take an early look at the fall and winter forecasts. Before we do that, I thought we should look at the monthly global temperature data for July.

According to NASA, it was the warmest July on record — which meant it was the warmest month ever recorded. The National Oceanic and Atmospheric Administration (NOAA) registered this July as the second warmest in its database, coming in just behind last July. Globally, it said it was the third-warmest July over the oceans and the warmest-ever July overland. For those of you who don't trust these data sources, the average temperature of the lowest eight kilometres of the Earth's atmosphere, as measured by satellite and reported by the University of Alabama Huntsville, was the fourth warmest in its 37-year database.

What has raised some eyebrows is the fact that it was a record or near-record warm month with no El Niño taking place. In other words, there were no naturally occurring cycles or events that historically help to boost global temperatures in July, yet it was extremely warm.

Now on to our first look at the fall and winter forecasts.



This map shows the total amount of precipitation that has fallen across the Prairies during the 90-day period ending on Aug. 17. You can see that the 'wettest' regions have been along the northern edge of the agricultural Prairies with the exception of northwestern Alberta.

Since the almanacs have been advertising that their winter forecasts are ready, let's start off with them. According to the *Old Farmer's Almanac*, we will see near- to slightly below-average temperatures this fall with near-average amounts of precipitation. Then things will get cold to start off winter with below-average temperatures in both November and December, along with near- to slightly above-average amounts of precipitation. Then the *Old Farmer's Almanac* has the winter flipping around beginning in January, with above-average temperatures and below-average precipitation right through until spring.

Jumping over to the *Canadian Farmers' Almanac*, it appears to be calling for a colder- and wetter-than-average fall as it mentions unsettled and wet conditions several times along

with cool or cold conditions. It even mentions the chance for wet snow and flurries in early October, which is not that unheard of now that I think about it. Moving on to its winter forecast, it is calling for above-average temperatures along with near-average or “moderate” amounts of precipitation.

That doesn't sound too bad, at least for the winter part of its forecast.

By the way, according to its website, part of the formula the almanac uses for long-range weather prediction uses the position of the moon. The rationale is that since the moon influences the tides in a predictable way, it can also influence the atmosphere and should be predictable. Not too sure about this, but it's still fun to look at these forecasts.

The latest forecast out of NOAA is calling for near-aver-

age temperatures over the central and eastern Prairies with slightly above-average temperatures over Alberta. Precipitation will be near average across all three Prairie provinces, it says.

The Climate Forecast System weather model used by the U.S. National Weather Service is predicting warmer-than-average temperatures right through to January across Manitoba and eastern Saskatchewan, with near-average temperatures over western Saskatchewan and Alberta. February is then forecast to be well below average over the northern and eastern Prairies with the southwestern portion continuing with near-average temperatures. As for precipitation, it is calling for near- to slightly above-average amounts this fall, with near-average amounts over the winter.

According to NASA, it was the warmest July on record — which meant it was the warmest month ever recorded.

The CanSIPS weather model is showing temperatures that will be above to well-above average both this fall and winter along with near-average amounts of precipitation.

Environment Canada's probabilistic forecast is calling for above-average temperatures right across the Prairies this fall and into the early winter. Temperatures are then expected to transition toward more average values later in the winter. Its precipitation forecast calls for a drier-than-average fall across much of Alberta with near-average amounts elsewhere. All regions are forecast to have near-average amounts of precipitation over the winter.

Finally, my kick at the forecast.

With neutral ENSO (El Niño-Southern Oscillation) conditions expected across the Pacific this winter, there is no strong driving force for our weather. This means the long-range forecast for this winter will be a tough one to figure out.

So to be safe, at this point I will go with near-average temperatures and precipitation across all three Prairie provinces. Now we'll just wait and see how much things change in a month or two.

Daniel Bezte is a teacher by profession with a BA (Hon.) in geography, specializing in climatology. He operates a computerized weather station near Birds Hill Park, Man. Contact him with your questions and comments at daniel@bezte.ca.

HEAT LQ CLEARED FOR PRE-HARVEST USE IN WHEAT, BARLEY

Wheat, durum, and barley growers can now use Heat LQ as a pre-harvest herbicide option after BASF received Codex maximum residue limits (MRLs) for the product. The Group 14 saflufenacil herbicide has been listed on 2017-18 producer declaration cards as a product that can't be applied for pre-harvest use on wheat, durum, barley, and flax. It should not be used on flax or mustard as there are no MRLs for those crops. MRLs establish a safe maximum level of residue under Codex standards used by the World Trade Organization as basic trading guidelines. Grain buyers are aware of the new MRLs for wheat, durum, barley and "will be disregarding that portion of the declaration," said Wade Sobkowich, executive director of the Western Grain Elevator Association. — Staff



CROPS

Is this the year that winter wheat makes a comeback?

Squeezing winter wheat seeding into a crammed harvest period is usually a big issue

BY ALEXIS KIENLEN
AF STAFF

Will there be an upswing in winter wheat acres this year? One of the biggest drawbacks is timing — you have to get your spring-seeded crop off the field before sowing winter wheat.

But that won't be as big an issue in a big chunk of Alberta this year. An estimated 508,000 acres were never seeded this spring and a bone-dry summer has meant an early harvest in many areas, particularly in the south.

"The risk with current areas that have unseeded acres is that those regions continue to receive rainfall — leaving those fields still in a wet state," said Janine Paly, an agronomist with the Western Winter Wheat Initiative.

"This could result in wet fields come spring, leaving the fields potentially unseeded for an additional year. I hope this is not the case, and growers are able to either plant a fall crop or a spring crop.

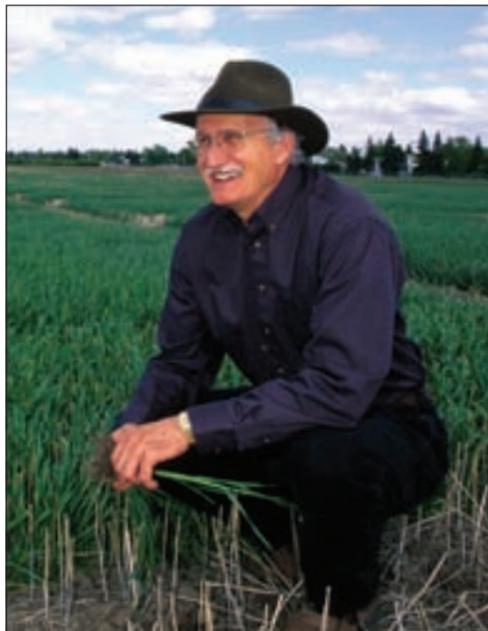
"If growers are able to access the land this fall in the regions that have received higher-than-normal precipitation, this would allow a fall cereal to utilize the moisture and any moisture that may arrive in the spring."

Proponents of winter wheat cite a host of other benefits, including higher yields than its spring-seeded cousin, spreading out next year's harvest because it matures earlier, and as a tool to combat weed resistance fostered by tight rotations.

Still, fall-seeded acres of winter wheat in Alberta are down sharply from the peak of 121,000 in 2008, falling by half before rebounding somewhat to the 70,000- to 80,000-acre range in recent years.

The harvest time crunch has been one of the biggest issues, said University of Saskatchewan plant sciences professor, Brian Fowler, who has been breeding winter wheat for more than four decades.

But there have been considerable agronomic improvements, particularly for winterkill.



There will probably be an increase in winter wheat acres this year, says U of Saskatchewan plant scientist Brian Fowler. PHOTO: SUPPLIED

"Our winter losses are probably as low or lower than they are in Washington state or farther south in the Great Plains area," said Fowler.

The rise of no till has also helped because stubble catches snow, which creates an insulating blanket (at least until a chinook comes along). But again, the tight harvest window comes into effect — "our earliest crop to come off is probably peas," said Fowler — and there will be little or no stubble if an unseeded field was cultivated.

On the other hand, winter wheat is a low-input crop and that will be especially attractive this year as so many producers have been slammed by last year's poor harvest and/or this year's drought.

"The major input you have to worry about with winter wheat is fertilizer," said Fowler, adding

"I think it's the inconvenience factor that has restricted the growth of the crop."

BRIAN FOWLER

most pests in winter wheat can be controlled with the more inexpensive herbicides.

Then there's the yield, which is 15 to 40 percent higher than Canadian Western Red Spring wheat, according to the Western Winter Wheat Initiative.

Still, Prairie grain growers aren't convinced. Saskatchewan and Manitoba grow more winter wheat, but the trend in those provinces is the same as in Alberta. Total Prairie fall-seeded acreage in recent years has been under the 300,000-acre mark — half of the record 615,000 acres seeded a decade ago.

"I think it's the inconvenience factor that has restricted the growth of the crop," said Fowler, who has released over 15 winter wheat varieties in his career.

"From my experience over the years, once a farmer gets out of the winter wheat rotation, it does present problems to get back in."

If there's decent weather and a speedy harvest, "then I think you'll probably see a little more winter wheat go in the ground this fall," said Fowler.

Optimal seeding dates range from mid-August in Peace Country to mid-September in the south, according to the Western Winter Wheat Initiative, a collaboration of Ducks Unlimited Canada, Bayer, and Richardson International. The organization has a detailed production manual at www.growwinterwheat.ca. — *With staff files*

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Follow storage guidelines to protect your stored pulses

Combining pulses when they're tough reduces damage to seeds, but they then need to be dried down

BY NEIL WHATLEY
ALBERTA AGRICULTURE AND
FORESTRY CROP SPECIALIST

Pulse crops retain their quality and maximize their marketability when a few grain storage guidelines are followed. Downgrading of pulses can occur when cracked seed coats or split seeds are present in the sample, or if a significant amount of seeds are heated or have a musty odour.

The Canadian Grain Commission's dry seed moisture content standards for safe storage and grading are 16 per cent or less for peas, 13 per cent or less for red lentils, 14 per cent or less for green lentils, and 16 per cent or less for fababeans.

Monitoring stored pulses begins shortly after harvest with spoilage risk increasing if the crop was harvested after wet weather or an early frost.

Since pulses are combined at tough or higher seed moisture content to prevent mechanical damage to the seeds, aeration is used to bring the crop down to dry. Joy Agnew of the Prairie Agriculture Machinery Institute (PAMI) claims that since pulses are harvested early, the weather generally co-operates for effective aeration and natural air drying — additional heat with a supplemental heating system is usually not required.

Green seeds, dockage, and foreign material hold moisture and should therefore be cleaned out of the sample prior to storage to avoid heating in the bin. They can also reduce aeration airflow.

Generally pulse crop seeds continue to respire or breathe after being harvested, causing the crop to go through a 'sweat' period for the initial six weeks in storage. This sweating can raise the grain temperature and cause moisture to accumulate, producing favourable conditions for mould growth. Using aeration bins is the most effective method to control this situation.

Whether to use aeration, natural air drying without additional heat, or a heated air-drying system depends on the grain's moisture content. If the grain is somewhat tough at one to two per cent moisture content above dry, aeration is usually sufficient. However, if the grain must come down three to four per cent in moisture content, a NAD system removes this extra moisture. While aeration can be completed in a few days, drying can take a couple of weeks.

If only aeration is required, PAMI advises producers to turn aeration fans on as soon as the ducts are covered with grain and run them continuously until the average temperature of the grain is at 15 C or less. Although fans can be turned off during rainstorms, PAMI suggests there is very little moisture movement between grain and air at low airflow rates — 0.1 to 0.2 cubic foot per minute (cfm) per bushel, which is the rate associated with aeration.

Producers who must actually dry their grain by three to four per cent moisture content require a natural air-drying (NAD) system, also referred to

Storage temperature in °C	Moisture content (%)				
	12	14	16	18	21
25	31	16	7	4	2
20	55	28	13	7	4
15	100	50	20	12	6
10	200	95	38	20	21
5	370	175	70	39	20

as near-ambient drying. Ambient air is the air outside the bin which has the capacity to remove moisture from grain. NAD requires an increased fan size in horsepower that provides a higher airflow rate of one to two cfm/bushel. For NAD, fans should be run only during the day when the air has the best capacity to dry until the grain is about one per cent above the safe-to-store moisture content. Then continuous night and day air can be used to finish drying the grain down one more moisture content point and cool the grain for safe long-term storage.

Later in the fall as air temperatures drop, NAD systems lose their effectiveness for drying grain. Cool air can only hold a small amount of moisture and moisture movement from grain to air is very slow at temperatures less than 10 C. So adding supplemental heat to the inlet air of a NAD system increases the air's ability to hold moisture and dry the grain. PAMI suggests limiting the air temperature increase to 10 C and use a Canadian Standards Association-certified heating system (not a homemade

system). Supplemental heat can be used when the ambient air temperature is between -5 C and 15 C. The maximum air temperature after the heater should be between 5 C and 25 C.

The disadvantage of using supplemental heat is that it increases the possibility of overdrying the grain, especially at the bottom of the bin. PAMI suggests running fans with a heater until the bin is "average" dry, mix the grain, and then cool with aeration.

If artificial heat grain drying is required, air temperatures should not exceed 45 C for peas and lentils to prevent seed germination problems or to prevent quality losses due to hardening or cracking of seed intended for food use. Additionally, the sample should not be dried more than four to five percentage points per pass through the dryer. For feed pea, dryer temperatures up to 70 C can be applied.

To get grain into the safe storage zone, it should be brought down to 15 C or lower. Regularly check the temperature of the grain in the bin. If an aeration system is not available, turning

Later in the fall as air temperatures drop, NAD systems lose their effectiveness for drying grain.

grain outside the bin, or coring, is an alternative to aerating it in the bin when the ambient air temperature falls below 15 C. Turn the grain every two to four weeks until the grain temperature reaches 15 C or less by removing about one-third of the grain from the bin, allowing it to cool overnight, and then putting it back.

When moving pulse crops, grain augers operated full and at low speeds reduce seed coat cracking and seed splitting. Pulse seeds at 12 per cent moisture content and lower are more susceptible to chipping and peeling when handled.

Cool, dry storage conditions allow the crop to be stored for a lengthy period, but if seed moisture content or temperature rises, storage time lessens. The accompanying table indicates the number of weeks recommended for safe storage of field peas at various grain moisture contents and storage temperatures. Other pulse crops are similar.

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Monday, September 11th

ATB - 5118 50 Street

1:00PM - 4:00PM

(PSA)

LLOYDMINSTER

Tuesday, September 12th

ATB - 7001 44 St.

8:00AM - 11:00AM

(PSA)

BROOKS

Saturday, September 16th

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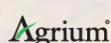
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Who knew? Vegan 'fake bacon' isn't a health food

STAFF

Medical researchers have long said plant-based diets are healthier — but it turns out what type of plant-based foods matters a lot.

Fruits, vegetables, whole grains, legumes and other 'basic' plant foods can in fact lower the risk of heart disease, result in less obesity and other positive impacts. But a recent study looked at data from 200,000 people and discovered another alarming trend.

Many were choosing highly processed plant-based foods like processed snacks, sugary cereal, and fake bacon in the mistaken belief they were healthy. In fact they're the opposite, and a high intake of these foods were found to cause a higher risk of heart disease. This negative impact was consistent when the researchers controlled

for age, sex, BMI, and family history.

Boiled down the researchers found plant-based diets that did not include processed food were the healthiest. The next-best choice were diets that included plenty of whole fruits and vegetables but little processed food. The worst diets were the ones — vegan, vegetarian or including meat — that were high in processed foods.

"These studies of vegetarian and vegan diets haven't distinguished between different qualities of plant food," said lead author Ambika Satija, a post-doctoral fellow at Harvard T. H. Chan School of Public Health. "Certain plant foods, like whole grains and fruits and vegetables, are associated with lower risk of Type 2 diabetes and cardiovascular disease. But other plant foods, such as sugar-sweetened beverages, are actually associated with increased risk."

EU starts in-depth probe of Bayer, Monsanto deal

Commission names various markets where competition at risk and takes issue with plan to combine seed, pesticide offerings

BY ROBERT-JAN BARTUNEK AND LUDWIG BURGER
REUTERS/BRUSSELS/FRANKFURT

The European Commission has started an in-depth investigation of Bayer's planned US\$66-billion takeover of U.S. seeds group Monsanto, saying it was worried about competition in various pesticide and seeds markets.

The deal would create the world's largest integrated pesticides and seeds company, the commission said, adding this limited the number of competitors selling herbicides and seeds in Europe.

"The proposed acquisition could reduce competition in a number of different markets resulting in higher prices, lower quality, less choice and less innovation," it said in a statement.

While the commission could block the deal, it has approved others in the industry, such as Dow's tie-up with DuPont and ChemChina's takeover of Syngenta — although only after securing big concessions. A final decision is expected by January.

Among individual markets where competition was at risk, the commission named Monsanto's weed killer glyphosate, or Roundup, which competes with Bayer's glufosinate; vegetable and canola seeds, as well as licensing of cotton seed technology to peers.

A merger would also reduce competition in the market for the genetic traits behind herbicide tolerance, which are typically licensed out to third-party seed companies.

In addition, the commission said the deal might slow the race to develop new products, such as wheat seeds and herbicides against weeds that have grown resistant to existing products.

Digital agriculture

More broadly, the regulator also took issue with Bayer's plan to create combined offerings of seeds and pesticides with the help of new digital farming tools, which include sensors, software, and precision machines.

Bayer has already pledged to sell its glufosinate crop chemical, branded as Liberty, and canola and cotton seeds that resist the chemical's plant-killing effect to get approval for the deal from South African regulators.

In the takeover contract with Monsanto, Bayer pledged to divest businesses with up to \$1.6 billion in annual sales, if required by antitrust regulators, though the company has said it expects to stay below that figure.

Rivals BASF and ChemChina's Syngenta are expected to be among suitors for assets likely to be sold by Bayer, according to people familiar with the industry. The businesses are roughly estimated to be worth a combined \$2.5 billion.

But Bayer will have to weigh up whether any further concessions required by the commission still make the deal worthwhile.

A merger would also reduce competition in the market for the genetic traits behind herbicide tolerance, which are typically licensed out to third-party seed companies.

Giant hogweed is one big and scary weed

BY AIMEE DELANEY
CONSERVATION ASSISTANT,
RED DEER COUNTY

NOXIOUS WEEDS

It's not often a weed grabs the attention of both urban and rural landowners across the province, yet in 2015, giant hogweed was a weed everyone had an eye out for.

As we wrap up the growing season in 2017, this prohibited noxious short-lived perennial is still on folks' minds and is often mistaken for the very common native plant, cow parsnip.

Concerns were raised because giant hogweed can cause painful burns and/or blistering, and even hospitalization in some cases. Luckily cow parsnip — giant hogweed's significantly less harsh cousin — is much more prevalent in Alberta.

So how do you tell the difference?

It can be tricky and there are many similarities, but size is a good way to tell them apart. Giant hogweed can reach a height of 20 feet and have a stalk diameter of one to three inches while cow parsnip generally is five to eight feet high and has a stalk diameter of one to two inches.

Stems also differ in that giant hogweed has purple spots and stiff bristles, compared to cow parsnip's few purple areas, deep ridges, and fuzzy hairs.

Flower clusters are very similar and both plants have lobed leaves (although giant hogweed can have a leaf span of about five feet).

Prevention is the best way to inhibit weed spread. Once established, control is best done in the spring when the plants are small, although residual herbicides applied in the fall may help. Clipping flowers will reduce the spread of seed. Since the weed requires soil disturbance to spread, cultivation is only productive when all



Giant hogweed is similar to cow parsnip in many respects, but its size is a giveaway. PHOTO: JOE PARRIERA, ONTARIO INVASIVE PLANT COUNCIL

or most of the plant root has been removed. Annual removal may be necessary.

For more information on this or any invasive plant, contact your local Agricultural Fieldman (www.aaaf.ab.ca) or the Alberta Invasive Species Council (www.abinvasives.ca). This is the final instalment of the series for 2017. Look for more articles next spring.



Contact your local fieldman at www.aaaf.ab.ca



For more information on noxious weeds: www.abinvasives.ca

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Prairie grain is moving through ports like never before

The country's three export terminals moved a record amount of grain in the past year — and it didn't happen by accident

BY ALLAN DAWSON
STAFF

Western Canada's grain industry moved a record volume of grain in the 2016-17 crop year that ended July 31 and is gearing up to ship this year's crop, expected to be the smallest in four years.

Export terminals at Vancouver, Prince Rupert, and Thunder Bay put through 35.945 million tonnes of grain last crop year, topping the 2014-15 record of 35.76 million, according to the federal government's grain monitor. (That number doesn't include domestic consumption or shipments to the U.S.)

The final number could change, but a new record is certain, said Mark Hemmes, president of Quorum Corporation, the firm that monitors Western Canada's grain-handling and transportation system.

"Overall I think it's the biggest year we've seen in tonnes moved," he said.

Vancouver, Prince Rupert, and Thunder Bay terminals unloaded a record 399,203 cars shipped from country elevators (versus 384,782 in 2014-15).

The Western Grain Elevators Association is pleased with the rail service provided to its members, which include the West's major grain companies, said executive director Wade Sobkowich.

"The railways need to remain on their game whereas before (when rail service suffered) we might have said they needed to get on their game," he said.

CN Rail did an excellent job moving grain to export all last crop year, while CP Rail struggled earlier, but picked up the pace the last half the year, he said.

"We would expect the railways to continue servicing the grain industry as they have been," Sobkowich said. "They have been performing well and we are looking at a crop that is smaller than it was last year so we have greater confidence that they are going to do that."

"In addition we have C-49, (federal legislation) which we expect to pass in the early fall, hopefully, and then shippers will have more tools to hold the railways to those service standards that they have already been achieving."

The elevator association estimates Western Canada's crop at 60 million tonnes, down from last year's 76 million tonnes — the second-biggest crop behind the 77-million-tonne record set in 2013.

Railway officials said they are ready.

"CN is aware of the variance in crop size from the different organizations that forecast



Western Canada moved a record amount of grain in 2016-17, preliminary figures show. Meanwhile, the grain industry says it's geared up to move the 2017 crops. PHOTO: ALLAN DAWSON

this," Doug MacDonald, CN vice-president of bulk, wrote in an email. "From discussions with our customers, CN expects a similar number of orders on its network as the prior crop. We are ready to move it."

CP Rail is also ready. This is the second grain movement record in the last three years and comes just four years after a massive backlog in grain shipped by rail that prompted the former federal Conservative government to order the railways to meet weekly shipping targets or face fines. That unprecedented action — criticized as draconian by the railways but welcomed by farmers and grain companies — was followed by the Fair Rail for Farmers Act, an early review of the Canadian Transportation Act and C-49, the Grain Modernization Act, tabled earlier this year by the current Liberal government.

CN moved a record 21.8 million tonnes of grain in 2016-17 — seven per cent more than the prior three-year average — despite more -25 C days and more snow than 2015-16 or the three-year average and a slow start due to a wet fall, CN said in a summary of the last crop year.

In addition CN set six new monthly shipping records

"We would expect the railways to continue servicing the grain industry as they have been."

WADE
SOBKOWICH

between the peak months of September and March when grain prices are highest.

The railway is calling for federal infrastructure investment for Vancouver's congested North Shore.

"We gave our customers what they were looking for by significantly expanding our commercial product offering," MacDonald said. "CN expanded commercial agreements that guarantee car supply in advance to our customers both large and small. This commercially driven innovation includes reciprocal penalties which drive accountability for both shippers and CN, and allows our customers to make market-based decisions."

Last crop year, customers secured about 70 per cent of

CN's car supply in advance under commercial agreements subject to car commitment guarantees, he added.

CN credits its record performance on a combination of factors, including investing \$3 billion in infrastructure the last five years; having crews, cars and power ready; and a fair and predictable car allocation policy (which saw CN communicate a maximum weekly supply chain capacity of 5,500 carloads during the fall and spring, and 4,000 carloads during the winter).

CP Rail moved about the same amount of grain last crop year as in 2014-15 and two per cent more than the five-year average.

CP Rail's Dedicated Train Program (DTP) has improved grain movement and will be even more important this crop year, accounting for more than 75 per cent of CP's grain service, said senior vice-president and chief marketing officer John Brooks.

CP is working towards 8,500-foot-long trains with a minimum of 134 grain cars — 20 per cent more than traditional 112-car trains.

"Through infrastructure investment and collaboration with grain companies and port operators, this enhanced train model allows railways, elevators, and ports to increase

throughput and better utilize resources," CP said in a release.

"The end result is more grain transported to market more efficiently than ever before."

Improved communications and infrastructure investments contributed to a new grain movement record, Hemmes said.

"Richardson... is almost like a new terminal (in Vancouver)," he said. "Viterra has spent a ton of money on both Cascadia and Pacific."

"The money put into Alliance — and they are putting in more — is really starting to show positive results. Prince Rupert... just keeps getting better and moving more and moving it faster."

"Those kind of efficiencies are just as important as anything and probably more important than what the railways are doing because they are turning cars faster."

As well, grain companies are getting better at co-ordinating movement between elevators and ports, said Hemmes.

"So things are moving smoother that way. I would attribute it as much to capital investment by the grain companies and communication between all of the stakeholders."

allan@fbcpublishing.com

BOUNGING INTO AUTUMN



A white-tailed deer jumps through a forage pasture near Priddis PHOTO: WENDY DUDLEY

Invasive species threaten crops worldwide

The spread of pests and pathogens that damage plant life could cost global agriculture \$540 billion a year, according to a new report.

An increase in international trade and travel had left flora facing rising threats from invasive pests and pathogens, and called for greater biosecurity measures, said the report from the Royal Botanic Gardens at Kew in London.

“Plants underpin all aspects of life on Earth from the air we breathe right through to our food, our crops, our medicines,” said Prof. Kathy Willis, RBG Kew’s director of science.

“If you take one away, what happens to the rest of that ecosystem — how does it impact?”

Researchers also examined the traits that would determine which plant species would cope in a world feeling the effects of climate change.

Plants with deeper roots and higher wood density are better able to withstand drought, while thicker leaves and taller grasses can cope with higher temperatures, the report found.

The report, which involved 128 scientists in 12 countries, found that 1,730 new plant species had been discovered in the past year, including nine new species of the climbing vine *Mucuna* across Southeast Asia and South and Central America.

— Reuters



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2015 NH CR9.90 721/575 hrs	\$505,000
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0900

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

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ANTIQUÉ EQUIPMENT
0703

WANTED: EZE-ON LOADER w/bucket, grapple, and mounts for IHC 660 tractor. Call 403-318-8135. Delburne, AB.

WAIRD 2 BTM PLOW PL: McCormick Deering Type D Binder; GMC 9100 2-ton truck; NH 1400 6 cyl gas combine; Bulldog fanning mill. 780-363-2112, Lamont, AB.

JOHN DEERE TRACTORS: AR, D and M all in running condition. Call for details 780-871-4300, Lloydminster, SK.

1958 FORDSON MAJOR 4 cyl. dsl. tractor, w/3PTH, runs great, asking \$6000 OBO. Call Sheldon, 306-291-2072 Saskatoon, SK

JD 830 with pup start engine, dual hyd's., both engines run, original condition, \$8000. Call 306-621-5136, Yorkton, SK.

RUMELY OIL PULL; Bulldog Tractor. Call 306-304-1959, Goodsoil, SK.

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ANTIQUÉ VEHICLES
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OLD MODEL T: UC vg cond., body fair, c/w running boards, fenders, wooden spoke wheels. Tires, windshield, radiator in good condition. Motor, trans. & all pedals complete. Pics avail. 306-795-7995, Ituna, SK.

ANTIQUÉ MISC.
0710

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

ANTIQUÉ PICKER IN Southern Alberta looking to buy oil cans, vintage clothing, signs, motorbikes, and junk in old outbuildings! Pay CASH! 403-915-0447.

ARENAS
0800

1992 OLYMPIA ICE GROOMER, natural gas 350 GMC engine, 9572 hrs., 84" conditioner, front dump, board brush, new tires last year, new bearing and bushings on conditioner, \$8000 OBO. Standard, AB., Dave 403-934-0551, Trent 403-934-8765.

AUCTION SALES
0900

MORE MYTREON FARM Auction, Saturday, September 16th 2017 in Airdrie, AB. Featuring: CIH 7110 dsl. tractor, w/3360 hrs.; MH 555 Antique Tractor. Contact Bill Morison Auctions, 360-961-7428.

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AUCTION SALES
0900

AUTO/TRUCK PARTS
1100

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

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2016 SUBARU IMPREZA consumer reports as best small car starting at \$23,360! Call for best price!! 1-877-373-2662 or www.subaruofsaskatoon.ca DL #914077.

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SALE 2 OF 4 HUGE FABRICATION EQUIPMENT SALE 2 OF 4

AUCTION

SALE #2 DATE: TUESDAY, SEPTEMBER 12, 10 A.M.
SITE: 51ST AVE. EAST OF 75 ST., EDMONTON AB.
PREVIEW: MONDAY, SEPTEMBER 11, 11 A.M. - 5 P.M.

FEATURING
CIVIL ENFORCEMENT: MILLER PIPEWORX 400 DIGITAL MIG WELDER C/W DUAL WIRE FEEDER, S/N MD1300236 * MILLER XMT 350 MULTI VOLTAGE MIG WELDER C/W SERIES 22 WIRE FEEDER, S/N LJ 141492A * BUG-O SYSTEMS MODEL SE0-4250 PL. N.A.C. PROGRAMMABLE SADDLE AND ELBOW CUTTER WITH PLASMA TORCH ATTACHED (NO PLASMA POWER SOURCE) * IRCO MODEL 3K 6 X 6 3,000 lb. WELD POSITIONER WITH 3 JAW * DEVILBISS 10 H.P. VERTICAL AIR COMPRESSOR * **SPECIAL OFFER:** 2014, 2,000 LITRE PORTABLE FUEL TANK MFG BY GUARDIAN TANK BY AGB PRODUCTS WITH DUAL 12 VOLT BATTERIES TO OPERATE HOSE TAKE UP REEL AND METERED PUMP (MFG SPEC CGSB43.146-2002) * DI INDUSTRIAL SERIES T-STYLE AUTOMATIC ROOF SEAMER * 1- DI INDUSTRIAL SERIES 3 STATION ROOF SEAMER * 50- MOTOROLA XPR 6580 TWO WAY RADIO'S WITH G.P.S. MODULE * 40 MOTOROLA CP 200 TWO WAY RADIOS * **WELDING:** * 7 NEW LINCOLN POWER FEED 10M DUAL WIRE FEEDERS * 11- MILLER DIMENSION 452 WELD POWER SOURCES * LINDE 400 AMP TIG WELDER * RED-E-ARC 550 WELDER * 10- LINCOLN K1813-1 PORTABLE WATER COOLING SYSTEMS FOR WELDERS * WELDING ROD, S.S. ROD, TIG ROD, MIG WIRE * MATHY DEARMAN 711 SERIES PIPE LINE-UP CLAMPS FROM 14" 20" AND 22"-28" * SUMNER ULTRA PIPE LINE-UP CLAMPS 17- 2"-6" & 5"-12" * G.B.C SUPERBOILER T5 AUTOLOCK PNEUMATIC BEVELLER * 25 HIGH QUALITY WELD SCREENS ON CASTERS * 2- NEDERMAN PORTABLE SMOKE FILTERS * 2- AIR-FLOW SYSTEMS SMOKE FILTER ARMS WITH VACUUM FANS * 21- NEW BERNARD 195400 MIG GUNS * 5- DAEWOO G25S LPG FORKLIFT * DEARMAN SINGLE JACKSCREW CHAIN PIPE ALIGNMENT CLAMP 4"-16" * **FABRICATING:** 20- POP-IT FLANGE SPREADERS * SALA ADVANCED CONFINED SPACE HOISTS * 25- 22' SHIPPING BEAMS (DOUBLE 14" X 72 LB W.F. * 50 L-J & RIGID PIPE STANDS TO 5,000 lbs. * 16- NEW MAKITA 7" ANGLE GRINDERS * MAKITA 1" & 3/4" ELECTRIC IMPACT GUNS * ABRASIVES, WIRE WHEELS ETC. * 20 NEW TIGER TORCHES WITH REG'S AND HOSE * 100 NEW DEWALT 5/6" ANGLE GRINDERS * 50 NEW 1/2" DEWALT DIE GRINDERS * 100 USED DEWALT 5/6 ANGLE AND DIE GRINDERS * MAKITA CORLESS DRILL SETS * 10- WESTWARD 3 TON WIRE ROPE PULLERS WITH CABLE, HANDLE AND JACK * 16- C.E.P. MODEL 6506-GU POWER DISTRIBUTION PANELS * FLAMMABLE LIQUIDS CABINETS * LARGE JOB SITE BOXES * HUNDREDS OF HAND TOOLS, SOCKET SETS, ETC. * WELDING LEATHERS AND GLOVES * PORTABLE YARD LIGHTS ON CART * 2- 1 H.P. BALDOR PEDESTAL GRINDERS * NEW LIFTING SLINGS * BANDING CARTS AND TIGHTENERS * 26 ROLLS NEW 5/8 BANDING * 70- NEW 30" PERSONAL JOB BOXES * TIDY TANK WITH ELECTRIC PUMP AND CONTAINMENT BASE * 2- 3 DRAWER VIDMAR CABINETS * 10 4 WHEEL PARTS CARTS * 600 lb. TORQUE WRENCHES * 100- 20# FIRE EXTINGUISHERS * **OFFICE AND FOOD RELATED:** * **MISCELLANEOUS:** * 6000 GALLON WATER TANK *

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2009 LOEKING SUPER B, alum. wheels, lift axles, auto greaser, \$57,000; 2006 Loeking Super B, alum., \$25,000. Yellowhead Sales, 306-783-2899, Yorkton, SK.

NEW WILSON and CASTLETON tridems and Super B's. 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

2010 LOE-KING SUPER B grain trailers, 11x24.5 at 60%, lift axles, asking \$35,000. For more info. call Scott 306-747-9322, Tom 780-713-5967, Shellbrook, SK.

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ALL ALUMINUM GRAIN TRAILERS: Tandems, tridems and Super B Timpete grain trailers. Call Maxim Truck & Trailer, 1-888-986-2946 or www.Maximinc.com

LIVESTOCK TRAILERS
1510



2017 FEATHERLITE LIBERTY LQ 9821-311B, #HC146273, \$94,450. 3 horse/booth dinette! Call 1-866-346-3148 or shop online 24/7 at allandale.com



2017 FEATHERLITE 7'x20', #HC144996. \$19,900. Two compartments. Edmonton/Red Deer. Call 1-844-488-3142 or shop online 24/7 at www.allandale.com



2018 SUNDOWNER SANTA FE LQ 3-horse, #J1HA7153, \$48,900. Ph 1-844-488-3142 or shop online 24/7 at: allandale.com

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



\$500 USD MAIL-IN REBATE! Full line-up of Wilson Trailers, including the Ranch Hand, Foreman, and Roper models. Purchase before September 31, 2017 and receive a \$500 USD mail-in rebate. With over 15 years of Sales and Service, we will not be undersold! Bassano, AB., 1-800-641-4508, www.desertsales.ca

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MISC. TRAILERS
1815

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

1998 TRAILTECH TANDEM 12' Sprayer Trailer, \$8000. For more information, please call 780-221-3980, Brownfield, AB.

1981 NELL'S 61' double drop flat deck, snap-off neck, 36' working deck, \$7000. 780-221-3980, Leduc, AB.

HAWK EQUIPMENT TRAILER, 10'w, tridem lift axles, aluminum wheels, pullouts. Great for Farm Dealership. Call 780-720-4304, Willingdon, AB.

2002 TRAIL-EZE TA machinery trailer, 48', hyd. tail, certified, pull out steel extensions. 780-753-2550, Provost AB.

BEHNKE DROP DECK semi style and pintle hitch sprayer trailers. Air ride, tandem and tridems. Contact SK: 306-398-8000; AB: 403-350-0336.

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30 GRAVEL TRAILERS, END dumps, clam trucks, cross dumps, side dumps. Check prices on: www.trailerlady.ca Call 306-222-2413, Saskatoon, SK.

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

SEMI COMBINE TRAILER, TRI-AXLE, 2000 Janzen, 12' wide, Sask. safety, \$18,700. Call 306-222-2413, Saskatoon, SK. www.trailerlady.ca

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2017 RAM 1500 SPORT, crew cab, loaded, sublim green, MSRP \$65,240, all taxes paid for \$52,500 total. Call Hoss 306-554-7063 or 1-800-667-4414.

2012 KENWORTH T800, newly rebuilt motor, new safety, with or without gravel box. 403-625-4658, Claresholm, AB.

FOR SALE: 2001 PETERBILT 379, completely rebuilt C15 Cat, 18 spd., 40 Reas. More info. call 306-342-4968, Glaslyn, SK.

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2010 DODGE RAM 1500 SLT, quad cab, 4x4, 5.7L V8 Hemi, 28,500 kms., \$26,500 firm. Greg 306-883-2568, Spiritwood, SK.

SEMI TRUCKS
1677



2009 IH PROSTAR, 500 HP Cummins, 18 spd, 46,000 kms, 4-way locks, 485,000 kms \$41,000. 780-206-1234, Barrhead, AB



2008 PETERBILT 386, 46K rears, 18 spd, 525 HP Cummins, Inframe, deleted, 1.5M kms, \$39,500. 780-206-1234, Barrhead, AB



2009 VOLVO 430, D16 535 HP 18 spd., 46,000 rears, 4-way locks, 290,000 kms, PTO, \$68,900. 780-206-1234, Barrhead, AB



BAILIFF ONLINE AUCTION, the following are up for bids: 2013 Western Star 4900 SF, 2012 Peterbilt 388, 2006 KW T300, 2005 Freightliner M2 Tandem van body with lift. For more information, email bailiffservices@sasktel.net. Saskatoon, SK.

VARIOUS
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2017 GMC 1 Ton Reg Cab & Chassis GAS *2 in stock!
6.0L V8, loaded, cloth, STK #H1868
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2017 GMC 1 Ton Crew Cab & Chassis DIESEL
6.6L V8, loaded, cloth, STK #H1890
MSRP \$71485
Cash Price \$66,213
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2017 GMC & Chev 1/2 ton Crew Leather *70 in stock!
5.3L V8, loaded, nav, heated leather, STK #H1866
MSRP \$57499
Cash Price \$45495
or \$284 b/w @ 0% 84 MO

2017 GMC & Chev 1/2 ton Crew Cloth *30 in stock!
5.3L V8, loaded, cloth, STK #H1905
MSRP \$48265
Cash Price \$37595
or \$236 b/w @ 0% 84 MO

2017 GMC & Chev 3/4 Ton Crew Diesels *15 in stock!
6.6L V8 Diesel, loaded, cloth, STK #H1989 MSRP \$76605
Cash Price \$66,695
or \$411 b/w @ 0% 84 MO

2017 GMC 3/4 ton Double Cab GAS
6.0L V8, loaded, cloth, STK #H1851
MSRP \$56965
Cash Price \$43195
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2009 GMC C8500 TANDEM GRAIN TRUCK
Isuzu Diesel 300 HP Allison Transmission
14+40 Axles Rubber Block Rear Suspension, Alum wheels A-C-T PW PL PM Air ride seat. CIM 20' Box and hoist w/Remote hoist and end gate. 12R22.5 Front and 11R22.5 Rear Tires, Red Cab & Red Box, 19,950km, stk#M7346A
\$95,395



2018 KENWORTH T440 TANDEM GRAIN TRUCK
Paccar 370HP PX-9 Allison Auto 14+20 Axles w/Rear Air Susp. Air Ride Cab, Fully loaded, Alum Wheels, Canade 20'x 8'-1/2' x 65" Grain Box w/Michels Remote Hoist, Tarp and Endgate Stk# M7323
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SEMI TRUCKS
1677

TWO 2007 IHC 9400, Cat 500, 18 spd., 46 rears and lockers, 51" sleepers; (2) 2009 Mack, 485 HP 18 spd., 46 rears and lockers, 51" sleeper; 2008 Freightliner, 515 HP 18 spd., 46 rears and lockers, wet line kit. Yellowhead Sales 306-783-2899, Yorkton.

KENWORTHS: 2007 T800 500 Cat 18 spd., 46 diff. lockers; 2009 T660, new pre-emission, 525 ISX, new 18 spd. and clutch, 46 diff., lockers; 2008 T800 daycab, 500 Cat, 18 spd., lockers, new clutch and trans; 2014 Western Star 4900, 46 diff. Detroit, 18 spd., 4-way locks; 2008 Freightliner Cascadia, daycab, Detroit 515, 18 spd., 3-way lockers; 2007 IH 9200 daycab, 450 ISX, 13 spd; 1996 T800, Cat, 13 spd., rebuilt trans., diffs and injectors; 2006 Pete 379, daycab, 500 Cat, 18 spd., lockers, new rebuilt eng., new clutch; 2005 Mack CH613, 18 spd., lockers, wet kit, 450,000 kms; 2- 1996 FLD 120 Freightliners, 425 Cat, 430 Detroit, lockers. Ron Brown Implements, Delisle, SK., 306-493-9393. DL 905231. www.rbisk.ca

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2015 INT. LONESTAR, 260,000 kms, 550 ISX Cummins, 46 rears, 3.90 ratio, 4-way lockers, much, much more, including 2.5 years warranty left. Reduced! \$139,000. More info. Dan 306-233-7488, Wakaw, SK.

2010 PETERBILT 388, safety up to date, TNT 4" pump, newer tires, new engine (2015 install), new trans and clutch (2016 install), \$65,000. 306-228-3251, Unity, SK.

ROOFING
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SEMI TRUCKS
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1986 KW W900 TA water truck, 3406 Cat, mechanical, 13 spd., air ride, certified, new 3" buoy pump. 780-753-2550, Provost

TOW TRUCK, 1993 F700, 10 spd., Vulcan towing unit (will separate). Pro Ag Sales, 306-441-2030 anytime North Battleford SK

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SMALL NH 278 square baler, worked when last used, sold as is. Serial #272864 \$1500. Call 306-759-2051, Brownlee, SK.

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JD 24T SQUARE baler, works well, mechanically sound, ideal for horse lovers, \$1500. 306-744-7955, Saltcoats, SK.

VERMEER 605M ROUND baler, monitor, kicker, new PU, good cond., field ready, \$12,000 OBO. 306-335-7875, Lemberg, SK

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HESSTON 1320, 9' disc mower, excellent cond., rubber on steel rolls, original owner, \$12,000. 780-914-6340. Lamont, AB.

SWATHERS 4145

2000 MF 220, 26' DS header, Schumacher dr., UII PU reel, exc. cond., c/w C1742 tractor, 111 HP 18.4-26 radials, 650 hrs., \$19,000. 780-853-4888, Vermilion, AB.

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

1998 35' WESTWARD 9300, 960 header, PU reel, turbo, big tires, \$29,500; 1995 30' MacDon Premier 2900, PU reel, 960 MacDon header, 21.5-16.1 tires, \$19,500; 1995 Case/IH 8820, 30' header, PU reel, 21.5-16.1 tires, \$17,500. All swathers in exc. cond. 306-861-4592, Fillmore, SK.

8100 HESSTON 30', DS, PU reel, new canvases guards & knife, field ready, \$18,500 OBO. 306-322-4755, Rose Valley, SK.

2000 8860 30' CASE/IH SP swather, low hrs, \$42,000; 2002 30'. A.E. Chicoin Farm Equipment, 306-449-2255, Storthoaks, SK

1982 VERSATILE 4400 SP 24' Dresser Waukesha 4 cyl., diesel, 2149 hrs, CAHR, 18.4x16.1 drive wheels, well maintained, shedded, 306-338-2927, Wadena, SK.

MACDON 205 SWATHWER 36', 410 hrs., mtd. roller, Roto-Shears, only cut canola, like new. Retiring. Harvey Linnen 780-838-7222, Raymore, SK.

SWATHERS 4145

2001 MACDON 9352, 30', double knife, 1225 hrs, JD AutoSteer ready, 972 header, \$50,000 OBO. 780-768-2306, Vegreville.

JD 435 HEADER 35', c/w double knife and double reel, good shape. 780-679-7795, Camrose, AB.

2002 PRAIRIE STAR 4940, w/972 25' header, PU reel, 21.5x16.5 tires, \$33,000. 780-679-7795, Camrose, AB.

1997 MACDON 2930, dual range, turbo, Cummins, 3141 hrs, 2001 972 header, 21', dbl. knife drive, triple delivery, gauge wheels, \$25,900. 403-597-3431, Clive, AB.

2012 JD D450 w/35' header, PU reel, mtd. roller, Roto-Shears, 550 hrs., exc., \$75,000 OBO. 306-297-7400, Shaunavon

1986 JD 2360 swather 30', diesel, 3504 hrs., new canvases last year, \$15,000. 306-843-7357, Battleford, SK.

CIH 721, 21' PT autofold swather, batt reels, always shedded, \$2150. 306-946-7923, Young, SK.

MASSEY FERGUSON 9420, shedded, 948 hrs., new guards and knife, GPS AutoSteer, \$50,000. Call 306-944-4520, Viscount, SK.

2010 JD 36' A400, single swath, 571 cut hrs, dbl. knife dr., HID's, underbelly death roller, AutoSteer ready (not installed), \$79,900, S/N 1E0A400XVAA360105. 306-237-4442, Areelee, SK.

NH HW325 SALVAGE cab, axle, engine, lots of good parts. Call 1-800-667-4515 or visit www.combineworld.com

CIH WD1203 SALVAGE, good cab, engine, hyd. parts and auto guide. Call 1-800-667-4515, www.combineworld.com

NEVER USED MF Hesston WR9735, 130 HP 30' UII, PU reel, fore/aft, axle suspension, \$99,000, 306-699-2442, McLean, SK.

CIH 8230 PT 30' batt reels, exc. cond. always shedded, \$3000; Swath roller, \$600. 306-675-4883, 306-331-7456, Lipton, SK

2002 WESTWARD 25', c/w side cutters and PU reel, 860 hrs., always shedded, \$45,000. 306-538-4687, Langbank, SK.

2014 CASE DH362 header 35', to fit CIH swather, like new, \$19,500. 306-861-4592, Fillmore, SK.

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Equal angle hitch, 8 foam filled tires, gauge wheels.

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1,400 bushels, 20" auger bullet, 2.3 minute unload time, 50R32 tires, 6" diameter spindles.

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12 wheel hay rake, 27' 8" working width, 30-50 HP range, 3564 lbs.

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SWATHERS

2013 MACDON M155 35' dual direction, D-65-D header, 501 eng. hrs., 401 swather hrs., Freeform roller, JD AutoSteer harness, mounting bracket and steering wheel, hyd. fore/aft, double canvass drive kit, double knife drive, split reel, next to new knife, HID lights and Beacons, plastic skid plates, guide wheels, triple delivery, hydraulic tilt, serviced and field ready, \$125,000. 306-338-8078, Quill Lake, SK.

CIH 6500 SR 21', MacDon PU reel, 2870 hrs., new wobble box, knife, canvas, \$10,500 OBO. 306-338-7603, Margo, SK.

2005 MACDON PREMIER 2940, 30', 972 harvest header w/Vern's belly-mounted hyd. swath roller, 1348 cutting hrs., 1715 eng. hrs., clean and nice shape, shedded, \$52,000. 306-743-7780, Langenburg, SK.

GRAIN BAG ZIPPER system: Seal your bags water and air tight. Call Stead Farm Supply, MB., 204-534-3236.

SWATHER ACCESSORIES

KOENDERS SWATH MOUNT crop roller, 9.5', poly ribbed drum, used very little, exc shedded, \$1800. 780-908-3441, Leduc AB

2014 CASE DH362 header 35', to fit CIH swather, like new, \$19,500. 306-861-4592, Fillmore, SK.

H/H VARIOUS

2016 NH DURAVEE 1225 Trailing Wheel Rake, used for two cuts of hay 100 ac., \$21,000. 403-793-5817, Duchess, AB.

RAKE-UP COMBINE PU, 8 belt, exc. cond., \$3500; 20' MacDon PU reel, \$2000; Swath roller, 7', \$500; Hydraulic Kleen-Cut crop divider, \$750. Pro Ag Sales, 306-441-2030 anytime North Battleford SK

NEW HOLLAND HW325 CAB, fits other CNH swathers, good condition. For more information call 1-800-667-4515 or visit: www.combineworld.com

COMBINES

CASE/IH

1996 CASE 2188, 4114 eng/3451 sep hrs., \$45,000; 1998 2388, 3411 eng./2783 sep. hrs., \$65,000. Both combines shedded. 403-815-7851, 403-650-6938, Indus, AB.

1982 INTERNATIONAL 1480, carefully operated and maintained, exc. cond., shedded, \$9000. 403-804-4737, Strathmore AB

CIH 2388, w/pickup header, performance motor, AFX rotor, straw chopper, recent work order, exc. cond., always shedded, \$47,000. 403-350-9088, Red Deer, AB.

CIH 1660, 3080 engine hours, 1015 PU header, good condition, \$10,000. Call 403-793-1204, Tilley, AB.

2011 9120, w/PU header, 2011 eng./1558 threshing hrs., 620 duals, field ready, \$210,000 OBO. 403-588-9497, Bashaw AB.

2011 CIH 8120, 1400 hrs., \$47,000 w/o 100 hrs. ago, 16' Swathmaster, field ready, \$149,000. 306-370-8010, Saskatoon, SK.

2006 CASE 2388, w/straight cut header, 2409 original hrs., new eng. 3 yrs. ago, currently serviced Dec./16. Have WO records, one owner, field ready, \$80,000 firm. Ph 306-861-1015, Weyburn, SK.

2012 CIH 8230, 1304/962 hrs., \$278,000. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2012 CIH 8230, 1301 eng. hrs., 868 rotor hrs., exc. cond., field ready, 780-872-8209, 306-823-4456, Neilburg, SK.

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CIH 8010 CAB complete, in good condition, \$13,800. Call 1-800-667-4515 or visit www.combineworld.com

1990 CIH 1680, all updates, vg cond, 4500 hrs., PU & PU header. Norm 306-857-2117, 306-867-3998, Strongfield, SK.

1985 IH 1460, approx. 4100 engine hrs., large tires on frt/rear, triple ram header lift, accelerator on std. IH rotor. Regular inspections, always shedded, no PU header, \$8500 OBO. 306-394-2119, Coderre, SK

1995 CASE/IH 2188 combine, 3044 reg. 3957 eng. hrs., 1015 header, Rake-Up PU, new drapers, chopper, Kirby spreader, pea concave, hopper extension, long auger, new parts, (feeder house drive and reverser), oil change, new batteries, excellent rubber, field ready and stored inside. Retired! \$34,500 OBO. Call 306-252-2810 or 306-567-7281, Kenaston, SK.

1997 CASE/IH 2188, 3000 sep. hrs., auto HHC, chopper plus ready cut chopper, hopper extension, very good tires, rock trap, long auger, 2015 Swathmaster PU header, excellent condition, \$29,500. 306-861-4592, Fillmore, SK.

2007 CASE/IH 7010, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1994 1688 CIH, with speciality rotor, hopper topper, 1015 PU, w/2002 30' 1042 draper header, pea auger, and lifters. \$35,000, Call 306-483-8323, Carnduff, SK.

2013 CASE 8230, duals, ext. auger, fine cut chopper, 640 sep. hrs, \$320,000. Take trade or financing. 306-563-8765, Canora

H/H VARIOUS

CATERPILLAR LEXION

2002 MACDON 872 ADAPTER for Cat Lexion and Claas, \$5500. 306-693-9847, Moose Jaw, SK.

2012 CLAAS 770, 1131/657 hrs., \$369,000. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2014 760TT, loaded 700/1000 hrs., \$325,000 Cdn OBO; 2014 760, 600/900 hrs., RWA duals, exc. cond., \$285,000 Cdn OBO; 2011 750, 900/1400 hrs., duals exc. cond., \$189,500 Cdn OBO; 2010 560R, only 500 sep. hrs., exc. cond., field ready, \$159,500 Cdn OBO; 2006 590R, 1800/2900 hrs., loaded, duals, RWA, \$99,500 Cdn OBO; 2013 MacDon FD75, 35' flex draper, exc. cond., \$65,500 Cdn OBO. Delivery available. 218-779-1710.

2005 CR960, 2600 hrs., c/w PU header and Swathmaster, \$34,000 w/o, field ready, \$74,000. 403-749-2373 Lousana AB

NH TR99, SWATHMASTER pickup, factory duals, Redekop MAV chopper, all options, shedded, field ready, \$43,500. 403-350-9088, Delburne, AB.

NH CR970, 3532 eng. hrs., 2427 sep. hrs., w/PU & straight cut headers, field ready, new parts list available, \$130,000. Neerlandia, AB. 780-206-7772, 780-206-2226.

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2003 CR960, 2600 hrs., c/w PU header and Swathmaster, \$34,000 w/o, field ready, \$74,000. 403-749-2373 Lousana AB

NH TR99, SWATHMASTER pickup, factory duals, Redekop MAV chopper, all options, shedded, field ready, \$43,500. 403-350-9088, Delburne, AB.

NH CR970, 3532 eng. hrs., 2427 sep. hrs., w/PU & straight cut headers, field ready, new parts list available, \$130,000. Neerlandia, AB. 780-206-7772, 780-206-2226.



2017 NH CR9.90 elevation, UNUSED! 2012 NH CR9090, 860 sep. hrs., vg condition. Both have duals, leather, well equipped. Call 780-878-1479, Camrose AB.

2009 NH 9070, 1793/1474 hrs, IntelliView II display, Y&M, remote sieve adjust, elec. stonetrapp, duals, diff. lock, long auger, PSD, deluxe chopper, chaff spreader, c/w 76-C 14' Swathmaster PU plus 2003 NH 94-C 36' draper header, fore/aft, split PU reel, single knife drive, gauge wheels, transport, all stored inside, \$180,000 OBO. Call 780-608-9290, Strome, AB.

TR85 HYDRO, always shedded, 2500 hrs., near new rubber, \$7900. Pro Ag Sales, 306-441-2030 anytime North Battleford SK

NH TR85, 3208 engine, used for peas, c/w 222 JD flex header, PU header, \$5000. Call 306-380-2541, Saskatoon, SK.

2010 NH CR9090E, 1187/1703 hrs., \$269,000. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2014 NH CR9090, 476/650 hrs., \$420,000. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2015 NH CR10.90, 272 hrs., \$589,500. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2011 NH CX8080, 1438/1030 hrs., \$238,000. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2008 NH CR9070, 2251/1583 hrs., \$169,500. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

1997 NH TR96, Cat V8 eng., 3882 eng. hrs., 2892 threshing hrs., newer rub bars, concaves, good 30.5x32 tires, new chaffer \$9000; 1998 NH TR98, Ford six cyl., 3721 eng. hrs., 2547 sep. hrs., good 30.5x32 tires, Redekop chopper, Rake-Up PU, \$20,000; 30' NH 94C header, TR adaptors, lifters, \$18,500. 306-932-4452, Plenty, SK.

LIKE NEW 2014 CR8090, loaded, only 300 sep. hrs., \$299,000 Cdn OBO. Call 218-779-1710. Delivery available.

GLENER

R-7 GLENER w/30' straight cut header, two 14' PU headers w/PU's, exc cond, asking \$12,000. 306-944-4520, Viscout, SK

GLENER S77 SALVAGE, duals, pickup and many good low hour parts still available. Call us now! 1-800-667-4515 or visit: www.combineworld.com

GLENER M3 HYDRO., approx. 2500 eng. hrs. good conditions. Call for details, 306-257-3578, Allan, SK.

1985 GLENER N7; 1984 Gleaner N7 and 1984 Gleaner N6. All 3 combine are in excellent field ready condition. Phone 306-675-4419, Ituna, SK.

JOHN DEERE

JD 9650 STS c/w 914P PU, 1893 hrs., new teeth & belt on PU, long unload auger, field ready, shedded, Sunnybrook sectional concaves, Greenstar monitor, photos on Farmzilla. \$64,500 OBO. Call/text Trent 403-934-8765, Standard, AB.

1995 JD 9600, 3900 sep. hrs., asking \$30,000; 1997 JD CTS, 2380 sep. hrs., asking \$35,000. Both w/914 PU, Greenlighted, hopper topper & chaff spreader; 930 straight cut headers also available. 780-926-1505, La Crete, AB.

2008 JD 9870, 2700/1800 hrs., c/w PU, 800 Firestone tires, shedded, \$160,000. 780-679-7795, Camrose, AB.

H/H VARIOUS

JOHN DEERE

2001 JD 9650 STS, 914P PU, 865R32 tires, Cray big top, 2315 sep. hrs, 3300 eng. hrs, shedded. 780-877-2513, Ferintosh, AB

2000 JD 9750, 914 PU header, 2129 sep. hrs., 20.8/38 Firestone duals, new sieve and chaffer in 2016, newer pickup belts, always shedded, exc. cond., \$88,000. 780-679-7839, Ferintosh, AB.

2013 JD S680, 933/653 hrs., \$387,000. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2011 JD T670, 833 hrs., \$239,500. Novlan Bros, Paradise Hill, SK, 306-344-4448 or 877-344-4433, www.novlanbros.com

2- JD 8820 combines, one w/new motor, one has been shedded, both field ready. 780-205-8100 leave msg., Lashburn, SK.

2008 JD 9770 STS, Greenlighted, Powercast tailboard, shedded, high capacity lift cyl., 38" duals, fully loaded, \$195,000 OBO. Call 306-463-8774, Kindersley, SK.

2003 9650 STS, duals, hopper and auger extension, 914 PU, 930 flex header, Cray air bar, 2015 Arc Fab trailer, 30' HoneyBee batt reel, pea auger, 3357 engine hours, 2537 separator hours, \$115,000. Call 306-962-4413, Eston, SK.

1986 JD 8820 Titan II combine w/PU header, \$12,000. Good cond., field ready. 306-493-2762, 306-493-7324, Delisle, SK.

2002 JD STS, 914 PU header, 2938 threshing hrs, 4329 eng. hrs, good tires, Redekop fine cut chopper, long unloading auger, Howard Concave, one season on new elements, \$25,000 Greenlighted one last winter, \$67,500. 306-843-8223 (msg), Landis.

2013 JD S690, 730 sep. hrs., 615 PU header, 520x42 duals, powercast tailboard, Pro-Drive, power fold hopper ext., \$15,000 w/o, \$319,000. 306-948-7223, Biggar, SK.

JD FINAL DRIVES: Used and rebuilt for 9400-9610, CTS & STS. Sold w/warranty. 1-800-667-4515, www.combineworld.com

2009 JD 9670, loaded, w/PU header, 1500 hours, shedded, \$151,000. 306-625-7939, Kincaid, SK.

1997 JD 9400, 2114 eng. hrs., 1626 sep. hrs., ext. range cyl. drive, Y&M, long auger, new: PU belts, feeder chain, rub bars and concave, straw chopper, spreader, 914 PU, exc. cond., \$50,000. Call Dave Klein, 306-957-4312, 306-695-7794, Odessa, SK.

1994 JD 9600, 4890 separator hrs., 3470 eng. hrs., 150 hrs. since Greenlighted. 914 PU header, topper hopper, chaff spreader, ideal for baling straw, field ready, always shedded. No longer farming, \$30,000. Call 306-567-2978, Davidson, SK.

STRAW WALKER COMBINE, ideal for baling: 2006 JD 9660 WTS, 914 PU, duals, 2300/1550 hrs., \$132,500. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

JD 7721 PT Titan II, very little acres last in five years, needs a gearbox, shedded, open to offers. 306-577-7164, Kisbey, SK.

2 JD 9650 WALKER combines, 1 purchased new in 2003, 2237 sep. hrs., low acres in last 4 years, always shedded. Purchased 5 years ago (2002 yr.), 3423 sep. hrs., large work order at time of purchase, new eng., major Greenlight. Low hrs. on major work order. Both machines field ready. Retiring Harvey Linnen 780-838-7222, Raymore SK

2000 JD 9750-ST5, 2980 separator hrs., 3966 engine hrs., w/dual wheel kit, \$60,000. 306-896-2311, Langenburg, SK.

1990 JD 9600, 3711 separator hrs., always shedded, field ready. 306-327-4890, 306-327-7422, Kelvington, SK.

2011 9870, loaded w/options, only 700 sep. hrs., \$219,000 Cdn OBO; 2010 9770, loaded w/options, only 690 sep. hrs., \$215,000 Cdn OBO. Both excellent & only used on small grains. Call 218-779-1710.

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Harvest Screen

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Investing in a Harvest Screen® will give you a quick return on investment.

MASSEY FERGUSON

1999 MF 8680, 1750 sep. hrs., c/w 30' straight cut header, PU header. Call 403-580-0155, Medicine Hat, AB.

MASSEY 750, PERKINS dsl., c/w Melroe PU header, straw chopper, recent concave and rub bars, good condition, \$1900. Call Frank 306-463-2407, Kindersley, SK.

1987 MF 8560, rotary, 4077 hours, PU header, straw and chaff spreaders, runs well, \$8000. 306-831-8757, Elrose, SK.

H/H VARIOUS

MASSEY FERGUSON

1983 MF 850 combine, shedded, 354 diesel, 6 cylinder, 388 Melroe PU, vg cond., hydro, 306-367-2043, Middle Lake, SK.

1975 MF 750 SP diesel combine, chaff spreader, straw chopper, PU, shedded, exc. shape. 306-549-4701, Hafford, SK.

2013 CHALLENGER 560C (Massey 8560) fully loaded, 587 sep. hrs., c/w PU header, duals. Retired, mint unit. \$320,000 OBO. 306-345-2039, Pense, SK.

MF 9790, w/4000 header, Swathmaster PU, 2953 eng. hrs., 2080 sep. hrs., S/N 9790HM36152. 306-736-2850, Kipling, SK.

VARIOUS

COMBINE ACCESSORIES

2013 LS MTRON P7040C, FWA w/FEL, 40 gear shuttle shift trans., 3 PTH, PTO, 78" QA bucket, \$55,000 OBO. Call Bill 780-482-5273, Edmonton, AB.

CHOICE OF TWO Honey Bee ST 30' draper headers, JD STS adaptors, PU reels, vg cond., field ready; Also straight header transport, vg cond. 780-221-3980, Leduc.

NH 971 16' Pickup Header, unused (new), perfect for double swath combining, \$6500. 403-350-9088, Delburne, AB.

CASE 2015 PICKUP Header, c/w rake-up pickup, very good condition, \$7500 OBO. 403-350-9088, Delburne, AB.

2012 MACDON 2152 45' header, always shedded, low acres, hyd. fore/aft, hyd. tilt, PU reel, double knife drive, 4 available, \$40,000 each. 403-647-7391, Foremost AB

2004 HONEYBEE 35', U2 PU reel, pea augers, fits CIH 8010 combine, good cond., \$16,500. 780-841-8778, La Crete, AB.

THREE 930R JD straight cut hdrs, 1 w/PU, asking \$9000; 2 w/batt reels, \$5000 & \$4000. Call 780-926-1505, La Crete, AB.

CAUSE 1010 25' HEADER, batt reel, fore/aft, \$3900. Call 780-608-9024, Tofield, AB.

ELMER'S PT30 header transport, like new excellent rubber, \$3000 + GST firm. 780-914-6340, Lamont, AB.

2002 CASE/IH 1042 (962), 30', PU reel, hydraulic fore/aft., 2388 adapter, \$18,000 OBO. 306-240-6787, Meadow Lake, SK.

2009 JD 615 PU header, 15'W, used very little, always shedded. Open to offers. 306-741-2649, 306-626-3236, Pennant, SK

2010 MACDON FD70, 45', \$69,000. Novlan Bros, Paradise Hill, SK., 306-344-4448 or 877-344-4433, www.novlanbros.com

RECONDITIONED rigid and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK www.straightcutheaders.com

FLAMAN HEADER TRAILER, dbl. wide, will haul 24 -30' headers, elec. brakes, springs, 4000 OBO. 306-843-7021 Cando SK

PEA AUGERS for MacDon and Honeybee, 35', \$4950; 40', \$4550. 1-800-667-4515, www.combineworld.com

2004 MACDON 973 30', JD adaptor, always shedded, low acres, excellent condition, 306-476-7542, Rockglen, SK.

2009 MACDON FD70, 35', \$45,000; 36' Honey Bee, \$31,000. Both shedded, w/JD adaptors. 306-625-7939, Kincaid, SK.

2011 JD 635 flex platform, hydra flex 35', poly skids, single point hookup, Cray air reel system, field ready, \$33,000; 2010 JD 635 flex platform, hydra flex, single point hookup, Cray air bar system, field ready, \$31,000. Gerald or Glenn Walkeden, 306-861-6849, 306-861-7782, Tribune, SK

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, \$16,000; 2000 36' 1042 Case/IH, PU reel, Case adapter, \$14,000; 2010 40' 2152 CIH, 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. A.E. Chicoine Farm Equip 306-449-2

AIR DRILLS

4250

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.

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

2010 CASE/IH ATX700 70', rubber packers, high float tires, double shoot, Stk: 020407, \$94,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

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.

2013 SEED HAWK 60-12 60', twin wing, semi pneumatic packer, DD, SH 800 TBI, Stk 017840, \$335,000. Prince Albert, SK, 1-888-905-7010. redheadequipment.ca

2009 SEED HAWK 66-12 66', 12" sp., single knife, pneum. pkrs, 30.8 rear tires, Stk: 021475, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2010 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

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 CASE/IH ATX700 70', rubber packers, high float tires, double shoot, Stk: 020407, \$94,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

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.

2010 SEED HAWK 60' Toolbar, 12" sp., w/Seed Hawk 400 cart, 2 fans, seed & fertilizer distributing kit auger. Also NH kit & winch \$170,000. 306-449-2255, A.E. Chicoine Farm Equipment Ltd., Storthoaks SK.

2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$140,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1997 Morris Maxim 40', \$13,900. Please visit www.raymorenewholland.com or call 306-746-2911.

TILLAGE EQUIPMENT

4262

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.kellooughs.com Call: 1-888-500-2646.

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.

FLEXI-COIL 820-35' deep tillage cultivator, spikes, 12" spacing, 4-bar harrows, exc. cond., \$21,000. 403-588-9520, Red Deer.

2012 KELLO-BILT SINGLE Offset Disc Model 225-2726, 12', only used approx. 120 ac., \$18,500. 403-793-5817, Duchess AB.

JOHN DEERE 1600 cultivator, 16' with mounted harrows. Phone 780-362-2445, Kinsella, AB.

JD 1650 DT 51' Cultivator, c/w Valmar 2420, \$3000+ on tires, hyd. rams, bearings, etc., 3-bar Degelman harrows. \$25,000. 306-493-7871, Harris, SK.

COMPLETE SHANK ASSEMBLIES: JD 1610, Morris Magnum, \$135; JD 610, Morris Magnum II, \$185. 306-946-7923, Young, SK.

JD 610, 40' floating hitch cultivator, \$7150; Morris Magnum 45' cultivator, \$5650. 306-946-7923, Young, SK.

TILLAGE/SEEDING VARIOUS

4265

SALFORD VERTICAL TILL Model 2141, 2014, 22" coulters, c/w new set of coulters and hardware, mud guards on basket frames, field ready, pics available. Contact Gregoire Seed Farms Ltd, North Battleford, SK., 306-441-7851, 306-445-5516.

TRACTORS

ALLIS/DEUTZ

4277

1979 DEUTZ D13006 with Ezee On front end loader, 7000 hrs., \$6500. Call 403-882-2406, Castor, AB.

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 150, FWA, GPS, etc. Ph Dave 403-556-3992, Olds, AB.

MOREY MYTREON FARM Auction, Saturday, September 16th 2017 in Airdrie, AB. Featuring: CIH 7110 dsl. tractor, w/3360 hrs.; MH 555 Antique Tractor. Contact Bill Morrison Auctions, 360-961-7428.

IHC 5488 TRACTOR, new dual tires, low hours, 189 HP excellent condition. 403-823-1894, Drumheller, AB.

IHC 756, REBUILT motor, always shedded, excellent condition, FEL also available. 403-823-1894, Drumheller, AB.

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

JOHN DEERE

4295

2000 JD 7810, FWA, Powershift, c/w 360H loader, GPS, new tires, \$65,500. Call Henry 403-588-0958, Alex, AB.

1977 JD 4430 w/606 PT mower behind, very low hrs., always shedded, excellent condition. 306-717-2971, Saskatoon, SK.

WHOLESALE PRICES ON JD Tractors. 2014 8245R, FWA, duals, 2 yr. factory warranty left, very good cond., possible trades. \$149,000 Cdn; 2012 9460R, 4 WD, duals, vg cond., \$230,000 Cdn. For more info. ph Neil 306-231-8300, Humboldt, SK.

2007 9620 W/PTO, 4060 hrs., leather, 800 tires, 48 gal/min, dozer to sit avail., \$189,000, 306-948-7223, Biggar, SK.

JOHN DEERE

4295

1995 JD 8100, MFWD, 840 loader, powershift, new tires, 9043 hrs., exc. cond., \$76,000. 306-472-7704, Woodrow, SK.

2009 JOHN DEERE 9430, 4WD, 425 HP 24 spd., 4 hyd., 710/70R42 duals, 4255 hrs., original owner, nice condition, asking \$185,000. 306-725-4286, Bulvey, SK.

NEW MANDAKO CATEGORY II 3 PTH for JD 7000 Series tractors, still in crate, \$2600. 306-744-7955, Saltcoats, SK.

JD 7330 FWA, 5542 hrs., w/JD 741 SL loader w/grapple and snow bucket. Loader never used. Tractor was not used for farming - used for pulling tires on ice road construction. Tractor in above avg. cond., very clean unit, shedded in summer. Retiring. Harvey Linnen 780-838-7222 Raymore, SK.

2012 JD 9460R, full load, 1600 hrs., 2600 screen, PTO, great for grain cart, very clean field ready. Retiring. Harvey Linnen 780-838-7222, Raymore, SK.

2010 JD 9630, 530 HP Michelin 800/70R38 tires, JD AutoSteer, \$239,000. 306-563-8765, Canora, SK.

MASSEY FERGUSON

4301

2006 MF 1528 4 WD, hydrostatic trans., c/w MF 1520 loader, 60" bucket, 258 orig. hrs., asking \$14,995. Call 780-739-8084, 780-554-4736, Leduc, AB.

MF 1105 TRACTOR, works well, tires ok, great auger tractor, \$4500. 306-233-7305, Cudworth, SK.

NEW HOLLAND

4304

2014 NH TV6070 Bidirectional, PTO, hyd. both ends, loader and grapple, 3PTH, mirrors, HID lights, big hyd. pump ready, 600 hrs., \$150,000. 406-556-3992, Olds, AB.

2003 NH TJ450 w/full PS, 4700 hrs., mega flow hyd. 103 gal/min., 900 metric duals, \$119,000. 306-948-7223, Biggar, SK.

FORD

4307

1979 FORD 6700, CAHR, w/90 HL Ezee On high lift loader, runs excellent, \$12,500. 306-238-4590, Goodsoil, SK.

FORD TW25, FWA, 6000 hrs., w/894 Allied loader, grapple, \$19,500. 306-640-8034, 306-266-2010 Glen, Wood Mountain, SK.

VARIOUS TRACTORS

4319

GRATTON COULEE AGRI PARTS LTD. Your #1 place to purchase late model combine and tractor parts. Used, new and rebuilt. www.gcparts.com Toll free 888-327-6767.

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MISCELLANEOUS

4325

RETIRED: NH TR98, TR96; Vers. 876 PTO; Steiger Panther; Case 4494; Trucks, trailers, and other machinery. 403-594-0220.

ACREAGE EQUIPMENT: 3-PT. CULTIVATORS, Discs, Plows, Blades, Etc. 780-892-3092, Wabamun, AB.

AGCO 5100 HEADER 36' w/MH 9895 adapter, low hrs. with outside wheels and gauge. Wheels and Hart Carter PU reels, shedded; AgCo 5100 36' header w/MH 9895 adapter, UII PU reels, gauge wheels, shedded, low hrs; AgCo 5000 36', UII PU header, double reel, fits White or MH 9700, 9720, MF 8570 and 8590, low hrs; Alteen 24' wing disc w/22.5" blades, 2" diameter, gang shaft, good rubber; Prairie Star 30' PT swather with PU reel, near new belts, canvases and knife; NH 900 Forage Harvester, metal detector with Jiffy Hydra lift. 403-552-2122, Altario, AB.

RETIRED: 2012 JD T-670 combine, 330 cyl hrs., 2013 JD 635 flex header, \$300,000; 2005 JD 4720 SP sprayer, 90', 1300 hrs., \$145,000; 2014 Farm King 13x70 auger swing away, PTO, \$20,000. 306-869-7141, 306-789-9992, Beaubier SK

WANTED: JD 9600 or 9610 or ?; 25' Flex Header; 1957 Fairlane 500. Call 306-304-1959, Goodsoil, SK.

NH CHAIN BALER, \$2500; Neuero grain vac, \$3000; 34' factory drill mover, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. 306-304-1959 Goodsoil, SK

FARM LIQUIDATION: Antiques (carts, tractors, trucks); Augers; Combines; Cultivators; Diskers; Fencing posts; 1/2 ton trucks; Harrow/packer hitch; Haying equipment; Grain trucks; Rock picker; Rodweeder; Seed drills; Swather; Other smaller items. Truax, SK. For complete list, pics & pricing e-mail: p.tice@hotmail.ca

ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Strawmaster, rockpickers, protil, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

FLAX STRAW BUNCHER and land levelers. Building now. Place orders and don't delay! 306-957-4279, Odessa, SK.

WANTED

4328

WANTED: USED, BURNED, old or ugly tractors. Newer models tool Smith's Tractor Wrecking, 1-888-676-4847.

WANTED

4328

MF #36 DISCERS. Will pay top dollar and pick from anywhere. Phone Mike 306-723-4875, Cupar, SK.

WANTED: NH BALE WAGONS & retrievers, any condition. Farm Equipment Finding Service, PO. Box 1363, Polson, MT 59860. 406-883-2118.

FENCING

4400

ONE TIME FENCING, sucker rod fence posts (solid steel), steel corners for sale. www.onetimefencing.ca 1-877-542-4979.

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

GUARANTEED PRESSURE TREATED fence posts, lumber slabs and rails. Call Lehner Wood Preservers Ltd., ask for Ron 306-763-4232, Prince Albert, SK.



16' PEELED RAILS, SPECIAL 2-3" \$3 ea., 125' bundle; 3-4" \$9.25 ea, 100' bundle. Vermette Wood Preservers, Spruce Home, SK., 1-800-667-0094. info@vwpltd.com

SOLIDLOCK AND TREE ISLAND game wire and all accessories for installation. Heights from 26" to 120". Ideal for elk, deer, bison, sheep, swine, cattle, etc. Tom Jensen ph/fax: 306-426-2305, Smeaton, SK.

FIREWOOD

4473

BLOCKED SEASONED JACK Pine firewood and wood chips for sale. Lehner Wood Preservers Ltd. 306-763-4232, Prince Albert, SK. Will deliver. Self-unloading trailer.

SEASONED SPRUCE SLAB firewood, one cord bundles, \$99, half cord bundles, \$65. Volume discounts, September Clearance Special - Buy 2 get 1 free! Call V&R Sawing, 306-232-5488, Rosthern, SK.



BLOCKED AND SEASONED FIREWOOD: \$180 per 160 ft. cord; bags \$80 (incl. refundable deposit for bag). Bundles of 4'-5' or 6.5' also avail. Vermette Wood Preservers 1-800-667-0094, Spruce Home, SK.

GENERATORS

4225

2011 MAGNUM MMG55FH, 45KVA, 240 volts, 3 phase, 60HZ, self-contained, \$15,000; 2004 Wacker G50, JD, 480 volt, 3 phase, 60HZ, self-contained, \$11,000; Ex-Government Standby Units: 1981 Condec Lima 800KW, 16V92 Detroit, 1000KVA, 3 phase, 60HZ, \$25,000; 1981 Brown Boveri 500KW, 16V92 Detroit, 625KVA, 3 phase, 60HZ, \$20,000; 1988 New Age 400KW, 12V92 Detroit, 500KVA, 3 phase, 60HZ, \$15,000. Can-Am Truck Export Ltd, 1-800-938-3323, Delisle, SK.

We know that farming is enough of a gamble so if you want to sell it fast place your ad in the Alberta Farmer Express classifieds. It's a Sure Thing. Call our toll-free number today. We have friendly staff ready to help. 1-800-667-7770.

HEATING/AIR CONDITIONING

4850

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MISCELLANEOUS

4325

ALBERTA TEXAS LONGHORN Association 780-387-4874, Leduc, AB. For more info. www.albertatexaslonghorn.com

WELSH BLACK

5235

WELSH BLACK- The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Cattle Soc. 403-442-4372.

CATTLE VARIOUS

5240

100 THIRD TO FIFTH Black Angus cow/calf pairs. 306-773-1049, 306-741-6513, Swift Current, SK.

300 RED AND BLACK Angus 1250 lbs. heifers with calves. Call 306-773-1049, 306-741-6513, Swift Current, SK.

HERD DISPERSAL: 70 Black Angus cross pairs and 70 mixed pairs. Full herd health program. Pasture available. \$2800 per pair firm. Call 306-335-7875, Lemberg, SK.

CATTLE WANTED

5245

WANTED: CULL COWS and bulls. For bookings call Kelly at Drake Meat Processors, 306-363-2117 ext. 111, Drake, SK.

CATTLE WANTED FOR custom grazing and winter feeding. Call 306-542-3333, Kam-sack, SK.

Farming is enough of a gamble, advertise in the Alberta Farmer Express classified section. It's a sure thing. 1-800-667-7770.

AUCTION SALES

5305

HORSE SALE, Johnstone Auction Mart, Moose Jaw, SK. Thursday September 7th, 2017. Tack sells at 2:00 PM. Horses sell at 4:30 PM. All classes of horses accepted. Next Regular Horse Sale - October 5th, 2017. Call 306-693-4715. PL# 914447. www.johnstoneauction.ca

Outback GPS Systems, E-Kay Custom Augers, Mowers, Clutches, Bin Sweeps & Crop Dividers, Kohler, Robin Subaru & Genmar Engines, Headlight Harvesting Solutions, Greentronics Sprayer Auto Boom Height, Kello-Bilt Discs

IRON/STEEL

4960

2-7/8" OILFIELD TUBING, \$40 each; 3/4" sucker rods, \$6 each. Truckload quantities only. Call 306-861-1280, Weyburn, SK.

DRILL STEM: 200 3-1/2", \$45/ea; 400 2-3/8", \$34/ea; 1000 2-7/8", \$36/ea. 306-768-8555, Carrot River, SK.

IRRIGATION EQUIPMENT

4980

Used pumping motors, PTO carts, 6" - 10" alum. pipe. Call Dennis to discuss your needs! 403-308-1400, Taber, AB.

WESTERN IRRIGATION: CADMAN Dealer. We BUY and SELL traveling guns, pumps, pipes, etc.; 1 Cadman 4000S wide body big gun, like new; Selling used pipe trailers & 10" pipe; Also EcoSmart water purification systems, no salt, no chemicals. Phone 306-867-9461 or 306-867-7037, Outlook, SK. E-mail: deraldreg@hotmail.com

LAWN/GARDEN

4988



1981 ALLIS CHALMERS H/D 5020 garden tractor, engine S-126, 2 cylinder diesel, 4 spd. trans., Woods L-55 cutting deck attached under tractor, \$5000 OBO. Call Bill 780-482-5273, Edmonton, AB.

NURSERY/GARDENING SUPPLIES

4990



SPRUCE FOR SALE!! Beautiful locally grown trees. Plan ahead and renew your shelterbelt or landscape a new yardsite, get the year round protection you need. We sell on farm near Didsbury, AB. or deliver anywhere in Western Canada. 6 - 12' spruce available. Now taking fall orders while supplies last. Phone 403-586-8733 or visit: www.didsburysprucefarms.com

SHAVINGS: BULK PRICING and delivery available. Vermette Wood Preservers, Spruce Home, SK. 1-800-667-0094. Email info@vwpltd.com View www.vwpltd.com

RED ANGUS

5015

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

SOUTH VIEW RANCH has Red and Black Angus yearling and 2 yr old bulls. Ceylon, SK. Phone Shane 306-869-8074, Keith 306-454-2730.

CHAROLAIS

5055

COMING 2 YR. old polled PB Charolais bulls, come red factor. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

DEXTER

5065

OLDER DEXTER COWS, bred Speckle Park, due Apr; Speckle Park/Dexter cross 2 year bull. 403-845-5763, Rocky Mtn. House, AB

HIGHLAND

5100

FRESH AND SPRINGING heifers for sale. Cows and quota needed. We buy all classes of slaughter cattle-beef and dairy. R&F Livestock Inc. Bryce Fisher, Warman, SK. Phone 306-239-2298, cell 306-221-2620.

LOWLINE

5118

BIG ISLAND LOWLINES Premier Breeder. Selling custom designed packages. Name your price and we will put a package together for you. Fullblood/percentage Lowline, embryos, semen. Black/Red carrier. Darrell 780-486-7553, Edmonton, AB.

SALERS

5185

PB BULL and HEIFER calves for sale in Oct. w/w papers, \$1900. Art or Betty, Drayton Valley, AB., 780-542-5782, 780-621-6407

POLLED PB THICK Butt Salers yearling bulls, exc. disposition, tested. Also replacement heifers. DynaRich Salers. Richard Andersen, 403-746-2919, Eckville, AB.

LIVESTOCK EQUIPMENT
5290

FREESTANDING CORRAL PANELS for cattle, horses, bison and sheep. Bale feeders; Belted feed troughs; 10' panels; Wind-break frames; Swinging gates; Framed gates; Panels with gates mounted; Round pen kits starting at \$1495; Palpatation chute. Deal of the year - Freestanding 21' for \$219! Call 1-844-500-5341, www.affordablelivestockequipment.com

GREG'S WELDING: Freestanding 30' 5 bar panels, all 2-7/8" drill stem construction, \$450; 24"x5.5" panels, 2-7/8" pipe w/5-1" sucker rods, \$340; 24"x6" panels, 2-7/8" pipe with 6-1" rods, \$365; 30' 2 or 3 bar windbreak panels c/w lumber. Gates and double hinges avail. on all panels. Belting troughs for grain or silage. Carlf shelters. Del. avail. 306-768-8555, Carrot River, SK.

MISC. ARTICLES
5850

LINDEN POST POUNDER, 540 PTO, \$750. Call 306-567-3128, Bladworth, SK.

CERTIFICATION SERVICES
5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agriologist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or info@pro-cert.org

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GRAINS
5947

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

Bioriginal

Bioriginal Food & Science Corp. is actively purchasing:

- Organic Flax Seed
- Organic Hemp Seed and;
- Borage Seed

(from the 2016 crop year)

We are also contracting for the upcoming growing season.

For more information please contact: Sandy Jolicoeur at (306) 975-9251 or email crops@bioriginal.com



REAL ESTATE

B.C. PROPERTIES
6110

4500 SQUARE FOOT house on 11 acres in Crawford Bay, BC. Call for more information 250-227-9696.

CONDOS/TOWN HOUSES
6120

IMMACULATE & BRIGHT Top Floor Corner Condo, built in 2005, 1272 sq. ft., 2 bdrm + den, 2 bath, wrap around balcony, underground parking and car wash, will sell furnished or unfurnished, \$330,000. 306-491-0901, Wildwood - Saskatoon, SK.

COTTAGE/LOTS
6125

NEED a back yard retreat? We have tiny pre-built log cabins ready to be loaded onto your trailer. Plug and play models! Also log cabin logs and log siding. Call Rouck Bros., Lumby, BC., 1-800-960-3388 or visit: www.rouckbros.com

RESIDENTIAL LOT, ELBOW, SK for sale. Lot 7, Blk 2, Plan 88MJ16836, 125 Putters Lane. One block from golf course. 24.5 Meter frontage. Serviced by town. Will consider trade of RV, boat, truck, car, etc. \$29,500. Call Gerry 403-389-4858.

HOUSES/LOTS
6126

LOG AND TIMBER HOMES, Saskatoon, SK. Visit www.backcountryloghomes.ca or call 306-222-6558.

TIMBER FRAMES, LOG STRUCTURES and Vertical Log Cabins. Log home refinishing and chinking. Certified Log Builder with 38 years experience. Log & Timber Works, Delisle, SK., 306-717-5161, Email info@logandtimberworks.com Website at www.logandtimberworks.com

MOBILE HOMES
6127

SELLING

WWW.MEDALLION-HOMES.CA modular homes/lake houses/RTM's. Visit our sales lot, or check online for stock, homes and all other plans. Factory direct orders build to your specs! Trade-ins welcome, buy and sell used homes. Hwy 2 South, Prince Albert, SK. Call 306-764-2121 or toll free 1-800-249-3969.

YELLOWMODULAR HOMES SALES, Canadian built by Moduline. Elite price event on now: 960 sq. ft., 2 bdrm, 2 bath, \$79,900; 1216 sq. ft., 3 bdrm, 2 bath, \$89,900; 1520 sq. ft., 3 or 4 bdrm, 2 bath, \$109,900. 306-496-7538, weekend calls. www.yellowmodularhomesales.ca

READY TO MOVE
6128

HOME HARDWARE RTM Homes and Cottages. Phone 1-800-663-3350 or go online for floor plans and specs at: www.northbattledfordhomehardware.com



J&H HOMES: Western Canada's most trusted RTM Home Builder since 1969. 306-652-5322, view at: www.jhhomes.com

RTMS AND SITE built homes. Call 1-866-933-9595, or go online for pictures and pricing at: www.warmanhomes.ca

RECREATION PROPERTY
6130

PARK MODEL for sale, friendly smaller park in Yuma, AZ. Includes Arizona room, carport, fully furnished, 2 pools, rec hall. Call 780-467-1915, Sherwood Park, AB.

FARM & RANCHES

BRITISH COLUMBIA
6131

1405 ACRED DEEP CREEK RANCH, located SE of Vanderhoof, being sold 'as is' including full line of equipment, furnished home and shop, Crown grazing license. Great cow/calf operation, \$1,295,000. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert, 250-983-3372 bkganholm@xplornet.com

MARGUERITE RANCH (QUESNEL) 26 titles, 3095 acres deeded, 450+ cow/calf operation. Irrigated, 58,000 acre range, 3 home sites, \$4.99M. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert. More info and other listings: 250-983-3372 bkganholm@xplornet.com

ALBERTA
6132

QUARTER SECTION FARMLAND For Sale: SW-21-83-6-W6. 14 miles west and south of Hines Creek, AB. Approx. 125 acres in crop, 10 acres tame pasture. Vacant yard site, barn, and power. Immediate possession. If interested, call 780-494-2130.

1 QUARTER OF LAND, half treed, half hay/pasture land. 17 miles North of Rimbey, AB. Call for more info. 403-843-2889.

SASKATCHEWAN
6133

RM BENSON #35: For rent or crop share 80 acres hayland, brome/alfalfa mix for baling. For information call 306-931-6660.

DWEIN TRASK REALTY INC. Langham south NW-32-38-07-W3 2017 FMV assess \$123,100 on Struan Grid \$264,900; Langham Cree Pee grid E 1/2 06-39-08-W3 2017 assess. \$299,600 level flat and relatively stone free \$799,900. Call Dwein for details 306-221-1035, Saskatoon, SK.

TOM@SASKFARMLAND.COM Borden 27 acre hobby farm. 2008 1440 sq. ft. home. ICF block basement, outbuildings, pasture, shelterbelts. \$409,000 MLS. Tom Neufeld 306-260-7838, Coldwell Banker.

TOM@SASKFARMLAND.COM RM of McCraney. 958 acres of good quality cult. dirt. Average assess. \$124,000/quarter. Tenant (2017). Will sell individual quarters. \$930,000 MLS. Tom 306-260-7838.

TOM@SASKFARMAND.COM RM Torch River. Recreation 138 acres w/White Fox River running through. 30 acres in grain, 60 pasture. Minutes from Tobin Lake. \$165,000 MLS. Tom Neufeld 306-260-7838, Coldwell Banker.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial fence, excellent elk hunting and other big game and goose. 580 acres wheat, mustard, barley & peas. Full line of farm and sawmill equipment also available Will separate. Remy Hertz, 306-865-7469.

PASTURES
6136

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

WANTED
6138

GENERATIONAL FARMERS LOOKING to buy crop, beef, or mixed farm. Land alone or ongoing operations considered. Reply to 4836503@gmail.com

ACREAGES
6139

CENTRAL ALBERTA, 10 acres, 1974 mobile with 3 bedrooms, 1.5 bathroom, great location, close to the town of Viking, now reduced to \$119,000. MLS #CA0072708, Call Barb Chrystian, Swan City Realty, Email: bcriver1@gmail.com

36.9 ACRES OF PRIME LAND just 2 kms. from the city of Swift Current, SK. 3700 sq. ft. home w/high end finishes. Equestrian paradise w/indoor & outdoor riding arena, hay barn, 12 horse stables and paddocks. Highly sought after development location. MLS #SK614344. Phone Bobbi Tienkamp, Re/Max of Swift Current, 306-714-2853.

COMFY COUNTRY LIVING: 4-level split home, double car garage, 40 ac., 2.5 kms from Wilkie, SK. \$294,000. 306-918-7264.

20 ACRES w/1742 sq. ft. 3 bdrm., 2.5 bath house, full basement, 300 sq. ft. screened room, 2 side(s) wrap-around deck, 3 car garage, wired, 2 sheds, open end shelter, large barn, some bush, approx. 7 acres landscaped. For sale by owner, \$325,000 OBO. Call 306-886-2227 or 306-852-8483, Bjorkdale, SK. Email: bjork@sasktel.net

RECREATIONAL VEHICLES

ALL TERRAIN VEHICLES
6161

2016 JOHN DEERE PR15 XUV 560 gator, full windshield, only 7 hours use! 780-336-2445, Kinsella, AB.

4 WHEEL BOMBARDIER Rotex, 250 hrs, like new, \$4000; Wanted: 14' bumper hitch dump trailer. 306-304-1959, Goodsoil, SK.

BOAT/WATERCRAFT
6162

1999 FOUR WINNS 18' inboard/outboard, 5L w/Volvo drive, has frost damage, \$1000. Call 780-221-3980, Leduc, AB.

1991 17 1/2' CHARGER (Glastron) fibre glass, v-haul, open front, 150 HP Evinrude outboard, tilt trim, livewell, travel tarp, HD trailer, \$6800. 306-238-4590, Goodsoil SK

CAMPERS/TRAILERS
6164

1997 CENTURION TANDEM 5th wheel trailer, sleeps 6, AC, awning, etc. good cond., \$7500. 306-715-0196 Saskatoon SK

MOTOR HOMES
6166



2017 THOR ACE 27.2 Class A Gas, pet friendly, #H0A07707. \$109,000. Call 1-844-488-3142 or shop online 24/7 at www.allandale.com

2007 CLASS A Triple E Embassy 34', gas, 23,000 kms, V10 on Ford chassis, hyd. leveling system, lots of extras, \$55,000 OBO. Call 306-533-9017, White City, SK.

RENTAL/ACCOMODATIONS

APARTMENT/HOUSES
6210

APARTMENTS FOR RENT, Langham, SK. Quiet, well maintained, close to schools. 1 and 2 bedrooms starting at \$650. Contact Blaise at 306-349-9351.

WANTED: FARM COUPLE to spend winter (Nov-March) in our well equipped beautiful home in Saskatoon, SK. Lakeview area. References required. Call 306-374-9204.

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6320

RESTAURANT STYLE BOOTH seating, steel frame, plywood seats and tops, exc. cond., 306-664-3377, Saskatoon, SK.

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For more information contact the Canadian Food Inspection Agency, Seed Section at: seedsement@inspection.gc.ca or phone 1-800-442-2342

CEREAL SEEDS

RYE
6413

CERTIFIED HAZLET, Bailey Bros Seeds 306-935-4702, Mildon, SK.

CERTIFIED PRIMA FALL RYE, Hickseed Ltd., Mossbank, SK. Barry 306-354-7998 or Dale 306-229-9517.

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AAC Gateway Winter Wheat
High yielding with FHB resistance
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WHEAT
6419

CERTIFIED WINTER WHEAT AAC Elevate & AAC Gateway. Please text or call Ryan at Mercer Seeds Ltd., 403-308-2297, Lethbridge, AB. Custom treating available. Email: rmerc@mercerseeds.ca

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WHEAT
6419

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Permolox is one of the largest users of all classes of wheat in Canada, processing approximately 200,000 metric tonnes per year. Thus, we source all varieties of wheat including Spring, CPS, Winter and Soft White as well as Barley for our Ethanol plants from all areas of Alberta and into Central Saskatchewan to meet our plant's demands. Wheat marketed to Permolox is priced FOB your yard. Most settlements are completed in 7 days.
We welcome all new producers and thank all existing producers for their business in the past and future.
Any questions regarding pricing, grades or movement schedules, contact Grain Manager at the numbers listed below.
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6425

TOP QUALITY CERTIFIED alfalfa and grass seed. Call Gary or Janice Waterhouse 306-874-5684, Naicam, SK.

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6467

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6482

RYE SEED, 96% germ., newer open pollinated variety. Call Brennan at 403-556-9828, Olds, AB.

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FORAGE SEEDS
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OILSEEDS
6491

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FEED GRAIN
6505

WANTED HEATED CANOLA. No broker involved. Sell direct to crushing plant. Cash on delivery or pickup. 306-228-7306 or 306-228-7325, no texts. Unity, SK.

WHEAT
6419

Permolox ethanol ~ gluten ~ flour
Permolox is one of the largest users of all classes of wheat in Canada, processing approximately 200,000 metric tonnes per year. Thus, we source all varieties of wheat including Spring, CPS, Winter and Soft White as well as Barley for our Ethanol plants from all areas of Alberta and into Central Saskatchewan to meet our plant's demands. Wheat marketed to Permolox is priced FOB your yard. Most settlements are completed in 7 days.
We welcome all new producers and thank all existing producers for their business in the past and future.
Any questions regarding pricing, grades or movement schedules, contact Grain Manager at the numbers listed below.
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VAN RAY PASKAL Farms in Iron Springs area is looking for Feed Barley. Put more \$\$\$ in your pocket and sell direct to us with no brokerage fee. Call 403-330-9147.

WANTED: OFF-GRADE PULSES, oil seeds and cereals. All organic cereals and specialty crops. Prairie Wide Grain, Saskatoon, SK., 306-230-8101, 306-716-2297.

WANTED: FEED BARLEY Buffalo Plains Cattle Company is looking to purchase barley. For pricing and delivery dates, call Kristen 306-624-2381, Bethune, SK.

WANTED: FEED GRAIN, barley, wheat, peas, green or damaged canola. Phone Gary 306-823-4493, Neiburg, SK.

LACKAWANNA PRODUCTS CORP. Buyers and sellers of all types of feed grain and grain by-products. Contact Bill Hajt or Christopher Lent at 306-862-2723. clent@lpctrade.com bhajt@lpctrade.com

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HAY/STRAW
6510

ROUND ALFALFA/ALFALFA GRASS solid core greenfeed 5x6 JD hay bales for sale. Call 306-237-4582, Perdue, SK.

LARGE ROUND JD bales, no rain, Call Len 250-786-5958, Tomslake, BC.

HAY FOR SALE: Various grades, tests available. Call 403-633-8835, Tilley, AB.

DAIRY QUALITY SHEDDED HAY for sale. Tests available. Call 403-633-8835, Tilley, AB.

2017 LARGE BALES: Mixed hay, \$40/bale. Or over 200 bales at \$35/bale. Call 780-524-5210, Valleyview, AB.

36" LONG SQUARE bales made of Alfalfa, Brome, Timothy, weighing around 60-80 lbs.; 36" long square bales made of Brome, weighs around 40-50 lbs. All bales are sold as is. Call 403-740-3089, Settler, AB.

GOOD HAY, 1st & 2nd cut, 1300-1400 lbs. Baled with JD 568. Alfalfa 60%. 403-843-3226, 403-783-9736, Rimby, AB.

1500 ROUND HAY bales 2017 crop, approx. 1500 lbs., baled w/no rain. Located near Prince Albert, SK, ph 306-961-6499.

ROUND BALE PICKING and hauling, small or large loads. Travel anywhere. Also hay for sale. 306-291-9658, Vanscoy, SK.

TRAVEL 7095

AGRICULTURAL TOURS

Australia/New Zealand ~ Jan 2018
 Costa Rica/Panama Canal ~ Jan 2018
 South America (Galapagos & Peru) ~ Jan 2018
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 Tanzania/Victoria Falls ~ Feb 2018
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FARM/RANCH 8016

AUSTRALIAN HARVEST STAFF Needed Operators wanted for Australian grain harvest from mid Oct. to early Dec. 2017. Must be able to work long hours and be proficient in driving late model tractors, chaser bins/grain carts. Be qualified in driving new model Case header/combines. Accommodation and evening meal will be provided. A working holiday visa will be required. Also an international licence (valid in Australia) would be an advantage. You will be working on a family run farm. These positions would suit, fit 19 to 30 yrs. All enquiries to Eastgrove Farming Pty Ltd-Harvest staff tribal@westnet.com.au

FARM HELPER WANTED for a mixed farming operation. Assist with the calving season. Must have a valid driver's license and be able to operate farm equipment. Accommodation available. Bonnyville, AB., Call 780-812-5567, fax 780-573-7620.

HELP WANTED ON farm ranch. Cattle experience preferred. Wages based on experience. No driver's license required. Room and board possible. No texts. Please call 403-350-4089, Red Deer, AB.

FARM & RANCH HELP Wanted in southern Saskatchewan. Must have some experience and drivers licence. 306-539-2010.

FARM/RANCH 8016

HIRING

OPERATORS REQUIRED for 2017 season liquid drag hose injection. Driver's license necessary. GPS and AutoSteer experience an asset. Driver's abstract required. Accommodation provided. Sub. paid. Hutterites welcome. **Perfection Pumping Corp.**, 403-318-9178, Lacombe, AB., email perfectionpumping@gmail.com

EMPLOYMENT OPPORTUNITY: Special Areas Board Heavy Duty Mechanic I. Salary: \$72,888 - \$78,833 per annum. A permanent full-time position located in Youngstown, Alberta at the Special Areas Board's modern 19 bay vehicle and equipment service centre. The Special Areas Board maintains a large municipal road construction and maintenance program with over 300 pieces of equipment. The Board operates a modernized fleet of equipment and is focused on a detailed preventative maintenance program. The emphasis is on analysis and repair of gasoline and diesel engines, trucks (gravel, water and oil distribution), motor graders, crawlers, tractors, self-loading earth moving equipment, various types of packers, fire engines and other types of smaller equipment. Experience in diagnosing/repair of Detroit, Cummins and Cat style engines would be an asset. **Qualifications:** Journeyman Heavy Duty Mechanic Certificate, valid in the province of Alberta and several years related experience with Commercial Vehicle Inspection knowledge. For additional information contact Shaune Kovitch, Shop Foreman at 403-779-3733. **Competition No: 321005 Closing date: September 8, 2017.** This is a designated safety sensitive position and mandatory drug testing will be conducted on all newly hired employees. Please send application or resume quoting the competition # to: Human Resources - Special Areas Board, Box 820, Hanna, AB., T0J 1P0. Fax to: 403-854-5527. E-mail to: SpecialAreasHR@specialareas.ab.ca We thank all applicants, however only those invited for an interview will be personally contacted. www.specialareas.ab.ca

FARM/RANCH 8016

HELP WANTED on grain and cattle operation east central AB. Must have Class 3 drivers and experience w/cattle and machinery. Ph 780-582-2254, Forestburg, AB.

FARM HELPER REQUIRED on grain farm. Class 1, farm experience and some mechanical skills would be an asset. Wages depending on experience. Phone or text 306-228-8333, Tramping Lake, SK.

HARVEST HELP WANTED: General farm help to start immediately until end of Harvest. Swathing, combining, possible grain hauling, working independently, good problem solving skills. 1A license an asset, but not required. Mechanical abilities also an asset. Wage determined by experience. Accommodations provided. Call Dennis for more info 306-237-4442, Arelee, SK.

WELLINGTON COMMUNITY PASTURE Corp., seeking proposal for FT Seasonal Manager. Call for complete informational package, 306-861-3704, Francis, SK.

LARGE SE SASK grain farm hiring full-time seasonal help for harvest and fall work. Class 1A an asset. Competitive wages. Housing available. Ph/bx 306-421-1110. Email: duaneforrester@sasktel.net

Laurier Grazing Corporation is offering contract for tender of Management of Laurier Grazing Corporation contract commencing April 1, 2018. Yearly contract with review. Pasture consists of 37,000 acres. Grazing allotments approximately 2100 adult head. **Tender closes October 1, 2017.** Lowest or any tender not necessarily accepted. Successful applicants will be contacted for interview(s). For more information, and/or to submit a tender, contact: Laurier Grazing Corporation Chairman - Blaine Ward, Box 3, Colgate, SK., S0C 0V0. 306-456-2638.

Round up the cash! Advertise your unwanted equipment in the Alberta Farmer Express classifieds.

HELP WANTED for cattle and grain operation. Seeking self-motivated person, potential for year round work. Goodeve, SK. Call 306-795-2710 or 306-795-5210.

FARM/RANCH 8016

FULL-TIME FARM LABOURER HELP. Applicants should have previous farm experience and mechanical ability. Duties include operation of machinery, including tractors and other farm equip., as well as general farm laborer duties. \$25/hour depending on experience. Must be able to cross US border. Location: Pierson, MB/Gainsborough, SK. Feland Bros. Farms, Greg Feland and Wade Feland, Box 284, Pierson, MB. ROM 1S0. 701-756-6954.

TRUCK DRIVERS 8046

AZ DRIVERS NEEDED to haul freight to western Canada and cattle to Ontario. No US loads. Settlement upon arrival. Willing to train qualified personnel on cattle portion. Fax resume to 519-923-3108, e-mail: faye.ryan@bell.net or call 519-923-3879. If you want to sell it fast, call 1-800-667-7770. Hit our readers where it counts... in the classifieds. Place your ad in the Alberta Farmer Express classified section. 1-800-667-7770.

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FARM/RANCH 8016

CAREER OPP.

COUPLE OR FAMILY WANTED for cattle operation in Saskatchewan. Must have experience in herd health, cattle nutrition and cattle handling. Knowledge in running haying equipment essential. Must be self-motivated, ambitious and able to work with little or no supervision in a smoke free environment. Accommodations supplied. 403-844-7818. billr@eldp.ca

LARGE GRAIN FARM hiring truck and combine operators. Mechanical ability an asset. Accommodations, competitive wages. Call Jim 403-575-0069, Coronation, AB.

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WHEAT COMMISSION TURNS FIVE YEARS OLD

The Alberta Wheat Commission has “come a long way” since its founding five years ago, says the organization’s general manager. In a website posting, Tom Steve pointed to Alberta Wheat’s “robust research portfolio focused on genetics and agronomic performance” that has nearly 40 projects on initiatives such as higher-yielding varieties, fusarium resistance, premium-quality winter wheat, early maturity, and cold tolerance. The commission is also a founding member of Cereals Canada and the Ag Transport Coalition, plays “a prominent role” in Team Canada crop missions, and offers learning opportunities such as Making the Grade, Hedging Edge and WheatStalk, Steve said. — Staff

LANDOWNERS NOT ON HOOK FOR INSOLVENT GAS OR OIL COMPANY

The Alberta Utilities Commission recently released a decision confirming its authority to order refunds for the electrification costs of oil and gas leases that were mistakenly billed to farmers. Last year, an electric utility was trying to collect payment from farmers for electricity supplied to an insolvent oil and gas company. Some landowners brought the issue to the attention of the Farmers’ Advocate Office (FAO), which issued a warning and pursued the matter with the utilities’ commission. The FAO says landowners should check past electricity bills and contact it or the utilities’ commission if they were billed for electrification of an oil and gas lease. — FAO

FOCUS ON IRRIGATION

Solar-powered irrigation proving its worth for Alberta operation

Cory and Lindsay Nelson are the first in the province to use solar for large-scale irrigation — and they’re happy they did



This array on Merlinds Farms is the first large-scale solar system in the province used to power irrigation pivots and Cory Nelson (on right with brother Nelson) says they are looking at adding more solar power. PHOTOS: SOLAR OPTIX AND MERLINDS FARMS

BY KRISTI COX
AF CONTRIBUTOR

Cory and Lindsay Nelson have always embraced innovation and after attending a talk on solar energy put on by a producer group, their interest was piqued.

So the brothers approached Enmax and a Lethbridge solar installation company called Solar Optix to look at their electrical bills. The numbers seemed to pan out, and it looked like the system would pay for itself in about 15 years, so they took the leap.

Solar isn’t new, but this application of it is in Alberta.

“It’s never a bad thing to be right at the start of things,” said Cory Nelson of Merlinds Farms near Grassy Lake. “My dad was always that way. He liked to try new things. Sometimes they work, sometimes they don’t, but it’s fun to try new things.”

“In Alberta, Enmax said we were the first ones for a large-scale system.”

The Nelsons installed a 91.8-kilowatt array (estimated to produce 125.7 megawatt hours or enough to run a pivot irrigating four quarter sections of land), and a 44.6-kW array (producing

approximately 60.66 MWh, or enough to irrigate two quarter sections of land).

The system is a net-zero setup. This means that the overall energy production and overall energy usage should come out to zero over the span of a year. While energy production is high in the irrigation season, so is usage, and the Nelsons need to draw on energy from the grid during that time. But in the winter, when usage is zero, there is still energy production, so it balances out over time.

When setting up the system, Solar Optix looked at the last couple of years of electrical usage to estimate a net-zero target, although in reality it could be more or less in any given year, depending on factors such as snowfall or differing irrigation seasons.

“We have some years that are drier, some that are wetter — so it varies,” said Erika Grintals, the company’s owner and solar sales manager. “That’s important for farmers to understand. If they want to do a net-zero array, you need to look at more than one year of consumption.”

“We try to be conservative (with estimates of how much energy the system will produce to ensure that the customer is going to be happy with the result.”

The Nelsons didn’t reveal what their system cost, but said the estimated payback is 15 years. The Solar Energy Society of Alberta says the cost for a ground-mounted array runs about \$3.50 per installed watt.

Merlinds Farms also accessed a grant through a program that is no longer in place, but a revamped On-Farm Solar Photovoltaics program offered by Growing Forward 2 actually offers higher grants that cover up to 35 per cent of the cost. (It requires systems be tied to the grid; approved under Alberta’s Micro-Generation Legislation; positioned to optimize sunshine; have manufacturer warranties; and be installed on a site ID that has a Distribution Rate Class of Farm, Irrigation, Grain Drying or equivalent. Producers must also obtain approval before the system is ordered, purchased, or installed. For more info, go to www.growingforward.alberta.ca and search for ‘On-Farm Solar Photovoltaics.’)

Worry-free power bills

Solar for irrigation is a big investment, but it’s one with a long lifespan.

“The useful life is — just as a guess — about 35 to 40 years,” said Cory Nelson.

One of the advantages to pairing solar with irrigation is that the biggest electrical draw happens at the same time as the biggest electrical production. This means the benefit to the producer is greater because transmission fees will be lower.

“Right now the payback on irrigation pivots versus any type of other service is the best there is. They’re getting the best payback for their buck,” Grintals said.

Once the loans are paid and the system has covered its cost in energy savings, the only power costs for these pivots will be transmission and delivery charges.

“Once we’ve locked this in, this will produce all the power we need for quite awhile — certainly the rest of my farming career,” Nelson said. “Twenty years from now, if it costs me \$40,000 for pumping and I get a (credit) for \$40,000, then it comes to zero. It doesn’t matter if the price for power goes to \$60,000, or drops to \$10,000, it’s still going to be zero.” Merlinds Farms is just wrapping up its first irrigation season with the solar-powered pivots, and it’s looking good so far.

“On a really good day in July it will produce close to 70 per cent of the power required during that heat of the day,” Nelson said.

The brothers are also looking at upgrading their systems in other ways to improve energy efficiency, such as using a variable frequency drive pump and lowering the pressure a little bit more.

“We do have drop tubes and low pressure, but we could even drop it down just a little bit more — maybe another five to 10 pounds,” he said. “That way if it’s just a little bit more efficient, then I’ll actually be producing maybe just a little more than what I’m using.”

It’s rewarding seeing the meter slow down, or even go backwards.

“It’s a two-way meter so it goes backwards when I’m not running and starts spinning when I am running,” Nelson said. “It’s kind of interesting to see on your bill — you see a negative number. That’s nice when the power company owes you money for a little while.”

The brothers have their eye on putting more irrigation pivots on solar power.

“We even talked to Enmax and said that in the off-season in November, once we’ve had a whole year to look at it, there’s a couple of other systems that we think would be a real nice fit,” Nelson said. “We gave them some preliminary numbers to look at and told them to get back to us but not until we’ve (gone) through the whole season.”

FOCUS ON IRRIGATION



A small-scale model of a Precision Mobile Drip Irrigation system.
PHOTO: SARAH REDEKOP

It's a drag – but one that saves water, cuts costs, and reduces disease

Mobile drip irrigation is pricey but worth the money for high-value crops such as alfalfa seed production or to reduce disease issues

BY SARAH REDEKOP
AF CONTRIBUTOR/LETHBRIDGE

Converting to mobile drip irrigation could be financially beneficial for some growers.

Along with more efficient water delivery and lower energy costs, this system can improve crop health by reducing leaf burn and disease issues.

Mobile drip uses specially designed drip lines that drag on the ground and deliver water directly to crops to reduce evaporation and eliminate wind drift. Compared to a traditional drop tube system, mobile drip systems can cut water use by half. And because water is dispersed behind the wheels, the equipment will move forward smoothly on a dry path.

Savings on energy bills is

another advantage. Low-horsepower engines allow mobile drip systems to run at around 10 to 12 pounds of pressure (versus 30 to 35 pounds of pressure for sprinklers on drop tubes).

Growers wanting to change to mobile drip can convert their centre pivot or linear move irrigation systems by securing drip lines to their current system. The standard cost to convert to Precision Mobile Drip Irrigation (PMDI) is approximately \$30,000 per quarter section centre pivot.

However, the cost can be higher because investing in good filters is a must, said Roger Holm, president of the Canadian National Committee on Irrigation and Drainage (a committee of the Canadian Water Resources Association).

"Filtration is an issue with these," he said. "To put a proper filtration system on, we're probably talking \$40,000 plus."

Whether it's worth spending that kind of money depends on a grower's situation, he said.

"If you're going to look at this, look at it for the right reasons," said Holm. "If you're an alfalfa seed producer, and you want to increase the flying time of your bees, this might be a product to look at."

"If you have a crop that leaf disease is going to be an issue, this may be the product."

Mobile drip irrigation "is also great if you have row crops," he said, but be prepared to begin farming in circles.

"If you're going to put this on a centre pivot that goes around, and you're farming back and forth, it is going to ride up on top of the crop," he said.

With straight rows, the hoses will easily ride up on plants because they are so light. "We've seen them on top of corn ears," he said.

The system can be used on both tall and short crops. The spacing between drip lines will vary by soil and crop type, but is designed to range from 20 to 80 inches between lateral lines.

It is also crucial when using a mobile drip system to deliver enough water on the ground to meet the crop's needs. Most systems are designed to emit about 400 to 600 gallons per minute, which is not feasible for all crops. Holm said he has heard of some irrigators getting up to 800 gallons per minute, which would be close to six millimetres of water per day.

Private irrigators will benefit from this system because they will be able to take the water they save and add it to more acres. Those who belong to an irrigation district will not benefit directly, as their conserved water will go back to the district as a whole.

A mobile drip system can be valuable for some irrigation farmers but it depends on a producer's needs.

"Do it for the right reasons," said Holm.

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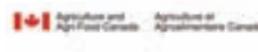
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Do your homework before installing tile drainage

Finding out what constitutes a wetland and finding a suitable outlet for drained water are two key considerations

BY JEFF MELCHIOR
AF CONTRIBUTOR

Tile drainage is becoming increasingly popular among Alberta producers concerned about losing valuable land and inputs to excess water.

Although tile drainage can be beneficial, it is not without its dangers if a system is designed incorrectly — or if producers don't know the rules.

In Alberta, tile drainage systems — like all drainage or water diversions — are regulated under the Water Act and enforced by Alberta Environment and Parks, which classifies water bodies according to their permanence as well as specific soil and vegetation characteristics.

Wetlands are a prime consideration for provincial regulators, said Tim Tuchscherer, operations manager with Terra Drainage Solutions, an all-in-one tile drainage service based in the central Alberta village of Linden. And because what Alberta Environment considers a wetland may not always line up with the landowner's opinion, it pays to do your homework before embarking on a potentially costly tile drainage project.

"A lot of people may be surprised at what may be considered a wetland," said Tuchscherer. "A lot of water bodies that look very temporary may actually be identified as wetlands."

Environmental assessment?

Tile drainage is essentially the use of subsurface tubes to remove excess moisture from topsoil. It's a practice that, in Alberta at least, is still suffering growing pains. There has been some blowback against it, with some early adopters being retroactively hit with penalties for non-compliance after the Alberta Wetland Policy was implemented in 2014. However, producers' rights and responsibilities are now fairly well laid out, said Tuchscherer.

His company focuses on draining water bodies that are only wet for a brief period of time, usually after heavy precipitation. These are known as ephemeral water bodies and are exempt from the Alberta Wetland Policy.

Draining water bodies that fall under that policy can be a costly and complicated process, he said.

"Anybody can drain a wetland if you do the right applications and processes," said Tuchscherer. "However, if you're draining anything beyond an ephemeral water body, it requires an environmental impact assessment, which adds a lot of cost to the project. The landowners will also have to pay compensation for any area of wetland they drain above and beyond ephemeral water bodies."

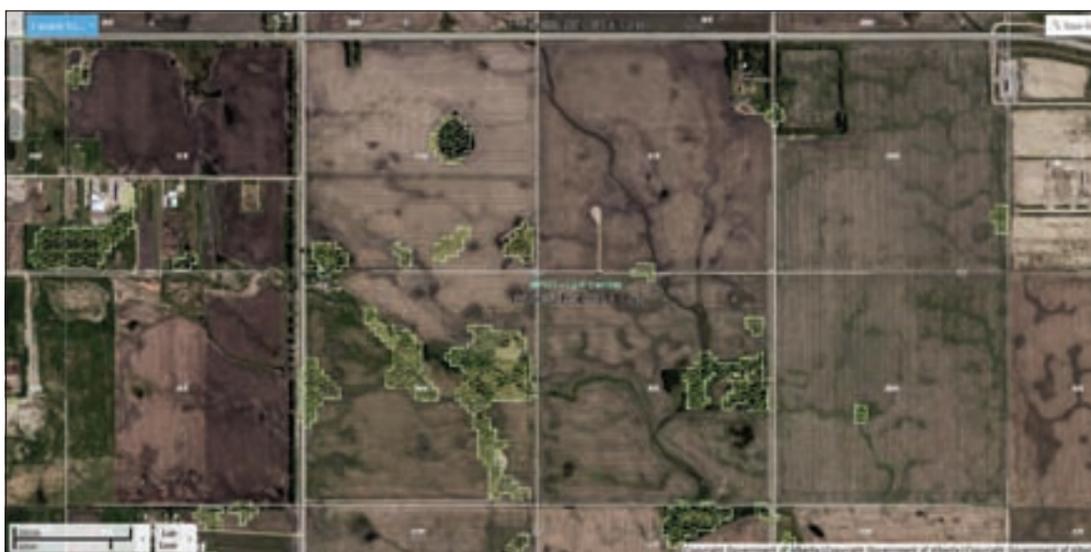
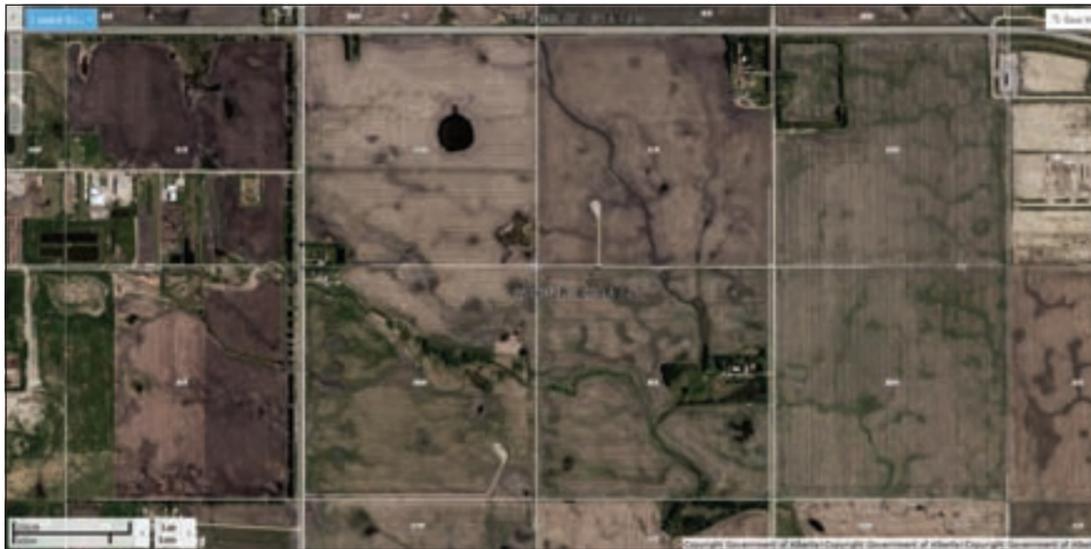
"I usually advise clients that if it's anything beyond an ephemeral water body that it will cost them an awful lot of money and will take an awful long time and probably won't be worth it in the long run."

Plan ahead

Tuchscherer recommends starting the application process as soon as possible, which means submitting an application at least three months in advance to allow time for approval by all the relevant regulatory bodies. That often means submitting an application in early summer.

"We probably do 75 per cent of our work in the fall after harvest mainly out of convenience for landowners, although we can do it any time the ground is not frozen," said Tuchscherer. "There's a small window prior to seeding or just after seeding when, if it's dry enough, we can get in and do some work."

The first step is to get an idea of what's on the land and below the surface. Terra Drainage Solutions uses several publicly available web mapping applications such as Google Earth (www.google.ca/earth) and AbaData (www.abadata.ca) to identify water bodies and potential outlets as well as



Two slides of the same land from the geodiscoveralberta.ca website: The lower 'wetlands turned on' slide shows a potentially much larger wetland area, which is apparent in the upper photo. What constitutes a permanent or semi-permanent wetland can only be determined by a wetland scientist, but if they aren't considered ephemeral, a costly environmental impact assessment is required before any drainage can be installed. PHOTOS: GEODISCOVERALBERTA.CA

obstacles such as high-pressure pipelines.

"Obviously we don't want to be striking any of those with our equipment when we do our installation," said Tuchscherer. "To cross those lines we have to get a crossing agreement with the owner of the buried facility. This usually requires another permit."

GeoDiscover Alberta (www.geodiscoveralberta.ca) — a mapping service provided by Alberta Environment — marks every water body that would fall under the criteria of a wetland according to the department's definitions. The results can be surprising to landowners, said Tuchscherer. "Some farmers would say, 'That's a wetland and nothing else on there is a wetland,' so when you turn on that layer of inventory you can get kind of an interesting result."

The next step is deciding whether the project is viable based on the results of a topographical survey. This is done using a combination of Real Time Kinematik (RTK) GPS, drone technology, or Light Distance and Ranging (LiDAR) data collected over large areas with a helicopter or fixed-wing aircraft.

"We take that and turn it into a digital terrain model, basically a canvas we design our tile drainage system on. When we submit our application that contour map is submitted as well. Dated aerial photos give the government reference as to how frequently that particular area is wet."

Alberta considerations

Designing a tile drainage plan in Alberta is often a lot less



"In Alberta we have a lot of rolling country and potholes, making it challenging to gather water from lower areas and move it away."

TIM TUCHSCHERER

straightforward than in other provinces, he added.

"In Alberta we have a lot of rolling country and potholes, making it challenging to gather water from lower areas and move it away."

Finding outlets for the water on a rolling landscape can be challenging. In some cases, the producer needs to get consent from neighbours to drain onto their property.

"Sometimes there's just no place to put water — it just pools up and the outlet we would like to use won't work because of elevation or whatever," said Tuchscherer.

Also, don't expect much cooperation from local municipalities when it comes to draining into a county ditch, he said.

"Any of the counties I've dealt with will not let us drain into a ditch."

The final step is to submit an

application, including any consent forms from neighbours, to one of Alberta Environment's four offices in the province.

If approved, the installation of drainage tile can begin. Tuchscherer's company typically spaces tiles 50 feet apart and 30 inches underground using a GPS-guided, pull-type plow.

"The 50-foot spacing will give you a three-eighths of an inch drainage coefficient, which means you can expect to remove three-eighths of an inch of water in 24 hours," he said. "It's not extremely fast but it's effective."

"Drainage doesn't happen overnight but having the tile in the ground will lower the water table. Precipitation will eventually wash salt in the soil down below the water table. It could take a couple of years before you see a real improvement. A little patience would be advised."

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HEARTLAND

Community news
and events from
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Forestburg 4-H club lets members clown around



This photo captures two of the 11 projects offered by the Golden Circle 4-H Club – busking and photography. This busking performance at a local church last year, featuring glow Hula Hoops for a poi performance, was captured by members of the club's photography project. PHOTO: GOLDEN PRAIRIE 4-H CLUB

BY JENNIFER BLAIR
AF STAFF

Not many people can say they just clown around when volunteering, but 4-H leader Caroline Boddy does just that, thanks (in part) to her willingness to say yes.

"I am notorious for just saying yes to absolutely everything," Boddy said with a laugh. "That seems to work really, really well for me — it opens a lot of doors to possibilities, and the busking project was one of them."

The Golden Prairie 4-H Club's busking project (a sort of circus camp for kids) started simply enough almost 15 years ago: one of the club's members was "inspired" after seeing somebody doing poi — a type of performance art that uses tethered weights to create a variety of geometric patterns.

"She came bouncing up to me and she was so excited, she was hopping. So I started hopping too because it seemed like there was a lot of excitement around this idea," said Boddy.

"She said, 'We should do a project with poi.' And I said, 'Yes, you are right! We should!'"

"At that point, I had no idea what she was talking about. But I said yes anyway."

Boddy already knew how to do balloon animals and use trick sticks (from her own 4-H days growing up in New Brunswick). Stilts, she decided, would be easy to make and learn, and if she could find someone to teach her poi, the club could really make a go of this busking project. Simple, right?

Wrong.

Boddy's poi teacher declared that she was "pathetic" (in the nicest possible way) after one lesson. "I think I was there for an hour

and a half, and finally he was like, 'You are impossible to teach. You will never learn this. You might as well put them down and forget about it,'" she said.

"I said, 'Ah, whatever. I'm going to do it anyway and it is going to be fine. We're going to turn this into a 4-H project and it's going to be fantastic.' He had no faith this was ever going to happen. I guess I was pretty hard to teach."

But it didn't matter — Boddy "just kept persevering" and eventually learned enough to teach the kids.

"They're always game for my cockamamie ideas," she said, adding that in the second year, the kids learned face painting, plate spinning, and unicycling among other busking acts.

"There were 10 of them who decided we were doing it, and of course, I didn't really know what I was doing, so I kept relying on the parents and kids to give me a hand.

"We didn't know how to do it, but we just did it anyway. We just went for it."

Today, the busking project is a mainstay of the Forestburg-area multi-club, which attracts roughly 40 children every year (some from up to an hour away). But the busy club offers a wide array of projects — everything from cooking to woodworking, scrapbooking to archery — and that's what continues to attract members from across the region. That made the Golden Circle 4-H Club the second largest in Canada until 2015 when the rodeo project formed its own club.

"The kids who do multi-clubs are not in hockey or dance — those other more expensive things," said Boddy. "We tend to cater to the kids who aren't doing all that other stuff. 4-H is the thing that they do."



Caroline Boddy (right with 4-H Canada past chair Donna Bridge) won the 2016 4-H National Volunteer Leader of the Year award. PHOTO: 4-H CANADA

Traditionally, 4-H has been the exclusive territory of farm kids, but more and more, the multi-club model is drawing children from towns or cities.

"The future of 4-H lies in the multi-clubs, and I'm not the only one who has noticed that," she said. "There's nothing wrong with the traditional beef clubs. They have very strong roots in our community. But the dynamics of farming has changed over the years, and we're finding it a little bit more difficult to get kids to come out.

"That's the great thing about a multi-club — we're filling a niche that nobody else is addressing."

In addition to the wide array of projects offered, the Golden Circle multi-club participates in public speaking and community service — two cornerstones of 4-H's mandate.

"There's definitely a need for these kids to find something productive to do and have purpose," she said. "When we work on this, we have a purpose, and when they

come out, they grow in self-esteem and confidence — which I never get tired of watching."

And that can-do attitude has earned Boddy some well-deserved accolades from 4-H Canada, including being chosen as the 2016 National Volunteer Leader of the Year, an award that recognizes the important role volunteers play in the 4-H program.

As a lifelong volunteer and passionate 4-H advocate, Boddy is a staunch believer that "you'll always get back more than you give," when you volunteer.

"I don't know why. I don't know how it works. It's some kind of universal magic," she said. "But the minute you extend your generosity, you'll get paid back tenfold. It's kind of spectacular."

And as for exploring uncharted territory — like learning poi — there's also a bit of magic in one little word.

"Just say yes. You'll be amazed by what happens."

jennifer.blair@fbcpublishing.com

what's up

Send agriculture-related meeting and event announcements to:
glenn.cheater@fbcpublishing.com

Aug. 29: Paintearth Riparian Health Day, Paintearth County Building, Castor. Contact: Eric 780-582-7308

Aug. 29: Livestock Traceability Workshop, Smoky Lake Agriplex, Smoky Lake (also Aug. 30 in St. Paul). Contact: Alyssa Krone 780-826-7260

Sept. 11: Agri-Tourism and Farm Direct Marketing Bus Tour, Spruce Grove area. Contact: Colin Gosselin 780-968-3518

Sept. 18-20: Public Trust Summit: Tackling Transparency – The Truth about Trust, The Westin, Calgary. Contact: Canadian Center for Food Integrity 519-265-4234

Oct. 14: ALP On-Farm Euthanasia Workshop, Best Western Sunrise Inn & Suites, Stony Plain. Contact: Alberta Lamb Producers 403-948-8533

Oct. 17-18: Livestock Gentec Conference, Chateau Lacombe Hotel, Edmonton. Contact: Andrea H. 403-948-1528

Oct. 19: Off-Site Watersheds & Watershed Management, Standard Community Hall, Standard. Contact: Foothills Forage & Grazing Association 403-995-9466

Oct. 19-21: Alberta Sheep Breeder's Association 2017 Symposium, venue t.b.a., Red Deer. Contact: ASBA 1-866-967-4337

Alberta students receive 4-H scholarships

Six Alberta students have received 4-H scholarships for their post-secondary education.

Andrea DeGroot, Kaylie Krys, and Katrina Taylor were among 15 4-H members from across the country to receive John Deere Canada 4-H scholarships, which are worth \$1,000. DeGroot along with fellow Albertan Nicole Steed and six other young Canadians also received \$1,000 CIBC 4-H Post-Secondary scholarships.

Two other Albertans, Cole Chesterman and Emma Van Steekelenburg, were among 12 young Canadians receiving TD 4-H Agriculture Scholarships, which are worth \$2,500.

4-H Canada offers a number of scholarships. Details are posted at www.4-h-canada.ca (click on the Programs and Events pull-down menu) when scholarships are available.

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AIR DRILL

2009 Bourgault 3310, 65', 10"	\$128,000
2008 Bourgault 3310, 55', 10"	\$99,000
2007 Bourgault 3310, 55', 10"	\$89,000
2013 Bourgault 3320, 76', 12"	\$198,000
2013 Bourgault 3710, 50', 10"	\$189,000
2015 Bourgault 3720, 70', 12"	\$189,000
2015 Bourgault 3720, 70', 12"	\$189,000
2003 Bourgault 5440	\$38,000
2002 Bourgault 5710, 29", 10"	\$32,000
2008 Bourgault 5710, 64', 10"	\$69,000
2000 Flexi-Coil 6000/3450, 40', 10", Pillar Openers	\$115,000
2010 Flexi-Coil P2060, 60', 10"	\$68,000
2004 Flexicoil 6000, 40', 10"	\$39,000
2011 NH P2070, 70', 12"	\$85,000
2005 NH SD440, 45", 10"	\$48,000
2008 Seedhawk, 50', 10", Leading Air	\$89,000
2014 Seedmaster CT80-12/520 Tank	\$279,000

AIR TANK/CART

2012 Bourgault 6450,	\$115,000
2008 Bourgault 6450	\$68,000
2008 Bourgault 6450	\$79,000
2005 Bourgault LFC 2000	\$15,000
2011 NH P1070, Tow Behind	\$98,000
2008 CIH 3430	\$39,500
2008 CIH ADX3430, Mech, No Rust	\$45,000
2015 L7800, TB, TRKS, SLDT	\$226,000
1995 Flexi -Coil 5000/1330, 33', 9"	\$19,500
2004 Flexicoil 3850, Tow Behind DS	\$39,500
2003 Flexicoil 3450	\$48,000
2002 Bourgault 5440	\$48,000

BALER/ROUND

2003 Hesston 956,	\$12,500
2014 NH RB560, Wide, BC, Net, Spec	\$45,800
2013 NH BR7090	\$38,000
2005 NH BR780,	\$13,500
2003 NH BR780,	\$11,800
2006 NH BR780A,	\$14,500
2004 CIHRBX562, 12,600 Bales	\$13,800

BLADES

2015 Grouser 770HD, 14', 8-way	\$45,000
2007 Leon 4000 STX425- Frameless	\$13,800
2011 Leon Q5000 STX Quad	\$30,000
2013 Leon Q5000,	\$33,000
2013 Leon Q4000	\$16,800

COMBINE

2012 NH CX8080, 1037/748 hrs	\$278,000
2012 NH CX8080, 1005/746 Hrs	\$268,000
2010 NH CX8080, 1875/1348 hrs	\$228,000
2010 NH CX8080, 1755/1237 hrs	\$228,000
2010 NH CX8080, 1722/1240 hrs	\$228,000
2010 NH CX8080, 1000/900 hrs	\$238,000
2014 NH CR8090, 921/728 hrs	\$349,000
2012 NH CR8090, 1144/917 hrs	\$289,000
2012 NH CR8090, 1314/1041 hrs	\$299,000
2004 NH CX860, 2688/2035 hrs	\$119,000
2004 NH CX860, 3685/2869 hrs	\$98,000
2004 NH CX860, 2528/1924 hrs	\$138,000
1997 NH TX66, 3754/2781 hrs	\$28,500
1998 NH TX66, 2796/2188 hrs	\$48,000
1996 NH TR98, 2931/2211 hrs	\$39,000
1997 NH TR98, 2391/1622 hrs	\$39,000
2008 NH CR9070, 2279/1562 hrs	\$228,000
2010 NH CR9070, 1622/1199 hrs	\$179,500
2007 NH CR9070, 948/780 hrs	\$198,000
2007 NH CR9070, 1710/1253 hrs	\$179,000
2008 NH CR9070, 1434/1023 hrs	\$189,500
2008 NH CR9070, 1489/1020 hrs	\$195,000
2008 NH CR9070, 2251/1583 hrs	\$169,500
2009 NH CR9070, 1597/1208 Hrs	\$179,000
2010 NH CR9070, 1300/1153 hrs	\$198,000
2010 NH CR9070, 1616/1190 hrs	\$189,000
2007 NH CR9070, 1510/2267 hrs	\$148,500
2009 NH CR9070, 1554/1137 hrs	\$198,000
2009 NH CR9080, 1347/980 hrs	\$249,000
2011 NH CR9070, 985/749 hrs	\$259,000
2011 NH CR9090Z, 1311/967 hrs	\$289,000
2012 NH CR9090Z, 868/632hrs	\$339,000
2012 NH CR9090Z, 811/576 hrs	\$369,000
2010 NH CR9090E, 1187/1703 hrs	\$269,000
2010 NH CR9090E, 1064/1518 hrs	\$268,000
2014 NH CR9090, 512 hrs	\$410,000
2013 NH CR9090Z, 680 Thr Hrs	\$379,000
2013 NH CR9090Z, 1484/1138 hrs	\$298,000
2013 NH CR9090Z, 1128/804 Hrs	\$369,000
2005 NH CR970, 2459/1821 hrs	\$138,000
2006 NH CR970, 1861/1300 hrs	\$149,000
2006 NH CR970, 1547/1219 hrs	\$159,000
2016 NH CX8.80E, 250 thr hrs	\$469,000
2015 NH CR8.90, 620/414 hrs	\$483,000
2016 NH CR8.90E, 327/266 hrs	\$485,000
2013 NH CR8090, 1162/904 hrs	\$289,000
2016 NH CR9.90E, 290 thr hrs	\$Call
2015 NH CR10.90, 272 hrs	\$589,500
2016 NH CR10.90E, 457/289 hrs	\$595,000
1996 CIH 2188, 3451/2547 hrs	\$28,000
2004 CIH 2388, 2547/2146 hrs	\$98,000
2010 CIH 7088, 1784/1316 hrs	\$187,000
2012 CIH 8230, 1304/962 hrs	\$278,000
2013 CIH 8230, 700 thr hrs	\$298,000
1995 JD 9500, 2250 thr hrs	\$39,500
2011 JD T670, 833 hrs,	\$239,500
2013 JD S680, 933/653 hrs	\$387,000
2010 JD T670, 1132/807 hrs	\$198,000
2012 CLASS 770, 1131/657 hrs	\$369,000

VERTICAL TILLAGE

2010 Salford 570 RTS, 30'	\$68,000
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FEED WAGON/BALE PROCESSOR

2005 Haybuster 2650	\$14,900
2003 Lucknow 285	\$12,800

GRAIN AUGER/HARROW

2014 REM, VRX	\$22,800
2008 REM 2700	\$13,000
2007 Bourgault 6000	\$25,800

HEADER COMBINE

2010 Honeybee, HB30, Gleaner adaptor, 30'	\$49,500
1999 Honeybee SP36, 36'	\$29,000
2013 Honeybee HP30	\$52,000
1994 Honeybee SP30,	\$9,800
2009 NH 88C, 42'	\$68,000
2009 NH 94C	\$28,000
2008 NH 94C, 30'	\$29,500
2007 NH 94C	\$28,000
2010 NH 94C, 30 CX/CR	\$36,500
2003 NH 94C, 30 CX/CR	\$29,500
2005 NH 94C	\$39,500
2004 NH 94C	\$29,500
1998 NH 994 CX/CR	\$19,000
2009 NH 94C, 36 CX/CR	\$39,500
2008 NH 94C-36,	\$39,500
2003 NH 94C-36,	\$39,500
1999 NH 994-30,	\$29,500
1998 NH 994-36,	\$19,000
1995 NH SP25	\$15,000
2011 JD 630D, 30'	\$58,000
2012 JD 635D, 35'	\$68,000
2014 MacDon D6530G	\$69,800
2010 MacDon, 30', CR/CX, D6030	\$68,000
1998 MacDon 960,	\$25,000
2010 MF 5100-35,	\$58,000
1997 Westward 9030	\$4,000
2010 CIH 2142, 35'	\$58,000
2010 Macdon FD70, 45'	\$69,000
2014 Macdon CR/CX, 35', D6535G	\$69,000
2014 Macdon, 35', D6535G	\$69,000

MOWER CONDITIONER

2004 NH 1475, Toung only	\$6,500
2006 NH 1475,	\$21,500
2002 NH 1475, Toung only	\$2,000
1995 NH 2216,	\$7,500
1995 NH 2216,	\$9,500
2012 NH H7460	\$33,500
2007 NH 1475/HS18	\$23,800
2012 MacDon A40D 18'	\$23,800
2008 CIH SCX100, 18"	\$23,800

SKID STEER/ COMP. TRACTOR

2003 Bobcat 763	\$26,500
2010 Kubota BX1860, c/w mower	\$9,000
2006 Kubota L4630	\$23,500

SPRAYER/HIGH CLEARANCE

2013 NH SP240, 1000 Hrs, 1200 Gal, 100"	\$309,000
2011 NH SP240F	\$208,000
2011 NH SP240F, 1920 hrs	\$185,000
2009 Spraycoupe 4660, 440 gal, 80'	\$84,500
2009 Rogator 1084, 3160 hrs	\$159,000
2001 John Deere 4710, 800 Gal, 100'	\$94,000

SWATHER

2011 MacDon D60, 35'	\$34,000
2013 MacDon D65, 40'	\$49,500
2010 Macdon M150/D6535, 812/1104 hrs, 35', 950 THR	\$109,500
2010 MacDon M150, 2053/1440 hrs	\$85,000
2010 MacDon M150, 35', 1848/1213 hrs	\$85,000
1998 MacDon 960,	\$9,500
1998 MacDon 960, 25'	\$9,500
2013 MacDon M155/D6540, 520 hrs	\$138,000
2014 NH SR200/440HB	\$169,000
1999 NH 994, 25'	\$15,000
2007 NH HW325, 1200hrs	\$58,000
2008 NH H8040/HB36, as is	\$69,000
2014 NH SR200	\$175,000
2012 MF 9740/523, 604 Eng. Single knife, 30' 450 THR	\$98,000
2003 Premier 2952, 2098 Hrs	\$48,000

TRACTOR

2011 NH T7.270 AutoCommand - LDR, 2360 hrs	\$178,000
2012 NH T7.235, 2341 hrs	\$168,000
2012 NH T7.170, 2975 hrs	\$118,000
2011 Versatile 305, 1800 hrs	\$149,500
2012 NH, T7.235, 5800 hrs	\$109,000
2012 CIH U105, 3622	\$59,000
2011 CIH 105U	\$48,000
1977 Ford 8700	\$12,500

TRACTOR 4WD

2009 CIH STX535Q, 3103 hrs	\$248,000
2012 NH T9.505	\$339,000
2010 NH T9040, 1956 hrs	\$239,000
1994 NH 9680	\$89,000
1995 NH 9270	\$75,000

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'14 NEW HOLLAND CR8090 ENG HRS 736 SEP HRS 553, 620/70R42 DUALS, LEATHER, EXT WEAR, DLX CHOPPER, 410BU, 442HP **TABER \$439,000**



'13 NEW HOLLAND CR8090 ENG HRS 1169 SEP HRS 890, 520/85R42 DUALS, LEATHER, EXT WEAR PKG, DLX CHOPPER, 350BU, 442HP, **MEDICINE HAT \$349,000**



'09 NEW HOLLAND CR9060 ENG HRS 1597, SEP HRS 1310, 900/60R32, DELUXE CHOPPER, LONG UNLOAD AUGER, 340HP, 315 BU, **MOOSE JAW \$159,000**



'13 NEW HOLLAND CR7090 ENG HRS 1173, SEP HRS 767, 520/85R42 DUALS, LEATHER SEAT, DELUXE CHOPPER, HID, EXT WEAR PKG, 402HP, 315BU, **BROOKS \$250,000**



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