



HARMONY BEEF IS FINALLY READY TO LAUNCH

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OTTAWA GETS PRAISE FOR RESEARCH PLEDGE

Continuing public research is the smart thing to do, say farmers » PG 3

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EXPRESS

A decade on, BSE lawsuit may finally go to trial

\$8-billion class-action suit says Ottawa should have done more

BY ALEXIS KIENLEN
AF STAFF

It's been more than a decade since it started, but a class-action suit against the federal government for damages incurred as a result of BSE could be going to trial by the end of the year.

"We had the first round of discoveries for 2015 and various questions arose from that, that there were outstanding for the government to get back to us," said

SEE BSE » page 7

THEY'RE CRUSHING IT! And that's a good thing

Canola crushers are enjoying hefty margins, but that's actually good news for farmers – especially given the poor-quality crop

BY JENNIFER BLAIR
AF STAFF

Poor conditions at harvest have been good for Western Canada's crushers, which are soaking up canola that would otherwise be hard to market.

Weekly canola crush levels hit a record high of just over 200,000 tonnes the first week in January for the second time ever.

While crush levels dipped the following week, the total crush as of Jan. 11 was 4.12 million tonnes versus 3.64 million tonnes a year earlier. That's a sizzling 14.4 per cent jump over the record-setting 8.3-million-tonne crush set just last year (which smashed the old record, set in 2014-15 by nearly a million tonnes).

The rate at which crushers are roaring ahead is proof positive of the "strong demand for canola oil around the world," said Alberta Canola general manager Ward Toma.

The poor condition of this year's crop is also a major factor.

"They don't want to move it into the seed export system because

SEE CRUSHING IT » page 6



Exporting poor-quality canola seed overseas is a risky proposition, but fortunately a lot of this year's crop will be processed on the Prairies. PHOTO: CANOLA COUNCIL OF CANADA

SO FAR, SO GOOD

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Canadian 'verified sustainable' beef is still on the menu

McDonald's headline-grabbing pilot is over, but the effort to boost the cattle industry's environmental and welfare credentials continues

BY ALEXIS KIENLEN
AF STAFF

It won't happen in a hurry, but the effort to create a Canadian 'verified sustainable' beef brand is moving along and will reach an important milestone by the end of the year.

When McDonald's Canada ended its groundbreaking sustainable beef pilot project last year, the torch was passed to an industry initiative called the Canadian Roundtable for Sustainable Beef (CRSB). While the goal remains the same — bolstering consumer recognition of the industry's environmental and animal welfare credentials — the process is a long one, said the roundtable's executive director.

"In talking with our friends in Fisheries and Forestry, this is typically a five- to three-year process," said Fawn Jackson, who is also manager of environmental issues for the Canadian Cattlemen's Association.

"McDonald's helped speed that up incredibly, but there is still work to be done."

Part of that is finalizing the "indicators" — specific rules governing things such as environmental standards, treatment of animals, and other social licence issues. The indicators for farms have already gone out for public comment.

"We're working on our indicators for processing facilities, and we'll be putting those out for public consultation in the spring, as well as developing an assurance manual," said Jackson.

The assurance manual is the rulebook that includes details such as the audit and verification cycle, qualifications of auditors, and record-keeping guidelines.

A second key task of the roundtable is something called a "sustainable beef framework" — the beef industry version of Ocean Wise for seafood and Sustainable Forest Initiative for lumber.

"If someone wants to supply or someone wants to source verified sustainable beef, this is the framework they can utilize to do that," said Jackson. "While we won't let perfection get in the way of progress, we're also going to get it right. Making sure that we have something that is robust, that is economically viable for producers, and is meaningful is our main priority."

The framework covers a host of specific details, such as what happens when ownership or care of an animal changes as it moves from farm to processing plant, and how the sustainable beef initiative dovetails with programs such as ProAction on the dairy side and VBP (Verified Beef Production) Plus for beef cattle.

"If producers are on those programs already, they would essentially qualify for verified sustainable beef," said Jackson.



'Verified sustainable' certification may one day join the iconic mountain shot as a selling point for Canadian beef. PHOTO: CANADA BEEF

"That does require making sure that all of our indicators match up and all of our assurance protocols match up and all those types of things."

A pair of committees is working on the framework and it's expected to have it ready for launch towards the tail end of the year. Although the end result will be similar to McDonald's pilot program, there will be many small changes and improvements, she said.

"Of course, you learn things in a pilot and there were things that they (McDonald's) recommended that they would change. It was great to have those learnings, but they were very robust, and I think they will be quite close."

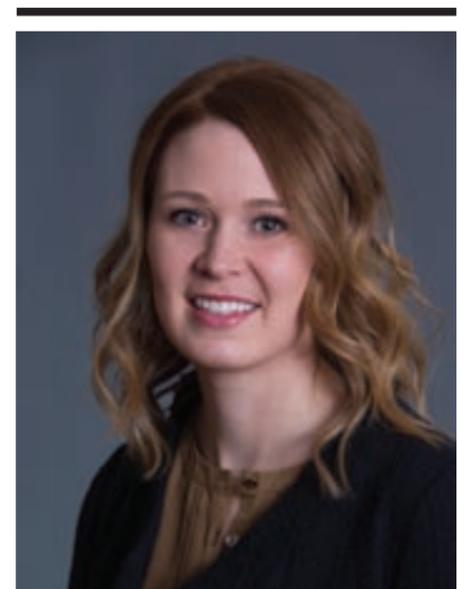
Although they're not calling it a second pilot project, the roundtable will be testing its revamped set of indicators this spring and summer. A number of producers who signed up for the McDonald's pilot project will be trying out the new verified sustainable beef framework indicators. Producers can also sign up for the indicator trials by going to the contact section of www.crsb.ca.

Participation in the verified sustainable beef framework is voluntary and produc-

ers who have been through the McDonald's pilot project will be grandfathered in. The cost to participating will be similar to programs such as VBP Plus.

The big question is whether going through the process will pay dividends for producers.

Numerous participants in the McDonald's pilot said the process was not onerous (largely consisting of documenting things they already did) and that the audit process helped them make their operation more efficient. But there was no premium for producing beef for McDonald's and it remains to be seen whether retailers or others will use the framework to create beef brands that command higher prices.



"Making sure that we have something that is robust, that is economically viable for producers and is meaningful is our main priority."

FAWN JACKSON

"I think we have yet to see the full economic story of verified sustainable beef," said Jackson. "I think there is a lot of potential, but our job as the CRSB is to make sure the framework we develop is robust, but economically feasible for the entire supply chain as well."

The roundtable is also involved in a biodiversity project in collaboration with Cows and Fish, the Canadian Cattlemen's Association, Alberta Beef Producers, and MULTISAR (short for Multiple Species at Risk — an organization that works with landowners to protect grassland species and habitat).

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CORRECTION

A story in the Jan. 16 edition (*Bid to raise beef checkoff 'on hold'*) incorrectly stated that in 2015-16, Alberta Beef Producers directed \$9.8 million of the national checkoff collected in this province to Canada Beef, and \$1.3 million to the Beef Cattle Research Council. In fact, ABP allocated \$2.7 million to Canada Beef and \$680,000 to the research council.

Harmony Beef announces opening date

Refurbished plant will feature state-of-the-art processing technology, not seen before in Canada

BY ALEXIS KIENLEN
AF STAFF

The opening date has been pushed back multiple times, but Harmony Beef is slated to open Feb. 22 and has cattle booked for the first couple of months.

"When we start out, we'll start very slowly," said owner Rich Vesta.

The American meat-packing industry veteran bought the shuttered Rancher's Beef plant just north of Calgary in 2013 and is running it with his two sons, Jeremy and Christopher. Since then, the family has invested heavily — Vesta will only say "millions" — in upgrades and overcome numerous regulatory and political hurdles.

The plant will start slowly, he said.

"In our first week, I doubt we'll get over 50 head a day," said Vesta, who ran JBS North America, and is known for improving efficiency and profitability at underperforming beef plants. "The first day, we'll be lucky to get 20 (head)."

The plan is to move up to 120 head a day during the first month, with production to ramp up to full capacity of 750 to 800 head a day in eight to nine months.

The plant, located on 140

acres near Balzac, was opened by a group of cattle producers in 2006. But it struggled in the aftermath of BSE and closed after only 14 months.

The first six months of Harmony Beef's production will be focused on commodity beef, similar to the rest of the Canadian beef industry. The plant will not sell carcasses, and will specialize in boxed beef. From there, Harmony Beef will be moving into specialty production, the details of which Vesta will not disclose until closer to the launch date.

But a couple of things are certain. Vesta plans to market to the European Union, and after six months of production, he will offer a premium for producers following programs like Verified Beef Production Plus.

"We're not doing all this to be a commodity beef producer — that's not our goal," said Vesta. "While we will certainly have commodity beef, there will be emphasis on other things. The nice thing about this plant is it's small enough to be flexible, but it's large enough to be meaningful to some customers who appreciate these things."

"It will probably take us a year to get into the European Union because of the intricacies of that market and the supply chain that needs to be set up," he said. "We are getting EU certification



"We're not doing all this to be a commodity beef producer. That's not our goal."

RICH VESTA

for this plant. This is definitely on the table."

Harmony Beef already meets or exceeds most EU standards.

"The harvest side of this business was really built by Europeans," he said. "I'm not sure of any North American plants that have technology like this."

'All about incentives'

Vesta is sure he will be able to get enough Canadian cattle to meet European specifications.

"It's all about incentives," he said, although he added that he hasn't been as focused on that side of the equation because he has been working on opening the plant.

He's had clear interest from all sectors of the industry and knows the market is already there in Europe.

"It works down to economics. You can get all the cattle you need if you offer the right economics," he said.

It's taken more than three years of effort to get to this point. A major hurdle was getting a permit for a new waste water treatment plant from Rocky View County in the face of opposition from Calgary Mayor Naheed Nenshi, local developers, and residents of northeast Calgary. But the newly constructed water recycling system is state of the art, and Vesta said

he isn't aware of any other plant in the world with the same technology.

"The technology itself was relatively simple and straightforward. It was just getting the understanding of everybody concerned," he said.

The whole process ended up being more complicated than Vesta expected.

"They kept confusing our process water treatment plant with a sewage treatment plant," he said. "It's totally different. It took a lot of patience and perseverance and some capital to see this through."

The water used in the water recycling system will be the same quality level used in pharmaceutical manufacturing.

But the time, effort, and money has been worth it, said Vesta.

"It will be the finest beef plant in North America. Nothing will compare to it from the harvest side through the refrigeration we've renovated, through the fabrication, which is all brand new, to the water treatment plant. There's no other plant like it in North America, for sure."

The plant is now staffed by about 70 people, and will open with around 125 to 150 employees.

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Farm groups welcome Ottawa's research funding pledge

Agriculture Canada is giving positive signs that it will continue to invest in wheat and barley research

BY ALEXIS KIENLEN
AF STAFF

Federal dollars are key to barley and wheat research in Alberta. Fortunately, there are a lot of signs that the Liberal government is willing to continue investing in it.

"We've been happy with Agriculture and Agri-Food Canada," said Jason Lenz, chair of Alberta Barley Commission.

The federal government has been hiring new scientists and replacing retired ones, he said.

"In our mind, that's a real positive and something we were uncertain about even a year ago," said Lenz, who farms barley, canola, wheat, and raises cattle north of Sylvan Lake. "For the most part, they have started to live up to the promises that they have told us, that they were aware of all these retiring researchers and they would be replacing them as soon as possible."

The barley commission met with federal officials and told them it is interested in renewing agreements with its Lacombe

research station, as well as Alberta Agriculture and Forestry's Field Crop Development Centre there.

"We're actively involved in that right now and we expect that we're going to sign an agreement of some sort likely very similar to what we've had in the past," said Lenz.

There seems to be a good understanding in Ottawa that Canadian research on cereals truly pays dividends for Prairie farmers, he said.

"We are getting good messages coming back from the federal side of things," said Lenz. "It's the provincial side we're really struggling with. We're not being told what their ideas are, and what they could be proposing to come."

"The problem with that uncertainty and not being able to fund research is that once that research stops and there's a gap, it's really hard and really expensive to ramp it up again and then have it continue on because a lot of the projects that we fund could be three- to five-year projects."

The Alberta Wheat Commission is also seeing positive signs of commitment from the federal government, which contributes

more than \$25 million to wheat research clusters.

"For every dollar invested by the public, there is a dollar invested by the industry," said Terry Young, Alberta Wheat Commission director and chair of the commission's research committee. "Whatever the commodity is — whether it is barley, wheat, canola, or pulses — there are federal dollars in research. If they decided to pull out, which I don't think they will, it would make a huge difference to our industry."

"Currently the majority of varieties grown and developed in the public system is the result of AAFC and it has considerable research capacity in terms of trait development, germplasm development, you name it."

Federal research scientists also concentrate on agronomy, which makes a big difference to growers, added the Lacombe-area farmer, who grows wheat, fababeans, malt barley, and canola.

"I wouldn't say the majority of wheat research is made up of federal funding, but it's 50 per cent, probably," he said. "There are crop commissions all across Western Can-

ada that put funding into wheat research. There are also a few private dollars put in. But it is a major commitment from the feds."

The private system to fund wheat breeding is not particularly well established, and wouldn't be able to fill the gap if federal government research funding suddenly dried up, Young added.

"Yes, we can pick up some of the loss capacity, and as time goes on, we probably will be picking up more. But if they all of a sudden decided to cancel their share of wheat breeding, it would have dire consequences."

If funding was to ever become an issue, commissions would examine and research a variety of different funding models to fill the gap. A current area of concern in Alberta is the Alberta Crop Industry Development Fund, a source of provincial funding, which could shutter its doors April 1, 2018.

"Without that fund being replenished, and in a state of uncertainty, from the barley value chain in Alberta, that's a huge concern for us," said Lenz.

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OPINION



Selling the family farm is a trip into the unknown

When there's no one to take over, retiring farmers face a whole lot more than just the end of their working days

BY GORD GILMOUR
MANITOBA CO-OPERATOR EDITOR

What happens when a farm family is no longer a farm family? This is a question I've been mulling lately, after talking with a couple of people I know whose families have decided now is the time to sell up.

It's a reality for many of us, or will be soon enough. A walk around the halls at the recent Ag Days farm show in Brandon, Man. demonstrated that — newly arrived young blood aside, the industry demographic still has a decidedly grey cast to it. And while the farmers I am familiar with tend to remain active, both physically and mentally, later in life, eventually we will all decide it's time to hang up our skates.

For most people, that's still a momentous life-changing event, but the logistics of it are well understood. File for the pension with the government, stop showing up at the office every day, and start drawing down the RRSPs. It may take some trial and error to figure out a new routine and identity that doesn't revolve around work, but much of the rest remains unchanged.

Most will continue to live in the homes they've long occupied, their circle of friends and neighbours will be largely unchanged, and the foundation of outside interests remains to be built on.

For farm families however, this change can be far more jarring when there's not a family member taking over the farm. We all know this instinctively, but how many of us have really stopped to think about the far-ranging impact of this transition, extending well beyond the

circle of the people facing the day-to-day reality of selling the farm?

The retiring couple will, of course, feel the largest and most immediate impact. They'll be leaving a home where they have spent much of their lives, raised their children, and ushered in old age. Most will move to an urban centre where, at least initially, they'll feel like a fish out of water. Life will suddenly seem much more tightly bounded.

I recall a colleague telling me a story a few years ago about bumping into a farmer who had retired and moved into Winnipeg. They got chatting about the bitter winter and the farmer observed that he was more than a little amazed at how difficult snow clearing was on a city lot — because he kept running out of room to put it.

Along with losing their long-term home, they will have lost many other things too. Their hobbies, for example. I know a lot of farm women who are avid gardeners. I always joke they're the only people I know who would attempt to recreate several acres of formal gardens in the middle of the Prairies, without the staff of gardeners such an endeavour usually involves. I am certain they'll need to adjust to the prospect of limiting their efforts to a smaller yard, a balcony, or perhaps even just a few houseplants.

The effect will ripple out from its epicentre. In most cases, the farm will be sold because there isn't another generation coming along. That isn't necessarily a bad thing. Most of the former farm kids I know now are happy and successful. They're working in challenging, interesting and rewarding careers. They're raising families and making their own plans for the future. I include myself in that group. Here and there some might pine to return to

the farm, but most of them have moved on, are working in another field, or in the industry side of agriculture, and realize that's not in the cards for them. Yet we still feel a connection. We return to the farm for holidays and we tell people we're "going home."

I love bringing my daughter home to the family farm. I love having her ride on the tractor with her grandpa, play in the garden with her grandma and just generally see and understand where her roots are dug into this earth. In a very real way, that feels like an important part of her history. It lets me explain her to herself.

I'm fortunate that this choice isn't one my family is grappling with immediately. My brother continues to farm as my parents have stepped back. These days my dad is residual labour around the place, filling in when my brother and the hired employees need an extra set of hands. That allows them to stay in their home, and still gives the rest of the family a farm to call home.

But I recognize that's not going to be forever. My brother is nearly 50. He's already said that, while he enjoys his work, he won't be one of those farmers who's slugging it out well into his 70s.

Someday our farm family will simply be a family. The home place, in our family for nearly a century, will at best be another family's home, at worst a collection of buildings slowly rotting away.

Agriculture as a sector spends a lot of time trying to figure out how to transfer a farm from one generation to the next.

Do we spend enough time thinking about what might be next?

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Keeping land in grass has a side benefit

Young beef producers need affordable access to grassland if the industry is going to grow

BY KRISTINE TAPLEY
DU CANADA

The beef industry has been struggling to retain and attract new producers while the average age of farmers, at 54, keeps creeping up.

The next generation of cattle producers might be looking for something different.

The Canadian Roundtable for Sustainable Beef (CRSB) released the *National Beef Sustainability Assessment and Strategy* this fall. The industry garnered top marks in most categories, however, producer viability was a weak link.

According to long-term average margins, a cow herd of 200 head provides a total annual income of \$17,559. This will not support a family and is below Canada's low-income cut-off. Up to 84 per cent of those in the cow-calf sector must rely on off-farm employment.

How do we ask young people to invest themselves in the cattle

industry when they will likely be overworked and underpaid? We need to find ways to bring profitability back into our industry.

According to 44 per cent of producers surveyed by the Saskatchewan Stock Growers Association, the largest barrier to entry in the cattle industry is access to land. Across the country land values increased by 10 to 22 per cent annually from 2011 to 2015.

I can personally attest to the woes of competing for hay and pasture land with other industries. Like many others, I moved farther north and on to marginal land, but also farther from my off-farm job, causing even more strain on my time and energy.

Ducks Unlimited Canada (DUC) also has a vested interest in the sustainability of the beef industry. DUC recognizes that forage and grasslands kept in the hands of cattle producers who manage these areas are productive for cattle and wildlife alike. A sustainable beef industry is critical to the reten-

tion and health of grasslands and wetlands.

In fact, the CRSB assessment shows the beef sector only accounts for 33 per cent of land that is in agricultural production, but provides 68 per cent of the wildlife habitat.

DUC's Revolving Land Conservation Program is a tool that allows ranchers to access pasture land in a less competitive market. Land purchased by DUC has the wetland and upland habitat restored and then secured by a conservation easement on the land title. The land is then put back on the market and available for purchase by anyone looking to buy grass.

Essentially, it eliminates potential buyers interested in converting the uplands to grain or removing the water from the land. Both DUC and beef producers see the need for grassland landscapes to be managed by ranchers for generations to come.

It is our hope that programs

like this that keep pasture land growing grass will create more accessible land options for beef producers while benefiting the sustainability of the beef industry.

DUC has a great deal in common with the beef industry. DUC believes a thriving and sustainable beef production system is essential on the Canadian landscape to continue growing more grass and protecting clean water. Opportunities that create and improve programs that stimulate this growth and the success of the beef industry is a key focus.

For more details on the Revolving Land Conservation Program visit: <http://tinyurl.com/jm2me8x>.

Find the National Beef Sustainability Assessment and Strategy here: <http://tinyurl.com/hx8aczm>.

Kristine Tapley is the regional beef industry agrologist for Ducks Unlimited Canada. She can be reached at k_tapley@ducks.ca.

OPINION



The meaning of sustainability depends on your point of view

When you talk about sustainable agriculture, you need to look not just at the farm but what is happening all around it

BY BRENDA SCHOEPP
AF COLUMNIST

Redefining sustainability

Battered about like a mariner's ship at sea, the "sustainable" world is getting frayed at the edges.

It leaks the slow leak, one that was built in agriculture on the idealism of creating a pathway to consumers but rested on that assurance without producer reward. Certainly, the journey is worth examining as we navigate just what a sustainable world looks like. Are we holistic enough in our view? Is the lens turned inward or is it scanning the horizon, taking in all the elements?

I am looking at a picture I took of farmers in the Andes between Cusco and Ollantaytambo. The earth is red and, even at 3,400 metres, grows great potatoes. (And when mixed with water, makes for solid building blocks.) I should not be taking this picture. The cultural fears of freezing the spirit of those in the photograph are present but the humble farmers walking behind their oxen stir me and I press the button.

In itself, the environment is surreal and idealistic. It looks sustainable. There is no threat of erosion or compaction. The farmers understand the direction of the wind and the times of the rain. Chemicals are not used. Manure from the oxen is returned to the soil. It has been tilled this way for more than a thousand years and will be for a thousand more.

What's wrong with this picture?

There are several lines of thinking in the interpretation of this scene. The First World young socialist who is idealistic will think farms like these will feed the world without understanding

there is a broken global market infrastructure. It could be the humanitarian who thinks the farmer is "poor" and sends a tractor, even though there is no fuel or parts to run that tractor. The government that, without ever asking, exploits farmers' illiteracy, imposes high taxes without improving infrastructure and allows access to other industry. And finally, the farmer on display as seen in the eyes of a tourist who will go home with a photo of a quaint scene, but never know the story.

It is a snapshot in time but when we shift to a wider lens we may see the actual life of that farm family.

Kind and generous, they are flawlessly clean even though the structure they live in has a dirt floor. There is a television but no books. The chickens and children are free to scamper about as chickens and children should do. A toothless grin and welcoming gestures bring you in. Warm beer or maybe Inca Cola (if the family can afford it) and soup made from last week's fowl. Pride.

It would be nice if the truck would come on time to take the harvest to market, but then again, who knows. You might get sick from the soup, the water is no good since the mines opened. Our son was lost in a fight, our mother raped when she opposed trucks driving through her hut. Our daughters cannot go outside or follow us to the field. Pappie's cough won't stop now for the dust. Manyana (tomorrow) maybe life will be better.

The layers of civilization are intriguing, but how government and business shifts attention from its crimes to focus on something else is profound — for over these Peruvian mountains a different kind of reality is taking place.

The sustainable farmer who everyone loves is threatened, not by his or her own actions, but the actions of others.

The activity of Canadian gold, copper, and silver mining companies contaminates water, threatens livelihood, clashes with cultures, and exploits women. There is no structure to put money back into the country in which you extract but continued access is important and comes with a price tag of humanitarian aid, a pittance for social licence. No one is really responsible and the defeat of Bill C-300, the Responsible Mining Act in Canada, basically allows for companies to continue to buy their way in without any human rights, cultural, social, spiritual or environmental accountability.

So when

we talk about sustainability, let's not get locked into one frame. Not only do farmers who are fighting contamination have to eat those foods themselves (think arsenic residue in water after gold extraction) but they are exporting that food to our counters. And at home, the idealistic small family farm that sells everything local is as much at risk to exploitation and contamination from resource development as the large commodity farmer. Our rights as landowners are challenged further by the "sustainable" movement that holds us responsible while those who can destroy our livelihood are not because they don't have to be.

Regulation that comes under the umbrella of environmental sustainability is affecting agricultural enterprises. The recent move by the state of California to target dairy farms because they are seen as the major contributors of methane is a case in point. Soil and water are the beginning of all life and it is around this that all civilization pros-

pers. And we as farmers continue to be led down corporate sustainable initiatives for our benefit, we might pause to examine what is happening on the other side of the mountain.

All industry, and that includes agriculture, should be accountable. But what happens when those who play on our turf are not? The pipeline that broke and leaves a city without water, the gas leak that killed every insect, the aquifers that are contaminated, the stream that dries up, the cows that no longer milk, or the unexplainable wilting of vegetables.

Are the exposures we live with a choice or are they disguised as flagships of "more production" and "more jobs" and sold because of a much larger agenda of access without liability? Should it not be we who define our own sustainable systems that take into account longevity, culture, history, social justice, human and soil and water health, and land access?

When we talk of ecological and ethical responsibility in agriculture everyone cheers. But to protect our planet, our food, our communities, and ourselves we have to demand the same standards from other industries including agri-food.

Agriculture can work on its own social licence and will prosper in doing so. But we must press that our partners up and down the line who employ tens of thousands of workers, our resource industries that also contribute to the Canadian economy, and our governments accept the same accountability.

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

Pandering to irrational consumer fears is short-sighted thinking

Food companies are setting production standards these days, not regulators, and the industry has to react

BY SHILOH PERRY

AMERICAN FEDERATION OF FARM BUREAUS

Food companies, food retailers, and farmers all face tremendous pressure to respond to consumer expectations on issues like animal care, environmental protection, and the healthfulness and safety of products.

Agriculture has always adapted in response to market preferences. The remarkable growth in organic agricultural production shows that farmers and ranchers will grow what consumers are willing to pay for, especially if it helps them become more profitable.

Companies often make quick decisions to differentiate their brands and products without fully evaluating the impacts of their policy changes. Often they

put out announcements about changing their production practices — changes that might not take effect for many years but provide an immediate halo effect — after sales fall or when trying to overcome a public relations crisis concerning their products or practices. This happens more and more these days now that agricultural policy is being made by unelected corporate executives.

Of course companies listen to their customers, but they also need to think about their suppliers and the impact of their decisions. Too often the direction a company takes is based on misinformation and a broad misunderstanding of agriculture. The results: corporate sourcing standards that insist farmers and ranchers raise their crops and animals in ways that are less efficient, possibly less

humane, and definitely less sustainable.

A recent example is Dannon's move to non-GMO feed for its dairy cows in the U.S. The company's efforts were part of a commitment to sustainability, but the impact was a broad-based move away from biotechnology — meaning lower crop yields, more tilling of the soil, and more use of insecticides and stronger herbicides than the ones widely used by farmers today. This amounts to less sustainability, not more.

Agricultural groups tried to meet with Dannon to help the company's executives avoid making a mistake and understand why walking away from modern agricultural technology is not good for the company or its customers. We were turned down, so the groups sent Dannon a letter.

"Under the guise of providing consumers more choices," the groups wrote, "your pledge would force farmers to abandon safe, sustainable farming practices that have enhanced farm productivity over the last 20 years while greatly reducing the carbon footprint of American agriculture."

Dannon is not the first or only company to make such announcements without fully evaluating the impacts. Too many companies have barrelled forward, rather than listening to farmers and ranchers who could have helped them make better decisions.

Now agriculture is speaking up and explaining our narrative. The voice of agriculture is being heard. We are engaging with food companies to help them see all of the on-the-ground consequences.

When they do not listen, as with Dannon, we call out their actions for what they are. Often their actions are simply based on "fear-based marketing."

Farmers and ranchers have a great story to tell on sustainability. The technologies we use are tested and proven safe and beneficial for farm productivity and the environment. From 1980 to 2011, U.S. rice production grew more than 50 per cent, even as irrigation water used per acre dropped 25 per cent, to cite just one example.

It is time for more food companies and their customers to hear about those results and learn about the true sustainability of modern agriculture.

Shiloh Perry is a communications assistant with the American Federation of Farm Bureaus, and this article is part of the organization's Viewpoint series.



“You can sell the product out rather than have it go bad in your bin if it’s in risky condition.”

WARD TOMA

CRUSHING IT ▶ from page 1

you can’t risk it going bad in a boat or a big terminal, so it’s available for the crushers to use,” said Toma.

A high proportion of Alberta’s canola crop came off in poor condition during the wet fall, and there have been “a lot of reports of storage problems.” But the situation would be much worse if there wasn’t the option to sell to crushers, he said.

“You can sell the product out rather than have it go bad in your bin if it’s in risky condition,” said Toma. “Producers are able to get it out of storage and off the farm, which is a benefit in and of itself.

“You have a bunch of canola on your farm that could go bad quickly because it’s in poor quality, so the ability to move it — even at existing prices... is a benefit to the farmer.”

Sexsmith-area farmer Greg Sears is glad to see that domestic crushers are “on a good run” — an estimated \$116 per tonne above the nearby futures in early January, compared to just \$73 a year earlier.

“The crushers have very good margins right now — there’s a lot of canola available to crush in Western Canada, and there’s obviously a good market for the prod-

uct,” said Sears, who is also chair of the Alberta Canola board.

“We know we’ve got a substantial canola crop this year, and it’s good to see a high rate of disappearance, both with the domestic crushers and the export seed market.”

‘Basis should narrow’

Aside from the short-term benefits of moving some crop off the farm, producers will benefit in the long run from this strong demand, even without premium prices, said Sears.

“Any time we have a situation where we have a good market for export on the unprocessed seed and a good domestic market for domestic processing, it’s a good sign the industry is healthy,” he said.

“There’s obviously a good demand, and ultimately, the basis should narrow and the markets should be maintained or improved as far as what the producers see at the farm gate.”

Good crush margins also encourage the industry to invest in more domestic capacity, he added. As of mid-January, crush plants were running at 89.3 per cent of capacity (versus 83.1 per cent a year ago).

“They’re certainly running at a

high utilization, and I don’t think there’s a whole lot more room in the immediate future for them to take more product,” said Sears. “But in the long term, if there’s still demand and the capability is still there from the producers to supply the product, they’ll be able to expand.”

That’s critical for the future growth of the industry.

“Those two forces are kept in balance, and that’s what ensures the producer gets the best price for the product,” said Sears. “Any time we see one or the other in tough times, that makes it harder for producers to sell the product for the best value.”

It also provides producers “a bit more marketing options globally,” added Toma.

“It’s another participant in the marketplace for farmers to have. You have crushers bidding, so you’re not just tied to the seed export market,” he said.

“If something happens in the seed export market, we can move product through as oil or meal. We can differentiate those marketplaces. It provides more choice and more competition.”

—With files from *Commodity News Service Canada*

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“We know we’ve got a substantial canola crop this year, and it’s good to see a high rate of disappearance, both with the domestic crushers and the export seed market.”

GREG SEARS

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More peas, s’il vous plait

REUTERS

France’s Roquette, which is building the world’s largest pea protein plant in Manitoba, is counting on the province’s farmers to boost their production to supply the \$400-million factory.

Roquette raised eyebrows when it said it would build the plant in Portage la Prairie, Man., rather than in Saskatchewan, which grows 14 times more peas.

The plant will consume 100,000 tonnes annually when it opens in 2019 — the equivalent of nearly all of Manitoba’s current pea production.

Family-owned Roquette picked Manitoba for reasons that include transportation links and access to hydroelectric power, said spokeswoman Carole Petitjean.

“We are confident that, in good collaboration with local farmers, local production in Manitoba will increase substantially in the next five years,” she said in an email.

The Manitoba plant is expected to help meet fast-growing demand for vegetable protein in food and pharmaceutical products. Pea protein, extracted from yellow peas, is used in nutrition bars, soups, sauces, pasta, biscuits and meat alternatives.

Manitoba grew 164,200 tonnes of peas last year, the most in 14 years, but a fraction of Saskatchewan’s 2.3-million-tonne crop.

Francois Labelle, executive director of Manitoba Pulse and Soybean Growers, said price would determine how much more peas farmers will plant. Past disease issues and poor yields have also led to reductions in Manitoba’s pea area over the years, he said.

BSE ▶ from page 1

Duncan Boswell, a senior partner with Gowling WLG in Toronto, and one of the lawyers in charge of the class-action suit.

The lawsuit is seeking \$8 billion in damages stemming from the BSE crisis from 2003 to 2005. It has been filed in four provinces, but the legal battle will be first waged in an Ontario court.

"The thought process here is that if the class action proceeds, if it goes to trial in Ontario, the results of that would be influential across the other provinces," said Boswell.

The lawsuit against the federal government centres around cattle imported from the U.K. and Ireland from 1982 to 1990, when Ottawa banned the importation of live cattle from countries with BSE. The suit alleges that despite promising to monitor an estimated 198 cattle imported during that time, at least 80 of those animals were "potentially rendered... and then entered the cattle feed system." It was known that the prions that cause BSE could be transmitted via feed, the lawsuit says, and the federal government was negligent because it didn't prevent the imported cattle from being used for feed ingredients.

"It comes down to basically 200 cows that had been imported into Canada prior to the ban in 1990," said Boswell. "The government recognized the issue of BSE and recognized that it had an obligation to prevent BSE from coming to Canada, so it implemented a ban in 1990."

"I've had discussions with counsel for government and we have agreed it would be beneficial to try to complete the discoveries by early spring or summer if at all possible, with the game plan of trying to set the matter down for trial by the end of the year."

DUNCAN BOSWELL

But the government should have done much more, the suit alleges. It says Britain banned using bovine meat and bone meal in feed in 1988 to prevent the spread of BSE, but federal officials didn't do the same until 1997 (even though a purebred cow imported from the U.K. in 1987 was diagnosed with BSE).

"Why that didn't happen earlier — that's up to the government to answer, which is the lawsuit," said Boswell.

The suit alleges 80 of the 198 imported U.K. cattle — "at least 10 of which came from herds known to have BSE" — entered the animal food chain between 1990 and 1994 and were the "most likely source of the first generation of BSE in Canadian cattle."

The government was negligent in allowing that to happen and for not warning producers about the risk of using feed containing meat and bone meal, it says.

The class-action suit has been dragging since April 2005 when lawyers from Alberta, Saskatchewan, Ontario, and Quebec filed class-action claims on behalf of all Canadian cattle producers. Boswell and another class-action specialist (Malcolm Ruby, also of

Gowling WLG), were brought in by Ontario lawyer Cameron Pallett to manage the lawsuit for the original plaintiff, a cattle producer from Ontario.

Contaminated feed

The class action now includes all ranchers and dairy farmers from May 2003 (when the first case of BSE was confirmed and the U.S. border abruptly closed to Canadian cattle) until July 2005 (when export of live cattle under the age of 30 months to the U.S. was again allowed).

"We focused on damages in that time frame," said Boswell. "It had a devastating impact on the farmers. There have been lost farms, tragic circumstances, and personal circumstances for a variety of these farmers. It was complete devastation to the industry."

In a 2009 statement of defence, federal government lawyers argued the government consistently took appropriate steps over the years.

At first, there was only "minimal understanding" of BSE following its discovery in 1986.

"When BSE came to the world's attention, the prevalent theory was that the vector for BSE transmission was contaminated sheep material in cattle feed," the state-

ment of defence says. "However, scientific experts working on the disease could not rule out the possibility that the original occurrence of the disease was spontaneous, or that the disease was spread by other means."

Even when it was recognized that meat and bone meal used in cattle feed could be a means of transmitting BSE, it was believed that this "did not represent a risk of transmission if the animal did not show signs of being infected at the time it was slaughtered," the lawyers argued in the statement of defence.

It was only in 1996 that the World Health Organization recommended banning the use of animal protein in livestock feed and Ottawa did just that the following year, despite opposition from cattle organizations, the statement says. However, the imported British cattle weren't considered an issue because all but 10 had died, been exported, or came from herds with no history of BSE. Moreover, the feed-manufacturing system in North America is so complex, it would have been impossible to monitor everything and ensure there was zero cross-contamination, the statement adds.

"Even if a feed ban had gone into effect prior to 1997, it is likely

there would have been an indigent case of BSE of U.K. origin," says the statement. "The only way the introduction of BSE from that source could have been prevented would have been to completely ban the import of U.K. cows in 1980 or earlier. There was no reason to do so, nor where (sic) there any grounds to do so."

End in sight?

Dealing with the lawsuit has taken so long because there were a number of motions at the beginning of the process certifying it as a class action, and a number of appeals.

"By the time that all resolved itself, you had to deal with the heavy lifting of marshalling the facts and doing the discoveries and getting the documents from the government going forward," said Boswell. "It took from 2015 to get the discoveries to occur. We've been told by the government that an extremely large volume of further documents will be coming our way."

"It is a very massive case and it takes a long time to gather the documents, review the documents, figure out questions you need to ask, and ask them."

Although the class-action suit was filed on behalf of "representative ranchers" in Alberta, Sas-

katchewan, Ontario, and Quebec, all producers with beef or dairy cattle during the 2003-05 period will get a share of the proceeding if the suit is successful.

"Provided we are successful on the lawsuit, we will be involving and publicizing to the ranchers about how they would be able to come and collect," said Boswell.

While the government is providing documents for the case, Boswell said he is hopeful either a trial or settlement will happen this year.

"I've had discussions with counsel for government and we have agreed it would be beneficial to try to complete the discoveries by early spring or summer if at all possible, with the game plan of trying to set the matter down for trial by the end of the year," he said.

Feed maker Ridley Inc. was also named in the original suit, but the company settled in 2008. Ridley agreed to pay \$6 million to a trust fund, which has been used to fund the case against the federal government. Ridley was sued for having manufactured infected feed fed to a cow later diagnosed with BSE.

For more information on the lawsuit and court documents, see <http://www.bseclassaction.ca/>.

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The two days will feature a number of sessions to help farm managers with managing and developing:

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- Evening Q&A Forum with All Speakers

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February 22 or 23, 2017

Lakeland College in Vermilion, AB

canoLAB is a hands-on, interactive diagnostic workshop with live plants and insects.

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Wednesday, February 22 or Thursday, February 23 from 8:30am to 4:30pm daily.

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- Participants are divided into groups of 20 and will take part in 8 x 45 minute sessions.
- Instructors will be among Western Canada's top researchers and extension people.
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ALBERTA CANOLA



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Rob Strilchuk
Tax Adviser — Agriculture, MNP



Tracy Hanson
Partner, Walsh LLP

Here's where to find well water resources

There are workshops, fact sheets, videos, well records, and online tools to help you maintain good water quality

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Alberta water well owners have access to a host of information, tools, resources, and experts to help them.

The Working Well program (www.workingwell.alberta.ca) offers province-wide, hands-on workshops for well owners to learn the basics of groundwater, well construction, common well problems, contamination risks, importance of well reclamation, and best management practices. The website also has fact sheets on topics such as well construction, maintenance, and protecting the groundwater supply along with videos on how to shock-chlorinate a well and take water samples. (Fact sheets and brochures can also be obtained by calling 310-3773 or emailing ESRD. Info-Centre@gov.ab.ca.) *Water Wells that Last* is a comprehensive publication on well maintenance and groundwater protection — it can be found at www.agriculture.alberta.ca (search for 'wells that last').

The Alberta Water Well Information Database contains approximately 500,000 well records, with nearly 4,000 new drilling reports added annually. The database includes chemical analysis reports up to the end of 1986, springs, flowing shot holes, test holes, and pump tests conducted on the wells. It can be found at www.aep.alberta.ca (search for 'well water database').

The Rural Water Quality Information Tool assesses the quality and suitability of water sources for privately owned and operated water supplies based on the data you provide. It assesses water used for human consumption, livestock, irrigation, and chemical spraying applications. The site also provides information on sampling, testing, and treatment. The tool can be found at www.agriculture.alberta.ca (search for 'rural water quality'). More information of water sampling and understanding test results can be found at www.myhealth.alberta.ca (search for 'water sample testing').

The Alberta Water Well Drilling Association has a list of licensed water well contractors, suppliers, and other resources at its website, www.awwda.ca.

Don't let biofouling slow the flow

Three-quarters of wells in some parts of Alberta have biofouling problems

ALBERTA ENVIRONMENT AND PARKS RELEASE

Nothing makes a real estate deal go south faster than the discovery that the water well is no good.

Recently Troy Niemans of Titan Water Systems was performing a well test for a real estate transaction and discovered a problem that nearly cancelled the sale.

"The sellers had stated that the well produced six gallons of water per minute, but when we tested it, the yield was less than two gallons per minute," said Niemans. "Drilling a new well or installing a cistern can be expensive, and the buyer was preparing to back out of the deal."

After looking up the water well drilling report, which confirmed the well was producing six gallons per minute when first drilled, Niemans suspected biofouling could be causing the problem. Biofouling is caused by the accumulation of bacteria on well casing, equipment, pump intakes, and other surfaces. Microbes form a type of biofilm slime that can plug up the aquifer and well components, decreasing the water flow into the well. When the slime is particularly thick, sediments also adhere to it, worsening the problem.



Water that smells like rotten eggs or has a metallic taste can be a sign of biofouling, which can shorten the lifespan of your well. PHOTO: THINKSTOCK

The seller had Titan shock-chlorinate the water system, and also pull the pump and air-clean the well, followed by chlorinated flushing. A large amount of sediment and slime were removed from the well in this process.

"After we finished, we retested the well and it was again producing six gallons per minute," said Niemans. "The seller and the buyer were both overjoyed."

"Biofouling is a significant problem in Alberta water wells," said Shawn Elgert, an agricultural water engineer with Alberta Agriculture and Forestry. "Some studies have shown as many as three-quarters of wells in certain regions have significant amounts of biofouling. It's not in itself a health problem, but slime can decrease water flow and promote corrosion of metal well parts."

Three signs of biofouling are decreased flow rate; increased rust-colour stains (in sinks, toilets, dishwashers, and washing machines — or on laundry); and water that smells like rotten eggs or has a metallic taste.

Regular maintenance can prevent bacteria growth and increase a well's lifespan, but if you let the slime get out of hand more aggressive action by a licensed water well contractor may be necessary. In addition to other regular maintenance, well owners should check for slimy deposits on the toilet tank (or the pump and drop pipe if the pump is pulled). Also note any changes in the colour, odour, or taste of the water. Regular shock-chlorination will keep bacteria buildup in check. Reducing the pumping rate can also help slow the rate of the biofouling.

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Millennials – how to cater to the new majority

The age cohort now in their late teens to early 30s will be the majority by 2050

ALBERTA AGRICULTURE AND FORESTRY RELEASE

When it comes to targeting millennials, emphasize sustainability and ethical business practices, as well as convenience and flavour variety.

In 2015, there were 9.5 million Canadians between the ages of 15 and 34 years old.

“As a group, they’re more ethnically diverse and well educated than any previous generation,” said Ava Duering, a competitiveness analyst with Alberta Agriculture. “Millennials are projected to increase in population to 2050 while the remaining segments of the population will experience a significant downturn.”

Millennials base their purchasing decisions on food that has been raised sustainably and ethically by businesses that are open and transparent about their operations, she said.

“Millennials lead the way in favouring

Millennials lead the way in favouring organic ingredients, and products that are locally grown.

AVA DUERING

organic ingredients, and products that are locally grown — 30 per cent of millennials eat certified organic food. They don’t like to spend too much money, but they will pay more for organic and local food because they value supporting their community and what they deem to be healthy.”

They also love snack foods.

“Millennials are snacking more than any

other generation,” said Duering. “According to trend watchers, 35 per cent of meals eaten by millennials are snacks where foods traditionally served at breakfast, lunch and dinner are combined. They enjoy variety and value the experience of trying new and exotic food.”

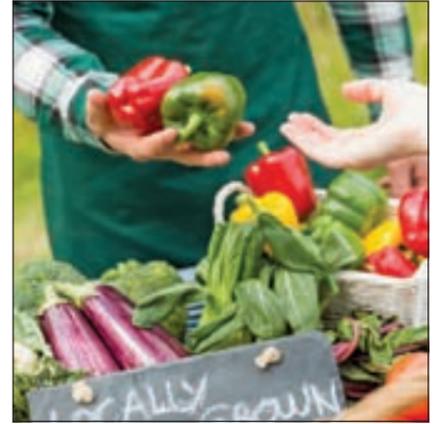
Not surprisingly, apps and social media play a big role.

“According to a recent study, one-quarter of them indicated a high interest in online shopping if their regular grocery store offered it,” she said. “According to the same study, 41 per cent of millennials use mobile shopping apps and 64 per cent use an app because it saves them money.”

Cooking from scratch, however, is rarely on the menu—millennials buy more frozen meals and other easy-to-prepare products, and they spend 44 per cent of their food budget on dining out.

Variety and diverse flavours are a priority.

“According to a recent study 40 per cent order something different every time they



Tweeting about your local produce and sustainable practices ticks a lot of boxes for millennials. PHOTO: THINKSTOCK

visit a restaurant. Millennials want food items that are fresh, creative, and made just for them.”

Researchers see climate change slashing U.S. harvests

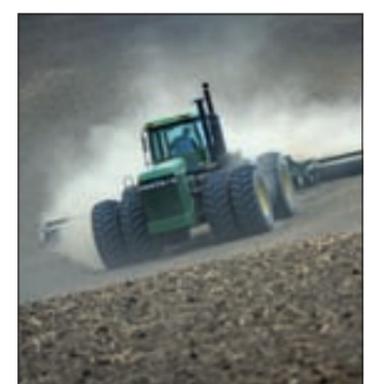
STAFF

Dutch researchers from the Potsdam Institute for Climate Change have published a paper that says U.S. crop yields could be hard hit as the world warms.

To better assess how climate change caused by human greenhouse gas emissions will likely impact wheat, corn and soybean, an international team of scientists ran a comprehensive set of computer simulations of U.S. crop yields. The simulations incorporated physics, chemistry and biology and applied that knowledge to a robust dataset using algorithms to predict their interaction, said lead study author Bernhard Schaubberger.

“We know from observations that high temperatures can harm crops, but now we have a much better understanding of the processes,” Schaubberger said. “But they of course cannot represent the entire complexity of the crop system, hence we call them models. In our study they have passed a critical test.”

The numbers from the study are alarming, suggesting yield reductions as high as 20 per cent for wheat, 40 per cent for soybeans, and almost 50 per cent for corn by the year 2100. — Staff



Climate change-fuelled drought could hit U.S. yields hard this century, researchers say. PHOTO: THINKSTOCK

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P&H BUYS FOUR CPS OUTLETS IN ALBERTA

Parrish and Heimbecker has struck a deal with Crop Production Services to buy its outlets in Sedgewick, Wainwright, St. Paul, and Marwayne. "P&H has been aggressively expanding its footprint on the crop input business across Canada," said Justin Watson, the company's national director of crop nutrients. "Expansion into this geography and working with the experienced staff at these four new locations will be a great opportunity." Parrish and Heimbecker has offices across the country, and its grain business includes trading, handling, marine and rail freight management to both domestic and export markets. Company divisions include P&H Milling and New Life-Feeds. — P&H

NEW CHEF AT CANADIAN BEEF CENTRE

Canada Beef has appointed Mathieu Paré as director of the Canadian Beef Centre of Excellence in Calgary. Culinary training, education, and business development are offered at the centre, which has a full commercial kitchen line, consumer kitchen, and beef fabrication room. A professional chef, Paré has worked at "Western Canada's most demanding kitchens," and has a focus on "classic technique and execution while maintaining some freedom for surprise, fusion and one-of-a-kind creativity," Canada Beef said in a news release. Since opening 18 months ago, the centre has hosted 66 domestic and international missions from approximately 33 countries. — Canada Beef

MARKETS



Canola futures shake off most bearish sentiments

Traders hedge against any surprises in currencies

BY DAVE SIMS

The ICE Futures Canada canola market continues to climb above the psychologically important \$500-per-tonne level, taking support from a recent rally in U.S. soy.

Weather concerns in South America took centre stage on the market as projections flew over how much of the soybean crop in Argentina could be lost due to flooding.

However, both bulls and bears took turns using precipitation, or lack thereof, to justify their respective positions. Some took the view that flooding in certain regions would be lowered by expected dry conditions; others predicted as much as 10 per cent of Argentina's soybean crop could be lost.

For the most part, canola seemed to shrug off the bearish

sentiments and steadily moved up the charts.

The dominant March contract broke out of its recently established narrow range to gain nearly \$20 on the week. Resistance seems to have been carved out near the \$520-per-tonne level.

Weakness in the Canadian dollar added to the upside. The loonie was as high as 76.67 U.S. cents during the five-day period before ending the week at 75.04 U.S.

Crushing activity remained steady, with commercials taking advantage of healthy crush margins. Basis levels in Saskatchewan and Manitoba improved in a number of places.

On the other side, warmer weather across the Canadian Prairies also sparked an increase in farm deliveries, which was bearish for values.

Speculative buying was a fea-

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



ture in and around the inauguration of U.S. President Donald Trump. As one trader put it, Trump's comments haven't roiled agriculture as much as other sectors, but they can still have an effect on currencies. Some traders positioned themselves near the end of the week to protect against any sudden moves.

The one constant everyone can

seem to agree on, though, is that Brazil is headed for a massive crop, with recent estimates pegging it at 104 million tonnes.

Already, China has focused on South America for a large amount of its imports and that isn't expected to change any time soon.

Chicago Board of Trade (CBOT) March soybeans gained roughly 20 U.S. cents per bushel during

the week ended Jan. 20. Weather concerns in South America, along with speculative buying and a surprising surge by soy meal, underpinned the market.

CBOT corn's March contract gained just over 10 U.S. cents per bushel during the week. Slow selling by farmers in the U.S. and booming ethanol production were some of the factors supporting the market, along with weather concerns.

CBOT wheat chopped around for much of the week before settling with a gain of 2.25 U.S. cents per bushel. Ideas that demand for U.S. wheat will remain steady even while supplies of high-protein wheat get increasingly scarce helped offset large global volumes.

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

Today's canola prices unlikely to last, says analyst

Thomas Mielke warns a jump in palm oil production will push world canola prices down by early this spring

BY ALLAN DAWSON
STAFF/BRANDON, MAN.

Canadian canola growers should consider selling new-crop canola soon and perhaps more than they would normally this early, says Thomas Mielke, executive director of *Oil World*, a German-based publication covering world vegetable oil and meal markets since 1958.

"We all know these high prices (of around \$500 a tonne on the Winnipeg futures market) cannot persist forever," Mielke said at the recent Ag Days farm show here.

"There is a risk if you are becoming, or I am becoming, too greedy I may forget to sell it before prices go down."

Global vegetable oil markets are still tight following "an unprecedented shortage in supplies" due to a big drop in palm oil production, he said.

An El Niño weather pattern brought dry conditions to many parts of Southeast Asia in 2015 and early 2016.

"For the first time ever world (vegetable oil) production declined by almost four million tonnes from a year ago in calendar year 2016, as consumption continues to rise," he said.

Many countries, including China and India, that want to rebuild vegetable oil stocks now can't, Mielke said.

"If (canola) prices go a little bit higher — another \$10 or \$15 (a tonne) — you should consider selling part of your crop — probably a larger-than-usual part of your new canola crop — simply because the world market is changing," he said later in an interview.



Get ready to sell new-crop canola soon, says Thomas Mielke of *Oil World*. PHOTO: ALLAN DAWSON

"This (supply shortage) is supporting vegetable oil prices at the moment and this is likely to continue to support vegetable oil prices in February and March, probably also in April... but there will be a point at which the market... will react in a bearish way to the

prospective improvement in world supplies (due to increased palm oil production)," Mielke said.

He sees lower new-crop canola prices by summer. "I think the real bearish impact on prices will occur in 2018," he added.

Mielke stressed his forecast assumes normal weather. If bad weather affects world oilseed production, canola prices could stay up, he said.

Canadian canola plantings will rise 10 per cent this spring, Mielke said.

"This is required in the market because it looks like the world supplies of rapeseed and canola are tight in the moment," he said. "It is reflected in the price. And I think they will stay relatively tight also in 2017-18. Nevertheless canola prices will be influenced by a surplus in palm oil."

Last year, Canadian farmers planted 20.4 million acres of canola, their fourth-largest area ever for the crop, according to Statistics Canada. Canola planting is typically in full swing in May.

Chicago soybean prices, another major influence on canola values, touched a six-month high on Jan. 17, lifted by floods during Argentina's soybean-planting season. The price increase may be premature until damage is confirmed, Mielke said.

Planting and early crop development have been thrown off by heavy storms in key soybean areas in southern Santa Fe and northwest Buenos Aires provinces. — *With files from Reuters*

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Big data and agriculture markets: Part 1

We're awash in market information and using modern approaches can help manage and understand it all

BY DAVID DERWIN
PI FINANCIAL CORP.

Big data has got a lot of attention: from online shopping patterns that encourage you to buy, to life insurance to lower premiums and, of course, to the financial markets to increase returns and reduce risk.

The agriculture industry has seen plenty of number crunching focusing on production and operations information technology, crop sciences advancements and high-precision equipment. In this world of big data, farmers gain an advantage by comparing field data, fine tuning fertilizer application rates, or studying combine and harvest efficiencies.

Farm marketing and hedging strategies must stay ahead of the curve as well. However, the marketing and risk management side of farming has not received enough scientific analysis and attention to detail.

Over the past 20 years, I've read numerous studies, reports and surveys that have shown that only between five and 10 per cent of Canadian farmers use market-based options and futures hedging tools to manage their farm revenues. This compares with around a third of farmers in the U.S.

It's a bit surprising to see that difference, but there are reasons for it. The two countries have very different grain storage, handling, and delivery systems. There's the lingering decades-long influence of the Canadian Wheat Board's now-defunct single desk. While the two countries are very similar there are different attitudes towards business and markets in Canada and the U.S. In this U.S., a more developed commodity futures industry has educated American farmers, and promoted and encouraged the use of these tools.

The objective of this three-part series is to address the myths, misperceptions and opportunities in agriculture commodity marketing.

What do we know?

Farm businesses need to implement the marketing advantages uniquely available to them to level the playing field between farmers and other market participants.

Part 1 will review what we know now and where we are today. Part 2 will explore some myths and misperceptions and opportunities in agriculture commodity marketing and hedging. Part 3 of the series offers up some opportunities and provides some real-time marketing and hedging solutions for farm businesses.

What do we know?

There have been some attempts to quantify and apply rigorous scientific analysis to farm marketing and hedging with a couple of larger studies done over 10 years ago.

"Farmers can grow the best crop in the world, but many agree that their marketing needs improvement."



In 2000 and then again in 2006, professors at the University of Illinois undertook performance studies of grain market advisory hedging services for wheat, corn, and soybeans. The main conclusions of these studies were:

- "There is limited evidence that advisory programs as a group outperform benchmarks (including selling equally throughout the year), particularly after considering risk."
- "... the results provide little evidence that future advisory program pricing performance can be usefully predicted from past performance."
- "... producers selecting top-performing programs based on a given year, and expecting them to continue to be top-performing funds, would actually experience just the opposite result."

A final question raised by these studies is: "... whether farmers can most effectively improve marketing performance by pursuing 'active' strategies, like those recommended by advisory services, or 'passive' strategies, which involve spreading sales across the marketing window."

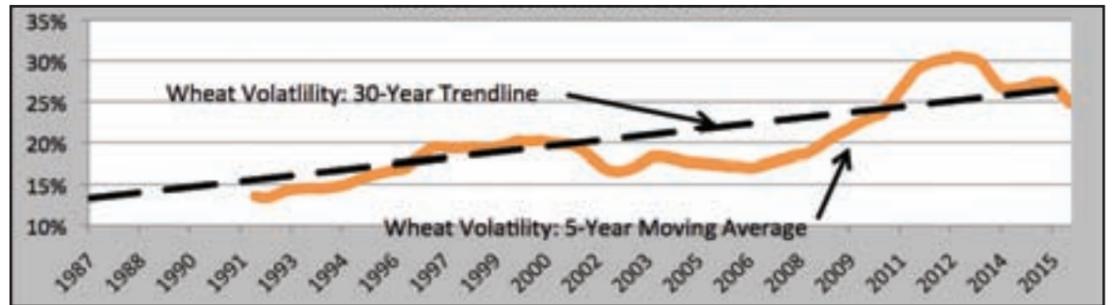
As we'll see, research shows that the answer is somewhere in the middle: Not by pursuing just active or passive strategies but by implementing a proactive combination of both – ones that are "actively passive" or "passively active."

This is where "farming" big data can help bridge that gap. Wikipedia offers a thought-provoking definition of "big data": an information set so large and complex it is impossible to process using traditional tools.

If markets are indeed large and complex, that then begs the question: Are traditional marketing tools like production contracts or even futures contracts sufficient to properly manage and fully process your marketing plan?

Furthermore, if every hedger, trader, investor or analyst is using the same data analysis, indicators

WHEAT VOLATILITY 1986 - 2015



or newsletters, then asking the right question becomes key.

There's a saying that goes: "What gets measured, gets treasured." If more time and effort is invested into marketing to fully manage revenue, balance risk, and measure outcomes, then farmers will more likely treasure their marketing results, especially in these volatile times.

One comment I hear a lot from farmers is: "Markets are more volatile than ever!!"

Is this true? Yes. Most agriculture markets have become more volatile over the past few decades, some more than others, such as grain markets compared to livestock. For example, wheat volatility trends have doubled since the late 1980s.

So what do you do about this increased volatility and uncertainty? How do you better manage the associated risks? As a first step, the next article in this series addresses some of the

main myths and misperceptions that surround commodity marketing.

David Derwin is a commodity portfolio manager with PI Financial Corp. The views here are his own, presented for educational purposes, rather than as specific market advice. For a copy of the complete research study "Farming Big Data — Myths, Misperceptions & Opportunities in Agriculture Commodity Hedging" contact him at dderwin@pifinancial.com.

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WANT TO BECOME A DAIRY FARMER?

Alberta Milk is accepting applications to its New Entrant Assistance Program until March 31. The program matches the quota purchased by the new entrant with a loan of quota from Alberta Milk up to 25 kilograms per day (about 20 to 25 cows) at no cost. New entrants can expand up to 70 kg/day of total quota holdings (or about 65 to 70 cows). Applicants should submit a two-year financial business plan, a 10-year implementation plan, a risk mitigation plan, and signed letter from their financial institution. Since 2011, the program has launched 15 new dairy farms. For more details go to www.albertamilk.com or call 1-877-361-1231. — Alberta Milk

SET THE AGENDA FOR BOV-INNOVATION

The Beef Cattle Research Council wants beef producers to take a 10-minute survey on what topics they would like to see presented during Bov-Innovation at the Canadian Beef Industry Conference in August 2017. Bov-Innovation is an extension event for producers and features innovative, underutilized, or emerging production practices that feedlot and cow-calf operators may want to consider implementing in their operations. The sessions are engaging and interactive. Participants are able to discuss the recommendations with presenters and fellow producers, and take home additional resources. To take the survey, go to www.surveymonkey.com/r/bovinnovation. — BCRC

LIVESTOCK

It came from outer space — better pasture insurance, that is

Using a new generation of satellites to measure grass production promises to be a game changer for pasture insurance

BY JEFF MELCHIOR
AF CONTRIBUTOR

Ask any rancher or other forage producer — insuring pasture land can be a major pain in the neck.

Because of the limitations of current assessment tools, in the event of a wreck producers can be paid nothing or an amount that does not reflect actual loss. Instead, payments are made on an area-wide basis depending on satellite results or weather station information some distance away.

But an Alberta project using new high-resolution satellite imagery aims to make pasture insurance more individualized and similar to crop insurance.

“We’re trying to find a way to measure pasture production on an individual ranch in terms of pounds per acre, said Richard McConnell, consultant with DYMAC Risk Management Solutions and project lead.

“If we can do that we could then create a history of pasture production — just like wheat — and let ranchers insure their pasture production relative to that history. Agricultural Finances Services Corporation (AFSC) is quite interested in the project and offering its support.”

In the past, pasture has been “overlooked” because of difficulty of measuring production, he said.

“Even ranchers can’t often tell you how much pasture in pounds per acre they produce.”

But refinements in satellite imaging technology has changed that, and Alberta is at the forefront, he said.

“AFSC was the first to use satellites for pasture insurance anywhere in the world,” said McConnell. “However, when it first started some 10 to 15 years ago, the most affordable satellite imagery obtained was a one-square-kilometre resolution.

“And since you need several images, in this case square kilometres, that meant the smallest insurance payment area that could be offered was one township. It wasn’t small enough to measure one ranch by itself in most cases.”



Researcher Tom Crozier inspects a sample ring from which grass has been cut to provide an on-the-ground sample of green grass in the pasture. PHOTO: WWW.PASTURETECH.COM

“Even ranchers can’t often tell you how much pasture in pounds per acre they produce.”

RICHARD MCCONNELL

The satellite being used for the project has a 250-square-metre resolution and the imagery is only going to get better.

“In the future, we expect affordable satellite information might be available at a 30-square-metre resolution,” said McConnell. “Once you get down to 30 square metres you can get a lot of pixel images in a quarter section. You can refine your crop insurance availability to ranchers on a much smaller scale.”

Good data is key

The project, funded by Growing Forward 2 and the Canadian Cattlemen’s Association, is being conducted on native pas-

ture on seven farms and ranches across the province. It uses on-the-ground observation to test the accuracy of satellite imaging. That data can then be used to translate historical satellite data, archived over many years, into pounds per acre for individual ranches. The grass production history can be used to set insurance coverage and then, in the current year, to assess production to make a payment if there has been a loss.

“The trick is to get grass production on-the-ground measured at the same resolution,” said McConnell. “Using a handheld device called a spectrometer, which is calibrated to the satellite, in conjunction with the physical clipping of grass samples taken in the field provides the apples-to-apples comparison.”

The spectrometer, like the satellite, provides an index called the Normalized Difference Vegetation Index (NDVI).

“The NDVI is an index measured from two sensors on the spectrometer — one sensor measures infrared light and red light coming down from the sun and the other measures those same light wavelengths reflecting up from the ground,” he said.

“The NDVI is created from

comparing light absorbed by plants and light reflected by plants. However, the sensors don’t actually measure the light absorbed. But since all light is either absorbed or reflected, the difference between the light coming down from the sun and that which bounces up from the ground gives you the amount of light that’s absorbed.”

Painstaking work

There are two distinct operations taken in the field using the spectrometer. The first verifies the spectrometer is actually calibrated to the satellite (by taking measurements in the grids used by the satellite).

“The MODIS (Moderate Resolution Imaging Spectroradiometer) satellite goes around the Earth every day and takes the same pixel image of 250 square metres. In each of those 250-square-metre areas there is a central point that can be located using a GPS instrument. That means a series of half-metre spectrometer readings can be taken within a 250-square-metre area known as a pixel and averaged to see how close they are to the one satellite reading for that same 250-square-metre area on the same day. If those measure-

ments are close then the spectrometer is calibrated to the satellite.”

The second in-field operation defines the relationship between the spectrometer and grass production. To do this, researchers lay down a half-metre steel ring at defined areas within a satellite pixel in the field, take a spectrometer image, and clip the grass within the ring.

“The spectrometer is really measuring the green, or the chlorophyll, in the plant. Many grass samples with corresponding NDVI readings from the spectrometer are required and more is always better,” said McConnell.

But each is time consuming. The grass is dried to zero per cent moisture; sorted to separate green grass from forbs, carry-over or brown grass; and then weighed.

“The sorting process is the most time-consuming aspect of the entire project.”

The researchers are currently in the middle of the second year of the three-year project, so only have one year of completely sorted grass samples to analyze. But what they have seen so far is encouraging.

“We found the readings of the spectrometer were very close to that of the satellite,” said McConnell. “It won’t be exact because we only took 60 or so images in each pixel and satellite images can be inhibited by cloud cover. But just the same, the measurements from the spectrometer and the satellite are very close.”

Given the historical archive of imagery, McConnell said the spectrometer could be a highly cost-effective tool for assessing native grassland.

“We have historical satellite imagery so we can get a historical average for your ranch.”

That, in turn, allows comparison to the current year’s production to past production.

“If one year is a very poor production season the insured rancher would be in line for an insurance payment. The satellite can calculate both the coverage for your insurance policy as well as the loss adjustment.”



Pacing, rocking and other worrisome behaviour in horses

Repetitive behaviour isn't a problem to fix, it's a sign to look for the root issue

BY CAROL SHWETZ, DVM
AF CONTRIBUTOR

Stereotypic behaviours are repetitive behaviours performed by animals with no obviously discernible function.

One of the most commonly recognized stereotypic behaviours is the pacing of polar bears in zoo exhibits. Stereotypic behaviours are also recognized in horses, of which cribbing, weaving and stall walking or pacing are the three most common.

Polar bears and horses share something in common. Whenever their biological needs are not being met in their environment, physiological stress ensues and BOTH will develop behavioural means of coping to physically and mentally support themselves.

Many consider stereotypic behaviours a nuisance, not only because they are annoying and irritating, but because they result in damage to housing and reduce the monetary value of the horse as over time these behaviours affect a horse's usefulness, dependability and health.

Stereotypic behaviours are often labelled as bad habits and stable vices. Unfortunately this connotation implies the horse to be at fault — needing “fixing” or correction. However, this implication is in error for the common denominator underlying such “ill” behaviours does not lie with the horse itself, rather it lies with the stable life and environment the horse lives in. Stereotypes rarely, if ever, occur in horses living in a relatively rich physical and social environment that is appropriate for their innate being as a horse.

Cribbing occurs when a horse bites down on an object and flexes its neck. The horse then pulls back with its teeth while forcefully swallowing or gulping. This behaviour appears to be related, at least initially, to frustration regarding food availability.

Stall walking or pacing is commonly found in horses that are stabled in box stalls and/or horses confined to a small paddock. Weaving is not unlike pacing except the horse stands in one place rocking back and forth in a repetitive fashion. Both of these behaviours are triggered by the frustration and emotional distress associated with social isolation.

As the horse “drops” or settles into the lull of the repetitive behaviour, the look in its eye changes and it mentally and emotionally dissociates from its surroundings. Over time the movement itself is rewarded by the release of opiates or endorphins that cause the animal to feel better. Once the chemical and physical pathways for endorphin release rewire the horse's brain, the behaviour becomes nearly impossible to extinguish as the behaviour itself becomes self-rewarding. Physical devices, surgery, aversive conditioning (yes this includes yelling), restraint and pharmacological treatments generally fail to totally eliminate stereotypic behaviours.

Therefore the goal of caretakers is not to stop the horse from the behaviour, rather to focus upon creating a suitable environment where the horse no longer needs to or is motivated to perform the behaviour. Intervention is best directed at the reasons responsible for the behaviour, not the behaviour itself.

It then becomes only sensible to avoid the factors that contribute to these behaviours by correcting the conditions and the environments which ultimately lead to their expression. Fifty-five million years of evolution have designed the horse to thrive in a social environment, where the horse is foraging almost continuously and “on the move” to do so. Whenever these basic needs are not being met in the horse's environment, the horse's welfare suffers and the horse may develop seemingly “strange” and apparently irrational means to meet its biological programming. There are individuals amongst the general population who are particularly sensitive to the incompatibilities of stable-keeping practices and act as “canaries in the minefield.” These individuals are at a much greater risk for developing abnormal behaviours.

Prevention of stereotypic behaviours is key and must begin early in the life of a horse as the majority of these behaviours develops and becomes established before the horse is two or three years old. Early weaning practices and confinement housing of young horses create environments of social isolation and deprive the young horse of social interactions that shape and enrich its mental development. For many young horses, placement in a stable environment coincides with a change in feed type, physical location/housing, social environment, owners, and living conditions. Training expectations and workloads further compound and overwhelm the young horse. In order to cope with the physical and mental stressors imposed upon them many young horses develop stereotypies.

The domesticated horse housed in a stable may appear to be in an advantageous position over its feral cousins, for it is spared predation, hunger, thirst and harsh environmental elements. This sedentary and protected lifestyle may appeal to the logic and emotion of the human, yet the horses are demonstrating back to caretakers that the needs fundamental to their health and welfare are not being met. Although domestication frees the horse from many of the challenges it faces in its natural environment, it also presents adversities, difficulties and challenges unique to the horse's nature. These include but are not limited to unnatural and/or processed feeds, meal feeding, a sedentary lifestyle, at times poor-quality housing i.e. lighting, ventilation, drafts, etc., athletic expectations, lack of socialization and inadequate environmental enrichment. When these unnatural — to the horse — challenges go unrecognized the horse's welfare incurs hidden costs — one of which is undesirable behaviours.

As the horse's caretaker, it is our responsibility to do the best we can to create living situations that are both physically and mentally healthy for the horse. In order to effectively problem solve the nature of abnormal behaviours in horses it becomes necessary to shift the burden of blame off the horse and direct it towards those responsible for the care of the horse.

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



Horses will develop repetitive behaviour in response to stress and unmet needs. PHOTO: THINKSTOCK

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Two giant animal health pharma companies bulk up by merging

The merged company is now second only to New Jersey-based Zoetis in size



This Merial Animal Health laboratory at Pirbright in southeast England and its sister facilities are now part of Boehringer Ingelheim. PHOTO: REUTERS/LUKE MACGREGOR

STAFF

Global pharma giants Sanofi and Boehringer Ingelheim have formally sealed their deal to merge Sanofi's global animal health business, Merial, into Boehringer's.

The two companies announced their deal has "successfully closed in most markets" as of Jan. 1. In return for Merial, Paris-based Sanofi gets Boehringer's global consumer health-care business plus 4.7 billion euros (C\$6.6 billion).

Merial, which maintains a Canadian office in Montreal, sells more than 60 products in the Canadian market including cattle and swine parasite control Ivomec and horse dewormer Eqvalan.

Merial's product lines also

include pain controls, vaccines and disinfectants for the cattle, hog, poultry and horse sectors and various drugs for companion animals, wildlife and the veterinary public health sector.

Worldwide, Merial has an enterprise value of about C\$16 billion, staff of about 6,900 people and operations in more than 150 countries.

Boehringer's own animal health business in Canada includes various vaccines and drugs for cattle, hogs, horses, poultry and companion animals, among them anti-parasiticide Cydectin, anti-inflammatory drug Metacam and Equitop supplements for horses.

The closing of Boehringer's acquisition of Merial's business in Mexico — and of the two-way asset swap in India — have both been delayed, pending "certain regulatory approvals." Both of those closings are expected early this year, the companies said.

The two companies also agreed in 2015, when they first entered talks, to exclude Boehringer's consumer health-care business in China from the deal.

Worldwide, Merial has an enterprise value of about C\$16 billion, staff of about 6,900 people and operations in more than 150 countries.

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The companies, whose talks led to a definitive agreement in July, said at the time they expect a merger of Merial into Boehringer — the fourth- and sixth-biggest players worldwide in animal health respectively in 2015 — to create the second-largest player, behind New Jersey-based Zoetis.

The combined animal health firm, they said, will have pro forma 2015 sales of about 3.8 billion euros (C\$5.3 billion) and "the ability to compete for global market leadership." It would also be the top firm in both the equine health and swine health sectors.

Joachim Hasenmaier, the member of Boehringer's board of managing directors with responsibility for animal health, will continue to lead the combined Boehringer/Merial animal health business unit.

Seeking approval for their merger from the European Commission, Boehringer and Merial in October set up an agreement to sell certain animal vaccine and pharmaceutical lines to France's Ceva Sante Animale, for an undisclosed sum.

Brands going to Ceva include Ketofen, Circovac, Equioxx, Progressis, Mucosiffa, Parvovax and Parvoruvax. That deal, however, does not include the Ketofen business in Canada, nor Circovac or Equioxx in the U.S.

The sale to Ceva, the No. 8 animal health firm, doesn't include any manufacturing sites for the affected products, the companies said, adding the deal "will be implemented by means of a transfer of all relevant assets."

U.S. lists first bumblebee species as endangered

A quarter of the 47 species of native U.S. and Canadian bumblebees are considered at risk of extinction

BY STEVE GORMAN
REUTERS

The rusty patched bumblebee, a prized but vanishing pollinator once familiar to much of North America, has been listed as an endangered species, becoming the first wild bee in the continental United States to gain such federal protection.

One of several species facing sharp declines, the bumblebee known to scientists as *Bombus affinis* has plunged nearly 90 percent in abundance and distribution since the late 1990s, according to the U.S. Fish and Wildlife Service.

The agency listed the insect after determining it to be in danger of extinction across all or portions of its range, attributing its decline to a mix of factors, including disease, pesticides, climate change and habitat loss.

Named for the conspicuous reddish blotch on its abdomen, the rusty patched bumblebee once flourished across 28 states, primarily in the upper Midwest and Northeast — from South Dakota to Connecticut — as well as Ontario and Quebec.

Today, only a few small, scattered populations remain in 13 states and Ontario, the Fish and Wildlife Service said.

The agency in September listed seven varieties of yellow-faced, or masked, bees in Hawaii as endangered. But *Bombus affinis* is the first bumblebee species to be given that status, and the first wild bee of any kind to be listed in the Lower 48 states.

Bumblebees, as distinguished from domesticated honeybees, are essential pollinators of wildflowers and about a third of all U.S. crops, from blueberries to tomatoes, according to the Xerces Society for Invertebrate Conservation, which petitioned the government for protection of the insect.

Pollination services furnished by various insects in the United States, mostly by bees, have been valued at an estimated US\$3 billion each year.

The International Union for the Conservation of Nature ranks the rusty patched as one of 47 species of native U.S. and Canadian bumblebees, more than a quarter of which face a risk of extinction.

Government scientists point to a certain class of pesticides called neonicotinoids — widely used on crops, lawns, gardens and forests — as posing a particular threat to bees because they are absorbed into a plant's entire system, including leaf tissue, nectar and pollen.

Bumblebee populations may be especially vulnerable to pesticides applied early in the year because for one month an entire colony depends on the success of a solitary queen that emerges from winter dormancy, the wildlife service said.

Listing under the Endangered Species Act generally restricts activities known to harm the creature in question and requires the government to prepare a recovery plan. It also raises awareness and helps focus conservation planning for the imperilled species.



The rusty patched bumblebee is noted for the bright-brown patch on its abdomen. PHOTO: U.S. GEOLOGICAL SURVEY

Eight more quarantines in TB probe

Expansion of quarantine was expected but no new cases have been discovered since November

STAFF

Another eight properties with about 2,000 cattle have been put under federal quarantine as officials continue to track down livestock exposed to bovine tuberculosis.

The number of premises under quarantine is "approximately" 58 and the number of animals under quarantine is about 28,000, the Canadian Food Inspection Agency (CFIA) said in a Jan. 18 update. That's up from about 26,000 cattle on 50 properties a week earlier.

The agency didn't say where the eight properties are, but hasn't expanded the general area of its investigation in southeastern Alberta and southwestern Saskatchewan since November. No other properties have been released from quarantine, beyond the seven in southeastern Alberta released Dec. 21. The probe followed the discovery of one Alberta

cow that tested positive for bovine TB when it was slaughtered at a U.S. packing plant in September. There have been no new cases beyond the six cattle confirmed as TB positive in November.

Cattle — up to 10,000, by CFIA's previous rough estimate — are still being destroyed and tested at 18 properties deemed part of the "infected" herd, which refers to animals deemed to have contact with one of the six infected cattle. No additional properties have been added to the infected herd since November.

The investigation requires tracing cattle that have had contact with cattle from the infected herd "over the course of the past five years," CFIA said. Those traces take "significant time" to complete and "given the scope and the complexity of this investigation, the number of quarantines required is expected to increase significantly," the agency said in its Jan. 11 update.

Full testing can take up to 14 weeks. Both blood tests and caudal fold tests are used, and any potential positives from those tests are slaughtered, then checked for lesions — such as in the lungs and lymph nodes. Since animals can be TB positive without visible lesions, tissues from destroyed animals are also subjected to a culture test.

Wildlife is considered "unlikely" to be the source of the TB bacterium in this outbreak, CFIA said previously. The TB strain in this case has never been seen before in Canadian livestock, wildlife or people, but is "closely related" to a strain originating from cattle in central Mexico in 1997.

Meanwhile, Alberta's Agriculture Financial Services Corp. offices in Medicine Hat and Brooks are still taking applications for assistance under the Canada-Alberta Bovine Tuberculosis Assistance Initiative, an AgriRecovery program for producers caring for TB-quarantined cattle.

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NEW EPA HEAD HAS CLIMATE CHANGE DOUBTS

President Donald Trump's choice to lead the U.S. Environmental Protection Agency (EPA) expressed doubt about the science behind global climate change during his contentious Senate confirmation hearing. But Scott Pruitt said he would be obliged for now to uphold the EPA's finding carbon dioxide poses a public danger. As attorney general of Oklahoma, Pruitt sued the agency he intends to run more than a dozen times on behalf of his state. He told the confirmation hearing that "science tells us that the climate is changing, and that human activity, in some manner, impacts that change," but there's a "continuing debate" about the amount of change. — Reuters

FLOOD FEARS GROWING IN MANITOBA

Manitoba's main farm group is worried rookie governments in Winnipeg and Ottawa may not be prepared to deal with the threat of major flooding in the province this spring. Fiscal restraint could produce a big problem if there's widespread spring flooding, said Dan Mazier, president of Keystone Agricultural Producers. "My fear is that we have two new governments and they're talking about financial restraints and how governments are going to deal with it," he said. "If we did have a one-in-300-year flood, are we ready for that?" Concerns about spring flooding have been building since near-record rains in October and heavy snowfall this winter. — Staff

WEATHER



The top global weather stories of 2016 had a common theme

Whether you look at temperatures, ice at the poles, air quality, or the Fort Mac fires, the evidence of a warming planet is clear

BY DANIEL BEZTE

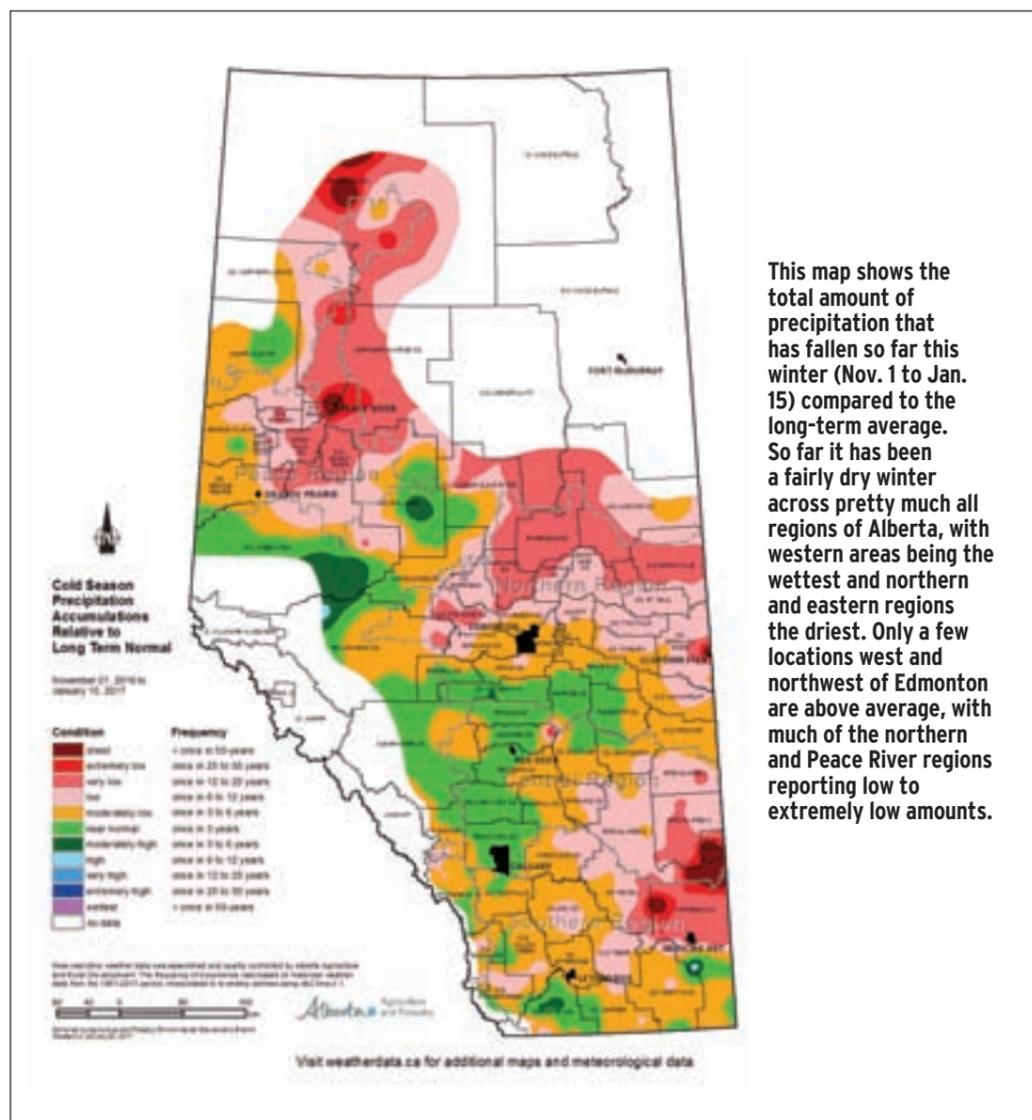
It seems that a new list of the top global weather stories of 2016 comes out every day.

So I thought I would go through some of these lists and pick the top stories that are shared by all of the lists. Of course, I might have a slight bias towards Canadian stories.

I don't think there is any argument that the No. 1 story of 2016 was the record global heat. For the third year in a row, the planet set a record for the warmest year ever. While some of the final numbers are not in, it is pretty much a given that 2016 will be the warmest year on record, with a mean annual temperature that was about 1.2 C above pre-industrial levels. It's estimated that about 0.2 C of this heating is attributable to the strong El Niño that came to an end at the close of the year. This is the first time since record-keeping began in 1880 that we have seen three consecutive years in a row with record heat.

The second big weather story of 2016 directly ties into the first story as it also deals with record warmth. This story is about the winter, or rather, lack of a winter across much of North America thanks in part to the very strong El Niño event. For many people across Canada and the northern American states, it was one of the nicest winters ever with near-record-breaking temperatures and very little snowfall. If you are an outdoor enthusiast, then the lack of snow made the winter of 2016 a bust. The warm and dry winter led to a very early spring with little to no flooding across much of Western Canada.

Our third big weather story is also directly tied to the first two. The warm and dry winter and early spring led to the development of perfect forest fire conditions around Fort McMurray. The fire started on May 1 and then, thanks to strong winds, quickly grew out of control. Within two days the fire began working its way into the town and by May 4 the fire could be seen from space. By the time it was done, the Fort



This map shows the total amount of precipitation that has fallen so far this winter (Nov. 1 to Jan. 15) compared to the long-term average. So far it has been a fairly dry winter across pretty much all regions of Alberta, with western areas being the wettest and northern and eastern regions the driest. Only a few locations west and northwest of Edmonton are above average, with much of the northern and Peace River regions reporting low to extremely low amounts.

"This is the first time since record-keeping began in 1880 that we have seen three consecutive years in a row with record heat."

cent range. The bleaching event is due to widespread warming of the oceans due to climate change along with increased ocean temperatures due to the strong El Niño event.

The next story is both global and Canadian. Arctic sea ice continued the trend of record-to near-record-low amounts in 2016. New record lows were set in January, February, April, May, June, October, and November. It wasn't a record-low year for Arctic ice due to a relatively cool and stormy summer across the Arctic that helped to spread the existing ice cover. Over the last several years, while ice cover in the Arctic Ocean has been declining, Antarctic Ocean ice cover has been increasing. This changed in 2016, with Antarctic ice cover falling below average. As of December, Antarctic ice cover is now running more than two standard deviations below average. Combine this with the low Arctic ice levels and the total global sea ice coverage is now at record lows.

That's about all the room I have for this issue. Next time we'll continue our look into the top weather stories of 2016 with a little more emphasis on our part of the world.

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

McMurray fire burned an area the size of Prince Edward Island and ended up being the costliest natural disaster in Canadian history.

The fourth big weather story of 2016, in my opinion, would be the severe air pollution events that hit India and China. It is extremely difficult to put numbers onto air pollution events; estimates of last year's extreme events put the number of dead at around five million, with a loss of about \$5 trillion to the global economy. High pressure and light winds brought several extended periods of poor air quality to large portions of Asia.

Two events in particular stand out. The first was in New

Delhi, when on Nov. 7, levels of fine particulate matter hit 999 micrograms per cubic metre. This is 40 times higher than the World Health Organization guideline. The second incident took place on Dec. 19 in Shijiazhuang, China, when fine particulate levels hit 1,000 micrograms per cubic metre. To put these levels into perspective, breathing this polluted air is equivalent to smoking more than two packs of cigarettes per day.

My fifth top weather-related story of 2016 is carbon dioxide levels. CO2 levels in our atmosphere surpassed the 400-parts-per-million level in 2016 and stayed there. There was not one

week during the year where the average CO2 levels fell below 400 ppm. With CO2 levels continuing to rise we will probably never again see levels below 400 ppm — at least in our lifetime, and probably much longer.

The sixth top weather story of 2016 is actually a continuation of a story that began in 2014. Earth's third and longest-lasting coral bleaching event hit the Great Barrier Reef particularly hard. The Great Barrier Reef is the world's largest living structure and the only one visible from space. Only seven per cent of the reef escaped some level of coral bleaching with the northern half of the reef seeing mortality levels in the 47 to 83 per

SNOWED-IN CANOLA SAMPLES WANTED

The Canadian Grain Commission needs samples of late-harvested or overwintered canola. The impact of snow on canola quality has not been studied and the commission wants to assess the impact of snowed-in and overwintered canola on the quality of the 2016 crop and assess its end-use functionality. This research will help ensure the Canadian canola industry continues to supply a consistent and dependable commodity to end-use customers. To participate in this study and receive information about the quality of your canola crop, email Veronique Barthelet at veronique.barthelet@grainscanada.gc.ca or Twylla McKendry at twylla.mckendry@grainscanada.gc.ca. Participants will receive an envelope for their canola sample and a consent card by mail. – CGC



CROPS

You've got blackleg in your fields – whether you know it or not

Blackleg was confirmed in 90 per cent of Alberta fields last year and is likely in every field, says expert

BY ALEXIS KIENLEN
AF STAFF

You probably already have blackleg in your field. But you just don't know it.

"When we did our survey in 2016, we found blackleg in almost 90 per cent of the fields we looked at," said Mike Harding, research scientist in plant pathology with Alberta Agriculture and Forestry. "If we looked harder, we probably could have found it in just about all of them."

But the good news from last year's survey of almost 500 fields is that the severity of the disease was low — the highest infestation that was found rated only 0.4 on a scale of zero to five.

"There are some fields that have high levels of blackleg that would have had an economic impact but they are relatively few," said Harding. "Currently, the majority of canola fields we visited did not have economic levels of blackleg because resistant cultivars were being used and they were effective."

But producers still need to be vigilant — high levels of the pathogen and short rotations are a recipe for trouble.

"We need to be watching for it, scouting for it and taking precautions to manage it," said Harding. "We could see the emergence of new virulent pathotypes that can overcome the resistance and that's a big concern."

The fungus infects canola in the early vegetative stages, when the plant is in cotyledon or early leaf stages. It invades the leaf, travelling



Blackleg lives up to its name but unless it is severe, blackening at the base shouldn't significantly affect yield. PHOTO: MIKE HARDING

down the stem to the base of the plant, where a canker will develop in the most severe cases.

"All of a sudden, you get a canker in the stem and it's cutting off water and nutrients and then the seed doesn't fill properly and you see these plants that are ripening prematurely and there's a yield loss," said Murray Hartman, an oilseed specialist with the province.

If stems are examined at harvest time, producers will often see blackening right at the soil surface, where the fungus is growing inside the stem. If the canker is not present, the yield loss is slight to moderate.

"Even if it doesn't look like you have blackleg, you should be snipping your plants and just seeing how many of them do have blackening and how much of the core has blackened," said Hartman. "It gives you a heads-up on whether the blackleg is starting to build in the field."

If there's a significant amount of blackening at the bottom of the stem, it will have an impact on yield.

Using resistant varieties, fungicides, and seed treatments — along with proper rotations — should keep blackleg at low levels. But the latter is a challenge given the profitability of canola.

"Blackleg is one of those diseases that will do much better in a short rotation — a one-in-two-year rotation versus a one in three or a one in four," said Hartman.

But because of the economics, Hartman said he doesn't think that growers will lengthen their rotations any time soon.

"So we have to do a better job with the scouting, and using variety resistance. In those cases where we have a problem field, those are the cases where a rotation has to be extended."

But the wild card in this situation is China, which buys about 40 per cent of Canada's canola annually.

It has been saying for years that it fears Canadian canola seed could introduce blackleg to the country (even though the seed goes straight to crushing plants and not to farms). Last year, China threatened to slash dockage levels to one per cent from the current 2.5 per cent — a potential crisis for Canadian canola exports that took the involvement of the prime minister to avert.

But the deal only secures market access at current dockage levels until 2020, so the issue should remain on the radar of producers, said Hartman.

"Their (Chinese) varieties already have blackleg resistance — it's not like they have nothing for resistance if it does get there. But it is one of the trade concerns," he said. "As an industry, we have to be cognizant of this, and as a grower, you also have to be because of your yield and the profit, too."

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Actual test results. University of Guelph, 2014.

Slumping fertilizer makers turn to high-margin industrial uses

Fertilizer makers are seeking market alternatives wherever they can find them



White potash, which has industrial uses including in pharmaceuticals, is a growth area for hard-pressed fertilizer companies. PHOTO: REUTERS/DAVID STOBBE

BY ROD NICKEL
REUTERS

Fertilizer makers are taking advantage of higher profit margins for uses in other industries, such as oil drilling and livestock feed, to ride out a severe slump.

Potash and phosphate prices touched multi-year lows last year due to a capacity glut and soft crop prices. Higher and more stable returns for some industrial applications are prompting producers to shift greater attention to what has been a sideline business for some.

Agrium said earlier this month that nearly one-sixth of production at its new Borger, Texas urea nitrogen plant will be die-

"In our view, industrial potash is a growing market."

MICHAEL
WUDONIG

sel exhaust fluid (DEF), used to cut vehicle emissions, boosting the company's slice of industrial markets.

DEF offers generally higher and less volatile margins than agricultural urea markets, Agrium spokesman Richard Downey said.

Agrium's move follows Potash-Corp of Saskatchewan's November announcement that it would halt production of red potash at its Cory, Sask. mine to focus instead on white potash, which has applications in the pharmaceutical industry.

"We've got steady customers for it, so we need to continue to fill that market. There's no doubt there is demand for it," Potash-Corp spokesman Randy Burton said.

K+S AG's new Legacy potash mine in Western Canada, opening this year, will produce industrial products along with common potash, spokesman Michael Wudonig said.

"In our view, industrial potash is a growing market," Wudonig said in an email.

K+S's revenue from industrial potash fell six per cent in the first nine months of 2016 from the year-ago period, compared with a steeper plunge of 31 per cent in common potash sales.

Sales of potash and phosphate for industrial or animal feed make up a small portion of some producers' revenue, but margins are bigger than for fertilizer, said Andy Jung, director of market and strategic analyst at Mosaic Co.

Potash applications for drilling muds are likely to see robust growth as oil and gas prices improve, Jung said. Mosaic's expansion in Brazil — bolstered by the recent announced acquisition of Vale SA's fertilizer unit — also gives it access to phosphate demand growth in animal feed, he said.

Sales of ICL Israel Chemicals Ltd.'s industrial products, including flame retardants, rose four per cent in the third quarter from a year earlier, while potash sales declined.

While industrial margins are attractive, long-term demand growth still looks strongest for fertilizer applications.

Industrial use of potash looks to rise six per cent by 2020 and represents 15.5 per cent of overall demand, according to Kevin Stone, minerals and metals adviser for the Canadian government. Fertilizer demand for potash looks to grow by eight per cent during the period.

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Market analyst finds Trump scary and more canola a safe bet

Larry Weber says the maverick president will be a market mover, and canola acres will go up

BY GORD GILMOUR
STAFF/BRANDON, MAN.

Commodity analyst Larry Weber says he's changed his morning routine recently.

In the years he's been in the business of analyzing grain markets, the first thing he always checked every morning was the news wires, looking for world events that could make a difference in markets.

"Now I'm checking Twitter to see what Donald Trump might have tweeted last night," said Weber at the recent Ag Days farm show here.

"I check it because that's what's moving markets. Canola is up \$4 today because of what he said last night. Friday (Jan. 20, inauguration day) the world is going to change, and I'm scared," Weber said. "In all my time, I have never been so fearful of an incoming president."

Chaos-in-chief

Weber said he's most concerned about what appears to be Trump's chaotic approach to governance and the presidency. While shooting from the hip might be fine for most, the role of the U.S. president is frequently to be above the fray, the calm voice of reason, and the one keeping diplomatic channels open.

"It's not really what he might do that concerns me, so much as the conventions that he won't follow," Weber said. "He's like a 13-year-old in the schoolyard."

For financial and commodity markets, that's likely to mean politically related volatility, and a lot of it, as Trump bullies and blusters, Weber said.

Much of that volatility is going to be related to currency fluctuation, Weber said, which then spills out into prices on markets throughout the world. Unlike other situations where chaos can produce opportunity, in this case finding those chances might be a

bit harder, since Trump doesn't appear to like sticking to script or being consistent.

Bean bonanza

Turning to grain markets proper, Weber said he expects to see soybeans acreage continue to grow as the crop continues to burst out of the Red River Valley and westward on the Prairies.

"We're even seeing it in Saskatchewan now, especially south of the No. 1 highway, where it's showing up in rotations," Weber said.

Weber said it's likely the Prairies will see another big bump in soybean production as growers become more comfortable with the crop, but added that any sense the acreage was coming straight off the top of canola isn't supported by the numbers.

"Canola has actually been quite stable, and so has wheat," Weber said. "It's also not coming from summerfallow, so the question is, 'where is it coming from?' and the

answer seems to be that it's coming a little bit from a lot of places."

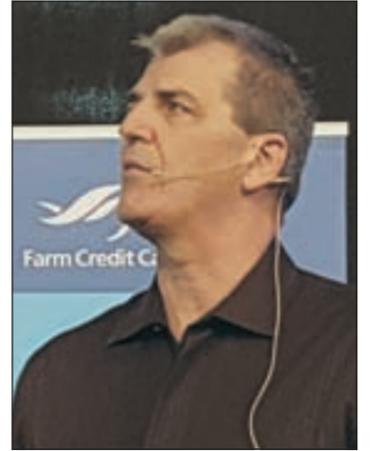
For example, Weber said oat production in Manitoba likely contributed about 100,000 acres or so to bean production, and that was the biggest effect he could see in his analysis.

Canola too

Weber also said he's looking for big canola acres this spring, with farmers pencilling out their budgets for the spring now. In fact he's expecting to see the return of tight canola rotations, with economics beating out agronomics yet again.

"Farmers are telling me, 'I'm going to grow it because it's the only thing I'm going to make money at,'" Weber said.

In fact, Weber said this trend has caused him to rethink his long-held view that the crop would always have a hard acreage ceiling because of agronomic limitations, preventing it from reaching the most optimistic future estimates of 22 million



Commodity analyst Larry Weber.

PHOTO: GORD GILMOUR

or 23 million acres in Western Canada.

"I've thrown that out the window," Weber said. "There was a huge shift to canola when I did my annual 100-farmer survey."

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Hemp hits new high as building material on Dutch bridge

While plenty of cannabis goes up in smoke in coffee shops around the Netherlands, Dutch researchers have found a new use for it — as an environmentally friendly building material to rival cement or steel.

They have used hemp and flax to make an experimental footbridge to test the materials' load-bearing properties.

"Actually it's the first 'bio-based' bridge in the world, as far as we know," said Rijk Blok, an assistant professor of structural design at the Eindhoven University of Technology.

The hemp and flax fibres are combined in a resin that is stuck to a core made of polylactic acid, a polymer also made of plant material, to form the span of the 14-metre bridge over a stream on the university campus.

The developers — at several Dutch colleges and companies — are using sensors to monitor the bridge's performance as people walk and run over it for a year.

They first had to demonstrate that the bridge could withstand a load of 500 kg per square metre in laboratory stress tests before building permission was granted.

"This was our research — trying to find out: Can they be used in a structural load-bearing capacity? And this bridge is the proof," Blok said.

— Reuters

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PHOTO: Glenbow Archives, NC-6-3334



Grow a better tomorrow.

Clubroot arrives in Ontario

Testing is underway to see if the disease matches the Prairie strain and if resistant varieties will work there

BY JOHN GREIG
STAFF

Ontario has its first case of clubroot disease in canola — and further testing has confirmed clubroot in canola fields across the province.

During the 2016 growing season an agronomist in the Verner area of northern Ontario examined a canola field and found the distinctive clubbed roots, said Meghan Moran, a canola and edible bean specialist with the Ontario Ministry of Agriculture, Food and Rural Affairs.

The agronomist sent a sample for

testing and, after confirmation of the disease, contacted the ministry. “Treat it with respect and really focus on reducing spread to other fields,” said Moran.

The disease can have a significant yield impact, although the first diagnosed field in Verner was harvested normally.

Clubroot has been found in Ontario in cole crops such as cabbage, turnip or broccoli, but this is the first time it has been diagnosed in canola. The oilseed is grown in northern Ontario and in a fairly narrow strip of growing area in the northern part of southern Ontario, south and east of Georgian Bay across to the area around Ottawa.

Vegetable crops are not grown on a large scale in the same area.

Clubroot has been found in canola in Western Canada, especially central Alberta, since the early 2000s. It has more recently been found in canola in Manitoba, but is not yet widespread. It has also been sporadically found since 2011 in surveys in Saskatchewan.

After the first case was confirmed in Ontario, provincial officials undertook a survey of soils in canola-growing areas. The survey looked at 95 samples, including 68 from northern Ontario and 27 from southern Ontario. It found eight positive fields in the northern group of samples and three in the south-



Canola plants with clubroot galls from a field near Verner, Ont., about 50 kilometres west of North Bay. PHOTO: ONTARIOCANOLAGROWERS.CA

ern group. All samples came from canola fields.

The next step, currently underway, is to determine pathotypes for all of the positive samples to identify the strains of clubroot in Ontario.

This is valuable information, as the pathotype will determine if the Ontario disease is the same as western Canadian strains; if clubroot-resistant varieties will have an effect in Ontario; and even if the

same strains are present in different growing areas in Ontario.

Moran doesn't believe much will be gained trying to figure out how the disease got to Ontario canola fields. It's better to dedicate energy to preventing its spread to other fields and areas, she said.

“It is manageable, but only if you take it seriously.”

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Pulse Canada sets ambitious target to expand markets

The goal is to find new uses for 25 per cent of the industry's production by the year 2025

STAFF

Pulse Canada is aiming to find new uses for up to 25 per cent of the industry's production by the year 2025.

The recently approved "25 by 2025" target was set as part of the organization's long-term planning process and will give the whole industry a target to strive for.

The industry will marshal its resources to create new demand in new use categories, Pulse Canada said in a media release. Snack foods, tortillas and breakfast cereals are just a few product categories that represent growth potential for pulse ingredients which offer food manufacturers protein, fibre, slowly digestible starch, and an unparalleled environmental sustainability story.

The industry made the announcement earlier this month on Global Pulse Day, which aims to increase awareness of the impact that pulses can have on the health of people and the health of the planet.

"Global Pulse Day and the 2016 International Year of Pulses have been incredibly successful platforms that have helped create awareness for pulses and the contribution they make to human health and environmental sustainability," Pulse Canada chair Lee Moats said. "We believe we can continue to build momentum and turn that awareness into increased demand and higher consumption."

"We believe we can continue to build momentum and turn that awareness into increased demand and higher consumption."

LEE MOATS

The target comes as the industry considers its sustainable growth strategy. The Canadian pulse industry continued to expand production in 2016 to meet strong demand with a 28 per cent increase in lentil production and a 51 per cent increase in pea production over last year.

"Our traditional markets will always be a top priority for us and we'll continue to invest into improving service and product quality for Canada's long-standing customers," Moats said. "Pulse ingredients are also attracting a lot of attention from non-traditional markets and we need to ensure that we sharpen

our focus on that new demand in order to diversify our options and deliver the value we know that pulse ingredients can add to a wide range of new food products."

In 2016, the number of food products containing pulses launched in North America grew by approximately 30 per cent. "As we look ahead, the definition of food quality will include social indicators like health outcomes, environmental indicators like greenhouse gas emissions and economic indicators such as affordability," Moats said. "Our journey to 25 by 2025 aligns well with the future of food and we're looking forward to working with our partners at home and around the world to meet the needs of customers of today and customers of tomorrow."



Pulses can be used for food ingredients as well as in snack foods, tortillas, and breakfast cereals. PHOTO: THINKSTOCK

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FMC

Western grain shipping relatively smooth so far

Although concerns have been raised about CP Rail's performance, a big crop and cold weather haven't derailed grain exports

BY ALLAN DAWSON
STAFF

Western Canadian grain has been moving fairly well this crop year despite a 76-million-tonne crop and bitterly cold weather, which in 2013-14 was blamed for a huge and expensive grain-shipping backlog.

"All things considered things are going pretty good," said Mark Hemmes, president of Quorum Corporation, the federally appointed grain monitor. "There is no question that CN is doing a heck of a lot better than CP right now. It had some troubles and it is kind of coming out of it."

Extremely cold weather causes problems with air brakes resulting in shorter trains but unlike three years ago, it hasn't caused a crisis, said both Hemmes and Wade Sobkowich, executive director of the Western Grain Elevators Association.

"But it is concerning, CP's most recent number, and how far it is behind," Sobkowich said in an interview Jan. 10.

The Ag Transport Coalition reported in week 20 of the 2016-17 crop year that CP Rail delivered only 58 per cent of the cars grain shippers ordered. In week 21, CP Rail supplied 74 per cent of the ordered cars. CP is 932 cars behind and "that's significant," Sobkowich said.

But CP Rail said it's concerned the Ag Transport Coalition isn't properly measuring its performance because three-quarters of its grain business is via its Dedicated Train Program, which gives grain shippers control of cars in Canada and the U.S.

"Trying to compare DTP performance to an 'order fulfilment' model... simply does not work," CP said in a statement, adding the best way to measure rail performance, which it does weekly, is tonnage.

"CP continues to move volumes consistent with supply chain capacity and remains well positioned to meet the needs of the supply chain," CP Rail said.

From week eight until week 23, CP moved 8.4 million tonnes of grain, the company said. That's four per cent less than 2015-16,

which was a record year, three per cent above 2014-15 and flat compared to 2013-14, it said.

However, Sobkowich said the grain movement report captures grain moved through CP Rail's Dedicated Train Program.

The grain monitor's week 22 report shows the railways combined have moved 15.64 million tonnes, down just two per cent from 2015-16 and five per cent higher than the five-year average.

Even though the grain-shipping pace is similar to last year, it doesn't reflect car demand, Sobkowich said. CN Rail is meeting around 95 per cent of the weekly demand, he said. In contrast CP Rail has only supplied shippers with 80 per cent or more of the cars ordered 40 per cent of the time and has hit 90 per cent once.

"CP average weekly on-time order fulfilment performance this year is 77 per cent," Sobkowich said.

'Lot of grief'

CP Rail has faced challenges, Hemmes said.

"It has had a little bit of a shortage of staff, it got hit with worse weather (than CN). There has been a lot of snow in the mountains so it loses time on transit there," said Hemmes, adding CN Rail has a better route through the mountain.

Meanwhile, CP Rail is "perpetually" about 10 trains behind, Hemmes said. That's equivalent to two ships, but translates into more because not all the grain from one train goes into just two ships.

"That is where the whole thing starts to unwind," he said. "The point I'm making is this is nowhere near a crisis like in 2013-14, but it does cause a lot of grief for people because it means every anchorage in Vancouver is full (with 27 ships waiting for grain). It means that people are incurring incremental costs that they wouldn't otherwise because they have to anchor the vessels in what amounts to be a day's sail away because it is way out in the Georgia Strait."

Grain is moving relatively well because the railways have less other traffic to haul, Sobkowich said. But Hemmes said improved communications between the railways and grain shippers have helped too. The railways agree.

"It is concerning, CP's most recent number, and how far it is behind."

WADE SOBKOWICH

"Supply chain collaboration has enabled this performance supported by new commercial car supply contracts with reciprocal penalties, which have driven more accountability to supply chain participants," Kate Fenske, CN Rail's manager media and community relations said in an email.

"CP has been a collaborative and proactive leader in addressing supply chain capacity challenges related to grain, specifically in Vancouver..." CP rail said. "Over the last few months CP, in conjunction with customers and terminals, has led the following important changes on the West Coast, including investing millions to realign track configurations, implementing a revised operating plan, and driving 24-7 accountability."

Several grain companies have boosted Vancouver's export capacity through capital investments in their grain terminals, Hemmes said.

"The flow through the port is much better," he said. "It is still an issue of getting the cars in the country and getting them to port position."

The only way to ensure adequate rail service is railway competition, Sobkowich said. To mimic market discipline grain shippers want legislation compelling the railways to enter service agreements with financial penalties when the railways fail to provide agreed-to service. His organization wants those provisions to be part of the amendments to the Canada Transportation Act expected this spring.

The railways say that would discourage investment and make grain transportation less efficient.

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Western grain is moving relatively well despite bad weather and a big crop, but shippers complain CP Rail could do better. CP Rail says it's moving almost as much grain as it did last crop year, which was a record. FILE PHOTO

How to get the most bang from your nitrogen buck

There are products available to protect you from nitrogen loss, as well as management techniques that help

BY ANGELA LOVELL
AF CONTRIBUTOR

Leaching deep into the ground, gassing off into the atmosphere, soil denitrification from microbial activity — all ways you can lose your valuable nitrogen fertilizer.

Finding ways to reduce these losses and help producers get more value from their N fertilizer is crucial, and that begins with understanding how these losses occur, said researcher Fabian Fernández at a recent agronomists conference in Winnipeg.

Ammonium volatilization usually occurs with urea but can occur with any N source that will transform to ammonia, said Fernández, a professor with the department of soil, water and climate at the University of Minnesota.

When urea comes into contact with soil water it produces carbon dioxide and then ammonia. If that transformation occurs on the soil surface a lot of the N is lost as ammonia gas.

Fernández shared some research from 2014 which showed that urea applied at the surface lost 50 per cent of its N into the air after 25 days, and when applied at one inch below the surface there were still significant losses.

"This study would suggest that producers need to be looking at incorporating the urea into the soil to a depth of at least two inches to protect that investment from getting lost into the atmosphere," said Fernández.

Volatilization losses are often highest in moist soils that are drying quickly in the spring. Dry soils are not usually as prone to volatilization losses, but high soil pH can also enhance the process and lead to greater losses.

The biggest potential for volatilization is where producers have a lot of residue on their fields. The more urease enzymes that are in the soil, the greater is the potential for the breakdown of urea and volatilization of ammonium. Crop residue typically has 20 to 30 times more urease concentration than the soil underneath.

"That is one of the reasons why we incorporate urea into the soil, not only to help ammonia be retained in the soil, but also to pull the urea away from the high concentration of urease that you typically have on crop residues," said Fernández.

Urease is an enzyme that is present in the soil, especially in crop residue, and it's extremely persistent because it's hard to break down. Soil temperature has a big impact on that process. At high temperatures — around 29 C — urease breaks down at double the rate it will at 1 C, but even at lower temperatures there can still be losses due to volatilization.

"A fall application in cooler temperatures might be better to reduce losses, but it is still better to incorporate the urea into the soil to protect it from volatilization," said Fernández.

Preventive products

Urease inhibitors — such as the trade names Agrotain and SUPERU, from Koch Agronomic Services — contain thiophosphoric triamide (NBPT) which



Fabian Fernández, University of Minnesota. PHOTO: UNIVERSITY OF MINNESOTA

blocks the reaction that turns urea into ammonium carbonate, reducing the amount that converts to ammonia and escapes into the atmosphere.

The N form will have an impact upon how effective urease inhibitors and nitrogen stabilizers are.

"If I had to make a decision about where to put my money, urea would be No. 1, and UAN No. 2 because with UAN you have less potential for volatilization losses than you have with urea," Fernández said. "One hundred per cent of urea is subject to volatilization, whereas only a portion of the UAN is in urea form."

Studies in Illinois have looked at different broadcast methods with different N sources and inhibitor or stabilizer products, and found that when applying N on the soil surface, a product with NBPT will help protect it from volatilization, but dribble banding the N is better and injecting it below the surface is best for preventing volatilization losses. That said, if producers are able to inject the urea into soils they may not need to add the inhibitor product as they are already better protecting the N source, said Fernández.

An inhibitor is definitely a good investment when broadcasting urea, in no-till situations where there is a lot of residue, in sandy soils, under high pH conditions and in moist spring soils that dry out quickly.

Nitrogen stabilizers

Nitrification is the conversion of ammonium to nitrate by bacteria in the soil making it vulnerable to leaching and denitrification.

Nitrogen stabilizers such as N-Serve and eNtrench from Dow Agro Sciences Canada contain nitapyrin, which delays the process of conversion. N-Serve is for use with anhydrous ammonia, and the eNtrench, which is encapsulated, can be used with urea, UAN and also manure.

N stabilizers degrade slower and so provide better protection for the N source in high organic matter soils than in ones with low organic matter. It's best to apply these products at lower temperatures, because they break down more slowly and bacterial activity

that increases nitrate formation is also lower. Data from Illinois studies shows that using an N stabilizer increased the ammonium recovered at around 16 C to 20 C, whereas in a test strip where none was applied only half the ammonium remained — the rest had converted to nitrate.

"As farms get larger it is a challenge to find a window of opportunity to apply N in the fall," Fernández said. "Temperatures vary day to day and year to year, but trying to ensure that temperatures are lower than 10 C, and likely to keeping getting cooler when N is applied, is important because at this temperature the relative amount of nitrate accumulation goes down quickly, but will increase if it gets warmer."

Nitapyrin doesn't move far in the soil — typically no more than three inches from the injection site.

"It stays where you put it in the soil," Fernández said. "In studies, a majority of the nitapyrin was found within one inch of the application point, and in drier soils it will protect a smaller amount of N than when it is applied under adequate moisture conditions. It's important to know how these products work because how much of the N you are applying will be protected by that product is nothing to do with the chemistry or the atmosphere changing, it has everything to do with the soil conditions."

ESN polymer-coated N is a slow-release, granular N product that also has demonstrated a good ability to protect against N losses from leaching, volatilization and denitrification.

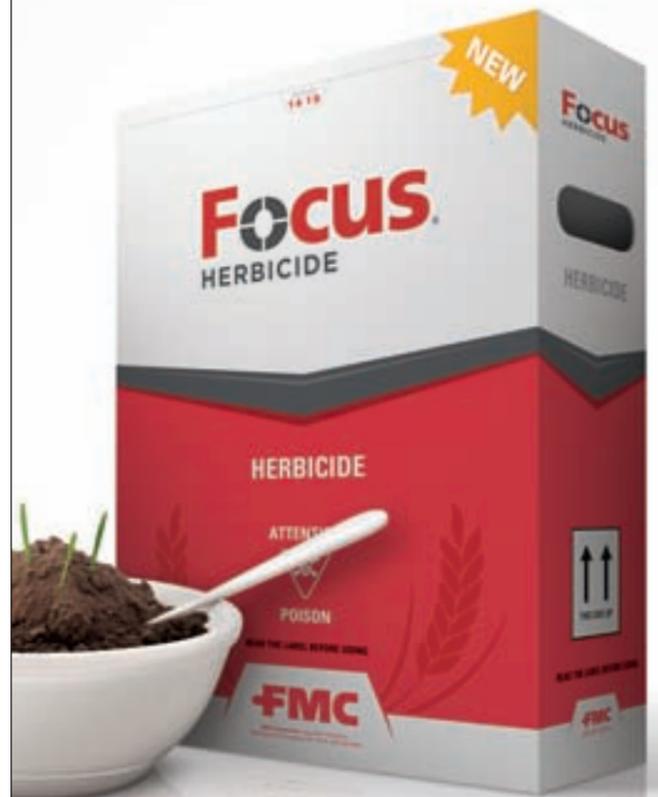
Whether producers choose to use a fertilizer enhancer or not, in general, a spring fertilizer application is more beneficial for keeping N in the soil for the crop than a fall application because there is a shorter window of time for potential N loss, said Fernández. When they do use these products they shouldn't be lulled into a false sense of security.

"Ammonium is not stable. When we talk about stabilizing N it's not stable for good, and we still need to use good agronomy with all of these technologies," he said.

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FMC

U.S. takes step to boost organic food production as demand outstrips supply

Grain producers are expected to benefit most as demand for both organic feed and wheat soars

BY TOM POLANSEK
REUTERS

The U.S. Department of Agriculture has taken a step toward increasing the production of organic foods — which has not kept pace with demand — by launching a program to certify farmland that growers are in the process of switching to organic.

Obtaining certification under the program will allow farmers to sell products raised in accordance with organic guidelines for higher prices than conventionally grown goods, according to the Organic Trade Association, an industry group. That should help growers cover the extra costs associated with transitioning to organic farming, the group said.

Demand for organic foods has been strong as consumers are increasingly seeking products considered to be more natural and healthy. In 2015, total organic product sales hit a new high of US\$43.3 billion, up 11 per cent from the previous year's record level, according to the Organic Trade Association.

The program will "facilitate the investment in transitional agriculture through

Farmers will need to prove they have been following the guidelines for organic production for at least a year to be certified as transitioning their land.

a consistent set of rules, and ultimately support the continued growth of organic agriculture," the USDA said in a notice.

Farmers must grow crops for three years without using prohibited substances, such as genetically modified seeds and synthetic pesticides, in order to be certified as fully organic.

Those who are switching farmland to organic production must follow the same

regulations as those who have already been fully certified, the trade group said. So far, however, farmers have not been able to designate their crops as being in transition in an attempt to sell the products for higher prices.

Producers of grains, such as wheat, will benefit most from the new certification program because that is the sector in which demand is most outstripping supply, said Nate Lewis, farm policy director for the trade association. Farmers are also grappling with weak prices for conventional grains because of a global supply glut.

Organic grains have seen heavy demand to feed organically raised livestock and to make organic breads and cereals for humans.

Farmers will need to prove they have been following the guidelines for organic production for at least a year to be certified as transitioning their land, according to the trade group. Agents accredited by the USDA will verify compliance.

The new program does not provide standards for labelling food grown on farms that are in the process of transitioning to organic. The trade group said it expected to work with the food industry on guidelines for labelling.



Supply of organic grain hasn't been able to keep pace with demand for both organic bread and feed. PHOTO: THINKSTOCK

Ag minister pitches importance of agri-food trade

Lawrence MacAulay is pointing out the benefits of two-way food trade between the two countries to U.S. agriculture legislators

BY ALEX BINKLEY
AF CONTRIBUTOR

Amid rumblings of U.S. action against Canadian agri-food imports, Agriculture Minister Lawrence MacAulay recently spelled out the importance of cross-border trade to American agriculture leaders.

In a speech in Baton Rouge, Louisiana to the recent annual meeting of the State Agriculture Leaders and the Legislative Agriculture Chairs Summit, MacAulay pointed out that \$50 billion in agriculture and food products crossed the border last year.

"We are each other's largest trading partner in agriculture and food," he said. "Our agricultural trade is balanced, meaning we export just about as much as we import."

Nine million American jobs "depend on trade and investment with Canada" and the agri-food industry is highly integrated in North America, MacAulay told the U.S. politicians.

"Whether it's beer or burgers or bacon, chances are you'll find a little bit of Canada and the United States in every bite," he said.

The minister also reminded the audience that "the United States exports more agricultural products to Canada than it exports to China."

In addition to protests against supply-managed products and a new challenge under consideration over wheat, there is concern that the U.S. country-of-origin labelling for meat shipments could be revived even though the World Trade Organization ruled it violated international trade laws.

MacAulay said a better course of action is continuing to work together to become more competitive around the world.

"That helps all of us. It helps our farmers, and it helps our people and our economies," he said. "The world's demand for food is growing. There's no question that our nations can respond to that demand, with our high-quality food and world-class producers. I want our producers to have access to those markets."

"And we must continue to show the world the benefits that trade brings for job creation and economic growth — not only for agriculture, but for all sectors."

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It's a learning curve, but cover crops are on the rise in Ontario

Farmers in that province are on the cutting edge of adopting this technique in Canada



Farmers had mixed results when planting into green cover crops in 2016. PHOTO: SUBMITTED

BY JOHN GREIG
STAFF

Cover crops continue to be one of the most discussed topics in Ontario crop farming.

However, the discussion has moved beyond the existence of the soil-health-building practice, to the fine details of how to manage such a complex biological system.

At a recent conference in Ridgetown, Ont. dedicated to cover crops, discussion moved to inter-seeding between the rows of living crops, especially corn and planting into living cover crops, called 'planting green.'

On Gerard Grubb's farm near Mildmay, Ont., he is interseeding ryegrass with a Valmar air system that moves the seed to booms from which drops place the seed between the corn rows or on wheat. The system allows them to do it quickly and later in the season than trying to frost seed a cover crop.

Grubb said he doesn't want to ever disturb the soil while planting a cover crop, as it will then result in more weeds. As one of the goals of planting a cover crop is weed suppression, he is determined that he will continue to place his cover crop seed on top of the soil.

Other cover crop innovators, however, are focusing on getting seed into the soil with the soil-to-seed contact that results in better germination.

It was a request from a farmer that led Shawn Redick of Delta Power Equipment to build a new planting tool.

"Growers wanted a solution to put on 28 per cent (of their nitrogen) and plant cover crops at the same time. They found broadcast was not great. You need that seed-to-soil contact," he said.

He took a Great Plains Nutri-Pro 2330LL toolbar and added in a Valmar applicator for the seed. That meant there was no room for a liquid fertilizer container on the toolbar, so they pulled a Montag 1,200-gallon tank behind on a cart for the 28 per cent. Tubes for the seed and the fertilizer were run to the coulters. Both of the application units had variable-rate drives, so a Trimble field application control was used.

Delta then used the unit across several farms in different soil types. Redick said he had much better results with the counter-applied seed versus broadcast. The trials used a 60 per cent annual ryegrass and 40 per cent red clover mix.

Jaclyn Clark, a master's student at the University of Guelph, is conducting research on interseeding cover crops and the resulting corn yield. Her trials drilled and broadcast seed into corn at V4 to V6 stages of growth using different mixes of red clover and annual ryegrass. After a season and a half, her trials so far show that corn yields are not impacted by a live cover crop. She has also found that cover crop biomass is significantly greater when the corn is harvested as silage versus grain corn.

She has found that drilled seed survives better than broadcast.

The debate over drilled seed is one typical of the cover crop discussion. Different farmers have variable results with the same process, seed and technology.

Many challenges

Cover crops aren't for the faint of heart, but there isn't much doubt that more farmers are using cover crops, and despite some disasters this past year, they are continuing to experiment more each year. That's especially true with cover crop innovators.

Four of those innovators also spoke at the conference to an overcrowded room of farmers.

Laurent Van Arkel of Dresden had a challenging cover crop year like many farmers. He planted soybeans in a green cover crop which resulted in a five-bushel-per-acre yield hit (compared to soybeans planted into a killed cover crop) because the thickness of the cover crop was too much competition.

In a way Van Arkel and others speaking about cover crops at the conference have had too much success as many said they wanted to reduce cover crop seeding rates, as some of their stands, especially ryegrass, were too thick to plant into or kill easily.

"We are farming for the future. Cover crops are part of our future and we just have to do it now."

DAN PETKER

Rob Luymes also tried to interseed a cover crop in corn. He harvested the corn for silage, then watched the cover crop grow well. The next spring they planted into the green cover, and the planting failed.

Luymes said the rows closed well, but when the hot and dry weather arrived shortly after, the seed trenches opened up and the stand was knocked down to 40,000 plants per acre.

Luymes and other speakers like Dan Petker and Kerry Lunn all agree that more research and understanding is needed to figure out how to better close the soil over the seed.

Most have used the standard rubber packer wheels that come with planters, but they are looking at alternatives that will do more to crumble the soil over the seed.

Petker said they couldn't get enough down pressure when planting into a green crop to get rows to close.

Early cover crop adopters each have their own reasons for using cover crops. For Van Arkel it's keeping living roots in his soil, for Petker, it's to get the advantages of wheat in a rotation each year, versus every three. For Lunn, it was to build moisture retention ability and for Grubb, it was to increase soil tilth.

"We are farming for the future," said Petker. "Cover crops are part of our future and we just have to do it now."

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Heads-up for farmers about commercial imports from the U.S.

A farm couple who didn't know about recent changes recommends getting an import number and filling out a B3 form in advance



Commercial importation changes aren't a big deal – if you're aware of them and fill the forms out ahead of time.

PHOTO: CREATIVE COMMONS/JIMZ47

BY ALLAN DAWSON
STAFF

Manitoba farmers Bob and Shelley Bartley want to get the word out to fellow farmers and other business owners about paperwork changes when commercially importing from the U.S.

Their advice is to get an importer and exporter number from the Canadian Border Services Agency (CBSA) and do the paperwork in advance of importing goods. Even if you don't plan to export, having an exporter number is necessary if you decide to ship back what was imported.

"We went down to Walhalla

(North Dakota in August 2016) to pick up some parts," said Bob Bartley. "Normally when you come back to the border with farm parts they don't seem to worry too much about it. But as soon as we were in the door we had to fill out a form on every individual piece that we were bringing back as to where it came from (and its weight). There was a big book with all the code numbers for each part.

"Apparently you can do all this online so that when you get to the border you've got it all filled out and it's not a big deal. But when you land there and it is all news to you it is a big deal."

As of March 2016, Canadian businesses importing commercial goods from the U.S. must have an import number issued by the Canada Revenue Agency. It's part of a policy that is being more strictly adhered to, following the auditor general's report that identified inaccuracies in the proper accounting of commercial importations, spokesperson Jacqueline Callin said in an email.

"As a result of this, farmers, as a commercial enterprise, need to correctly identify their imports as commercial goods and account for them in accordance with commercial accounting procedures," she wrote.

"The importer will now have to complete a B3, Canada Customs Coding Form, instead of the B15 form."

Because the Bartleys returned from the U.S. with their parts to a Manitoba border crossing during business hours and had their farm business number with them, they were able to get an import and export number, which is added to their nine-digit business number, by phoning the Canada Revenue Agency.

"When we got that import licence number they (CRA) suggested we get an import and export number," Bob said. "It is the same number but it gives you permission to export because if you import something and say it is damaged, or it's not the right one and you have to send it back, then you've got to be able to export it. So we were able to do that all over the phone right from the border crossing."

The process took more than two hours during the busy harvest time, Shelley said. The Bartleys want to get the word out so farmers get an import number and are able to fill out the necessary B3 form online before bringing parts back from the U.S.

"While we were there (at the border crossing) many other business people were picking up stuff across the line and just threw the paper on the (Canadian border official's) desk," Shelley said. "They stamped it and away they went."

To get more information about an import number call CRA at 1-800-959-5525 or go to www.cra-arc.gc.ca and search for 'business registration online.'

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'Gene-silencing' technique is a crop protection game changer

This spray uses RNA to trick a plant into shutting genes off, thus evading diseases

STAFF

Most crop protection products act by attacking and killing a pest, but a new technique gives crops an added ability to ward off pests and diseases by targeting their genes.

Researchers at the U.K.'s University of Surrey and Australia's University of Queensland, have developed a non-toxic, degradable spray which is capable of disabling specific genes in plants.

'BioClay' spray protects plants from disease-causing pathogens

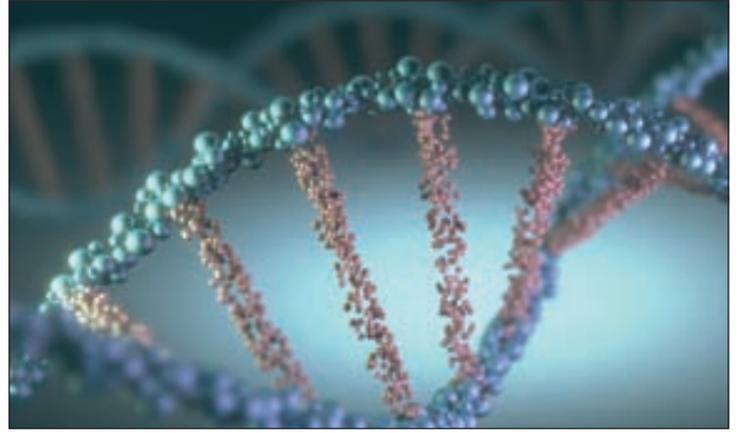
without altering their DNA or relying on toxic ingredients.

The research, published in the journal *Nature Plants*, could help reduce the estimated annual loss of 30 to 40 per cent of global crop yields. It also offers a possible way to address the need for higher production, growing regulatory demands, pesticide resistance, and concern about global warming driving the spread of disease.

The researchers have found that by combining clay nanoparticles with designer 'RNAs' (molecules with essential roles in gene biology), it is possible to silence certain genes within

plants. The spray they have developed has been shown to give plants virus protection for at least 20 days following a single application. When sprayed with BioClay, the plant 'thinks' it is being attacked by a disease or pest insect and responds by protecting itself.

The latest research overcomes the instability of 'naked' RNAs sprayed on plants, which has previously prevented them from being used effectively for virus protection. By loading the agents onto clay nanoparticles, they do not wash off, enabling them to be released over an extended period of time before degrading.



Researchers say a new technique to silence genes is a whole new way of looking at crop protection. PHOTO: THINKSTOCK



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HEARTLAND

Community news
and events from
across the province

Agriculture Day event aims to bond producers and consumers over dinner



A Seat at our Table organizers hope to dispel some of the common myths about agriculture through a series of long-table events, like this one at 7K Panorama Ranch near Millarville in 2015. PHOTO: WWW.ASEATATOURTABLE.COM

BY JENNIFER BLAIR
AF STAFF

Great conversations often happen over a great meal, and that's just what the organizers of *A Seat at our Table* are banking on for their upcoming Canada Agriculture Day event in Olds.

"In typical agricultural fashion, we have a tendency to present ourselves through facts, and the average consumer isn't going to get that — they're going to get food," said Terry Andryo, senior agriculture marketing manager for ATB Financial.

"We felt that it was important to get consumers to engage with the farming community and that it was important that we started with food rather than facts."

A *Seat at our Table* was launched in 2015 as a way of "bringing rural to urban," said Andryo, who represents one of 22 event partners involved in the agriculture and food sector. The concept is a simple one: Bring farmers and consumers together over a five-course meal and encourage them to talk about food.

"Typically, we don't do that," said Andryo. "When we celebrate things as an agricultural industry, typically what will happen is that we'll get a bunch of people together from the agriculture sec-

tor and we'll all slap each other on the back and go, 'We're doing the right things.' It's the same with consumers.

"For us, it's about getting these two parties together to have a real conversation about food."

That idea has grown since the first long-table event in 2015, he added. The organizers have hosted at least five long-table dinners, each with 100 participants, in Calgary, Edmonton, and Grande Prairie, but the upcoming event near Olds is the most ambitious yet.

"In celebration of Canada's 150th birthday, we thought we'd bring 150 people together — 75 consumers and 75 people involved in agriculture in some shape or form — to have a conversation about food," said Andryo of the event, which will be held Feb. 16 at Willow Lane Barn.

And everyone at the table will be a millennial — people under the age of 35, "the age group that's going to make drastic change for the next generation."

"What we want to do is get ahead of the curve," said Andryo. "The people who are really going to make the change and the people who are the squeaky wheels are the millennials."

The five-course meal will also be prepared by millennial chefs and paired with five different spirits or beers, all brewed or distilled by people from that age cohort.

"We felt that it was important to get consumers to engage with the farming community and that it was important that we started with food rather than facts."

TERRY ANDRYO

"Everything about this is basically going to be millennial focused," he said. "We really want people to get exposed and have conversations with strangers. That's why we want millennials. We know they'll talk. We know they'll tweet."

In many cases, millennial consumers are two or three generations removed from the farm, and "they've never been exposed to it," said Andryo.

"Hopefully, we can get the consumers who have never been to a farm out to a farm and debunk

a lot of fallacies," he said. "That's the objective of these dinners — to debunk a lot of issues but also to listen to consumers first to hear what their concerns are. We know from an agriculture perspective that it's probably less than one per cent that are the squeaky wheel, but they make a lot of noise, which makes it tough on agriculture."

But for the event partners, the real benefit lies in the research that's taking place before the event. Every participant will complete a 25-question online survey on buying decisions. Those results will be compiled to help the partners — which includes seven provincial crop and livestock organizations — "make changes" based on consumer wants and needs.

"Consumers are going to be asked questions about what's important to them," said Andryo. "Is local important? Is GMO free important? Is gluten free important? We're really going to find out what is important to the consumer before the dinner, and then we're going to share it at the dinner."

"For the agriculture world, it's going to be a learning session to hear what people are saying about agriculture, and we really hope to take our fear and turn it into curiosity."

jennifer.blair@fbcpublishing.com

what's up

Send agriculture-related meeting and event announcements to:
glenn.cheater@fbcpublishing.com

Jan. 31: Working Well workshop, locations t.b.a., Eckville (also Feb. 8 Springbank, Feb. 9 Milk River, Feb. 14 Valleyview, and March 8 St. Michael). Contact: Aimee Delaney or Gary Lewis, 403-350-2150 or 403-845-4444

Jan. 31: Human Resource Essentials, Agriculture Centre, Airdrie. Contact: Cindy Cuthbert 780-538-5287

Jan. 31: Pricing Principles, location t.b.a., Grande Prairie. Contact: Ag-Info Centre 1-800-387-6030

Jan. 31-Feb. 2: FarmTech, Northlands, Edmonton. Contact: Rick Tailieu 844-232-3584

Feb. 1: Verified Beef Production + Training & Workshop: Hardgrass Hub, Pollockville. Contact: CARA 403-664-3777

Feb. 1: Carbon 201: Practical Strategies for Carbon Reduction, Four Points by Sheraton, Edmonton (also Feb. 2 in Calgary). Contact: Ted Flitton 403-201-3657 ext. 22

Feb. 1: Human Resource (HR) Essentials, Provincial Building, Stony Plain. Contact: Cindy Cuthbert 780-538-5287

Feb. 2: Grazing High Legume Pastures, Bashaw Community Centre, Bashaw. Contact: Eric Neilson 780-582-7308

Feb. 3-4: Feeder Associations of Alberta 2017 Convention, Sheraton Red Deer, Red Deer. Contact: FAA 1-780-674-2622

Feb. 3-5: Alberta Association of Agricultural Societies Convention, Ramada Conference Centre, Edmonton. Contact: Alberta Association of Agricultural Societies 1-780-427-2174

Feb. 7: Peace Country Beef Cattle Day – Grazing High Legume Pastures, Dunvegan Motor Inn, Fairview. Contact: Andrea Hanson 403-948-1528

Feb. 7: Farm Dugouts, Lakedell Agricultural Society, Lakedell (also Feb. 15 in Leduc County). Contact: Heather Diickau 780-352-3321 ext. 270

Feb. 7: Young Ranchers Forum, Hanna Legion Hall, Hanna. Contact: CARA 403-664-3777

Feb. 7: FCC Ag Outlook 2017, Best Western Plus, Camrose (also Feb. 9 in Taber). Contact: FCC 1-888-522-2555

Feb. 8: Cattle Marketing & Management Workshop with Bale Grazing Demo, location t.b.a., Barrhead. Contact: Sandeep Nain 780-349-4546

Feb. 8: Getting Into Farmers' Markets, Keephills Community Hall, Parkland County (also Feb. 9 in Airdrie). Contact: Eileen Kotowich 780-853-8223

Feb. 8: Young Farmers Forum, Cereal Hall, Cereal. Contact: CARA 403-664-3777

Tell your story by sharing pictures from your farm

Alberta producers are being invited to share photos to celebrate Canada's Agriculture Day, which takes place on Feb. 16.

Ag for Life is creating an online photo book called #WeAreAbAg. The aim is to highlight the work and lives of more than 89,000 people employed by the agri-food industry in the province, said Luree Williamson, CEO of the non-profit group, which seeks to build awareness and appreciation of agriculture.

"The book provides a simple but effective way for farmers, ranchers, agrologists, nutritionists, feed processors, crop advisers, and all those involved in the many fac-

ets of agriculture to show their agriculture pride and participate in Canadian Ag Day," Williamson said in a news release. "We're excited to help showcase the diversity and complexity within the industry."

To share your agriculture story and photos go to www.agricultureforlife.ca.

"We are looking for a wide range of photos, including farms, ranches, families, livestock, equipment — essentially anything related to agriculture," Ag for Life said in the release.

The book will be posted on Ag for Life's website, and social media channels, plus emailed to all those who submit pictures for the photo book. — Staff



PHOTO: THINKSTOCK

NEXT-GENERATION 4-H'ER?



Cole Neiboer shows off his 'seed art' at Cloverville — a one-day-only 'town' created earlier this month by 4-H Alberta's Southern Region to mark the organization's 100th anniversary in Alberta. The crafts area was one of many attractions at Cloverville, which was built by dozens of 4-H clubs from the region inside Lethbridge's Exhibition Park Pavilion. A gala dinner was attended by more than 500 people, including Lieutenant-Governor Lois Mitchell. PHOTO: LETHBRIDGE & DISTRICT EXHIBITION

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USED EQUIPMENT

BALERS

NH BR7090 2011\$28,995

NH BR780 2005.....\$17,995

NH BR780 2005.....\$19,500

Hesston 856A 2002.....\$17,100

NH BR780A 2007.....\$16,700

NH BR7090 2009\$35,000

NH 688 2002\$12,500

NH 560 2014\$37,500

MOWER CONDITIONER

NH 1475-18 2007\$22,400

Case DC162 2013.....\$36,750

NH H7460 2011\$32,800

NH 1431 2000\$11,300

NH 1431 2008\$21,300

SQUARE BALE STACKERS

NH 1033 1977\$5,500

LAWN & GARDEN

John Deere Z445 2014\$5,433

BALE PROCESSOR

Highline 7000HD 2003\$6,995

Haybuster 2650 2014\$22,500

ROCK PICKERS

Degelman RP6000SOLD

TRACTORS & LOADERS

NH TS6.110 2012\$74,995

NH TM155 2007.....\$80,000

Kubota M126GX 2013....\$95,000

GRAIN VACS

Brandt 5000EX 2007\$17,500

CONSTRUCTION

NH B110C 2013\$80,000

NH L225 2012\$37,000

NH L225 2012SOLD

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Veterinary association sets framework for medicine oversight

The guidelines are intended to lead to consistent regulations throughout Canada



Veterinarians now have a set of rules governing antimicrobial drugs, which mirror expected regulations. PHOTO: THINKSTOCK

BY ALEX BINKLEY
AF CONTRIBUTOR

Canadian veterinarians now have a framework for using antibiotics that will assist federal and provincial regulators concerned about antimicrobial resistance (AMR).

The guidelines were developed by the Veterinary Pharmaceutical Stewardship Advisory Group of the Canadian Veterinary Medical Association, in collaboration with the Canadian Council of Veterinary Registrars (CCVR) and after discussions with government officials and animal health organizations.

"Canadian veterinarians have a national and international responsibility to protect public health by contributing to the fight against

antimicrobial resistance," CVMA president Troy Bourque said. "By working towards harmonizing veterinary oversight of antimicrobial use in Canada, we are optimizing our stewardship practices in animal and public health, maintaining access to and effectiveness of antimicrobials for the treatment and prevention of disease in animals and upholding to the integrity of the veterinary profession."

He described the guidelines as a template of professional standards, which may be used by provincial and territorial veterinary regulatory bodies when developing their own regulations, guidelines, or bylaws relating to veterinarians' professional responsibilities in providing oversight of veterinary antimicrobial use. It is intended to lead to consistent regulations across the country.

The framework spells out the professional obligations for veterinarians in prescribing an antimicrobial drug and comes in advance of federal regulations to increase government oversight of antimicrobials use in food production.

Health Minister Jane Philpott says the government wants to finalize its proposals for reforming the use of antibiotics in livestock production so they would be in effect this fall.

Without change, deaths linked to diseases that become resistant to modern medicines could outstrip those caused by cancer by 2050, she adds.

She did acknowledge that the livestock sector "is ahead of the regulations."

Her policy lines up with measures animal health and livestock groups have already recommended to reduce AMR.

"We'll tighten the regulations on the use of antimicrobials in agriculture," Philpott said.

Top priority

At the top of her list is ending own-use imports of many veterinary drugs by farmers. She also highlighted requiring prescriptions for all veterinary medicines and ending growth promotional claims. It's generally expected the changes would come into effect during 2017.

The framework will guide veterinarians in meeting federal regulations when they're enacted. It covers diagnosing, prescribing, using antimicrobials, dispensing, maintaining medical records and other stewardship requirements, the CVMA says.

In addition, the framework makes recommendations on outstanding issues such as surveillance of antimicrobial use and distribution, and continuing education opportunities for veterinary professionals on antimicrobial stewardship.

The framework says veterinary oversight is a key element of antimicrobial stewardship.

"It encompasses the professional involvement of licensed veterinarians in providing guidance or direction for appropriate use of antimicrobials in animals with the objective of ensuring prudent use and minimizing the emergence or spread of antimicrobial resistance."

Vets need to be at the forefront of preventing and controlling the spread of antimicrobial-resistant infections, maintaining access to effective antimicrobials for animal health, improving animal health and welfare, consumer confidence, and public safety and meeting of phytosanitary standards involving trade, the framework says.

The federal plan aims to eliminate unnecessary antimicrobial use, improving standards of use when these drugs are necessary and improving animal health to reduce the need for antimicrobials.

Health Canada says more than three-quarters of antimicrobials are sold for treating animals including pets.

"Of these, approximately 90 per cent are used to promote growth or to guard against disease and infection."

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NEW HOLLAND DEALERS



'16 New Holland CR8.90

Eng: 333 / Sep: 267 - 620/70R42 Duals, Mech Trap, 90mm Cyl, Leather Seat, Ext Wear Pkg, LED Light Pkg, 8.9m Unload Auger, 4-Row Chopper
\$475,000 - Swift Current



'15 New Holland CR8.90

Eng: 547 / Sep: 410 - 620/70R42 DUALS, MECH TRAP, 90mm CYLINDERS, LEATHER SEAT, EXT WEAR ELV, LED LIGHT PKG, 8.3m UNLOAD AUGER, 4-ROW CHOPPER
\$449,000 - Swift Current



'14 New Holland CR7090

Eng: 1072 / Sep: 782 - '14 UPGRADE, 620/85R42 DUALS, ELEC TRAP, 80mm CYL, LEATHER SEAT, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$275,000 - Swift Current



'13 New Holland CR7090

Eng: 1167 / Sep: 763 - 620/85R42 DUALS, ELEC TRAP, 80mm CYL, LEATHER SEAT, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$250,000 - Swift Current



'14 New Holland CR8090

Eng: 610 / Sep: 510 - '14 UPGRADE, 620/70R42 DUALS, MECH TRAP, LATERAL TILT, 90mm CYL, 6.7m AUGER, DLX CHOPPER, HID LIGHT PKG
\$425,000 - Swift Current



'13 New Holland CR8090

Eng: 1156 / Sep: 890 - 520/85R42 DUALS, MECH TRAP, LEATHER SEAT, 90mm CYL, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$349,000 - Medicine Hat



'11 New Holland CR9070

Eng: 1310 / Sep: 1090 - DUALS, ELEC TRAP, AUTOGUIDANCE NAV II, LONG AUGER, DLX CHOPPER, HID LIGHT PKG
\$219,000 - Medicine Hat



'12 New Holland CX8090

Eng: 720 / Sep: 489 - DUALS, MECH TRAP, LEATHER SEATS, FULL STEERING, ELEC G/T COVERS
\$295,000 - Taber



'10 New Holland CR9090Z

Eng: 1018 / Sep: 786 - 900/60R32, ELEC TRAP, AUTOGUIDANCE, HID LIGHT PKG
\$285,000 - Brooks



'14 New Holland CR8090

Eng: 614 / Sep: 448 - '14 UPGRADE, DUALS, MECH TRAP, 80mm CYL, DLX CHOPPER, EXT WEAR PKG, HID LIGHT PKG, ENG AIR COMPRESSOR, 8.3m AUGER
\$425,000 - Swift Current



'14 New Holland CR9090

Eng: 631 / Sep: 441 - '14 UPGRADE, 620/70R42 DUALS, MECH TRAP, 90mm CYL, LEATHER SEAT, EXT WEAR PKG, 4-ROW CHOPPER, HID LIGHT PKG
\$449,000 - Shaunavon



'11 New Holland CR9080

Eng: 1789 / Sep: 1322 - 620/70R42 DUALS, ELEC TRAP, 80mm CYL, LEATHER SEAT, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$249,000 - Shaunavon



'10 New Holland CR9060

Eng: 2150 / Sep: 1850 - 900/60R32, DLX CHOPPER, INTELLIVIEW ii+, YIELD AND MOISTURE SENSORS
\$189,000 - Moose Jaw

2012 New Holland CR8090 Combine Engine Hours: 1146 Sep Hours: 831 YCG115551	\$320,000 SC
2013 New Holland CR8090 Combine Engine Hours: 1017 Sep Hours: 778 YDG118015	\$349,000 SH
2013 New Holland CR8090 Combine Engine Hours: 830 YDG116711	\$349,000 MH
2014 New Holland CR8090 Combine Engine Hours: 705 Sep Hours: 519 YDG118054	\$359,000 SH
2014 New Holland CR8090 Combine Engine Hours: 550 YEG118872	\$425,000 SC

2014 New Holland CR8090 Combine Engine Hours: 614 Sep Hours: 448 YEG118934	\$425,000 SC
2013 New Holland CR9090 Combine Engine Hours: 842 Sep Hours: 573 YDG116744	\$360,000 SH
2009 New Holland CR9070 Combine Engine Hours: 1997 Sep Hours: 1455 Y9G113117	\$219,000 SH
2011 New Holland CR9070 Combine Sep Hours: 1820 YBG114058	\$219,000 SC
2010 New Holland CR9060 Combine Engine Hours: 1692 Sep Hours: 1266 Y9G113084	\$159,000 SC

2005 New Holland CR960 Combine Engine Hours: 2954 Sep Hours: 2175 HAJ102214	\$99,000 MJ
2011 New Holland CX8080 Combine Engine Hours: 3500 311778019	\$149,000 SC
2015 New Holland 880CF Header Combine Width in Feet: 40'W YFH042470	\$85,000 SC
2012 New Holland 94C Header Combine Width in Feet: 40'W 40GB111274	\$55,000 SC
2015 Honey Bee Airflex F45 Header Combine Width in Feet: 45'W 504645AF15	\$80,000 SH



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AIR DRILL

2009 Bourgault 3310, 65', 10"	\$128,000
2011 Bourgault 3310, 65', 10"	\$138,000
2010 Bourgault 3310, 75', 12"	\$95,000
2013 Bourgault 3320, 76', 12"	\$198,000
2013 Bourgault 3320, 75', 12"	\$139,000
2013 Bourgault 3710, 50', 10"	\$189,000
2015 Bourgault, 3720, 70', 12"	\$189,000
2015 Bourgault, 3720, 70', 12"	\$189,000
2002 Bourgault 5710, 29", 10"	\$32,000
2002 Bourgault 5710, 47', 10"	\$49,900
2008 Bourgault 5710, 64', 10"	\$89,000
1997 Bourgault 5710, 54', 9.8"	\$38,000
1998 Bourgault 5710, 54', 9.8"	\$38,000
2003 Flexi-Coil 5000/3450, 57', 9"	\$89,000
2000 Flexi-Coil 6000/3450, 40', 10", Piller Openers	\$115,000
2010 Flexi-Coil P2060, 60', 10"	\$68,000
2011 NH P2070, 70', 12"	\$85,000
2008 NH SD550, 70', 10"	\$59,000
2005 NH SD440, 45", 10"	\$48,000
2015 CIH 700, 70', 12" spacing	Call
2010 CIH 700, 70', 12"	\$33,500
2007 CIH 700, 70', 10"	\$28,000

AIR TANK/CART

2015 Bourgault L7800, TB, TRKS, SDLT	\$226,000
2010 Bourgault 6700, Tow Behind Conveyor, 3 meters	\$118,000
2008 Bourgault 6550	\$89,000
2012 Bourgault 6450,	\$115,000
2012 Bourgault 6350, Tow Behind	\$58,000
2010 Bourgault L6350	\$58,000
1995 Flexi-Coil 5000/1330	\$28,000
2015 Bourgault L7800	\$251,800
2011 NH P1070, Tow Behind	\$98,000
Bourgault 3225,	\$13,500
1996 Bourgault 4300	\$13,800
2015 CIH 3580, Tow Behind VR Cart	Call
2010 CIH 3430	\$45,000
2008 CIH 3430	\$39,500
2007 CIH 3430	\$35,000
2015 L7800, TB, TRKS, SLDT	\$226,000

BALER/ROUND

2012 NH BR7090. 3500 Bales	\$39,500
2013 John Deere 569, 11,000 Bales	\$39,800
2004 CIHRBX562, 12,600 Bales	\$13,800
2005 NH BR780,	\$13,500
2003 NH BR780,	\$11,800
2006 NH BR780A,	\$14,500
2010 NH BR7090	\$29,500

BLADE

2 - 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
2002 Bobcat S185	\$23,500

COMBINE

2012 NH CX8080, 1037/748 hrs	\$278,000
2012 NH CX8080, 1005/746 Hrs	\$268,000
2011 NH CX8080	\$238,000
2010 NH CX8080, 1875/1348 hrs	\$228,800
2010 NH CX8080, 1755/1237 hrs	\$228,800
2010 NH CX8080, 1722/1240 hrs	\$228,800
2009 NH CX8080, 1889/1453 hrs	\$215,000
2011 NH CX8080, 1072/854 hrs	\$258,000
2010 NH CX8080, 1000/900 hrs	\$228,000
2007 NH CX8080, 1972/1539 Hrs	\$179,000
2014 NH CR8090, 728 hrs	\$349,000
2013 NH CR8090	\$365,000
2013 NH CR8090, 655/488 hrs	\$365,000
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
2006 NH CX860, 2545/1895 hrs	\$118,000
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, 2740/1934 hrs	\$38,000
1997 NH TR98, 2391/1622 hrs	\$39,000
2008 NH CR9070, 1300/965 Hrs	\$198,000
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	\$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 thr hrs	\$148,500
2009 NH CR9070, 677 thr hrs	\$198,000
2009 NH CR9080, 1347/980 hrs	\$249,000
2011 NH CR9090, 1087/837 Hrs	\$299,000
2012 NH CR9090, 868/632hrs	\$339,000
2012 NH CR9090, 811/576 hrs	\$369,000
2014 NH CR9090, 561/460 hrs	\$398,000
2014 NH CR9090, 575/480 hrs	\$398,000
2014 NH CR9090, 512 hrs	\$410,000
2014 NH CR9090, 476 hrs	\$420,000
2016 NH CR9.90E, 318/244 hrs	\$549,000
2013 NH CR9090E, 680 Thr Hrs	\$379,000
2013 NH CR9090Z, 1128/804 Hrs	\$369,000
2013 NH CR9090Z, 1204/815 Hrs	\$369,000
2005 NH CR970, 2459/1821 hrs	\$138,000
2006 NH CR970, 1861/1300 hrs	\$149,000
2006 NH CR970, 1495/1159 hrs	\$178,000
2006 NH CR970, 1547/1219 hrs	\$159,000
2015 NH CR8.90, 620/414 hrs	\$483,000
2015 NH CR8.90, 606/445 hrs	\$489,000
2015 NH CR8.90, 621/440 hrs	\$489,000

2016 NH CR8.90, 317/214 hrs	\$499,000
2000 CIH8010, 1728/1322 hrs	\$189,000
2013 CIH 8230, 700 thr hrs	\$298,000
1995 JD 9500, 2250 thr hrs	\$39,500
2013 JD S680, 933/653 hrs	\$387,000
2010 JD T670, 1132/807 hrs	\$198,000

VERTICAL TILLAGE

2007 Bourgault 6000	\$25,800
2015 Salford I-4160, 60'	\$178,000
2010 Salford 570 RTS, 30'	\$68,000
2011 Degelman 7000, 70'	\$33,000
1994 Degelman 7000, 50'	\$15,800

FEED WAGON/BALE PROCESSOR

2005 Haybuster 2650	\$14,900
2003 Lucknow 285	\$12,800

GRAIN AUGER

2001 Brandt 1390,	\$9,000
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HEADER COMBINE

2010 Honeybee, HB30, Gleaner adaptor, 30'	\$49,500
1999 Honeybee SP36, 36'	\$29,000
2007 Honeybee SP36	\$29,800
2013 Honeybee HP30	\$48,000
1994 Honeybee SP30,	\$9,800
2009 NH 88C, 42'	\$68,000
2001 NH 94C	\$29,000
2006 NH 94C	\$29,500
2008 NH 94C	\$29,500
2010 NH 94C, 30 CX/CR	\$36,500
2003 NH 94C, 30 CX/CR	\$29,500
2011 JD 630D, 30'	\$58,000
2012 JD 635D, 35'	\$68,000
2010 MacDon, 30', CR/CX	\$68,000
1998 MacDon 960,	\$25,000
1998 MacDon 871 TX Adaptor	\$6,000
2010 MF 5100-35,	\$58,000
2009 NH 94C, 36 CX/CR	\$39,500
2008 NH 94C-36,	\$49,500
2003 NH 94C-36,	\$39,500
1999 NH 994-30,	\$29,500
1998 NH 994-36,	\$19,000
1995 NH SP25	\$15,000
1997 Westward 9030	\$4,000

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
1999 MF 670 ,16' Hay Head	\$10,000

SPRAYER

1993 Flexi-Coil S65,	\$7,900
2003 Flexi-Coil S67,	\$19,500
2008 NH SF115,	\$24,900

SPRAYER/HIGH CLEARANCE

2013 NH SP240, 1000 Hrs, 1200 Gal, 100"	\$309,000
2009 Spraycoupe 4660, 440 gal, 80'	\$84,500
2008 Miller A75	\$139,500
2012 NH SP240	\$258,000
2009 Rogator 1084, 3160 hrs	\$159,000
2011 JD 4830, 1820 hrs	\$218,000

SWATHER

2011 MacDon D60, 35'	\$34,000
2014 NH SR200/440HB	\$169,000
1999 NH 994, 25'	\$15,000
2013 MacDon D65, 40'	\$49,500
2011 MacDon M150, 35'	\$118,000
2010 MacDon M150, 950 Hrs	\$109,500
2010 MacDon M150, 2053/1440 hrs	\$85,000
2010 MacDon M150, 35', 1848/1213 hrs	\$85,000
2012 MF 9740,	\$98,000
2003 Premier 2952, 2098 Hrs	\$48,000
1998 MacDon 960,	\$9,500
1998 MacDon 960, 25'	\$9,500
2013 MacDon M155/D6540, 520 hrs	\$138,000
2007 NH HW325, 1200hrs	\$58,000
2014 NH SR200	\$175,000
2013 MacDon M105, 170 Hrs	\$138,000

TRACTOR

1995 Ford 8240	\$35,000
2012 Case IH U105	\$59,000
2011 Case IH 210, 1290 Hrs,	\$148,000
2011 NH T7.235,	\$145,000
2008 NH T6030, 4950 Hrs,	\$84,000
2012 NH T7.170	\$109,000
2011 NH T7.170 - LDR, 2005 hrs	\$119,000
2011 NH T7.270 AutoCommand - LDR, 2360 hrs	\$178,000
2012 NH T7.170	\$105,000
2009 NH TV6070 - LDR, Eng Hrs: 4660	\$95,000
2010 NH T7040	\$129,000
2011 Versatile 305, 1800 hrs	\$149,500
2010 Kubota BX1860	\$9,000
2008 Kubota B2320 c/w loader & mower	\$12,500
2012 JD 6130D, C/W loader	\$79,000

TRACTOR 4WD

2009 CIH STX535Q, 3103 hrs	\$278,000
2014 NH T9.645, 963 hrs, Tracks/PTO/2 Pumps	\$385,000
2002 NH TJ450, 9000 hrs	\$138,000
2012 Versatile 500	\$285,000



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The Western Producer

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ANTIQUES

ANTIQUE EQUIPMENT

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1505

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2004 PETERBILT 330, tandem axle, C&C, long WB, Cat dsl., 10 spd trans, AC, low miles, alum. wheels, \$26,900, w/new B&H \$48,900. K&L Equipment and Auto. Ph Ladimer, 306-795-7779 Ituna. DL #910885

MISC. TRAILERS

1515

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1620



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1625

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2002 IH 2600 w/IH 320 HP eng., 10 spd., 221,000 kms, new 20' BH&T, exc. rubber, vg, \$49,500; 2009 Mack CH613, MP8 Mack eng., 430 HP 10 spd., AutoShift, 463,000 kms, exc. shape, new 20' box, A/T/C, \$73,500; 2009 IH Transtar 8600 w/Cummins eng. 10 spd., AutoShift, new 20' BH&T, 742,000 kms, exc. tires, real good shape, \$69,500; 2007 IH 9200, ISX Cummins, 430 HP AutoShift, alum. wheels, new 20' BH&T, fully loaded, 1,000,000 kms, real nice, \$67,500; 2009 Mack CH613, 430 HP Mack, 10 spd., AutoShift, new 20' BH&T, alum. wheels, 1.4 million kms, has bearing roll done, nice shape, \$69,500; 2007 Kenworth T600, C13 Cat, 425 HP 13 spd., AutoShift, new 20' BH&T, alum. wheels, new paint, 1.0 million kms, exc. truck, \$71,500; 1996 Midland 24' tandem pup grain trailer, stiff pole, completely rebuilt, new paint and brakes, exc. shape, \$18,500; 1985 Ford L9000, Cummins, 10 spd., 20' BH&T that's been totally rebuilt, new paint, exc. tires, \$28,500; 1999 IH 4700 S/A w/17' steel flatdeck, 230,000 kms, IH dsl., 10 spd., good tires, \$19,500; 1998 Freightliner tractor, C60 Detroit, 430 HP 13 spd., alum. wheels, sleeper, good rubber, \$17,500; 2005 IH 9200 tractor, ISX Cummins, 430 HP 13 spd., alum wheels, flat-top sleeper, good rubber, \$22,500. All trucks Sask safetied. Trades considered. All reasonable offers considered. Call Merv at 306-276-7518 res., 306-767-2616, cell, Arborfield SK. DL #906768.

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GRAVEL TRUCKS

1626

2012 IHC TRANSSTAR, low pro, Max 300 HP diesel Allison auto trans, single axle, loaded cab, 13' Armstrong landscape dump, \$39,900.; 2003 GMC C8500 tandem automatic, with 15' box, low miles, \$34,900. K&L Equipment and Auto. Call Ladimer, 306-795-7779, Ituna DL #910885

SEMI TRUCKS

1627

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1680



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1705

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2020

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4003

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BINS
4003



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4103

KEHO/ GRAIN GUARD Aeration Sales and Service. R.J. Electric, Avonlea, SK. Call 306-868-2199 or cell 306-868-7738.

KEHO/ GRAIN GUARD/ OPI STORMAX. For sales and service east central SK. and MB., call Gerald Shymko, Calder, SK., 306-742-4445 or toll free 1-888-674-5346.

CONVEYORS
4106

NEW CONVEY-ALL DRIVE OVER belt conveyor w/electric drive 20 HP motor. Retail \$15,000. Special year end price, \$12,900. 306-222-6173, Saskatoon, SK.

BATCO CONVEYORS, new and used, grain augers and SP kits. Delivery and leasing available. 1-866-746-2666.

NEW BATCO 2075 w/electric drive kit. Retail \$36,500. Blow-out Special, \$28,500. 306-648-3622, Gravelbourg, SK.

BUILD YOUR OWN conveyors, 6", 7", 8" and 10" end units available; Transfer conveyors and bag conveyors or will custom build. Call for prices. Master Industries Inc. www.masterindustries.ca Phone 1-866-567-3101, Loreburn, SK.

FERTILIZER EQUIPMENT
4112



2012 TENDER TRAILER: 30 MT Convey-All trailer, tri-axle, 5 hoppers, self contained hyd. drive powered by Subaru gas motor. 36 HP exc. cond., field ready, \$85,000. Bill 780-210-0800, Andrew, AB.

FERTILIZER STORAGE TANKS- 5000 US gal., \$3000; 6000 US gal., \$3600- pickup at factory. Ph 306-253-4343 while supplies last. www.hold-onindustries.com

FERTILIZER STORAGE TANKS 11,000 US gal., \$6500 pick up at factory or \$7000 free freight to farm. 1-800-383-2228 www.hold-onindustries.com 306-253-4343

FERTILIZER EQUIPMENT
4112



2011 4520 1-bin, 70' booms, \$145,000; 2-2010 Case 4520's, 70' booms: 3-bin, 3100 hrs., \$168,000; SPECIAL- 2010 Case 4520, 1-bin, 5100 hrs., \$93,500; 2-2007 Case 4520's, 3-bin, 70' booms, 3300 hrs., AutoSteer, \$134,000 and \$98,000; 2006 Case 4510, AutoSteer, FlexAir 70' booms, 7400 hrs., \$77,000; 2005 Case 4520 w/70' FlexAir, 4000 hrs., \$78,000; 2004 Case 4010, 80' SPRAYER, 7000 hrs., \$58,000; 2- 2004 Loral AirMax 1000s, 70' booms, immaculate, \$76,000 and \$93,000; 2006 2-Bin AgChem, 70' booms, \$58,000; 2002 KBH Semi tender, self-contained, \$32,000; 2009 and 2012 Merritt semi belt tender, self contained, \$32,000 and \$42,000; 2- 24 ton Wilmar tender beds, \$17,500 ea; 2012 Wilmar Rangler 4560, 780 hrs., \$28,500; 2009 Rangler, 2400 hrs, \$23,500; 1974 10,000 gal. NH3 transport, \$38,500; 18,000 gal. NH3 holding tank, \$34,500. USD prices. 406-466-5356, Choteau, MT. www.fertilizerequipment.net



2005 PETERBILT STAHLY, Cummins, Allison auto., New Leader L3020 G4, monitor, New Leader controller, Starlink GPS 4145 hours, \$78,000; 2004 Peterbilt, Cummins, Allison auto, 1800 gal stainless, 80' boom, Raven controller, Raven Auto-Steer, Raven section shutoff, 4270 hours \$65,000. USD prices. 406-466-5356, Choteau, MT. www.fertilizerequipment.net



2009 TERRAGATOR 8204, Cat, TerraShift, Airmax Precision 2, twin bin, SmarTrax, 4530 hrs., \$73,500; 2008 4 WD Ag-Chem 8244, airflow bed, 70' booms, \$69,500; 2006 8204 twin bin, 5600 hrs., \$56,000. USD prices. 406-466-5356, Choteau, MT. View www.fertilizerequipment.net

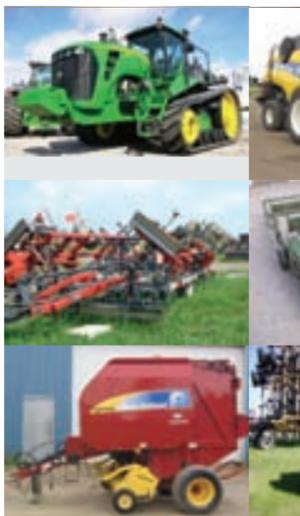
GRAIN AUGERS
4115

REMOTE CONTROL SWING AUGER movers, trailer chute openers, endgate and hoist systems, wireless full bin alarms, swing belt movers, wireless TractorCams, motorized utility carts. All shipped directly to you. Safety, convenience, reliability. Kramble Industries at 306-933-2655, Saskatoon, SK. or www.kramble.net

AUGERS: NEW and USED: Wheatheart, Westfield, Westeel augers; Auger SP kits; Batco conveyors; Wheatheart post pounders. Good prices, leasing available. Call 1-866-746-2666.

2016 FARM KING 13x85 Winter Clearance, 1 only! Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

BRANDT 8x50, BLUE, hyd. mover, winch, bin sweep, good cond. Ed 306-272-3848, 306-269-7745, Foam Lake, SK.



GRAIN AUGERS
4115

NEW MERIDIAN AUGERS: TL12-39 with 37 HP EFI Vanguard eng., c/w mover, HD clutch, reversing gearbox and lights. Retail \$24,200, cash price \$19,500. 306-648-3622, Gravelbourg, SK.

MERIDIAN AUGERS IN STOCK: swings, truck loading, Meridian SP movers. Call Hoffart Services Inc., Odessa, SK., 306-957-2033.

MERIDIAN GRAIN AUGERS available with self-propelled mover kits and bin sweeps. Call Kevin's Custom Ag in Nipawin, SK. Toll free 1-888-304-2837.

GRAIN BAGS/EQUIPMENT
4116

9' GRAINSTOR BAGGER w/belt televeyor. Financing avail. Email larry-s@telus.net Leduc, AB.

Search for **AG EQUIPMENT DEALS** on your **PHONE**

AGDealer MOBILE

Get the APP >>>

GRAIN CLEANERS
4121

CUSTOM COLOR SORTING chickpeas to mustard. Cert. organic and conventional. 306-741-3177, Swift Current, SK.

USED LMC GRAVITY SEPARATORS, 400 BPH and 300 BPH units available. Call LMC Canada 1-800-667-6924.

GRAIN DRYERS
4124



1997 IBEC 24', 9 tier, dual fuel, PLC and M2 micro processor with preheat tier and dual direction discharge, \$70,000. Call 780-990-8198, Fort Saskatchewan, AB.

2008 GSI 1226, 3 PH NG/LPG, 10.5 million BTU, batch or continuous, 3640 BPH. Portable, needs nothing, still in operation, \$99,000. 780-206-1234, Barrhead, AB.

VERTEC, 8 TIERS, single phase motors, new style natural gas, new 7" auger wet fill, new 6" auger unload, \$50,000. 780-853-7205, Vermilion, AB.



2013 GT RB800 grain dryer, 820 bushels a batch, w/microprocessor, set up for PTO and liquid propane, 150 hours, shedded since new. Only used this year. \$57,000. Bill 780-210-0800, Andrew, AB.

GRAIN DRYERS
4124



WESTERN GRAIN DRYER, mfg. of grain dryers w/auto. drying/moisture control. Updates to Vertec roof, tiers, moisture control. Economic designed dryers avail. 1-888-288-6857. westerngraindryer.com

GRAIN VACUUMS
4133

CONVEYAIR GRAIN VACS, parts, accessories. Call Bill 780-986-5548, Leduc, AB. www.starlinesales.com

Hit our readers where it counts... in the classifieds. Place your ad in the Alberta Farmer Express classified section. 1-800-665-1362.

BALING EQUIPMENT
4139

WANTED: JD 7810 c/w FEL & 3-PTH; SP or PTO bale wagon; JD or IHC end wheel drills. Small square baler. 403-394-4401.

2000 HESSTON 856A baler, 11,000 bales, 540 PTO, bale kicker, gauge wheels, hyd. PU, 14i-16.1 tires, \$11,970. South Country Equipment, 306-721-5050, Regina, SK.

COMBINES

CASE/IH
4160

2007 7010 Case/IH, 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; 2009 7088 w/2016 PU header, \$180,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

CATERPILLAR LEXION
4166

2011 CLAAS LEXION 760, 700 sep. hrs., fully loaded, \$265,000 CAD OBO; 2010 Lexion 590, fully loaded, 500 sep. hrs., \$220,000 CAD OBO. All exc. cond., used only in small grains; 2000 Lexion 480, \$27,000 CAD OBO. Call 218-779-1710, Bottineau, ND.

FORD/NH
4172

2009 NH 9070, 1793/1474 hrs, Intelli-View II display, Y&M, remote sieve adjust, elec. stonetrap, 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, \$200,000 OBO. Call 780-608-9290, Strome, AB.

GLENER
4175

WANTED: NICE R72 Gleaner w/Cummins engine. Call 701-340-5061, Minot, ND.

JOHN DEERE
4178

2006 JD 9760 STS, bullet rotor, 615 PU, w/o, 1 owner, 2200 sep., w/wo HoneyBee 30' straight cut header, field ready, \$98,000 OBO, financing available. 780-221-3980, Leduc, AB.

JOHN DEERE 9500, premium condition, new concaves and rub bars recently, low hrs. Phone 403-823-1894, Drumheller, AB.

JOHN DEERE
4178

WANTED: JD 9600, year 1996, 1997, or 9610, 9650W. Must be shedded, premium condition. 780-853-7248, Dewberry, AB.

2010 JOHN DEERE 9870 STS, 2794 sep. hrs., 20.8R42, Maurer eExt, was \$176,900, now \$152,300! South Country Equipment, 306-842-4686, Weyburn, SK.

2004 JOHN DEERE 9860 STS, 2619 sep. hrs., 20.8x42, Kuchar rub bars, was \$176,900, now \$132,000. South Country Equipment, 306-842-4686, Weyburn, SK.

2004 JOHN DEERE 9760 STS, 2640 sep. hrs., 800/70R38, Touchset, was \$105,200, now \$90,575! South Country Equipment, 306-842-4686, Weyburn, SK.

2012 JOHN DEERE S690, 708 sep. hrs., 650/85R38, ProDrive trans w/Harvest-Smart, \$353,400. South Country Equipment, 306-721-5050, Regina, SK.

2014 JOHN DEERE S670, 410 sep. hrs., 520/85R42, AutoTrac, PowerGard warranty to Sept./19, \$372,470. South Country Equipment, 306-721-5050, Regina, SK.

2006 9660 WTS, 914 PU, duals, 2300/1550 hrs. \$132,500. A.E. Chicoine Farm Equipment 306-449-2255, Storthoaks, SK.

2010 JD 9870 STS, loaded, 4 WD, only 480 sep./ 600 eng. hrs, \$269,000 CAD OBO. 218-779-1710, Bottineau, ND.

COMBINE ACCESSORIES

COMBINE HEADER
4199

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

MISC. ACCESSORIES
4205

RECONDITIONED COMBINE HEADERS. RIGID and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK. or website: www.straightcutheaders.com

PARTS/ACCESSORIES
4211

PUMPS, PRESSURE WASHERS. Honda/Koshin pumps, 1-1/2" to 4"; Landa pressure washers, steam washers, parts washers. M&M Equip. Ltd. Parts & Service, Regina, SK. 306-543-8377, fax 306-543-2111.

SALVAGE
4214

MEDICINE HAT TRACTOR Salvage Inc. Specializing in new, used, and rebuilt agricultural and construction parts. Buying all sorts of ag and construction equipment for dismantling. Call today 1-877-527-7278, www.mhtractor.ca Medicine Hat, AB.

TRIPLE B WRECKING, wrecking tractors, combines, cults., drills, swathers, mixmills, etc. We buy equipment. **306-246-4260**, 306-441-0655, Richard, SK.

AGRA PARTS PLUS, parting older tractors, tillage, seeding, haying, along w/other Ag equipment. 3 miles NW of Battleford, SK. off #16 Hwy. Ph: 306-445-6769.

LOEFFELHOLZ TRACTOR AND COMBINE Salvage, Cudworth, SK., 306-256-7107. We sell new, used and remanufactured parts for most farm tractors and combines.

SNOWBLOWERS/ SNOWPLOWS 4226

AGED INVENTORY SALE! New Artsway snowblowers made in Ontario, 72" manual turner \$2750; 78" hyd. turner, \$3550; 96" hyd., \$5400; 102" hyd., \$6950; 108" hyd., \$7200; 102 and 120" hyd. contractors, \$7790 + \$9100 faded paint. Limited quantities. One used 84" hyd., \$2700; One used 102" single auger hyd., \$4500. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

SPRAYING EQUIPMENT

PT SPRAYERS 4238

BRANDT 2500 SPRAYER, 100' c/w 1200 gallon tank, OutBack monitor, good cond. Call 403-580-0155, Medicine Hat, AB.

NH SF115, 130', 1200 Imperial gal. tank, 2' rise tanks, wheel boom sprayer, \$19,000 OBO. 306-327-7198 Kelvington SK

SP SPRAYERS 4241

1998 SPRAY-COUPÉ 4640, new auto., 75' booms, tall tires, one owner, Outback plumbed, 1800 hrs., \$41,000. Financing available. Leduc, AB. larry-s@telus.net



HEAVY DUTY WHEEL DOLLY. Change your sprayer tires in less than an hour! Over 100 units sold last 12 months. Perfect tool for safely and quickly moving or changing large wheels/tires, \$1,499. 403-892-3303, Carmangay, AB.



2013 VERSATILE SX275, 120', AutoBoom, crop dividers, duals, 600 hrs., shedded, w/ lease return, \$175,000. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2011 JD 4830, 100', with only 1150 hours, full AutoSteer, 1000 gal. SS tank, all options, both sets of tires, \$219,000. 306-948-7223, Biggar, SK.

1995 ROGATOR 854, 4115 hrs., 90' boom, 800 gal. poly tank, EZ-Boom and Steer, floats, 320/90R46, \$39,200. South Country Equipment, 306-721-5050, Regina, SK.

2015 JD R4045, 1117 hrs., 120' boom, 20" nozzle spacing, AutoTrac, JDLINK, float 800/55R46R1, \$501,800. South Country Equipment, 306-721-5050, Regina, SK.

TILLAGE/SEEDING

AIR DRILLS 4250

2008 BOURGAULT ST6550, TBH, DS, de-lease auger, rebuilt w/WO's, 2nd owner, \$67,000; Also w/wo 2002 Flexi-Coil 5000 53", 9" spacing, 4" packers, DS Stealth, \$20,000. Financing available. Leduc, AB. Email: larry-s@telus.net

VW MFG. Carbide Drill Points and Openers for air drills. New super slim paired row opener VW32RPR. Full orders qualify for nearly Free, or FREE shipping. www.vwmfg.com Phone 403-528-3350.

2005 FLEXI-COIL 5000, 57', 10" spacing, steel packers, double shoot, 3450 tank, 3 comp., mechanical drive cart, w/ shape, \$60,000 OBO. 403-317-4976, Burdett, AB.

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

CASE/IH 4012 ATX drill, Edge-On shanks, Farmland boots, low disturbance sweeps, disc closers every shank, \$18,000 OBO. 403-820-0145, Drumheller, AB.

SALFORD 40' 522, on 7-1/2" spacing, mid row banders, liquid kit, new discs last year, Salford 3505 air cart, 3 tank, 800x32 tires, dual fans, double shoot, \$140,000 OBO. 780-621-4656, Evansburg, AB.

2003 BOURGAULT 5710 29' air drill, DS, Stealth paired row openers, 9.8" spacing, 4300 tank, \$60,000 OBO. 780-771-2155, 780-404-1212, Wandering River, AB.

2011 MORRIS CONTOUR 61', 12" space, DS, 6000 acres on Atom Jet openers, 5.5x8 semi pneumatic packers, new hoses, 2013 Morris 8650XL TBH mech. drive, w/ cond, \$165,000. 306-421-3865 Estevan SK

2013 BOURGAULT 3320 XTC 66', 10" space, MRB, DS, Bourgault updates done, blockage and X20 monitors c/w 6700 cart, 2 fans, 4 metering tanks, conveyor, duals, whole unit always shedded, exc. cond., \$320,000. 780-872-3262, Lashburn, SK.

2013 SEED HAWK 6012, TBH 600 air cart, double shoot, \$215,000. 306-831-9497, Tessier, SK.

2012 MORRIS CONTOUR II 61' air drill, 12" spacing, w/8650 XL air cart w/duals, var. rate, Eston special fertilizer Broadcast kit, Bourgault tillage tool, 3/4" Eagle Beak knives, \$185,000. Ph Gerald 306-379-4530 or Nathan 306-831-9246, Fiske, SK.

2010 MORRIS 8370, 3 tank, variable rate, TBH, 440 bu., \$69,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2011 MORRIS CONTOUR drill 61', 12" space, paired row w/Morris 8650 TBH var. rate cart, 5000 acres on new Morris openers, \$189,000. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

FLEXI-COIL 300B c/w Barton openers, 38", 12" spacing, \$8900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2003 FLEXI-COIL 2340, TBH, very good mech., \$14,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

AIR DRILLS 4250

42' K-HART DISC DRILL, 2010, DS, 12" spacing, \$26,500. Phone 306-255-7777, Colonsay, SK.

2009 BOURGAULT 3310, 75', w/6550 tank, 1 year on new tips and discs, very accurate drill and tank, \$205,000 OBO. Call 306-867-7165, Loreburn, SK.

70" SEED MASTER, M fold, 12" spacing, lift kit, smart hitch, c/w 2013 Flexi-Coil 580 auger 10", dual 650's and Valmar 1665 canola box. 306-648-7765 or 306-648-3216, Gravelbourg, SK.

BOURGAULT 5710 64', 9.8" space, steel packers, MRB's, 2005 Bourgault 6350 air cart, DS, in-cab controls. Will separate. Best offer. 306-277-4503, Gronlid, SK.

2010 65' 3310 BOURGAULT Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$145,000. 2002 49' Morris Maxim air drill, 12" spacing, w/7240 Morris grain cart, \$52,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

5010 CONCORD with 3400 tank, 50' 10" spacing, edge-on shank, 4" openers, full Agron Blockage, \$35,000 OBO. Ogema, SK. 306-459-7519, 306-459-7539.

1997 CONCORD 4812, DS dry with NH3, Dutch openers, 2000 JD 1900 seed cart, 270 bu, \$25,000. 306-452-3233, Antler, SK

2015 BOURGAULT 3320 XTC, 76", side band, 10", 6550 cart, \$265,000 OBO. Can arrange delivery 306-563-8482 Yorkton SK

AIR SEEDERS 4253

MORRIS CONCEPT 2000 34' air seeder, c/w 10" spacing 1720 Flexi-Coil grain tank. 403-580-0155, Medicine Hat, AB.

2007 SEEDMASTER 80-14, w/2011 Bourgault 6550 tank, Smart Hitch, double shoot, \$191,000. Call South Country Equipment, 306-721-5050, Regina, SK.

2010 SEEDMASTER 70-12TXB, w/2010 JD 1910-430 bu. cart, 750/65R26 large rear tires, 8-run DS, \$191,000. South Country Equipment, 306-721-5050, Regina, SK.

2006 SEEDMASTER 66-12ATD with 2006 JD 1910 430 bu. TBH Smart Hitch, JD towers, 8-run DS, \$159,550. South Country Equipment, 306-721-5050, Regina, SK.

2006 SEEDMASTER 66-12, double shoot/ JD air pack, pneumatic packers, had a JD 1910 cart on it, \$100,650. South Country Equipment, 306-721-5050, Regina, SK.

2012 SEEDMASTER 66-12 TXB, Raven Cruiser II, in-cab monitor, Matrix hyd. block, Pattison kit, \$153,000. South Country Equipment, 306-721-5050, Regina, SK.

1994 FLEXI-COIL 5000 57', 12", single shoot air pac, w/Flexi-Coil 2320 TBH cart, 28,250. South Country Equipment, 306-721-5050, Regina, SK.

2008 SEEDMASTER 64-12TXB, dual castors, castoring rear outer wing wheel, lift kit, \$92,600. South Country Equipment, 306-721-5050, Regina, SK.

2013 SEEDMASTER 74-12TXB, w/2014 JD 1910-550 bu. cart, 8 run double shoot, GreenStar, \$232,050. South Country Equipment, 306-721-5050, Regina, SK.

1998 JD 1820, 61', 10" spacing, double shoot, with 1998 JD 1910 cart, \$35,300. South Country Equipment, 306-721-5050, Regina, SK.

2002 BOURGAULT 8810 52', packers, 8" sp. \$36,000; 1996 Bourgault 40' 8800/3195, \$16,000. 306-563-8482, Rama, SK.

HARROWS/PACKERS 4256

2002 DEGELMAN SM7000 heavy harrow, 50' 5/8 tines, 22.5" w/ cond, \$27,500 OBO. 780-826-2992, Bonnyville, AB.



WINTER DISCOUNTS on new and used rollers, all sizes. Leasing and delivery available. 403-580-6889, Bow Island, AB.

FOR SALE BY TENDER: 42' Rite-Way land roller, S/N 051034. Tenders close Feb. 10, 2017. Submit tenders to McMahon Co-op, Box 6, McMahon, SK., SON 1M0. Highest or any tender not necessarily accepted. Call Gordon 306-627-3434.

2016 DEMO 80' DEGELMAN land roller, Odessa Rockpicker Sales. 306-957-4403, Odessa, SK.

FLEXI-COIL 60' HARROW packer draw bar, very good condition. 306-560-7679, 306-576-2171 leave message, Wishart, SK

2001 DEGELMAN 70', original tines at 24" manual adjust, one owner, \$25,800 OBO. 306-563-8482, Rama, SK.

SEEDING VARIOUS 4259

WANTED: HAYBUSTER 107 no-till drill for seeding forage. Phone 403-995-3329, Okotoks, AB.

2009 JD 1790 CCS planter, 16/31 row, 30' or 15" row spacing, drawbar hitch, Yetter floating row cleaners, Ridgeland mud cleaning gauge wheels, Keaton seed firmers, In-furrow liquid fertilizer, Precision planting 20/20 monitor, E-sets, air force Auto-down force control. Corn, soybean and canola seed meters w/loading conveyor, \$130,000. 306-697-7203, Grenfell, SK.

WANTED: MORRIS SEED-RITE M1100, 33' or 44' with transport wheels. Call 306-842-6360, Griffin, SK.

TILLAGE EQUIPMENT 4262

COMPACTED SUBSOIL ISSUES? Avoid "band-aid" solutions. Since 1984. Call Rick 403-350-6088, anytime.

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

CASE/IH 5600 HD chisel plow, 29' with Degelman 3 bar harrows, \$65,200 OBO. 403-820-0145, Drumheller, AB.

2016 JOHN DEERE 2410, 63' deep tillage cultivator, 12" spacing, 550 trips, JD 3 bar harrows. 306-231-8060, Englefeld, SK

1992 37' CASE/IH 5600 HD cultivator, w/Degelman mounted 4-row harrows, \$25,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

TILLAGE EQUIPMENT 4262



2016 VERSATILE SD550 Ezee-On 15' offset disc, 550 lbs./ft., HD bearing pkg., 26"x3/8" notched. Lease or finance OAC. Cam-Don Motors 306-237-4212 Perdue SK.

WANTED MODEL 8810 Bourgault air seeder or 9400 Bourgault cultivator 40'. 306-560-7679, 306-576-2171 Wishart, SK.

TRACTORS

ALLIS/DEUTZ 4277

WANTED: 4W305; 4W220; 220 and D21. 8070, 8050 or 8030 MFWD. 701-240-5737, Minot, ND.

WHITE 4280

1981 WHITE 105 with 10' Leon dozer blade, fair cond., \$9000. 306-561-7780, Davidson, SK.

CASE/IH 4286

2008 CASE/IH 535 quadtrac, 6 hyds., GPS, 30" track, 3475 hrs., nice cond., \$225,000. 780-853-7205, Vermilion, AB.

CASE/IH 9150, powershift, new tires 2 yrs. ago, 8250 hrs., return line, no PTO, \$48,000 OBO. 780-608-9024, Tofield, AB.

1980 CASE 4490, 4WD, singles, new motor (100 hrs), 175 HP asking \$8000 OBO. Call 306-778-3749, Swift Current, SK.

LIZARD CREEK REPAIR and Tractor. We buy 90 and 94 Series Case, 2 WD, FWA tractors for parts and rebuilding. Also have rebuilt tractors and parts for sale. 306-784-7841, Herbert, SK.

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

JOHN DEERE 4295



2012 9510R, 960 hrs, PS, 17' 6-way blade, prem. cab, 9030 lb. cast, no PTO, ext. warranty, too many extras to list, \$370,000 OBO. 780-808-3141, Lloydminster, AB.

JD 8440, PTO, 5800 orig. hrs., quad trans, premium condition. 403-823-1894, Drumheller, AB.

JD 4630, loader, cab; Case 2870, 4x4, Degelman dozer; Cockshutt 550 gas; 1991 GMC 17' B&H. 306-238-4411, Goodsoil, SK

2014 JOHN DEERE 6125R Premium MFWD, 1563 hrs., with H340 loader. Was \$148,400 - Now \$127,775! South Country Equipment, 306-721-5050, Regina, SK.

2012 JOHN DEERE 9560R, 2916 hrs., 520/5R46, GreenStar, 5 hyd. outlets, Command View, \$330,100. South Country Equipment, 306-721-5050, Regina, SK.

2012 JOHN DEERE 9510RT, 1661 hrs., GreenStar, JDLINK, 36" tracks, AJ hitch, \$337,450. South Country Equipment, 306-721-5050, Regina, SK.

JOHN DEERE 8630, PTO, tires like new, excellent condition, \$19,500. 306-861-4592, Fillmore, SK.

2004 JD 9520, 4WD, 4600 hrs., 800/70R38 duals, 4 remotes, ActiveSeat, HID lights, nice clean tractor, \$159,000. 306-743-7622, Langenburg, SK.

2007 JD 6430 FWA, premium, 1 owner, 1300 hrs., c/w all options incl. 3 PTH, 673 self levelling loader with E/H quick attach, w/bucket and grapple, pallet forks and bale spear, asking \$90,000. 306-740-7911, Stockholm, SK.

NEW HOLLAND 4304

2006 NEW HOLLAND TG255 FWA Super-Steer c/w front and rear duals, good tires, front and rear weights, 3PTH, 4 remotes, 1000 PTO. Field ready. Excellent cart tractor. 306-595-2180, Pelly, SK.

VERSATILE 4310

VERSATILE 700 with Leon 12' angle blade, big singles, approx. 6200 hrs., extra heater in cab for winter use, \$9750; Vers. 825, 18.4x38 duals, approx. 8200 hrs., good running cond., \$11,750. 403-597-2006, Sylvan Lake, AB.

VERSATILE 375, 400, 435, 550 used; 450, 500 and 550TD new. Call KMK Sales Ltd. 306-682-0738, Humboldt, 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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LOADERS/DOZERS 4322

2013 DEGELMAN 5700 blade, 12', mounts for JD 6150R; 2013 Degelman 5700 blade, 12', mounts for NH T7.185, \$9,500 ea. 780-679-7795, Camrose, AB.

10' DEGLEMAN DOZER blade, manual angle, lift up & down, no brackets, \$4500. Phone 780-367-2292, Willingdon, AB.

12' DEGELMAN 46/5700 4-Way dozer blade, QA, \$15,000; HLA snow wino dozer blade, trip cutting edge, \$17,000. Wandering River AB 780-771-2155, 780-404-1212

MISCELLANEOUS 4325

2006 FLEXI-COIL 5000 HD 51', 10" spacing, 5" rubber packers, single shoot, \$26,500; 2001 Bourgault 5440 dual fan, air seeder hopper, \$31,000. 403-665-2341, Craigmyle, AB.

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

RICHARDSON GRADER, good condition, \$2100. 306-460-9027, 306-463-3480, Flaxcombe, SK.

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

GPS OUTBACK EZ-DRIVE TC with S2 Display, hyd. steering control. Will fit all ATX Case/IH 4 WD tractors and other makes, \$3300. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1984 CHEV 3T, B&H, \$9000 OBO; Forklift stonepicker, \$500; Zamboni style Badger shop sweeper, \$6000 OBO; CIH 2388 concaves, \$200 ea.; Karcher hot water washer, \$700 OBO. 306-272-7038, Foam Lake, SK.

WANTED 4328

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

WANTED

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

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25' 725 CIH (MacDon) PT Swather	\$3,000
40' Morris 3100 Hoe Drills, mower and hitch	\$10,000
946 Versatile Ford Tractor, 5,000 hrs, 24.5 x 32 D	\$50,000
560 Hesston Round Baler, 1,000 PTO	\$5,500
660 NH Round Baler, 540 pto, nice shape	\$5,500
60' 582 Flexicoil Harrow Draw Bar, Nice shape	\$5,250
44' 820 F.C. Deep Till Air Seeder, harrows	CALL
2320 F.C. TBH Air Tank, complete with 320 - 3rd tank	CALL
40' 340 F.C. Chisel Plow & 75 Packer Bar, P30's	\$27,500
41' Flexicoil 300 B Chisel Plow, 3 bar harrows	\$12,500</



BLACK ANGUS 5010

CARLRAMS RANCHING BULL SALE with Guests RNRFlieck Black Angus and Flicek Hereford Ranch. Thursday February 9th, 2017, 2:00 PM, please join us for lunch at 12:00, 5 miles North of Cut Knife, SK, on Hwy 674. On offer: (14) Black Angus bulls; (51) 2 year old horned Hereford bulls; (5) 2 year old polled Hereford bulls. For information contact **Carlrans Ranching:** Cal Ramsay, 306-398-7343 or Carl Ramsay, 306-398-7879. **RNRFlieck Black Angus:** Rick Flicek, 306-823-7266. **Flicek Hereford Ranch:** Randy Flicek 306-823-7091. View catalogue on-line at: www.carlransranching.com

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

RED ANGUS 5015

90- TWO YR. OLD and yearling Red Angus bulls. Guaranteed, semen tested, and delivered in the spring. Bob Jensen, 306-967-2770, Leader, SK.

RED ANGUS YEARLING and 2 year old bulls on moderate growing ration, performance info. available. Adrian or Brian and Elaine Edwards, Valleyhills Angus, Glaslyn, SK. call 306-441-0946, 306-342-4407. www.valleyhillsangus.com

BRED HEIFERS due to calve in April, bred to easy calving Angus bulls, preg checked. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

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

NORDAL LIMOUSIN And ANGUS Bull Sale, Thursday, Feb. 16, 1:00 PM, Saskatoon Livestock Sales, Saskatoon, SK. Offering 2 year old Red and Black Angus bulls. For more info. contact Rob Garner at 306-946-7946, Simpson, SK. Catalogue online at: nordallimousin.com

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

CHAROLAIS 5055

CHAROLAIS BULLS, YEARLING and 2 year olds. Contact LVV Ranch, 780-582-2254, Forestburg, AB.

15 **PUREBRED CHAROLAIS** bred heifers and 15 second calves bred Charolais. Creedence Charolais Ranch, Ervin Zayak, 780-741-3868, 780-853-0708 Derwent, AB

YEARLING & 2 YEAR old Charolais bulls, Creedence Charolais Ranch, Ervin Zayak, 780-741-3868, 780-853-0708 Derwent, AB

CHAROLAIS 5055

POLLED PB YEARLING CHAROLAIS bulls, performance and semen tested. Will keep until April. \$3000-\$4000. Charrow Charolais, Bill 306-387-8011, 780-872-1966, Marshall, SK.

BECK McCOY BULL SALE, Wednesday, February 22, 2017 at 2:00 PM, Beck Farms, Milestone, SK. 92 Charolais and Hereford bulls on offer. Wade 306-436-7458 or Chad 306-436-7300. Catalogue online at: www.mccoycattle.com

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

REGISTERED CHAROLAIS BULLS, 2 year olds and yearlings. Polled, horned, some red. Quiet hand fed, hairy bulls. 40+ head available. Wilf at Cougar Hill Ranch 306-728-2800, 306-730-8722, Melville, SK

GELBIEH 5075



DAVIDSON GELBIEH & LONESOME DOVE RANCH, 28th Annual Bull Sale, Saturday, March 4, 2017, 1:00 PM at their bull yards, Ponteix, SK. Complimentary lunch at 11:00 AM. Pre-sale viewing and hospitality, Friday, March 3rd. Selling 100+ PB yearling bulls, Red or Black. Performance and semen tested. Contact Vera and Eileen 306-625-3755, Ross and Tara 306-625-3513, Ponteix, SK. View catalog and video on our websites: www.lonesomedoveranch.ca or www.davidsongelbvieh.com

TWIN BRIDGE FARMS 6th Gelbvieh Bull Sale, Monday, March 13, 2017, 1:00 PM at the Silver Sage Community Corral, Brooks, AB. Selling 45 yearling Gelbvieh Bull. Red and black genetics on offer. Guest Consignor Keriness Cattle Co. For info. contact: Ron and Carol Birch and Family, 403-792-2123 or 403-485-5518 or Don Savage Auctions 403-948-3520. Catalogue at www.donsavageauctions.com Sale will be broadcast on Live Auctions.tv

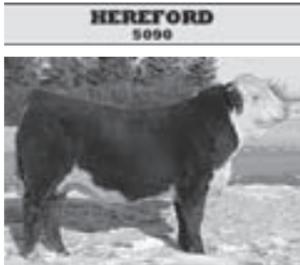
GELBIEH STOCK EXCHANGE BULL SALE, March 7, 2017 at 1:00 PM, at the Medicine Hat Feeding Co., Medicine Hat, AB. On offer: Red and Black Purebred yearling bulls. For more information or for a catalogue call Don at Jen-Ty Gelbvieh, 403-378-4898 or cell 403-793-4549. View on-line: jentygelbvieh.com

HEREFORD 5090

BECK McCOY BULL SALE, Wednesday, February 22, 2017 at 2:00 PM, Beck Farms, Milestone, SK. 92 Charolais and Hereford bulls on offer. Wade 306-436-7458 or Chad 306-436-7300. Catalogue online at: www.mccoycattle.com

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.



RANCH READY HORNED Hereford Bull Sale, March 10th, 1:00 PM at the ranch, Simmie, SK. 15 two year old bulls, 30 yearling bulls, 6 purebred open heifers, 20 commercial open heifers. View catalogue and sale videos: www.braunranch.com Contact Craig Braun at 306-297-2132.

MISTY VALLEY FARMS 41st Annual Production Sale of Horned Herefords, Wednesday, February 8th, 2017 at the ranch, 1:00 PM MST. On offer: 70 long yearling bulls including Lanni Bristow's sale group; 45 bred registered heifers; 55 bred commercial Hereford heifers; 15 open heifer calves from Mark Law. Bulls semen tested. Heifers pregnancy tested. Misty Valley Farms, RR #1, Maidstone, SK. Harold Oddan 306-893-2783; Maurice Oddan 306-893-2737; Lanni Bristow 780-943-2236; Mark Law 204-743-2049.

BANNERLANE HORNED HEREFORDS Annual Sale, Tuesday, Feb. 7, 2:00 PM CST (1:00 PM MST) at the farm, Livelong, SK. 30 coming 2 year old bulls, semen tested; 34 bred Hereford cross heifers, preg checked; 4 feature bred heifers. Dinner at noon. Central point free delivery. Email: bannerlane@littletoon.ca or phone Rob Bannerlan, 306-845-2764, 306-248-1214. Catalogue online at: www.hereford.ca



CARLRAMS RANCHING BULL SALE with Guests RNRFlieck Black Angus and Flicek Hereford Ranch. Thursday February 9th, 2017, 2:00 PM, please join us for lunch at 12:00, 5 miles North of Cut Knife, SK, on Hwy 674. On offer: (14) Black Angus bulls; (51) 2 year old horned Hereford bulls; (5) 2 year old polled Hereford bulls. For information contact **Carlrans Ranching:** Cal Ramsay, 306-398-7343 or Carl Ramsay, 306-398-7879. **RNRFlieck Black Angus:** Rick Flicek, 306-823-7266. **Flicek Hereford Ranch:** Randy Flicek 306-823-7091. View catalogue on-line at: www.carlransranching.com

WELSH BLACK 5235

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

CATTLE VARIOUS 5240

BRED HEIFERS: 75 Red and Black Angus; 25 Hereford. Exc. ranch raised females. Bred to top quality bulls. Call Dean at 780-855-2580, New Norway, AB.

75 **SECOND AND THIRD Black and Red Angus** young bred cows. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

BLACK ANGUS HEIFERS for sale, bred to Black Angus bulls. Exposed July 1 - Sept 5, \$2100. Call 306-476-2448, Rockglen, SK.

LIMOUSIN 5115

CIRCLE T LIMOUSIN purebred Red and Black performance tested bulls. Guaranteed, semen tested, by trade leading sires. 306-634-8536, 306-634-4621, Estevan, SK

NORDAL LIMOUSIN And ANGUS Bull Sale, Thursday, Feb. 16th, 1:00 PM, Saskatoon Livestock Sales, Saskatoon, SK. Offering 2 year old polled, red, and black Limousin bulls. For more info. contact Rob Garner at 306-946-7946, Simpson, SK. Catalogue online at: nordallimousin.com

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.

SIMMENTAL 5205

3RD ANNUAL JEANS AND GENETICS Simmental Bull Sale, Tuesday, February 14, 1 PM at the Ponoka Ag Events Centre in Ponoka, AB. Offering 68 Red, Black full-blood and Fleckvieh Simmental bulls. For a catalogue or more info., contact T Bar C Cattle Co, 306-220-5006. To view the catalogue online, visit: www.buyagro.com

RED AND BLACK Purebred and commercial Simmental replacement heifers. Bill or Virginia Peters, 306-237-9506, Perdue, SK.

2 YR. OLD black bulls- yearling Red, Black and full-blood bulls. Moderate BW. Bill or Virginia Peters, 306-237-9506, Perdue, SK.

WELSH BLACK 5235

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

CATTLE VARIOUS 5240

BRED HEIFERS: 75 Red and Black Angus; 25 Hereford. Exc. ranch raised females. Bred to top quality bulls. Call Dean at 780-855-2580, New Norway, AB.

75 **SECOND AND THIRD Black and Red Angus** young bred cows. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

BLACK ANGUS HEIFERS for sale, bred to Black Angus bulls. Exposed July 1 - Sept 5, \$2100. Call 306-476-2448, Rockglen, SK.



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CATTLE WANTED 5245

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

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2 **SETS OF BRASS working harness** for medium and large size drafts, \$900/ea. OBO. Phone 780-367-2292, Willingdon, AB.

SHEEP 5470

SHEEP/GOAT SALE Saturday, February 11th, 2017, 1:00 PM, Johnstone Auction Mart, Moose Jaw, SK. All classes sheep and goats accepted. Sheep ID tags and pre-booking mandatory. **Next Sheep/Goat Sale, May 13th.** 306-693-4715. www.johnstoneauction.ca PL #914447.

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USED JIFFY SLIDE-IN round bale handler, in good condition. Phone 403-627-2601, Pincher Creek, AB.

FROSTFREE NOSEPUMPS: Fully sustainable livestock watering. No power required to heat or pump. Prevents contamination. Grants available. 1-866-843-6744. www.frostfreenosepumps.com

2002 **521DXT CASE** payloader w/grapple fork. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

HI-HOG CATTLE SQUEEZE. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

SHEEP VARIOUS 5590

SUNGOLD SPECIALTY MEATS. We want your lambs. Have you got finished (fat) lambs or feeder lambs for sale? Call Rick at: 403-894-9449 or Cathy at: 1-800-363-6602 for terms and pricing. www.sungoldmeats.com

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ALBERTA ELK RANCHERS Production Sale 6th Annual. Friday, Feb. 17, 2017, 7:00 PM, Nisku Inn, Nisku, AB. Gateway Auction Services Ltd., ph. 1-866-304-4664. Details go to: www.gwacountry.com

WANTED: ELK BULLS, various ages. 306-845-7518, 306-845-244, Turtleford SK

GOATS 5765

BUTCHER MEAT GOAT KIDS, butcher lambs, bred boer nannies. 306-466-2068, Shellbrook, SK.

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HI-HOG CATTLE SQUEEZE. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

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5890

USED PORTABLE TOILETS, mostly poly John, some good, some not so good, \$300 each, take choice. 403-680-0752.

GRAINS
5947

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

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FARMLAND FOR SALE. SE-22-82-21-W5, SW-22-82-21-W5, NE-22-82-21-W5, SE-34-82-21-W5. 159 acres ea. Approx. 250 cult. acres, trees and muskeg. Nampa and Peace River area. Call 780-919-3489.

QUARTER SECTION CULTIVATED land for sale between Holden and Bruce, AB, SW-3-49-15-W4. Hwy #14 and main CN railway divide land into 2 parcels of approx. 100 and 40 acres. Two titles, both with hwy access. \$4500 surface and pipeline revenue. Can be bought as a pkg. or separately. Contact 403-782-7374.

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5923

REGISTERED BORDER COLLIE pups, Sire Scottish import, son of 2010 International Champion, top working stock. 780-941-3843, New Sarepta, AB.

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HOUSES/LOTS
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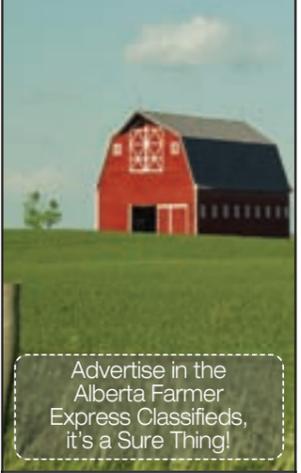
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ALBERTA
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FARMLAND FOR SALE. SE-22-82-21-W5, SW-22-82-21-W5, NE-22-82-21-W5, SE-34-82-21-W5. 159 acres ea. Approx. 250 cult. acres, trees and muskeg. Nampa and Peace River area. Call 780-919-3489.

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SALE OF LAND BY TENDER. Offers will be received by the undersigned until 12:00 noon, on the 27th day of Feb. 2017, for the purchase of the following lands located approx. 9 miles NE of Brooks, AB, at the intersection of #544 and One Tree Road for the purchase of the following deeded lands legally described as: The NE quarter of 12-20-14-W4, 160 acres more or less excepting thereout: Plan number hectares acres more or less Road 5669JK 0.745 1.84 Descriptive 9411530 1.06 2.62 Road 0510456 0.039 0.10. Excepting thereout all mines and minerals and the right to work the same. Subject to the reservations as contained in the existing title. The lands are sealed to buy and include 2 bins. There is a 40'x80' insulated heated shop and 2008 Zimmatic Pivot which are included in the Sale. The lands are subject 3 leases as follows: 2 Surface Leases in favour of Cenovus Energy Inc. and Surface Lease in Favour of Canadian Natural Resources Limited. The total annual surface lease rental is \$12,650 per year. All Offers are to be accompanied by a deposit of 5% of the proposed purchase price, with the balance payable within 30 days of notice of acceptance of the Offer. All deposits and unaccepted offers will be returned immediately after opening bids. The 2017 taxes are to be paid by the Purchaser but will be adjusted at the time of the Sale along with Surface Lease rentals. All Lands are to be purchased as is. Alternate terms may be considered. Offers shall be for a minimum purchase of one quarter section. The owner proposes a closing date of March 27, 2017. Additional particulars may be obtained by contacting Doug Jensen at 403-362-1943. The highest or any offer received will not necessarily be accepted. Offer shall be marked as "Land Tender/ Matthew Lofgren" and forwarded to, or left with Stringam LLP, Brooks Office: 212 3rd Ave. West, Brooks, AB., T1R 0G1 or 35 7th St. SE, Medicine Hat, AB., T1A 1J2.

SASKATCHEWAN
6133

RM OF BLUCHER 343: 2 quarters. SW-29-35-01-W3M, NW-29-35-01-W3M, 310 acres cult. 3 hopper bins totaling 17,000 bus. Taking offers by February 28, 2017. Call Bob 306-717-1987.

RM OF WINSLOW #319: For sale one quarter, NE-32-31-21-W3, 144 cult. acres. Call Barry 306-382-8140, Saskatoon, SK.

DWEIN TRASK REALTY INC. Perdue SW-01-35-12-W3, includes steel bins, Zipperlock shed, plus treed yardsite. On main grid. FMV = 51,400. \$127,500; Dundurn RM 313, N1/2 07-33-02-W3 and RM 314 N1/2 12-33-03-W3 Total FMV = 211,900. \$634,900. Call Dwein 306-221-1035.

ALBERTA
6132

HOMESITE AND FARMLAND FOR SALE BY TENDER: Located in the County of St. Paul, Alberta. Tenders are invited for the sale of the following farmland and improvements: SE-20-56-08 W4 (156.97 titled acres); NW-21-56-08 W4 (159.00 titled acres); NE-21-56-08 W4 (137.98 titled acres); NW-16-56-08 W4 (136.21 titled acres); NE-16-56-08 W4 (135.20 titled acres); N1/2 of SE-31-55-08 W4 (75.42 titled acres); S1/2 of SE-31-55-08 W4 (80 acres); Portion of NE-21-56-08 W4. House (1919 sq. ft. on main plus 1909 sq. ft) on SE 20-56-04. Main floor layout: Entry, kitchen, living room, Master BR + 2BR + BR/office, 2 full BR, laundry/garage entry, pantry, Walkout basement c/w in-floor heat, rec room, 2 BR, 4 pc. bathroom, storage rooms, mechanical/laundry room, 3 vehicle finished garage w/in-floor heat and oversized doors. Parcel #1 - SE-20-56-08 W4 (Arable: 97.63/pasture: 56.34) includes house and 40x60' shop w/concrete floors, 3 overhead doors (16', 14' and 12') and metal roof. Grain and fertilizer storage consisting of (12) 5000 bu., (3) 3000 bu., (3) 2100 bu. and (1) 49 ton fertilizer bin and (1) 89 ton fertilizer bin. All hopper bottom (sold separately or as part of the package), steel buffalo corral. Garden shed not included in sale. Perimeter fenced. Parcel #2 - NW 21-56-08 W4: (Arable: 104/pasture: 90.90). No buildings. Fenced. Parcel #3 - NE-21-56-08 W4: (Arable: 96.22/pasture: 41.79). No buildings. Natural water source. 2 subdivisions existing. Parcel #4 - NW 16-56-08 W4: (Arable: 95.22/pasture: 40.99). No buildings. Water source. 1 subdivision of 19.77 acres. Parcel #5 - NE 16-56-08 W4: (Arable: 80.00/pasture: 55.20). No buildings and consisting of 135.20 acres. Parcel #6 - N 1/2 of SE -31-55-08 W4: (Arable: 51.94/pasture: 22.01/waste: 1.47). No buildings. There is a 3.76 acre subdivision removed from the east side of the parcel. Parcel #7 - S 1/2 of SE 31-55-08 W4: (Arable: 62.22/pasture: 17.78). No buildings. Fenced. Parcel #8 - Part of NE 21-56-08 W4: 18.09 acres zoned for Country Residential use. Additional information and photos concerning the farmlands along with a recent buildings inspection report of the home complete with photos is available by contacting the undersigned below. Terms of Sale: Sealed tenders may be submitted on all of the Parcels, a combination of some of the parcels or each Parcel separately. Interested parties are advised to submit their bid on a Tender Form available from Robertson Moskal Sarsons. All tenders must be in writing accompanied by a certified cheque/bank draft for 10% of the bid price, as a deposit, payable to: "Robertson Moskal Sarsons in trust" placed inside a sealed envelope marked on the outside "Henderson Tender File 66023.16095 CJS" and delivered to our office address below either in person, by courier or mail. Bidders are reminded to include all of their contact information. Sealed tenders to purchase Parcel(s) shall be accepted by the undersigned until 5:00 PM (MST) on Tuesday February 28, 2017. All tenders not accepted shall have their deposit returned by regular mail on March 7, 2017. Balance of cash to close to be paid no later than 35 days after receipt of notice of acceptance by the successful tenderer/bidder or else deposit is forfeited as liquidated damages. Buyer is responsible for 2017 property taxes and the Seller shall be responsible for all property taxes up to and including December 31, 2016. Buyer shall pay GST or provide an undertaking to self-assess and indemnify the Seller. Time to be of the essence in all matters. The Buyer relies entirely on their knowledge and inspection of the property independent of any representations/warranties made by or on behalf of the Seller. Vacant possession of the home and farmlands available on closing. The highest or any tender not necessarily accepted. In the event your tender/bid is accepted, the successful bidder will be notified in writing on or before 14 days following the close of tenders. If the tender is accepted your deposit shall become a non-refundable deposit and should the bidder fail to complete the transaction the deposit shall be retained by the Seller as liquidated damages. Interested parties should make inquiries as they see fit. Submit sealed tenders, inquiries and requests for inspection to: Robertson Moskal Sarsons, Barristers & Solicitors, A - 3801 - 51 Ave (PO Box 1680), Lloydminster SK/AB. S9V 1K6. Email: csarsons@lloydlaw.ca Phone 780-875-7671, Fax 780-875-9485. Attention Mr. Christopher J. Sarsons.

SASKATCHEWAN
6133

Go public with an ad in the Alberta Farmer Express classifieds. Phone 1-800-665-1362.

SASKATCHEWAN
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4 QUARTERS, 15 miles SE of Raymore, SK. 2016 crop canola and barley. Grain storage. Call 306-746-7205.

2 QUARTERS FARMLAND, RM Spalding, E1/2-17-38-16-W2, for Sale by Tender. Highest or any tender not necessarily accepted. Submit tenders to: Greg Harcourt, Box 40, Quill Lake, SK. S0A 3E0 or email gpharcourt@gmail.com by Feb. 25, 2017. For more info call 306-383-7119.

LAND FOR SALE: RM of Wallace No. 243. NW 14-27-01 W2. 160 acres (140 cult.), Assessed 43,340. Call 204-414-4129.

ALBERTA
6132

ONE QUARTER GRAINLAND for sale, East of Bindloss, AB. For more info. call 403-379-2521.

FARMLAND FOR SALE in Manning, AB. Some full sections. Call Evelyn Petkus, Royal LePage Valley Realty, 780-836-6478.

ALBERTA
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SASKATCHEWAN
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SEVERAL QUALITY LAND packages for sale. Please check out our website at www.hcventures.ca Regina, SK.

WE CAN HELP YOU SELL YOUR LAND!

Homelife Prairies Realty Inc. Over a hundred years of combined agricultural experience. Can sell big or small packages. Can evaluate your property and work with you to get you the best price! Look after the details and your best interests! For an evaluation or a cup of coffee contact: Tim Graham, 306-526-8196 or Robert Young, 306-586-0099, Emerald Park, SK.

LAND AUCTION for Val Veroba, Kelly Fleck, Dallas Fleck & Sherry Moffat, on Thursday, March 23, 2017, Days Inn, Estevan, SK., 7:00 PM. Please join Mack Auction Company on March 23rd for your chance to own 12 quarter sections of prime farmland in RM of Browning #34. Over \$60,000 of Surface Lease Revenue being sold with the land located in the center of the Lampman/Steelman gas and oil field. NW-19-04-06-W2; NE-19-04-06-W2; \$13,350 SLR; SW-19-04-06-W2, \$3600 SLR; SE-19-04-06-W2, \$10,000 SLR (Sub-divided yardsite does not sell); SE-29-04-06-W2, existing Surface Leases not incl. in sale (Sub-divided yardsite does not sell); SW-29-04-05-W2, \$2725 SLR; SE-29-04-05-W2, \$3050 SLR; NE-28-04-05-W2, \$5775 SLR; SE-28-04-05-W2, \$7175 SLR; SE-18-04-05-W2, \$8450 SLR (Sub-divided yardsite does not sell); SW-17-04-05-W2, \$6650 SLR; SE-06-04-05-W2. For sale bill and photos visit www.mackauctioncompany.com. Join us on Facebook and Twitter. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

WANTED: UP TO 250 quarters of grain land. Will consider most parts in SK. and AB. For more info. phone 306-221-2208.

FARMLAND FOR SALE in RM of Kinistino, 6 quarters: NE 35-46-22 W2; NW 35-46-22 W2; NE 36-46-22 W2; NW 36-46-22 W2; SE 36-46-22 W2; SW 36-46-22 W2. Taking offers until February 17, 2017. Contact: 306-931-2058 or jim.heather@sasktel.net

RM #369, 160 acres: 130 farmland, 20 grassland, 10 yardsite. Incl. 3 bdrm house, 3 car garage, quonset and sheds. 306-872-4500, 306-874-7778, Spalding SK

CASH RENT: 6 quarters in 1 block, RM Kingsley #124, Kipling/Whitewood area. One quarter 7 miles from home residence may consider selling. 306-696-2957.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

FARMLAND FOR SALE in the Kipling, SK. area, RM 124. 7 quarters with 1000 cult. acres, 1200 sq. ft. w/double alt. garage, nat. gas heat, built in 1995, heated shop, quonset, seed cleaning complex incl. weigh scale and apple grain storage. 306-736-2850, 306-735-7575.

FARMLAND FOR SALE BY TENDER. RM of McCraney No. 252. Legal Description: NW-32-30-01-W3, ext. 0, SW-32-30-01-W3, ext. 0. Conditions of Offer: 1. All offers to be submitted on or before 4:00 PM on February 28, 2017 to: Shirley Law Office, Box 280, 127 Washington Ave., Davidson, SK, S0G 1A0. 2. Contact Shirley Law Office at shirley@sasktel.net or 306-567-2023 to obtain Bid Form. 3. Deposits of \$5000 made payable to Shirley Law Office. Cheques will be returned to unsuccessful bidders. Highest or any offer not necessarily accepted. 4. Persons submitting offers must rely on their own inspection of land and improvements as to condition and number of acres.

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest; excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

4 QUARTERS, 15 miles SE of Raymore, SK. 2016 crop canola and barley. Grain storage. Call 306-746-7205.

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RECREATIONAL VEHICLES

PEAS
6558

CERT. #1 CDC Amarillo, CDC Meadow, AAC Ardill, CDC Limerick (green), Ardell Seeds Ltd., 306-668-4415, Vanscoy, SK.

CERTIFIED ABARTH European variety, better standability and disease package. 306-843-2934, Wilkie, SK. www.herle.ca

CERTIFIED #1 CDC Amarillo and CDC Meadow. Fenton Seeds, 306-873-5438, Tisdale, SK.

CERTIFIED #1 CDC Amarillo, high germ. and quality. Seed Source, 306-323-4402, Archerwill, SK.

CERTIFIED CDC AMARILLO, CDC Limerick, CDC Greenwater, CDC Mosaic. Call Grant, Greenfields Seeds, 306-746-7336, 306-524-4339, Semans, SK

REGISTERED CERTIFIED CDC Greenwater; Certified CDC Striker, Martens Charolais and Seed, 204-534-8370, Boissevain, MB.

SPECIALTY CROPS

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6464

NEW CERTIFIED CDC Calvi, CDC Bastia, CDC Togo. Itchless. Very good condition. 306-843-2934, Wilkie, SK. www.herle.ca

CERT. CANTATE CANARY SEED. Highest yielding available variety. Hansen Seeds, 306-465-2525 or 306-861-5679, Yellow Grass, SK. jsh2@sasktel.net

CERTIFIED CDC CALVI. Phone Grant at Greenfields Seeds, 306-746-7336, 306-524-4339, Semans, SK

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FORAGE SEEDS
6485

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OILSEEDS
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LOOKING FOR OLD and new crop soybeans FOB Western Canada. Licence and bonded grain company. Call, email, text Now for competitive pricing at the farm! Market Place Commodities Ltd, accurate real time marketing. 403-394-1711, 403-315-3930. info@marketplacecommodities.com

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FEED GRAIN
6505

ATTENTION

WANTED HEATED CANOLA. No broker involved. Sell direct to crushing plant. Cash on delivery or pickup. 306-228-7306 or 306-228-7325, Unity, SK.

WANT TO BUY all grades of oats and feed barley and wheat. Mail samples to: Green Prairie, RR 8, Site 30, Comp 11, Lethbridge, AB. T1J 4P4. Call 1-877-667-3993.

WHY NOT KEEP MARKETING SIMPLE? You are selling feed grains. We are buying feed grains. Also buying chickpeas, lentils and golden flax. Fast payment, with prompt pickup, true price discovery. Call Jim Beusekom, Allen Pirness, David Lea, Vera Buziak or Matt Beusekom at Market Place Commodities Ltd., Lethbridge, AB. Phone 1-866-512-1711. Email info@marketplacecommodities.com or

VAN RAAY 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 403-732-5641.

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, Neilburg, 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. client@lpctrade.com bhajt@lpctrade.com

HAY/STRAW
6510

ROUND ALFALFA/ALFALFA GRASS solid core greenfeed 5x6 JD hay bales for sale. Call 306-237-4582, Perdue, 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. 1-800-665-1362.

HAY/STRAW
6510

ALFALFA CUBES, LIVESTOCK PELLETS, bedding and grass seed. Cubes: \$250, 500 kg tote; \$12.70, 20 kg bag; Bulk available. Bulk livestock pellets. Bedding shavings. Grass seed dealer. Delivery available. 780-201-2044, Bonnyville, AB. Email: info@tncfeedsandbrushing.com

HORSE AND DAIRY QUALITY HAY, alfalfa and orchard grass mix, 80- big squares 4x3x8, between 1100 and 1200 lbs., \$88. 2000- small squares, 60-65 lbs., \$6. No rain, shedded. All prices are hay shed price. Phone 403-381-4817, Coalhurst, AB.

SHEDDED DAIRY AND FEEDER HAY, 3x4x8 square bales; Greenfeed and straw. Tests available. 403-633-8835, Tilley, AB.

2ND CUT ALFALFA, 3x4x8' squares, 200 tons. Also big square flax straw bales. 403-501-1837, Tilley, AB.

ALFALFA 3x4 SQUARES, 2nd and 3rd cut; Feed tests avail. Triticale greenfeed bales. 403-501-9307, 403-362-6682, Tilley, AB.

QUALITY HAY 1st, 2nd and 3rd cut dairy and beef hay, 3x4 square bales, shedded; Triticale greenfeed with delivery available. 403-633-3777, 403-363-3318, Tilley, AB.

APPROX. 350 FIRST cut large round alfalfa mixed bales, average weight 1400 lbs., \$50/bale. 780-352-8858, Bittern Lake, AB.

ALFALFA BROME PUBESCENT 3x3x8 bales, 1st and 2nd cut. Feed analysis available. Call 306-773-2503, 306-741-9784, Swift Current, SK

LARGE ROUND ALFALFA brome mixed hay. Call 306-764-6372, Prince Albert, SK.

400 BROME/ALFALFA 6x6 round hay bales, 4c/lb., no rain. Contact 306-634-7920, 306-421-1753, Estevan, SK.

ALFALFA BALES FOR SALE: 8x4x3 squares, feed tests available, \$52/each. Call 306-728-2529, Yorkton, SK.

190 BARLEY BALES, netwrapped, 2090 lbs., \$75 each or 30 or more for \$70 each. 306-397-2677, 306-441-0677, Edam, SK.

ROUND BALE PICKING and hauling, small or large loads. Travel anywhere. Also hay for sale. 306-291-9658, Vanscoy, SK.

GOOD QUALITY HAY, no rain, 1250 lb. round bales. Can deliver. 306-463-8669, Kindersley, SK.

GOOD QUALITY HAY put up dry without rain. 400 big square bales, 3x4x8, 306-320-1041, Leroy, SK.

ROUND WHEAT STRAW bales and greenfeed oat bales, all netwrapped. Phone/text 306-291-9395, Langham, SK.

HORSE QUALITY HAY bales rounds and small square, grass or alfalfa. Call 306-290-8806, Dundurn, SK.

200 ORGANIC ALFALFA big rnd. hard core bales, approx. 1600 lbs., no rain, taking offers. Can load. 306-276-2402, White Fox.



SHAVINGS: Cattle Feedlot/horse/poultry bedding. Bulk pricing and delivery available. Vermette Wood Preservers, Spruce Home, SK. 1-800-667-0094. Email info@vwpltd.com View www.vwpltd.com

CONVENTIONAL WHEAT STRAW round bales and pea straw round bales. Ph/text Troy 306-867-7719, Glenside, SK.

ROUND ALFALFA/GRASS MIXED hard core, 5x6, average 1450 lbs., 3.5c/lb. 306-736-2445, 306-577-7351, Kipling, SK.

CUSTOM BALE HAULING. Will haul large squares or round. Phone 306-567-7199, Kenaston, SK.

HAY FOR SALE OR trade for bred cows, or will custom feed cows. \$55 a bale. Call Mitch 306-561-7576, Kenaston, SK.

FINE CHOPPED ALFALFA silage bales, individually wrapped, 1200 lbs., \$55/bale, hay analysis available, dairy quality. Hay bales, 1400 lbs., 25% alfalfa, 75% Meadow Brome, no rain, \$63/bale. 306-963-7656, Imperial, SK.

200 BIG ROUND organic oat straw bales, \$18 each. 306-722-3225, Fillmore, SK.

TOP QUALITY GRASS HAY for sale, shedded, can deliver, 306-501-9204 ask for Paul. Belle Plain Colony, Belle Plain, SK.

ROUND NETWRAPPED ALFALFA/BROME bales. No rain. Approx. 1500 lbs., 4c/lb. Call 306-482-7492, Carnduff, SK.

ROUND HAY BALES, Cicer Milk Vetch/ brome mix, 2016 \$45, 2015 \$40. 306-742-5900 leave msg, Calder, SK.

1000 ROUND 5x6 BALES. Grass/legume grass, unthreshed barley and straw. Excellent to average quality. Priced accordingly. Contact Ed 306-563-6261, Gortitz, SK.

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6540

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WE BUY DAMAGED GRAIN

Wheat, Barley, Oats, Peas, etc. Green or Heated Canola/Flax

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- Spring Threshed

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SEED WANTED
6542

FEED GRAIN WANTED! Also buying light, tough or offgrade grains. "On Farm Pickup" Westcan Feed & Grain, 1-877-250-5252.

BUYING SPRING THRASHED CANOLA and grain "On Farm Pickup" Westcan Feed & Grain, 1-877-250-5252.

BUYING HEATED/DAMAGED PEAS, FLAX & GRAIN "On Farm Pickup". Westcan Feed & Grain, 1-877-250-5252.

TANKS
6925

POLY TANKS: 15 to 10,000 gal.; Bladder tanks from 220 to 88,000 gallon; Water and liquid fertilizer; Fuel tanks, single and double wall; Truck and storage, gas or dsl. Wilke Sales, 306-586-5711, Regina, SK.

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TARPCO, SHUR-LOK, MICHEL'S sales, service, installations, repairs. Canadian company. We carry aeration socks. We carry grain bags. We now carry electric chute openers for grain trailer hoppers. 1-866-663-0000.

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7050

TWO 20.8x38 T-RAIL duals w/rims, quick attach, \$5000; 16.9R28 T-Rail duals and rims, quick attach, \$4500. 780-771-2155, 780-404-1212, Wandering River, AB.

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FARM/RANCH
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DOMESTIC SERVICES
8008

EXPERIENCED LIVE-IN Care giver with 12 yrs exp., is looking to care for a senior lady. Please call 306-551-7300.

FARM/RANCH
8016

RANCH HAND MANAGER wanted for 300 cow/calf ranch near Horsefly, BC. This ranch is remote bordering Horsefly River, with a main salmon spawning creek year round running through the yard. Ranch has great handling facilities, a young Angus cow herd, no hay to put up. Applicants must be able to run feeding equipment, range ride, fence, herd health and grass management, be a self starter and work unsupervised. Prefer a mature couple (co-workers). Furnished house supplied. Health benefits. Company pickup for work. **Needed immediately.** References required and will be checked. Email resume to: nesbittbank1b@europe.com

FARM WORKER WANTED on small feedlot near Edmonton, AB. Full-time. Must have Class 1 license. Job entails 60% trucking, 30% working with cattle and 10% running other equipment. Wage is \$25-\$30/hr., benefit package, WCB, 2 weeks holidays after one year. Housing available. E-mail resume to: agemploy@gmail.com

FARM/ RANCH HELP WANTED for a mixed operation in southern AB. Must be reliable, self motivated, have mechanical skills, previous farm experience, and valid Class 1 license would be an asset. Must be able to operate and maintain equipment, have experience working with cattle, fencing and other general farm duties. House and utilities supplied. Wage based on experience. Email resume with references: lazyr.angus@gmail.com 403-502-0845.

FARM LABOURER REQUIRED for mixed farm to operate machinery, cattle handling, and general farm duties. Driver's license abstract may be required. Single or family accommodations including utilities. Phone 403-575-0712 or fax resume to 403-577-2263, Consort, AB.

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FARM/RANCH
8016

PASTURE RIDER WANTED. Dundurn Grazing Association, Dundurn, SK., for the 2017 season. Must have own working horses and equipment. Accommodations provided. Any questions call Stan Logan 780-834-7327. Send resume with 2 references to: Dundurn Grazing Association, General Delivery, Dundurn, SK. S0K 1K0.

TWO FULL-TIME GENERAL Farm Workers wanted on a mixed farm near Ponteix, SK. Duties: Operating and maintaining farm equipment and general farm labor tasks. Should have: General mechanical skills, 1-2 years farm experience, be reliable, self motivated and understand long working hours during peak seasons. Wage \$18/hr. E-mail resume to: daveedna@xplornet.ca Ph. 306-588-2627, D&E Evans Farm Ltd, Box 698, Ponteix, SK. S0N 1Z0.

PASTURE RIDER CONTRACT POSITION available at Masefield Grazing Ltd for the 2017 grazing season, May 1 to Nov. 15. Applicant must supply own horses and have knowledge of herd health, handling and treatment of cattle from horseback and will also be responsible for other general pasture duties including fencing. The successful applicant will be supervised by the Pasture Manager and must possess a good work attitude. Wage will range from \$22 to \$25/hr. depending on experience. Housing available. Employment may lead to future full-time management position. Apply with references by **March 1**, to Masefield Grazing Ltd, Box 276, Val Marie, SK., S0N 2T0 or to Stan Day, Manager, Box 149, Val Marie, SK., S0N 2T0. 306-298-4417.

POSITION AVAILABLE, Cypress Hills, SK. area. Background yearling grasser operation and cow/calf. Modern facilities and equipment. Good working environment. Class 1 preferred. Wages negotiable depending on experience. Ph. 306-295-7473.

HIRING

LARGE COW/CALF RANCH in NE Sask. seeks energetic **Ranch Hand**. Bunkhouse accommodation provided. Email resume: knilson@sasktel.net Fax 306-428-2192.

2 FULL-TIME FARM Laborer positions on large mixed farm. Wages \$18-\$20/hr. depending on experience. Individuals should have good work ethic, positive attitude, mechanical skills, and be able to work with others. Duties include: Operating and maintaining medium to large farm equipment. Must have previous farm experience. Furnished housing w/utilities avail. for \$500/mo. Non-smoking environment. Fax 306-264-3752 or call 306-264-7742. Paul Lacasse, Lacasse Farms, Box 207, Kincaid, SK. S0H 2J0.

EXPERIENCED FULL-TIME HELP for mixed farm, Class 1 an asset. Competitive wages. Call 306-537-6435, Odessa, SK.

FARM/RANCH
8016

CLEANING PLANT TRAINEE/OPERATOR, full-time to Operate grain cleaning equipment at Hickseeds Ltd. in Mossbank, SK. Should have: Knowledge of grain and seed industry; Ability to manage time and meet deadlines; Good communication skills; Record keeping capabilities for bin samples, quality control etc; Be able to follow specific directions, protocol and procedures. Duties will include: Provide support to site manager to ensure work flows in a safe and efficient manner; Loading/unloading trucks; May be required to assist with farm duties at times. Must be flexible with work hours during peak season, be able to work independently and have own transportation. Wages based on experience. Call Barry Hicks 306-354-7998 or e-mail: barry.hicks@pioneer.com

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2 SEASONAL FARM MACHINERY operators required. Must be able to operate grain cart, tandem grain truck, FWA tractor w/rockpicker, 4WD tractor for harrowing. Also manual labour for upkeep of leafcutter bees and general servicing of equipment. May 1 to October 31. \$15-\$18/hr. 101008187 SK Ltd., 303 Frontier Trail, Box 372, Wadena, SK., S0A 4J0. Fax: 306-338-3733, phone: 306-338-7561 or email: cfchr9860@hotmail.com

FARM HELP WANTED, April 15 to Nov. 30. **Would hopefully return next year.** Some experience in farm equipment operation, mechanical abilities, clean driver's license, \$15-18/hr., depending on experience. Extra training will be provided. Ph. 306-335-2777, fax resume and references to: 306-335-2773, Lemberg, SK.

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HELP WANTED
8024

CLAYTON AIR SERVICE LTD is seeking 5 Professional Turbine Ag Pilots for the 2017 Spray Season. Air Tractor 502B. Requirements: All 5 positions from May 5 thru to Oct. 5. Provincial pesticide licenses required. 1000 hours + aerial application experience preferred. Updated medical. Strong ability to adapt to changing situations and maintain a positive attitude with customers, co-workers, and supervisors. Strong communication and problem solving abilities, with quality service delivery as the utmost priority. Proficiency in English reading and writing. Capable of operating GPS guidance systems. Must be insurable. Accommodations and vehicle provided during employment. Wage \$60/hr. 40 hour week. Bonuses based on performance. Contact Clayton Rempel phone 306-497-7401, e-mail resume to: Claytonairsk@gmail.com

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USED COMBINES - All Combines REDUCED TO CLEAR

2011 NH CR9070, 1360 thrs hrs	\$199,000
2007 NH CR9070, 1516 rotor hrs	\$165,000
2015 NH CR8.90, 150 thr hrs, stone trap, guidance MacDon pick-up	\$485,000
2013 NH CR8090, 966 thrs hrs	Coming In
2014 NH CR8090, 741 thrs hrs	Coming In
2014 NH CR8090, 733 thrs hrs	Coming In

USED HEADERS

2010 NH 36' 94C, draper header	\$54,000 Reduced to \$39,000
2011 NH 94C, 36' DK	\$49,000 Reduced to \$39,000

USED TRACTORS

1994 NH 8870, 180 hp Row crop super steer 5900hrs	\$70,000
2003 MacDon 9352, 30' DBL, 2800 hrs	\$42,800 Reduced to \$38,000
2012 Boomer 50 Compact Tractor	\$28,000
NH TC 18, compact hydro, 4WD, 60 belly mount deck	\$7,200
1981 Versatile 875, 7600 hrs, Excellent rubber	\$22,500

USED SWATHERS

New Holland SpeedRower 240, Demo discounts, must see!	Call
Includes NEW 36' NH 436HB Header	Call
2011 MacDon M150, c/w 30, D60	\$125,000
2013 MacDon M155, c/w 25, or 30, D65 header	SOLD Coming In
2003 MacDon 9352, 30' DBL, 2800 hrs	\$42,800
MacDon 2940, C/W 30' header	\$48,000
2012 MacDon M105, c/w 30' D65	\$125,000
(2) MacDon M200, c/w R80 disc header and D60 30' header	\$128,000
2015 M155, 150 hrs, 25' Dbl D65	\$150,000
(2) 2014 MacDon M155, c/w D65 30ft header, 450 hrs	Coming In

USED SPRAYERS

2011 NH SP365F, 1600 gal, 120', Auto Steer	\$282,500
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USED FORAGE & HAYING

2002 NH 688, 10000 bales	SOLD \$14,500
2011 NH BR7090, 9700 bales	\$21,000
CIH DCX131, 13' pull type disk mower conditioner	\$16,900
CIH RBX562, round baler	\$23,500

MISC

2014 C238 Tracked Skid Steer Loader	Call
Kongskilde grain vac	Call
Supreme 900T, pull type	\$42,000

TILLAGE

2010 Agrex Maxi, 10 tonne fert spreader	SOLD \$35,000
2015 NH ST830, 62' cultivator as new 9" spacing	Call
Flexi Coil 3450, var rate air cart TBH	\$38,000
2000 New Holland P2070, precision drill 60'	\$49,500
NH/Flexi-Coil SC430, tow behind air tank	SOLD \$45,000
New Holland P1050, tow behind air tank	Coming in
Salford 5129, 29' High speed Disc completely rebuilt	\$99,900
2006 NH SD440A, 51' 10" paired row 5" rubber	
C/W 20011 P1060 430 bu cart	\$125,000

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675910

\$54,000 REDUCED TO \$39,000

2010 New Holland 94C Header, 36 feet

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\$282,500

2011 New Holland SP365 Sprayer, 1600 gal, 120', Comes with 3 yr, 3000hr power train warranty

\$128,000

MacDon M200, c/w R80 disc header and D60 30' header, 2 to Choose from

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2013 New Holland CR9070, Auto Steer, Twin Rotor, Chopper and More!

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2014 C238 Tracked Skid Steer Loader

805223

\$23,500

2003 Case RBX562 Round Baler

\$485,000

2015 New Holland CR8.90, 150 thr hrs, stone trap, guidance MacDon pick-up

\$125,000

2006 New Holland SD440A, 51' 10" paired row 5" rubber C/W 20011 P1060 430 bu cart

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