



LAND’S EXPENSIVE, IMPROVING IT ISN’T

Cocktail cover crops are an inexpensive way to make your land work harder for you » PG 3



OUR NEW COMPETITIVE ADVANTAGE

Canada is the world leader in sustainable beef, says a top official with JBS USA » PG 2

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EXPRESS

The challenge ahead: Getting a decent price for downgraded crops

Discounts for lower grades are widening, and working the phones with grain buyers is crucial if you have good quality

BY JENNIFER BLAIR
AF STAFF

The rain started falling in the middle of the night on Aug. 22, dumping two inches of water on John Guelly’s mature crops in less than 12 hours.

And then the storm started.

“I thought we had the worst of it, and then it ratcheted itself up. We ended up getting almost seven inches in about 32 hours,” said Guelly, who grows barley, wheat, and canola near Westlock.

“Around the fourth or fifth inch, all the water started running off the land and through the creek system, backing up the culverts just like in spring.

“We’ve never seen this before. This has got to be a one-in-50-year rain event at this time of the year.”

The flooding receded a day later but by then, the damage was done.

“I got some malt barley off last week, but with what’s left, I think malt is definitely out of the question,” Guelly said in an interview Aug. 25. “I’m worried that even the standing barley is going to start sprouting if we keep with this kind of moisture.”

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RUNNING FROM DAWN TO DUSK: Women ag entrepreneurs face extra challenges

Operating a farm, raising kids, and building a business often mean there’s no time for conferences and other vital learning opportunities



Nancy and Ray Nolan split farm and childcare chores but like many women agri-entrepreneurs, Nancy says she faces unique challenges.

PHOTO: LAMBTASTIC FARMS

BY JENNIFER BLAIR
AF STAFF

At first, Kim Good didn’t really see the point of a program geared toward women agri-food entrepreneurs.

“I sometimes get a little annoyed at the fact women need more programming than anybody else,” said Good, who co-owns Farm Fresh Pet Foods, which has a line of healthy dog food products made from Alberta-sourced ingredients.

“I thought, ‘Women can do whatever men can do. Why are we worried about this? Let’s get past this. The less we talk about it, the faster we’ll move forward.’”

But Good changed her mind when she was invited to take part in a focus group for the Success for Women in Ag program, a pilot project for rural Alberta women entrepreneurs that will launch in 2017.

“Once I started talking to other women and listening to them, I realized that we face the same things,” said Good, who also operates a grain and cattle farm near Carstairs with her husband and two sons.

“We do have a different role in our agri-businesses, our families, and our communities. I eventually came to the realization that there are places where women can use more assistance.”

The three-year-long project is being designed to address some of the unique challenges faced by rural Alberta women when building their businesses, said Heather Broughton, who is leading the project for the Agriculture and Food Council.

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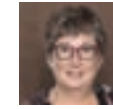


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Sustainable beef is 'an incredible opportunity'

Canada's beef sector leads the world when it comes to sustainability and needs to tell that story, says Cameron Bruett

BY ALEXIS KIENLEN
AF STAFF/CALGARY

It's time for the beef industry to speak up and explain itself to its detractors and the people who don't understand it.

"I become very frustrated when I see media and activists attacking the global beef industry," Cameron Bruett, head of corporate affairs and sustainability with JBS USA, said at last month's Canadian Beef Industry Conference.

"When you look at North America, we have the most efficient, genetically superior herd in the world. We have the most efficient modern facilities and our product is enjoyed around the world unlike any other. But we're constantly under attack."

But that makes the push for sustainable beef "an incredible opportunity for all of us involved in beef production," he said.

"We have made incredible gains — whether it be in environmental, social, or economic principle — but we're often attacked when it comes to sustainability," said Bruett, who sits on the board of the Canadian Roundtable for Sustainable Beef as well as its global and U.S. sister organizations.

"I can stand up here and say this because I'm a board member of all these roundtables. You (in Canada) are making the most advancements when



There was thunderous applause when Cameron Bruett said Canada leads the world in the effort to produce sustainable beef, but the JBS official also said the beef sector still faces many challenges. PHOTO: KELTEY WHELAN

it comes to sustainable beef today," he said to thunderous applause.

But that doesn't mean the Canadian industry doesn't have obstacles to overcome.

First, it needs to stop infighting. "Too often, we like to juxtapose organic versus natural versus conventional and confuse consumers," said Bruett. "I think it's very important that Canadian agriculture celebrate its diverse forms."

Second, Canada needs to maintain its research capacity.

"In the United States, we have effec-

tively starved research and extension when it comes to agriculture. We need to reverse that trend," he said.

There also needs to be more partnership, collaboration, and education in the sector, especially when it comes to retailers and food-service companies.

"Though we are not integrated like poultry or pork, it's important that we have virtual integration and a co-operation so we can send those price signals and understand the impacts that these decisions are having on our cow-calf producers," he said.

Strong trade relationships are another priority, he added.

"As population grows in these developing countries, we must have access to these consumers. They love the beef we produce in North America. We must have access to these markets for our industry to thrive."

Bruett also spoke out about GM labelling on food products.

"This is causing confusion because products like pepperoni pizza can be given GMO codes. This creates more and more consumer confusion."

He also challenged his audience to "be more aggressive" in defending their products and their values.

"We need to work on this branding and this image of our industry — celebrate who we are and take those activists head on," he said. "These activists are not producing anything but noise. We're producing food. We're feeding people."

Bruett showed some aggression of his own in defending conventional production, saying "it would be irresponsible and immoral to roll back those (production) gains simply to meet the demands of very wealthy consumers in North America and Europe."

Consumers need to know that modern farming techniques are required to feed a hungry planet and also that they produce wholesome food, he said.

"Many of us know there is no nutritional difference between conventional and organic but increasingly, we have consumers who don't," he said.

The beef industry needs to engage marketers and companies, or the activists and marketers will define the industry, he added.

"This is your problem. The people who are communicating what agriculture is, and its values, to the consumer aren't necessarily agriculturalists. This is our job as an industry and we aren't doing a very good job of it."

Sustainability needs to become the norm and a given, just like food safety.

"A consumer should not have to make a sustainable choice in a supermarket," said Bruett. "All products should be sustainable. We need to look at this in a competitive fashion so that everyone in the Canadian beef industry can have this wonderful sustainable halo."

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GrainsConnect puts Innisfail terminal project on hold

The Japanese-Australian joint venture is going ahead with a Saskatchewan grain terminal but is reviewing its plans in Alberta

BY JOHNNIE BACHUSKY
AF CONTRIBUTOR

A new high-throughput grain terminal planned for Niobe is now in jeopardy of being derailed.

Construction of the \$30-million to \$40-million GrainsConnect Canada facility on a site one kilometre north of Innisfail was supposed to start this year, with the terminal opening in 2017.

But the project has been suspended and the company is considering other sites in Alberta, said Warren Stow, president of GrainsConnect, a joint venture launched by Japan's Zen-Noh Grain Corp. and Australia's GrainCorp last year.

"We are on hold at this point until

we sort out some of the agreements around the terminal," said Stow.

He would not elaborate on the reasons for the change in plans, but said it's possible the Niobe grain terminal project won't proceed.

"That's fair. At this point we don't have enough information to give it justice," said Stow. "When we have all the information available we're happy to share it. But at this point nothing has been determined, so to say it's not going ahead isn't correct and to say it is going ahead isn't correct."

News of the Niobe project became public in February, and was soon followed by Paterson Grain's announcement of an even bigger 55,000-tonne grain terminal at Bowden, 15 kilometres to the south.

GrainsConnect's proposed terminal on a 207-acre site just west of a Canada Malting Co. elevator, which the company owns, would have processed up to 35,000 tonnes of grain in 10 hours from 10 massive concrete towers. The project was designed to include a 2,700-metre loop rail track from the existing CP rail line.

Stow said "nobody is more disappointed than I am" that the Niobe terminal has been put on hold.

"We want to make sure we are making good solid economic decisions," he said. "We are going to pick locations that make sense, so we are going to take our time (and) not rush into anything."

The company is now focusing on its two Saskatchewan grain terminal projects, including a new one at

Maymont (midway between Saskatoon and North Battleford) that is identical to the one planned for Niobe.

"We had the ability to switch on the Saskatchewan locations immediately so that is what we did and we will proceed in Alberta next year," said Stow.

Last December, GrainsConnect Canada announced it was investing \$120 million to construct four grain terminals in Alberta and Saskatchewan.

In the meantime, Winnipeg-based Paterson Grain, despite dealing with the regulatory wetlands issues with Alberta Environment at its site, is "100 per cent" going ahead with its planned Bowden terminal, said Shane Paterson, the company's corporate development officer.

"From our perspective things are progressing as good as hoped and we are definitely still hoping to start potentially as soon as September but all of the cards have to fall into the right place for that to happen," Paterson said last month.

The latest development from GrainsConnect will not alter his company's plans, he said.

"I can't speak to what GrainsConnect is doing or what might have motivated its change in plans," said Paterson. "For the farmers there will be less capacity in the region, which is maybe a good thing or a bad thing depending on the year."

Paterson Grain is also currently constructing a new grain terminal in Daysland, as well as one in North Dakota.

Cocktail cover crops: This ain't your granddad's grazing system

Innovative producers, especially younger ones, are looking to cover crop cocktail mixes to build soil health and get more production per acre

BY JENNIFER BLAIR
AF STAFF / HARDISTY

Nearly 150 people — some from as far away as Manitoba — converged on a farm near Hardisty recently to learn more about cover crop cocktail mixes.

But tour organizer Graeme Finn noticed something a little different about the crowd at the event in late August — it was mainly young farmers.

“Young people can't afford to buy land these days, so they're looking at how they can make their land work harder for what they're doing,” said Finn, a grazer from Crossfield who also works with Union Forage.

“And that's through multi-species diversity. By having livestock in rotations and having top-quality perennial and annual pastures, they don't have to go buy more acres.”

Cocktail cover crop mixes have been successfully used in grazing systems around the world — particularly in New Zealand and Australia, where Finn was raised — but they're only now starting to gain traction in Alberta, he said.

“If you look at the people who are integrating this into their system, they're the leaders in their districts. They're the guys who are the innovators — who people talk about at the coffee shop.”

And in many cases, young producers are leading the way.

“It's not sustainable to go and graze the way we've been doing for years without any consequences, which we're already starting to see,” said Finn, adding that “young people understand that better.”

“With younger people now, they're more concerned than the last generation was, and they don't have the cash flow that the last generation did either.”

As a result, the up-and-coming generation needs to do more with less, and they're exploring cover crops as a way to do that, in part because of the benefits



Young graziers need to do more with less, and cover crop cocktail mixes are a way they can do that, says grazer Graeme Finn.

to their cattle — one to three pounds of average daily gain — but also because they recognize the value of healthy soils.

“A lot of guys and their wives have jobs off farm, but they want to be more on the farm,” said Finn. “They've got to build that soil health in order to build their operation up.”

Cover crop benefits

And at around \$100 an acre in production costs, cocktail cover crop mixes are a relatively inexpensive way to enhance the soil.

“It's all about soil health — building biology in the soil,” said Finn. “The more biology we've got working in the soil, the less chemical inputs we're going to have to use for fertilizers.”

“If we can start building soil health, the better off we are.”

Cover crop mixes also produce more biomass than the average pasture stand, so they can be grazed three or four times during a season, said Finn.

“You can up your stocking rate on good-quality forages without buying more land,” he said, adding that rotational grazing often

goes hand in hand with these forage mixes.

“Posts are cheap. Land isn't.”

Cocktail mixes generally have species from four different categories — warm-season broadleaf plants and grasses along with cool-season broadleaf plants and grasses — and as a result, root systems in the soil are more varied and soil organic matter is increased.

And that helps in a drought year, said Finn.

“The more organic matter we get in there, the more water-holding capacity we have,” he said. “One per cent organic matter can retain 45,000 gallons of water per acre. If we get more diversity into the soil, that's making the place drought-proof as well. You'd be able to carry cattle longer during a dry spell.”

But because these types of mixes are relatively new to Canada, learning how to manage them can be a barrier for producers trying them for the first time.

“Because it's new up here, we've got to learn how other people are doing it, but we also have to create a community up here



Cover crop cocktail mixes generally include species from four different categories — warm-season broadleaf plants and grasses along with cool-season broadleaf plants and grasses. PHOTOS: JENNIFER BLAIR

where we can share our experiences and ideas,” said Finn. “If I make a mistake, I can put it out there and say, ‘OK, in my area, I won't use millet again.’”

Young producers tend to be more adept at sharing ideas, he added.

“There's more information out there, and they know how to go out and source it too.”

On his own operation, Finn has narrowed his mix to six or seven species (usually sainfoin, vetch, alfalfa, soft-leaf tall fescue, orchardgrass, and brome) because a lot of warm-season grasses won't work in his area. But areas in southern Alberta might have a different mix.

“What we do at Union Forage is say, ‘Here's the base. Start from there,’” said Finn, adding that the base mix will depend on the area it's being planted.

“You make it what works for you.”

Finn also moves his cattle on 10- to 12-day shifts, but others might be moving every two to three days.

“Make it scale to suit your operation and your workload.

You might not want to move them every three days, but you might want to move them every 10 days,” said Finn.

“You've got to pick what works for you and your management style.”

The real beauty of this style of grazing is that “none of this is set in stone,” he said.

“It's innovative, so nobody's going to say, ‘This is how you do it.’”

But producers who are considering trying cocktail mixes for the first time would do well to learn from more experienced growers, Finn added.

“Visit someone who's already doing it in your area if you can find them,” he said. “There's mentors around the province who you can go and see within your area.”

And winter is the right time to start that research.

“Do your research 12 months ahead of time, not the day you want to go and start seeding. Don't make the decision today and then start tomorrow.”

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OPINION



BY LAURA RANCE
EDITORIAL DIRECTOR

The farmer on the phone said he was confused by all the media reports about Canada potentially losing its access to the Chinese canola market.

When he delivers canola to the elevator he gets charged a fee for dockage and cleaning.

Yet he is also familiar with one of the “dirty” little secrets of the export grain trade. After all that “cleaned” canola is loaded into the cargo hold at port, there is typically a dump of dockage added back in to bring levels back up to the allowable export limit of 2.5 per cent.

So — he wondered — what is all the hullabaloo about over China’s demand that Canada send it only one per cent dockage instead?

He’s not the only one shaking their heads over how this trade spat has unfolded.

The world is full of customers who think they deserve special treatment. They are the people who send their meal back in a restaurant if it isn’t cooked to their liking, or the ones who brag about never paying full price for anything.

Even farmers have been known to use their scale or long-term loyalty as leverage to extract a little better deal from their suppliers. In business, that’s considered astute.

Whether they get away with it depends on their ability to go without or take their business elsewhere. Likewise, if the supplier doesn’t need their business, they get shown the door.

The only thing ‘science based’ about it is

psychological — finding the equilibrium in that see-saw of power between buyers and sellers.

So it was surprising to see the leadership in Canada’s canola industry beating the “science-based” drum in the ongoing dispute over the amount of dockage (weed seeds and miscellaneous plant material) China will accept.

Chinese officials cite the risk of importing a crop disease common in Canadian canola fields called blackleg in dockage, something Canadian officials dispute. Trade observers suggest the Chinese are simply driving a harder bargain because they have lots of supply right now.

Either may or may not be so, but it doesn’t much matter.

The fact is, this is Canada’s biggest export customer for canola seed, the one that buys 40 per cent of what gets sold offshore. It’s special.

Despite the blustering from the canola sector, Canada has the technology to comply. The Canadian Grain Commission, which ensures exports meet standards, measures dockage in increments of 0.1 per cent.

Several exporters had already started making sales under the new terms before Chinese authorities were convinced by Prime Minister Justin Trudeau to postpone the Sept. 1 deadline.

Sure it’s costly. Instead of getting 97.5 per cent of the canola it’s paying for, this customer is essentially saying it wants to get 99 per cent. That comes out of somebody’s pocket. It either gets absorbed by the seller or collected from the buyer.

Canola growers are justifiably concerned

any additional cleaning costs will be passed back to them, even though the grain handlers also capture value from that dockage by selling it as livestock feed or using it to “top up” export shipments.

The biggest fear within the canola trade appears to be that other customers will embrace China’s shrewdness, which they say will undermine Canada’s competitiveness as an exporter. “Accepting costs without scientific justification today tells others we’ll accept it in the future,” says the letter from canola grower groups to farm newspapers.

But dragging the prime minister into what is essentially a contract dispute over how much junk we can export disguised as grain damages the industry’s credibility and is counterproductive to this country’s broader trade agenda.

Frankly, the bigger risk to Canada’s export competitiveness will be its unwillingness to adjust to customer demands. Canada considers itself a world-class agricultural exporter and yet it acts as though customers owe it their business.

Canadians may have discovered canola, but other regions have discovered how to grow it — and they too have their sights set on Asia. Australia, which is a lot closer to Asian markets than the Canadian Prairies, is setting itself up to be a “boutique” supplier with both quality and customized service.

This country may have to clean up its act if it hopes to hold on to its dominance in export canola trade.

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BY ALAN GUEBERT
FARM AND FOOD FILE

As the food industry continues to consolidate into fewer, bigger players, the price risk it once hedged in Chicago and New York futures markets is being pushed back onto the very farmers and ranchers it buys from.

The reason is simple: the Big Boys have the market power to do it.

After decades of Big Ag’s talk about how farmers and ranchers needed to become part of an industrial “supply chain,” so many are, in fact, now linked to that chain that local and regional cash markets — where sellers and buyers meet to establish prices — are becoming extinct.

That’s the problem with chained producers: there just isn’t enough unchained production left to ensure transparent markets.

The *Wall Street Journal* highlighted this change in a story last month titled “Welcome to the ‘Meat Casino!’ The Cattle Futures Market Descends Into Chaos.” The key problem, it explained, is that the “trading of physical cattle has become so scant that the futures market can’t get the signals it needs to set prices.”

American cowboys aren’t the only ones to see their markets shot out from under them. On Aug. 29, the *Journal* published another eulogy of sorts for orange juice futures, the decades-long poster child for the high-risk world of commodity futures trading.

The futures market is fading into the past

Supply chain integration is making reliable and transparent price discovery all but impossible

Today’s thin OJ trading — it’s down by more than two-thirds since 1997 — means that there “are too few (trades) to be of much use to producers or buyers hoping to hedge their exposure” in the market, noted the article.

The same goes for Chicago’s famous pork belly futures. As Big Meat extended its reach all the way down to the farm through either direct ownership or contract production, meat packers stopped trading pork belly futures. They stopped because they didn’t need to; they already owned the contracted hog and its price was locked in at birth. Belly futures died shortly thereafter, in July 2011.

A similar change has been underway in the cattle market for more than a decade. In 2005, explained the *Journal*, about 60 per cent of all cattle sold in the U.S. were sold in cash markets. The remainder was sold through either forward contracts, “formula” prices (with a cash price as the basis of the “formula”) or a “negotiated grid price.”

Today, cash markets are less than 25 per cent of all sales while formula-priced cattle are now more than 50 per cent. The other two sales mechanisms, grid and forward contracts, haven’t grown as much as formula pricing but continue to be used.

That means over 75 per cent of all U.S. cattle sales are now made outside any observable “cash” market.

That also means that hardly anyone in the marketplace — excluding the big

meat packers who developed and use the “formula,” grid, and forward contracting methods — has any idea what the value of any animal is because there’s no cash market big enough anywhere on any day of any week for anyone to find out.

So how do cattlemen know what’s a fair price when they sell cattle?

“We call the one or two packers in our region, and we take what they give us,” a South Dakota cattle-feeding friend told me recently. “Then we start crying.”

What else can they do? With no working cash markets anywhere, there can be no workable futures contracts elsewhere. Thus the CME Group Inc.’s (the former Chicago Mercantile Exchange) likely exit from the cattle futures business. It’s just too risky — too “thin” — without any cash market underpinning it for even the wildest speculator to trade it.

That departure, however, virtually guarantees that independent cattlemen will be even more at the mercy of Big Meat. How, after all, can the big meat packers determine what to pay for their formula-, contract- and grid-purchased cattle if there’s neither a cash nor futures market to set the price?

Oh, says my South Dakota friend, “They’ll do what they’ve been doing for the last couple of years; they’ll just make it up.”

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OPINION



Why I keep a pair of little yellow wellies on my desk

The small rubber boots are the symbol of a U.K. safety campaign and a reminder we need to do more to keep our children safe on the farm

BY BRENDA SCHOEPP
AF COLUMNIST

There is a pair of little yellow rubber boots — or wellies as they are called in other countries — sitting on my desk. They are a gift from fellow scholar James Chapman, who is studying and speaking out about farm safety around the world. James lost his arm in a farm accident. The idea of giving folks little yellow wellies as a gift is to remind them to ask the question: Who will fill your boots?

Yellow wellies are worn by boys and girls, men and women on farms globally. The empty boots are part of the farm safety promotion of www.yellowwellies.org, which is the U.K. voice for farm safety.

As it is now harvest and we once again remember those whose lives have been impacted by a farming accident, it is a good time to Sit down and Talk about Operating Procedures (STOP) on your farm, especially in terms of where children should or should not be. Everyone loves the farm, but many are now large industrial sites with equipment that children should not be riding in, climbing on, or playing around. And on ranches and feed yards, there are so many animals that they could easily be lost or crushed.

I recall when I managed our feed yard that my young children often hung around on the fence in an enclosed area. One day I was

sorting out a pen of 500 head when I noticed my daughter was missing from the safety of that area. I could not see her or hear her and then — among the 1,400-pound steers — I saw the tip of a stock whip weeding its way through the middle of the mob.

I will never forget my absolute sense of panic and how I was gripped with fear at that moment. Quietly I approached the area where she was walking — a little child not even up to the belly of those beasts — and was able to safely remove her from the danger. I have never forgiven myself for the error, never again allowed the children to watch unattended, and have thanked God repeatedly for protecting this tiny beautiful child in her little blue coat — and yellow wellies.

Although children love the farm, it is our responsibility to protect them and to say ‘no’ at times.

I recently spent a day with fellow Nuffield scholar Randall Wilksch as he travels the world asking: Why are there not more women in grain farming?

It is a good question as women are excellent farmers and equipment operators. The discussions have been varied, but one area that strikes me is that we must provide for girls and women operators a safe and nurturing environment. This was a key learning in my own study on women in agriculture. Women may not favour farming enterprises where their children are at risk.

Tractor rollovers take the lives of women

on the farm, and children are lost to rollovers, gunshot wounds (playing with guns when left alone), drowning, suffocation, and quad accidents.

David Sullivan is an agricultural safety specialist with Ag Safe in British Columbia. He knows the cost of quad rollovers to families on the farm and has developed an attachable quad bar to mitigate the rollover risk. It may save a life but there also should be other safety measures in place, such as the use of helmets.

When you walk into a farmhouse, there will be farming caps and cowboy hats littering the front hall. My question is: Where are the helmets?

When a little Alberta boy was bucked off his horse in a pen of cattle, the tearful father pointed to his helmet, cracked in half and held his son close. He was so grateful they had started young riders with helmets on their large farm. The same space allowed for other hats and caps in the house should be occupied by helmets so children think it is natural and ‘cool’ to put one on.

This year during its October convention, the Canadian Agricultural Safety Association will focus on keeping children safe on the farm with a focus on the prevention of injuries in young adults and children. Why? Because in eight out of 10 times, Canadian children are fatally injured on the farm by someone else and 10 per cent of the time these children are visitors. Who is responsible?

Most certainly children can be briefed and taught what not to do — and still in a moment of fun, excitement or panic be hurt. They are quick and fearless individuals who need our constant supervision or guidance.

There is a fine line on farms between teaching skills and farm labour and they should not be exposed to danger for the farm. Kindly remember that at the end of the work day — when the harvest haze hangs over the golden fields and the animals are tucked to bed — all that matters is that each seat around the table is filled and that there are wiggling feet for all the boots in the front hall, Mom and Dad included.

When we were expecting our first grandchild, I bought a tiny pair of yellow wellies. They stayed on my shelf until she was old enough to walk. They served as a reminder to slow down and to keep her safe, to pray for her health, and never assume that a little child would not walk into the path of danger.

As those boots pass from sister to sister, the sight of them still takes me back to the moment when I realized my daughter was missing. I could have prevented that. And most certainly had she been lost, those little yellow wellies would have echoed in their emptiness... forever.

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 2015



Canadian biofuels aren’t a ‘blunder,’ they’re a success story

Well-designed renewable fuel policies can be good for the environment, the economy, and agricultural producers

BY STEVE PRATTE,
POLICY MANAGER

CANADIAN CANOLA GROWERS ASSOCIATION

In an opinion piece published in the last edition of this paper (*Biofuels are one of our greatest environmental blunders*), Gwyn Morgan questions the benefits of biofuels like ethanol and biodiesel. Mr. Morgan would have it that biofuels are a “blunder.” In our opinion, biofuels are a home run for the environment and the rural economy.

Canadian biofuels, and specifically canola biodiesel, are a success story. Biofuel policies have the potential to bring real benefits to the environment, economy and to Canadian agricultural producers who grow the feedstocks.

In Canada, approximately 24 per cent of total GHG emissions come from the transportation sector. It is important that our government takes action to get these emissions under control in a way that benefits our economy as well as our environment. The Canadian government is focused on reducing

emissions in the transport sector, and we support strong renewable fuels policies and programs to ensure that transport emissions are addressed via domestically produced low carbon renewable fuels.

Let’s be clear: The use of fossil diesel fuel for heavy-duty on- and off-road uses will not be completely displaced in the near future; diesel will continue to be the majority fuel for transport (trucking and rail); and heavy machinery (agriculture, mining, forestry, etc.). Adding biofuels to the fuels we use every day is a way to extend these finite fossil fuel supplies and tackle emissions at the same time.

In the case of biodiesel made from canola and other domestic feedstocks, most of the points of contention raised by Mr. Morgan simply do not hold water. Certainly there are areas which can be improved. However, compared with other regions of the world, biofuels produced in Canada are an example of ‘getting it right.’

Biodiesel emission reductions are calculated using a world-class

life cycle emissions tool called GHGenius. Canola biodiesel reduces emissions by more than 90 per cent compared with petroleum diesel. The benefits of biodiesel go beyond greenhouse gas emission reductions — including 50 per cent less poisonous carbon monoxide, 95 per cent less unburned hydrocarbons, and 30 per cent less smog-producing particulates.

Canadian-produced biofuels are responsible biofuels. Canadian agriculture prides itself on its global leadership in sustainability. Canadian farmers are producing greater yields, with less inputs, on the same number of acres. This has positive implications for both environmental stewardship and farm profitability.

Canadian canola meets the stringent sustainability requirements of the European Union’s Renewable Energy Directive, a system that considers both carbon and non-carbon sustainability metrics.

The ‘food-versus-fuel’ debate that peaked during the 2008 commodity price bubble is now largely a moot point. More grain is available for food and feed use

worldwide today than at any time in history.

We do agree with Mr. Morgan that some biofuels are better than others. His characterization of the negative implications of the use of unsustainable palm oil in biodiesel production is correct. Significant amounts of rainforest deforestation and natural habitat loss, marginal emission reductions, and no net benefit to the Canadian economy are all tangible issues associated with the use of palm-based biofuels to comply with Canadian renewable fuel regulations.

These issues can be addressed through strengthened renewable fuel policies in Canada.

Canola growers and domestic biofuel producers (via Advanced Biofuels Canada) advocate for simple and effective modifications to renewable fuel policies in Canada. We support increasing the inclusion rates of renewable fuels in diesel fuels (from two per cent to five per cent); implementing a carbon performance requirement of at least 50 per cent GHG reductions requirement (com-

pared with fossil diesel) using the GHGenius model; and requiring supply chain accountability for biofuels that makes sure they are made from truly ‘renewable biomass’ (using the same definitions created by the Environmental Protection Agency in the U.S.).

Effective biofuel policies can create a vibrant and competitive renewable fuels value chain in Canada, with benefits for domestic feedstock producers, processors, and other participants in the industry. Biofuels have helped, and will continue to help, Canada achieve its broader environmental, social, and economic goals.

The Canadian government is now considering what else can be done to reduce emissions from the transport sector. We support tackling emissions by strengthening the renewable fuel policies and programs in place.

Canadian renewable fuels are far from a blunder, they’re a home run!

Steve Pratte is a policy manager with Canadian Canola Growers Association.

DOWNGRADED ▶ from page 1

It's the same story for wheat, with hopes for a high-protein, high-quality crop washed away. Guelly is now hoping his canola, which fared OK despite some lodging, will pull him through what could be a tough marketing year.

"That's one good thing about canola — weather doesn't typically affect your grade so much at this time of year."

Discounts widening

Selling a glut of lower-quality grain is going to be "a little bit of a grind" for farmers this fall and winter, said FarmLink's senior market analyst Jonathon Driedger.

"You go into the growing season with expectations that it will be 'normal,' so when you get into a year like this where quality is very variable, that can really throw a wrench into the plans from a marketing perspective," said Driedger.

"When you have quality issues on a potentially widespread scale, like what we're looking at this year, it's a little more challenging to find a home for the off-grade grain when there's a lot of it. It typically moves a little slower, buyers have more challenges handling it, and the whole thing really becomes a lot more cumbersome for growers."

And for many growers, that could mean heavy discounts when it comes time to market their downgraded crop.

"If someone forward sold a No. 1 durum or No. 1 wheat and they end up growing a No. 3, depending on the grade discounts at the time, it can be really, really painful for growers," said Driedger. "Typically in a year where there's a lot of quality issues, those discounts only widen."

The markets are starting to show



"We've never seen this before. This has got to be a one-in-50-year rain event at this time of the year."

JOHN GUELLY



The view from John Guelly's swather on Aug. 31 is a scary sight — standing water in his canola crop left over from a late-season rain storm on Aug. 22. PHOTOS: SUPPLIED



The flooding on John Guelly's land near Westlock may have receded, but the damage to his crops is done.

some of that already, said Neil Blue, crop market analyst with Alberta Agriculture and Forestry.

"I've noticed that the price for malting barley has increased a bit in the last couple of weeks, and I believe that relates to the concerns about the possible downgrading of some of the malt crops out there," Blue said in an interview Aug. 29.

The protein spreads on high-quality milling wheat have also increased, Blue added.

"They were down to about one cent per one-tenth of a point of protein, and now they're three cents for every one-tenth of a point of protein," he said. "That could also relate to concerns about wheat protein levels being relatively low this year compared to last year when we had a fairly high-protein wheat crop."

But on the other hand, producers who manage to get a good crop off could see decent premiums at the elevator despite "sluggish" prices, said Driedger.

"In a year when quality grain is

relatively short, that should help for farmers who were able to harvest better quality," he said. "It should be easier getting movement opportunities. You maybe get a little more negotiating power at the elevator if quality is in shorter supply."

Sell now or wait for spikes?

So should producers who get a good crop off strike while the iron is hot, or wait and hope premiums continue their climb?

That depends, said Driedger.

"I'd be reluctant to say across the board, 'Hang on to it for dear life,' or, 'Blow it out.' It's really going to vary from one farm to the next and one crop to the next," he said.

Premiums do tend to improve as the year goes on when quality grain is short, he said, but "there might be some great opportunities in the shorter term, too."

"You may, for example, have elevators that aren't able to source the quality that they want in their backyard, have commitments to meet,

and trains showing up," he said. "It might be possible that there are some opportunities in the shorter term as well."

Producers also need to consider their cash flow when deciding whether to off-load their high-quality grain, Blue added.

"It depends on what they have for cash flow needs and what their ideas are about the individual crops that they have to market," he said. "It might be a good idea to hold on to at least some of that higher-quality crop, if not all of it, and see what the market does."

Producers will need to stay "dialled in to what's going on with those premiums and gradespreads" if they want to take advantage of price spikes, added Driedger.

"Make sure that you're aware of what various buyers in your normal marketing range are paying, and maybe expand the scope of buyers you might ordinarily talk to," he said. "Often in a year where there's more lower-quality grain, you do see

premiums and discounts widen, but they can also be really variable from one buyer to the next."

Blue agrees.

"I think the most important thing is to shop around widely for outlets for that grain," he said.

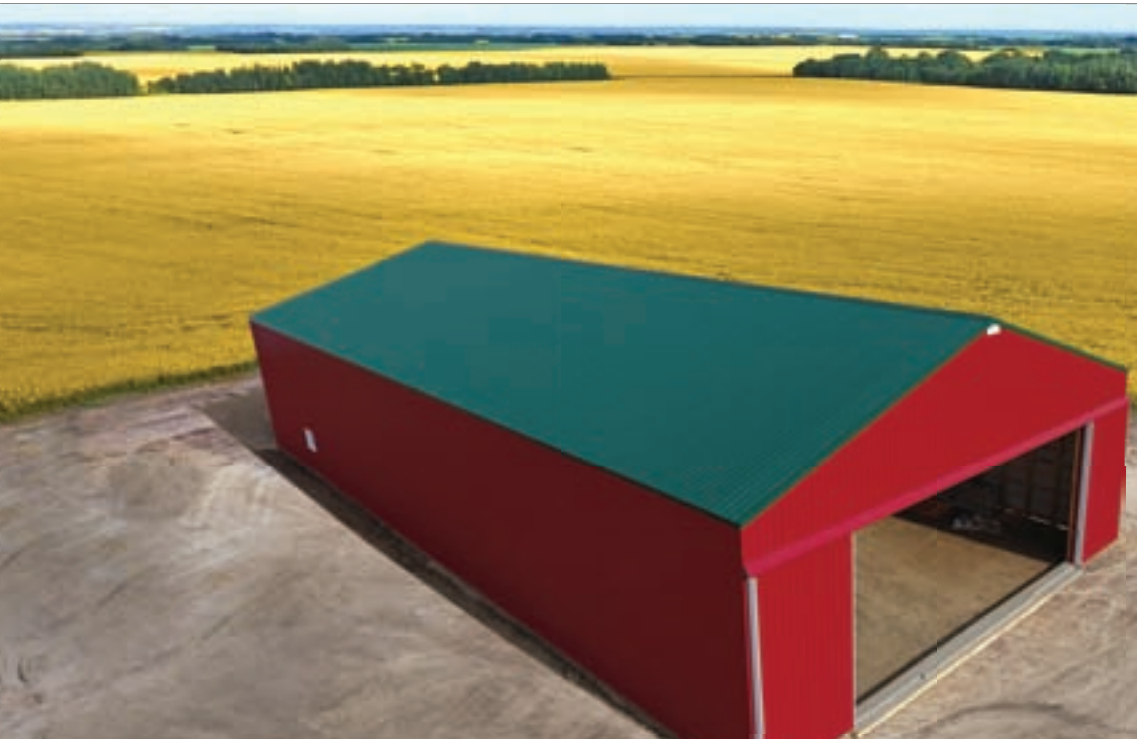
"That amounts to probably quite a bit of phone call work, but if one buyer doesn't want that grain, perhaps there's another buyer out there who has a slightly different use for it."

"There are markets out there for poorer-quality grain, and I think it's important that producers take the time to shop widely for outlets for their grain."

Farmers should always shop their grain around, said Driedger — but that's even more important in a year when quality is variable.

"It's a lot more work and a lot harder work marketing in a year like this, but in a lot of cases, that extra effort can pay off."

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70 YEARS
in construction

Get the grade and make more money when marketing your grain

The Canadian Grain Commission will grade samples for free – with even the postage paid for

BY JENNIFER BLAIR
AF STAFF

Now exactly what’s in your bins before selling your grain.

“One of the things that we can’t emphasize strongly enough is that farmers really should be getting good independent third-party samples of their grain,” said Jonathon Driedger, senior market analyst with FarmLink.

“Then you know exactly what you have. You have a sample sheet that you can shop around to other buyers. And that allows you to shop it around on a more widespread basis.”

Understanding your actual grade and having that third-party opinion could help you take advantage of opportunities to sell your grain as they pop up, said Driedger.

“Movement opportunities can often pry themselves open, but often they’re fleeting and get filled quickly,” he said. “So if you don’t have that sample graded and in front of you in that moment, often the opportunity passes if you’re not in a position to act quickly.”

And the harvest sample program can provide that grade at no cost, added Bill Adduono, operations supervisor for the Canadian Grain Commission.

“That program is free — you can go on to our website and sign up electronically and there’s a number you can also call,” he said. “They mail out the kit, and sending the samples back in the envelopes is postage paid.”

(For more info on this program and how to get a representative sample, go to www.grainscanada.gc.ca and click the ‘Protection for grain producers’ pull-down menu.)

Adduono also said knowing the grade can make a big difference when selling.

“The program has only tested 18 samples of red spring wheat, and 12 of the 18 graded No. 2. In other years, I would think 12 out of the 18 samples would grade No. 1.”

With that dip in quality, marketing could be “a lot more work” this year, but producers can make it a bit easier by having their grade handy, said Driedger.

“It’s going to be a challenging year for a lot of growers with the quality that they have, and there’s not much you can do about it,” he said. “At the end of the day, you need to shop around extensively, have good samples, and be realistic about the quality that you have.”

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“Movement opportunities can often pry themselves open, but often they’re fleeting and get filled quickly.”

JONATHON
DRIEDGER



BRIEF

Two Albertans win \$10,000 Keith Gilmore Prize

Rae-Leigh Pederzoli from Medicine Hat and Nicky Lansink from Three Hills have been awarded the Keith Gilmore Prize for Beef Cattle Innovation.

The \$10,000 prize is awarded to students who are recognized for academic excellence, leadership, and pursuing a career to improve, support, and promote the beef cattle industry. To be eligible, a student must be enrolled as a senior undergraduate (entering the final year) or in veterinary, or postgraduate studies.

The foundation also gives out \$2,500 Hereford Youth Scholarship and \$1,000 ‘Future of the Breed’ scholarships. For information on applying for a prize or scholarship, see www.keithgilmorefoundation.com. — Staff

“That program is free — you can go on to our website and sign up electronically and there’s a number you can also call,” he said.



“When they approach an elevator, they have that knowledge, and if they’re making bulk deals, they can pencil it out and know that they’re getting that value when they deliver all their grain.”

Producers can also use the harvest sample program to get a second opinion if they think their grade is lower than normal — a likely occurrence in a year like this one where grain quality so far this harvest seems to be down.

“The few samples that have come in here have been degraded for mildew or have mildew present, and that’s reflective of how much rain we’ve had,” Adduono said in a late-August interview.

TIME TO GO

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ENTREPRENEURS ▶ from page 1

“Because women are integral parts of diversification on farms and integral parts of the farms themselves, we wanted to see, if there are some barriers out there, what are they and what can we do to address them to build capacity within the agriculture and agri-food industry,” said Broughton.

The Ag and Food Council conducted online surveys, interviews, and focus groups across the province to see if there were any common challenges that women agri-food entrepreneurs encounter, said Broughton.

“We had over 200 conversations, and from all that data that we collected, we’re developing a pilot program to address those barriers that were identified and deliver it using various formats to try and help accommodate some of the barriers that were identified,” she said.

Stretched thin

Respondents said time management is their No. 1 challenge.

“Women are in unique roles where we tend to wear many different hats,” said Broughton.

That’s certainly true for Nancy

Nolan, who manages a 350-head flock with her husband and also markets their meat to restaurants, grocery stores, and direct to consumers.

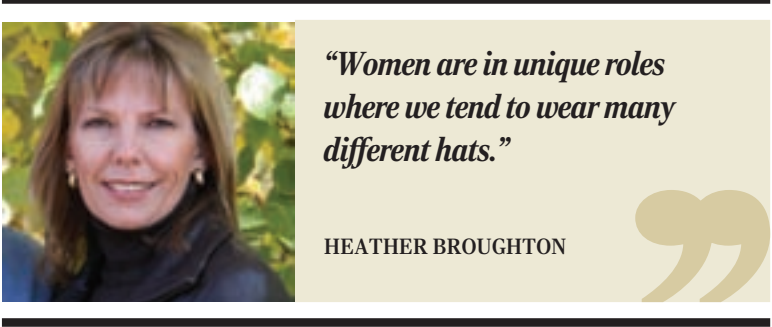
“We’ve got two young kids, so trying to balance our time between the farming operation and them is hard,” said the co-owner of Lamb-tastic Farms near Vulcan.

“At lambing time, I’m in the barn at 4 a.m., and then up again at 7 to get the kids dressed, and then back in the barn. This year, my two-year-old was absolutely scared of the sheep, so trying to manage him in the barn when he cries every time a sheep is around got pretty interesting.”

On Good’s farm, the chores and childcare “run pretty equal,” but the time requirements are “somewhat different” for her and her husband.

“My husband has lots to do on the farm, and he takes the lead on everything there,” said Good, who is also the executive director of a land trust in Mountain View County.

“But at the same time, we moms generally take care of the scheduling and do most of the filling in.”



“Women are in unique roles where we tend to wear many different hats.”

HEATHER BROUGHTON

Industry conferences and workshops tend to have more men than women in attendance, she said, adding that that may be because “things still need to happen at home.”

“The cows still need to be fed and the kids still need to get on the bus,” she said. “That just happens to be the way a lot of us gender split, but it does present a challenge if a woman wants to do a little bit more of her own agri-entrepreneurial thing.”

Many conferences also require travel into larger centres like Edmonton or Calgary, said Broughton, and that can pose a challenge for women who need to find childcare or who work off-farm jobs.

“Say they were two hours away from Edmonton, which is still a reasonable drive if you want to take in a conference that starts at 9,” she said. “But they still have to get up, get their kids off to a babysitter, and get organized. It’s not just a two-hour drive.”

By and large, the women who were surveyed want to get more involved, particularly in policy discussions and decision-making, but their time is limited, Broughton added.

“Women are very interested in participating, but they do find it a challenge time-wise because they are trying to build their businesses and concentrate on them,” she said.

“They’re also not 100 per cent confident in their skills in terms of contributing to a board.”

‘So many unknowns’

In many ways, the women surveyed also felt they lacked the knowledge to “make better decisions,” said Broughton.

“They felt they just weren’t as prepared as they could be in terms of basic accounting principles and understanding financial statements,” she said.

As a result, women agri-entrepreneurs need better access to information and information sharing, added Broughton.

“If I’m wanting to start a food-processing operation, the information is all out there, but it’s sometimes difficult to find what you’re looking for,” she said. “And because we’re in rural Alberta, sometimes it is harder to get out and network with other people who are doing something similar to what you’re doing.”

Nolan agrees.

“There’s so many unknowns that when you’re first starting out, you don’t necessarily know all the challenges that might be ahead of you,” she said.

“There’s lots of information out there, but it’s hard to find it — especially when you’re just starting out.”

And she’s hoping that the Success for Women in Ag program will make it a little easier to find some of that information and build connections with women who are facing the same challenges.

“When your business has an issue or something that needs to be resolved, the program is going to allow you to find those experts and resources,” she said. “It’s going to be a supportive environment where we can build our confidence and build our capacity.”

Pilot program

The pilot program, which is set to launch January 2017, was designed to build that capacity through skill development workshops hosted in smaller rural communities to “accommodate some of the issues that limit people’s ability to participate,” said Broughton.

“We’re trying to build the skills, build the confidence, build the networking using different formats — both face to face and virtual methods — while providing a platform for some mentorship and business coaching,” said Broughton.

The program will kick off on Nov. 19 with a series of events held simultaneously across the province, in Fairview, Vermilion, Parkland County, Olds, and Lethbridge.

“On that day, we’re going to have virtual presenters, in-person presenters, and women ag entrepreneurs who we will profile,” said Broughton. “We’re going to provide an opportunity to network, both within that group and with those across the province that day. It’s basically a debut for the pilot program that’s to come in January.”

Many of the topics covered will be applicable to both men and women, said Broughton, but “women have unique skills and characteristics” that require a unique set of programs and supports.

“Through this project, we’ve identified that we can build on some of those unique things that women can contribute, and we want to give them the opportunity to do so,” she said.

“If we can help facilitate their ability to build their capacity in their business, that’s what we’re going to do.”

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Deadly cattle condition called fog fever returns to the Prairies

Cases of fog fever, a type of pneumonia that causes severe cattle mortality, have been recently diagnosed in Alberta



When moving cattle from mature pastures into lush green ones, only give them access to a small portion so they don't come down with fog fever, says Dr. Nathan Erickson. PHOTO: CHRISTINA WEESE/FOXTAILSTUDIO.NET

BY ALEXIS KIENLEN
AF STAFF

Fog fever — a condition that causes cattle to suddenly drop dead — has returned to Alberta and Saskatchewan.

“Fog fever isn't extremely common” said Nathan Erickson, a veterinarian and assistant professor at the University of Saskatchewan. “Some of these old diseases, we start forgetting about them because we've managed our way out of them. Then we take for granted some of our management and we slip back into old habits.”

Fog fever, also known as acute bovine pulmonary edema and emphysema, typically affects mature cattle. This type of pneumonia usually appears when animals are moved from a drier, more mature pasture to a lush, fast-growing pasture.

Fog fever will flare up about four days to a week or so after cattle are turned onto lush pasture. Unfortunately, it's rare to catch clinical signs of the condition, although a few cases have been confirmed this summer.

“We generally just see a few animals that are suddenly dead,” said Erickson. “If you do happen to catch it early, you might see an animal going down, rapidly breathing, head extended, (and) really working to try to get air into their lungs.”

That's because the animal's lungs are fill-

ing with fluid. Desperate for breath, cattle will stretch their heads and legs out, trying to increase their lung capacity. Other symptoms include grunting and laboured breathing, with obvious signs of distress.

The condition is usually seen in fall when animals are turned onto a cereal crop or a field that was going to be used for a second cut of alfalfa.

“The key is that it has to be green and lush,” said Erickson. “Once they start eating it, there's a chemical in the plant called tryptophan that gets converted in the rumen to another chemical compound called 3-methylindole.”

Once 3-methylindole gets into the bloodstream, it causes fluid to get into the lungs.

“That's when we get interstitial pneumonia and it is quite rapid,” said Erickson.

Any producer who sees these symptoms should contact their veterinarian immediately. However, treatment is rarely successful, and in severe cases, the animals usually die. Any producer who finds dead animals in a pasture should contact a veterinarian for a necropsy.

“Really, it's about prevention. If you are in the middle of an outbreak, it's about stopping any more cases from happening,” said Erickson.

Little is known about the condition, and it can occur in both wet and dry years.

The only thing producers can do to prevent it from occurring is to exercise caution

“Really, it's about prevention. If you are in the middle of an outbreak, it's about stopping any more cases from happening.”

NATHAN ERICKSON

when moving animals from a dry pasture onto a lush one. They should be introduced to smaller sections using an electric fence, and transitioned slowly onto the new pasture.

“Eventually over time, you can give them more and more access. It's just a transitional thing for them to go through.”

If a producer spots any animals who are having trouble breathing, they should handle them gently and move them slowly because the stress of handling can cause death.

“Let them walk as slowly as they want to walk,” said Erickson.

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REMEMBER WHEN RUSSIA WAS A WHEAT BUYER?

Russia is muscling in on the markets of its European and North American competitors as it overtakes the European Union to become the world’s biggest wheat exporter for the first time. Russia is expecting a record crop in the 2016-17 marketing season while EU harvests are poor. That means traders will be negotiating to ship Russian wheat to countries that have seldom or never bought it before. “It is already clear that competition will be really severe this year,” a Moscow-based trader said. The arrival of Russian wheat in new markets could potentially cause problems for other big exporters, allowing customers to drive a harder bargain with North American, European and Australian suppliers. — Reuters

EXPERT TRADERS MISSED THE BOAT

Bunge and Cargill bungled soybean sales they made on behalf of U.S. farmers this year. A 37 per cent surge in U.S. soybean futures this spring caught many traders off guard. Large supplies were expected to keep prices low, but flooding in Argentina sparked heavy buying instead. Cargill and Bunge sold most of the soybeans they were trading on behalf of farmers at about \$9 a bushel, well below the rally’s peak near \$12 in June. “This year I can say honestly is the worst job they have done regarding soybeans,” said Brad Orr, an Illinois farmer who has used Cargill’s trading service for about seven years. “The bean market rallied \$3, and they didn’t capture any of it.” — Reuters

MARKETS



More questions than answers when it comes to China and canola dockage

Politics aside, expectations of a very large harvest are weighing down canola prices

BY PHIL FRANZ-WARKENTIN

ICE Futures Canada canola contracts managed to strengthen during the week ended Sept. 2, as news that China would delay imposing stricter dockage allowances gave the market a boost. However, harvest pressure and a big U.S. soybean crop should keep prices from climbing much more.

China is the largest customer for Canadian canola exports, and the country had been set to implement new rules on Sept. 1 that would lower the amount of dockage accepted in canola imports from 2.5 per cent to one per cent. That looming deadline had weighed on futures prices, but has now been postponed as the two countries are reportedly working on reaching a longer-term solution.

The deadline, coincidentally or not, happened to line up with a trade mission by Prime Minister Justin Trudeau to China. The Coles Notes version of international canola trade briefly made it to the mainstream news and the last-minute deal to delay the dockage restrictions was heralded as a “win” for Canada.

However, there are still more questions than answers when it comes to this situation. On the China side, was there really any concern about blackleg, as claimed, or was this whole thing more a matter of lowering prices?

For Canada’s part, how hard is it really to reach one per cent? Many farmers claim that they are already delivering canola well below the 2.5 per cent cut-off, with grain companies then allegedly mixing in whatever cheap grain they have laying around to boost their profits.

A 50,000-tonne canola shipment with 2.5 per cent dockage works out to 1,250 tonnes of “not canola,” or about half a million dollars.

Looking past China, the more pressing nearby focus is the harvest, as export demand is of little importance if there’s nothing to sell. Delays are a given at this time of year, and may prop up prices on a short-term basis, but most industry participants remain of the opinion that there will be a very large Canadian canola crop in 2016-17.

The size of the U.S. soybean crop is even more bearish for oilseeds in general, and beans moved lower over the

course of the week ended Sept. 2. Some major nearby chart support levels were also breached, leaving the door open for additional losses, especially as the bulk of the U.S. soybean harvest is still to come.

Big crop prospects and great growing weather were also the story of the week in corn, with prices hitting fresh contract lows. However, ideas that the market is looking oversold, along with end-user bargain hunting, may limit further losses there.

U.S. wheat prices dropped to some of

their lowest levels in 10 years during the week, with ample world supplies and a rising U.S. dollar weighing on prices. However, just as in corn, a nearby floor may have been reached and values were starting to show some stability as traders squared up positions ahead of the long weekend.

Phil Franz-Warkentin writes for Commodity News Service Canada, a Winnipeg company specializing in grain and commodity market reporting.

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

Prairie wheat bids steady overall after choppy week

Cash prices mirrored the action in Chicago and Minneapolis

BY PHIL FRANZ-WARKENTIN
CNS CANADA

Spring wheat cash bids across Western Canada moved down at one point during the week ended Sept. 2, but clawed back toward unchanged as the week progressed, to finish slightly ahead of where they were seven days earlier as the markets mirrored activity in the U.S. futures.

Depending on the location, average Canada Western Red Spring (CWRS) wheat prices were up \$1 to down \$1 per tonne compared to the previous week, according to price quotes from a cross-section of delivery points across the Prairie provinces compiled by PDQ (Price and Data Quotes). Average prices ranged from about \$199 per tonne in Saskatchewan’s southeast to as high as \$211 in southern parts of Alberta.

Quoted basis levels varied from location to location, but held



PHOTO: THINKSTOCK

reasonably steady to range from about \$18 to \$30 per tonne above the futures when using the grain company methodology of quoting the basis as the difference

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

When accounting for currency exchange rates by adjusting

Average CWRS wheat prices were up \$1 to down \$1 per tonne compared to the previous week.

Canadian prices to U.S. dollars, CWRS bids ranged from US\$153 to US\$162 per tonne. That would put the currency-adjusted basis levels at about US\$18 to US\$27 below the futures.

Looking at it the other way around, if the Minneapolis futures are converted to Canadian dollars, CWRS basis levels across Western Canada range from \$23 to \$35 below the futures.

Bids for Canada Prairie Spring Red (CPSR) wheat reported by PDQ were also relatively unchanged

compared to the previous week. Average CPSR prices came in at about \$156-\$169 per tonne in Saskatchewan and Alberta.

Average durum prices were steady to slightly higher, with bids in Saskatchewan coming in at about \$245 per tonne.

The December spring wheat contract in Minneapolis, off of which most CWRS contracts in Canada are based, was quoted Sept. 2 at US\$4.915 per bushel, down about 1.25 U.S. cents per bushel from the previous week.

Kansas City hard red winter wheat futures, traded in Chicago, are more closely linked to CPSR in Canada. The December K.C. wheat contract was quoted at US\$4.1325 per bushel on Sept. 2, down about 3.5 U.S. cents compared to the previous week.

The December Chicago Board of Trade soft wheat contract settled Sept. 2 at US\$3.9925, down by about 8.24 U.S. cents on the week.

The Canadian dollar was trading Sept. 2 at 76.93 U.S. cents, steady compared to the previous week.



Island top in markets signals a downturn in lean hog futures

This rare pattern takes time to develop but is seen as a reliable indicator of a market top

BY DAVID DROZD
SR. MARKET ANALYST, AGCHIEVE

The nearby lean hog futures at the Chicago Mercantile Exchange have dropped nearly US\$30 per hundred-weight in the past two months. The recent low at US\$59.275 is a price not seen since early January 2016.

One of our responsibilities at AgChieve is to alert producers to impending downturns in the grain and livestock markets. Charting and technical analysis is what allows us to do this. In this column we are focusing on an interesting chart formation referred to as an “island top.”

The pattern itself is not very common and hence its reliability in signalling a downturn is considered good. As the name implies, there is a brief period of trading, which on a bar chart will stand apart from all the activity both preceding and following it.

The activity is isolated on a chart by virtue of gaps. A gap is a price range within which no trading takes place. Normally, price activity during a single trading session will overlap part of the preceding session's price range. When a gap is present, this does not occur. Either this

week's low price is higher than last week's high (an upside gap) or this week's high price is lower than last week's low (a downside gap). Both gaps are illustrated in the accompanying chart.

Island tops appear at the end of extensive price advances and in most cases signals the end of a bull move.

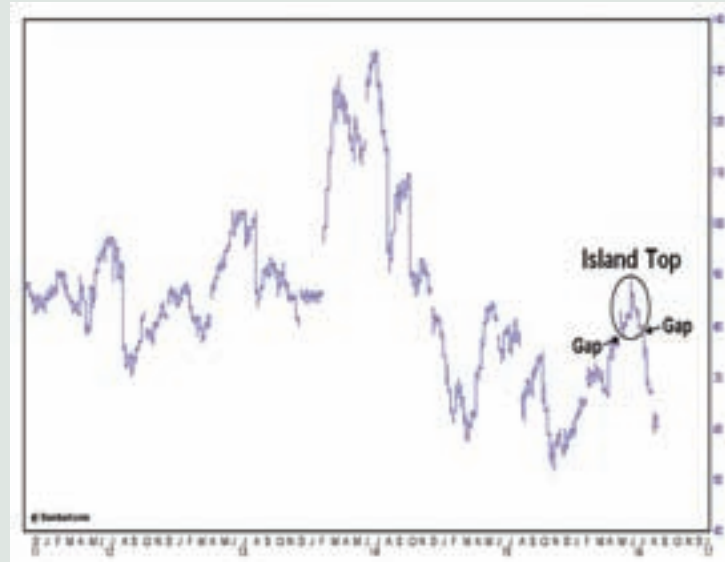
Market psychology

In the late stages of a bull market, opinion is weighted very heavily to the long side of the market. Weeks of beneficial price movement tempt the longs to expect still higher prices and many who would ordinarily consider taking profits simply hang on. They fear missing additional profits and are psychologically conditioned to expect higher prices.

At this juncture, emotion is driving the speculative buying, not any preconceived formulated strategy. Some buyers will pay any price to be long the market and speculative shorts are buying back their positions, which are constantly being replaced by new shorts. These include players who missed the big picture rise and as a result will only be content to sell short. As they look for the elusive top of the market they help provide more buying fuel. Here the emotion-inspired buying will often produce upside

CME LEAN HOG WEEKLY NEARBY

Chart as of August 23, 2016



price gaps, indicating an imbalance of buyers over sellers. The gaps also warn that the buying frenzy is about to reach a climax.

An island top requires more than one trading session to form. In this illustration, I am referencing a weekly chart, where the island top took nine sessions (weeks) to form. The island top begins to take shape when

a market gaps up in price. Significantly, no matter how much prices gyrate during this session (week), the opening gap will not be completely filled.

Trading volume will be high at the top. Over a number of sessions (weeks) the buying is exhausted as the increase in the supply of contracts for sale from a mix of professional, commer-

cial and longs looking to take profit is enough to satisfy the demand.

In the following session (week), the market opens weak. Now an imbalance of sellers over buyers produces a downside gap, which will remain unfilled at week's end, thus signalling the pattern's completion. This session's price retreat represents a radical departure from recent activity and generates nervousness on the part of longs.

Importantly, the market's sudden weakness cracks the armour of prevailing bullish psychology. Long liquidation pushes prices lower, in turn bringing in more selling. The cycle feeds on itself, thus ending the uptrend.

Livestock producers who anticipated the formation of the island top were able to lock in lean hog prices before the market turned down.

Send your questions or comments about this article and chart to info@agchieve.ca.

David Drozd is senior market analyst for Winnipeg-based Ag-Chieve Corporation. The opinions expressed are those of the writer and are solely intended to assist readers with a better understanding of technical analysis. Visit Ag-Chieve online at www.ag-chieve.ca for information about grain-marketing advisory services, or call us toll free at 1-888-274-3138 for a free consultation.

WHAT'S IN THE FIELD? PUT UP A SIGN AND LET PEOPLE KNOW.



This summer, Ag for Life's "What's in the Field?" campaign wants you to let travellers know what you're growing and raising. It's as simple as putting up one of our free signs – and it's a great way to help consumers see the diversity of Alberta agriculture.

Please take part. Sign up online to order your free field signs today.

<http://agricultureforlife.ca/whats-in-the-field/>

Ag for Life

CANADA BEEF WANTS TO HEAR FROM PRODUCERS

Canada Beef is looking for stories from producers that it can use in marketing beef. The organization has created an online survey that can be found at www.surveymonkey.com/r/ZS9PX9M. "This is your chance to explain how you are committed to do the best you can do to bring quality Canadian beef to the consumer's table," the organization said. Canada Beef bases its portrayal of producers on this statement: "Our community of ranchers and farmers tends to the cattle and land with values that we all hold dear: honesty, hard work, and resourcefulness. We base our practices on facts and what is proven." The survey, which takes 10 to 15 minutes to complete, closes Oct. 30. — Staff

THE ECONOMICS OF PREGNANCY TESTING

The Beef Cattle Research Council is hosting a webinar on the economics of preg checking on Sept. 15 at 7 p.m. The webinar will also look at whether it is more profitable for your operation to cull cows in the fall or spring. The speakers will be Brenna Grant (manager at Canfax Research Services), Dr. Jessica Gordon (assistant professor at the Ontario Veterinary College), and Reynold Bergen (BCRC science director). To register and to download a receiver, go to www.beef-research.ca, click on the Blog pull-down menu, and follow the links. The receiver takes several minutes to download, and watching the webinar on high-speed Internet is recommended. — BCRC

LIVESTOCK

Don't leave money on the table, says marketing expert

Boosting production with good management is great, but catching an uptick in the market can make you more money

BY JILL BURKHARDT
AF CONTRIBUTOR

Beef producers, if you don't have a marketing plan — get one.

That's the simple advice from Ryan Copithorne, who founded Cows In Control after his realizing "a proper marketing program was actually the best way to keep a year's or a lifetime's worth of hard work from going down the drain."

Having previously managed his family's ranch at Jumping Pound and worked as a cattle director for a multi-ranch operation with 8,500 head, Copithorne set up his marketing business in 2014.

"You can buy the right bulls, you can have a management plan on your grass — do everything right you might add 50 pounds to your calves," said Copithorne, who also has a 1,200-head herd near his family's historic ranch.

"If you add all those dollars up it doesn't even come close to what you make or lose in the simple fluctuations in the market."

Timing is everything when it comes to marketing, but it may not be what you might think it is.

First, you can still sell at the usual time of year, but, with a marketing plan, you have a whole year to set pricing for those cattle, he said.

And you don't have to constantly watch the market, but you do have to know your cost of production.



Gerald Vandervalk watches both the cattle and currency markets and locks in when he's happy with the price he'll receive. PHOTO: COURTESY GERALD VANDERVALK

"Having a break-even is critical," said Copithorne. "Once you know your break-evens, you want to see if you are profitable. If you are profitable, lock it in. If not, then you look for opportunities to lock it in (at a profit)."

Knowing your buyers is the second key thing.

"You need to understand what you are producing. Don't try to sell lean product to someone looking for marbling, for example."

Third, have a schedule — know when you would like to lock in a price and when you are going to sell. That approach has proved profitable for Gerald Vandervalk.

"Traditionally, we have always finished our animals," said the Claresholm-area rancher. "The routine is we background our calves over winter, pick our replacement heifers, everything we didn't keep went to the Waldron Grazing Co-Op,

and then in the fall we would retain ownership and have them custom feed. That was working for quite a while because the market didn't move that much.

"One year the market was going down, and when that is your main cheque for the year it makes things tough. We decided we needed to do things differently at that point."

Vandervalk still finishes his animals in a custom feedlot, but now works with the feedlot and a marketing expert.

"We have contracts for animals to go south (to the U.S.) in March. We have the whole year to lock our contracts in," he said.

"Right now I'm looking at whether the price is going up or down. The thought is we are going to lock our contracts now so we can lock the price."

"But also since they are going south we can lock the dollar in, too.

We have two variables — the price of cattle and the dollar — and when we are comfortable we can lock it in."

There's still risk, but it's one Vandervalk is comfortable with.

"If you lock in the price when you are happy, you know what your costs are — it takes the variable out," he said. "We think we have good animals so that's why we retain ownership to the end. If they are good, you should be able to make money all the way through."

The sale process

Once you have a marketing plan, you need to execute it and the best route may be to skip the auction mart in order to save on commissions and fees, said Copithorne.

"There are times, like when the market was running up in 2014 and 2015, the best place to sell was the auction market," he said. "The market was jumping up to 10 cents a day, and it was the only thing that was current. The order buyers and everyone selling privately couldn't keep up to how fast the price was jumping."

But rather than loading up all your fat cattle in a liner destined for your local auction market, consider selling direct to a feedlot or via Internet.

"Shop around, use them all," said Copithorne. "They are all tools available to us. We have a lot of marketing channels in the beef industry, it's just a matter of picking and choosing what is best."

Vandervalk agrees.

Besides using contracts to sell his fat cattle, he deals with his local auction market to sell his open cows and, occasionally, bred cows. Having a good relationship with your auction market helps, he said.

"People in our area know our cattle, and we think we have good cattle, so the auction market helps us promote what we have."

Size doesn't matter when it comes to having a marketing plan, but with the average herd hovering around 65 animals, Copithorne suggests consolidating with other local producers with similar animals to make direct marketing a little easier.

Along with knowing your cost of production, Vandervalk recommends working with a marketer because that's their area of expertise.

"It's your income — your biggest cheque comes in one day," he said.

When it comes time to sell, "be flexible because sometimes the market is fairly strong in October and other years it's better in September," he added.

"You never know with the market." But one thing is certain — not having a plan means leaving money on the table, said Copithorne.

"Whether you have one animal or 10,000 head, it all comes down to timing," he said. "Last year there was a \$400-a-head loss in less than four months' time. That applies to everybody."

"I don't think people are focusing enough attention on (marketing). That's what I'm trying to do."

Here are three tools to reduce price risk

Insurance, hedging, and retained ownership can be intimidating to use, but the basic concepts are simple

BY JILL BURKHARDT
AF CONTRIBUTOR

Navigating through different components of marketing can make one feel as though they are speaking a foreign language.

Ryan Copithorne of Cows In Control marketing group talks about the pros and cons of common marketing tools.

WLPIP (Western Livestock Price Insurance Program)

"Price insurance is a good program," said Copithorne because it allows you to lock in a floor price and that price is guaranteed by the government. However, that floor price may be low or the premiums expensive.

"It's one tool in an arsenal of many. I find the price insurance a very safe way to guarantee a price and for those who don't want to try the more risky ways of hedging it's a good tool."

Retained ownership

In recent years, it's paid to sell calves early, but Copithorne expects to see an increase in retained ownership.

"We have cheap feed, low interest rates, and a cattle market that I think is bottoming out, so it might be some good profitability to hang on to your cattle."

Hedging locks in a final price and what a producer needs to ask, said Copithorne is, "Can I feed them cheaper to get them to that end point?"

Hedging

"People get intimidated by the word, 'hedging,' because there's lots of complication and fear," Copithorne said.

The key question is whether you can produce an animal for that price.

"If you can lock in an end price that gives you a profit, then you can rest easy until that day comes," he said. "Unless your cattle fall over dead or something, you are locked in."

But because hedging is complicated, he recommends getting professional help when starting out.



Retained ownership of your calves is one way to capture more money if you can feed them efficiently. PHOTO: GERALD VANDERVALK

Parasites could be costing you big bucks without you even realizing it

Infected cattle often look healthy, but their daily gain might be up to half a pound lower than it should be

BY ALEXIS KIENLEN
AF STAFF/CALGARY

Little is known about the impact of parasites on Canadian cattle production. But one thing is sure — resistance to the medication used to treat these parasites is growing.

"There's a lack of local information and a lack of information on parasites in Canada. That's a problem," John Gilleard, professor of parasitology in the University of Calgary's School of Veterinary Medicine, said at last month's Canadian Beef Industry Conference.

Parasites live in the gastrointestinal tract and produce eggs which are passed in the feces. These eggs develop in the pasture, and are reingested when animals graze.

These parasites cost Alberta's cattle industry tens of millions of dollars a year — and perhaps quite a bit more — in lost production and treatment costs. For all of North America, the bill is estimated to be more than \$2 billion annually.

Cold winters kill some parasites in this part of the world, but many survive inside their hosts as adult worms and some eggs can survive inside the soil with adequate snow cover.

"But to be honest, we don't really know the extent of how much that



Parasites are often a hidden health hazard because cattle don't look sick, says parasitology professor, John Gilleard. PHOTO: UCVM

happens," said Gilleard. "That's just an example of how much research we need to do."

Parasites have always existed in the intestines of domestic cattle.

"The objective is not to eliminate parasites completely; it's impossible to do that," he said. "The aim is to keep them managed so they don't have a negative impact."

Cherie Copithorne-Barnes, a rancher from Jumping Pound, managed a large operation in Uruguay with her husband for seven years.

"In Uruguay, parasites can affect about 25 per cent of your production if you're not managing it

properly," she said. "In the States, where it's warmer, it's about two to five per cent. In Canada, it doesn't really rank."

"But the reality is that in a certain area, if you start to see that parasite impact on them, you don't know what that amount is because nobody has started to measure what it is we're fighting and what we're doing here."

But research dollars for parasite studies are hard to come by.

"It's going to take some lobbying and some help pushing producers to start to help folks recognize that this is an issue," Copithorne-Barnes said during a panel discussion.

Hidden hazard

The impact of parasites is hard to measure.

"It's not animals that look sick or are in poor condition, necessarily, but their growth rate is impacted negatively," said Gilleard.

Canadian parasite populations are strikingly different to the ones found in the U.S. Midwest.

"We have lower burdens of parasites overall, but we have more of the more damaging parasites here," said Gilleard.

One American study conducted by a pharmaceutical company found animals treated with a subcutaneous injection for parasites gained 0.1 to 0.5 pound more per day than untreated ones in a control group.

Ivermectin and other pour-ons, which has been around for 30 years, has been the main treatment method. But these controls are losing their effectiveness, as internal parasites develop resistance. And pour-ons aren't as good as oral medication, as only a fraction of the treatment makes it to the worms.

"Resistant worms in cattle are insidious. The cattle are not dying or getting sick, but products are losing efficacy," said Gilleard.

Many producers have been using these controls unnecessarily and losing profit because they're not using them properly. However, there are other, more effective ways to control worms and to prevent resistance.

For example, overgrazing can be a source of infection, since eggs are more likely to be at the base of a plant. Fecal egg counts (testing can be arranged through a vet) can be used to assess parasite burdens, and taking a fecal sample two weeks after parasite treatment can measure its efficacy.

Using the correct dewormer is also a good strategy.

"Most people are using pour-ons to control ecto parasites, not internal. Every time you use that pour-on, you are selecting for resistance of internal parasites," said Gilleard.

Even though it sounds counterintuitive, it's better to overdose than underdose, since underdosing reduces effectiveness of the treatment while selecting for resistance. If there are higher levels of parasites present, it's best to treat cattle about six weeks after turnout to get the biggest production benefit.

Using Ivermectin and Fenbendazole in combination can also kill more parasites while reducing resistance.

And finally, be careful when bringing new cattle.

"When you buy cattle and put them on your pastures, you are seeding your pastures with the parasites that you just bought," said Gilleard.

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Trust your people, dare to be different, and know your numbers

Those are just three key tips from four innovative entrepreneurs who shared their methods for boosting productivity



Darren Bevans



Leighton Kolk



Kevin Blair



Matthew Heleniak

BY ALEXIS KIENLEN
AF STAFF/CALGARY

Increasing productivity by 15 per cent by 2020 is one of the pillars of the National Beef Strategy, which was created by beef organizations across Canada and released in January 2015. During the recent Canadian Beef Industry Conference, four experts shared how they increase productivity on their operations.

Darren Bevans

Darren Bevans, general manager of Deseret Ranches of Alberta Ltd., Raymond

Deseret Ranches has vertically integrated ranches in Canada and the U.S., a feed yard, and two centres where top genetics are developed, with bulls used on commercial cows.

We identified the priority traits to focus on, used the technology, and thought long term. When we have questions, we call the researchers and the professionals and ask.

“There are some really easy wins there, if we’re willing to do it.”

DARREN BEVANS

When times are tough, that’s when focused management pays off. Productivity is an everyday progression to keep moving forward. We looked at our system in terms of efficiency and productivity, and decided to adapt our practices to better use the resources along the way.

We looked at our old pastures and saw pastures that were underperforming, and looked at improved technologies and forage mixes. We’re improving the resources to produce more with the same resources. As I look around the industry, I know that there are opportunities for forage improvement. And there are some really easy wins there, if we’re willing to do it.

(Because of our integration), we’re no longer fighting for our part of the profitability sector. We’re taking cues from the hog industry and its integration and trying to work closer together. I’m convinced that some of the biggest opportunities from the Canadian beef industry are to work closer together and find ways to capture the value all the way through, rather than fight against each

other. The people south of the border think Canadians have an advantage in working together and sharing data and I hope we can capture that.

Leighton Kolk

Leighton Kolk, president and co-owner of Kolk Farms Ltd., Iron Springs

Kolk Farms grows irrigated and dryland crops and its feedlot operations produce 20 million pounds of beef annually.

When it comes down to efficiency and doing a good job and being productive, it comes down to the people. Without them, you can’t be productive.

We changed our pens to a roller packed concrete flooring. Mud costs us a lot of money. If there are mud and wet conditions, it’s taking about 10 to 20 per cent of our feed efficiency off the animal when it has to fight mud.

For data collection, chute side, we have a computer program that gives us instant data and captures everything the day the animal comes in. It ties it all to the RFID tag and it’s all in there.

This gives the staff instant access to what they treated the animal with and how much the animal weighed. If the animal is not being productive, they can take that animal and send it on a different course.

Pain control is important. Today it’s like Frank’s hot sauce, we use that sh#t on everything. We use it dehorning, castrating, and in surgeries; for any painful procedure.

We monitor our feed trucks. They’re hooked up to a system and tracked with GPS and we can track the feed rations. We also test our dry distillers (grains) and feed pellets. We teach low-stress cattle-handling techniques. It’s not a rodeo or a stampede when we work cattle. It’s a low-stress approach. We use low-stress cattle-handling equipment — which cost us a bunch of money initially — but now when cattle come through, they go back in the pen, and go (right) back on their feed.

“We need to get away from doing things twice. All of us working for the industry need to be better at reducing duplication.”

LEIGHTON KOLK

Every heifer is preg checked on their arrival.

Genetics is one of the fastest ways we’re going to get efficient in this business. When we’re putting this much bark on the back of an animal to make it a Choice or Triple A, and then we’re cutting the fat off and throw-

“We’re in the beef business and we need to stop fighting each other and work together. I want to challenge people about how they think about productivity.”

KEVIN BLAIR

ing it out or selling it for four cents a pound, that’s terribly inefficient.

We have to think of productivity as industry groups or organizations. We need to get away from doing things twice. All of us working for the industry need to be better at reducing duplication, using information flow, leveraging promotional dollars and evaluating our goals to make sure they are relevant to our industry.

Kevin Blair

Kevin Blair, CEO of Blairs.Ag Cattle Company, Lanigan, Sask.

Blair’s Family of Companies is an agricultural retailer of crop inputs and owns a herd of purebred Red and Black Angus, Hereford, and commercial genetics.

We’re in the beef business and we need to stop fighting each other and work together. I want to challenge people about how they think about productivity. Our beliefs are part of what we do, which is part of productivity. We need to respect the past, but we should never compromise the future for the past.

People are important to the business. You can’t be productive in your operation if you don’t trust people, give them room to operate, and let them make mistakes.

You don’t need to look like everyone else. Don’t do what everyone else is doing because there’s no competitive advantage there. Productivity increases can be achieved through diversity at the seedstock level. An old commercial guy told me to remember that at your bull sale, everyone wants to see 100 bulls that look the same, but everybody doesn’t want to buy 100 bulls that look the same. Pick a type.

Don’t be so concerned about frame. Think about smaller, lighter versions. Listen to your customers and understand what drives them.

If the seedstock industry is going to survive, we need to be educated and focused. The seedstock industry needs youth in science, marketing, and branding. We need highly motivated people if we’re going to increase productivity by 2020.

Matthew Heleniak

Matthew Heleniak, manager of Norpac Beef, Norwich, Ont.

Norpac Beef has a processing plant, distributes boxed beef, and feeds 2,500 to 3,000 cattle at feedlots. It also has a small cow-calf operation.

Getting bigger isn’t better. We decided to have our own niche by doing different things. This makes it so we don’t have to compete with big packers. We have processing lines, we sell burgers, hotdogs, and ground beef, which allowed us to grow our business quite substantially and stay off the radar of some of the bigger companies.

We feed Limousin cattle with a corn ration with a high-end pellet. We use 24-hour feed and free-choice bunks with high-quality bedding.

We’re a numbers-based company. We tag every individual with weight and know what each individual animal gains on a daily basis. All feed is computerized and run through a computerized system. We know what each animal is eating.

“We’re a numbers-based company. We tag every individual with weight and know what each individual animal gains on a daily basis. All feed is computerized and run through a computerized system. We know what each animal is eating.”

MATTHEW HELENIK

There’s a lot of loss of productivity in the beef industry because of meat that isn’t tender. This can include dark cutters and carcasses that aren’t an enjoyable experience for the end consumer. As weird as it sounds, if someone gets a tough steak, it hurts the productivity of the whole business and people eat less beef.

To maximize tenderness at our plant, we make sure that cattle are in our facility 24 hours before slaughter. They have free-choice feed and water. We play Led Zepelin and AC/DC on the radio, so they hear clamouring and banging and aren’t startled by gates or different voices.

Our main goal is to reduce stress on the animal so we get a more tender carcass. We have a good handling facility and different lighting systems so that cattle are as calm and quiet as possible.

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Don't let freemartins become a management headache in your herd

Some will reproduce normally and are well worth keeping, but others need to be culled

BY ROY LEWIS DVM

With better nutrition and management and a higher incidence of twins in the Charolais, Simmental, and Holstein breeds, some larger herds can have up to a 10 per cent twinning rate.

With the odds of 50 per cent of the twins being mixed sexes, it is no wonder freemartins are not an uncommon occurrence. Remember though that being twins of mixed sexes is not a guarantee the female will have no or undeveloped reproductive organs. In eight per cent of cases, a normal intact heifer is the result, which if kept could reproduce normally.

Freemartins become a bit of a management headache for several reasons. They are often the ones orphaned onto another cow and their identity as a twin may be lost. Because of their masculine characteristics, they grow very well and most often end up in the upper 25 percentile for growth — and so inadvertently will be kept as replacements. If in the feedlot and identified, they should be given a steer implant as their hormonal profile more

closely mimics a steer. The issue here is they tend to get ridden lots if put in the steer pen and are the more aggressive ones if put in the heifer pen. Sometimes they end up in the chronic pen and stay there until finished.

Veterinarians can pick out these freemartin heifers if you have them palpated to select for breeding soundness next spring. Several beneficial things are accomplished at palpating. As mentioned, the freemartin heifers are identified and removed as well as any pregnant ones (teenage pregnancies), ones with abnormally small pelvises, or those which are reproductively underdeveloped. One must remember any twin intact heifers genetically have more of a predisposition to twin themselves. If you want a higher incidence of twins in your herd, select them as replacements and if not, cull them. The choice is yours.

If you don't palpate heifers before selection, the management issue is keeping track of these freemartin heifers. The first is identifying them for sure. There are several ways to do this. Most have abnormally developed external genitalia with a very prominent protrud-

ing clitoris and what I describe as feathery vulval lips. There is a small instrument which measures the depth of the vaginal vault or a person can use a plastic test tube. Measure some normal heifers to get the average depth. Freemartin heifers will be considerably shorter to the point of having no vaginal vault. This measurement is made within a few days of birth. Then identify these freemartins with a distinct tag or notch their existing tag. The bottom line is making them distinguishable down the production line. Blood or DNA tests can also be done for freemartin determination and is useful if their external genitalia looks normal and they are potentially valuable breeding stock.

The huge loss that comes with freemartins is when they are kept, and kept, and kept not having a calf and remaining in the herd. I have personally palpated several four- to five-year-old freemartins with the producer wondering why they have not calved. If you purchase heifer replacements, again keep in mind some may be freemartins. When palpating in the heifer shows pen of 10- or pen of five-type competitions, it is not uncommon to find some

freemartins present. They are selected because, as already mentioned, they have superior growth.

A good rule when selecting heifers is always remove the top five per cent of your heifers for growth as they may have higher levels of male hormones and similar to freemartins will have poor fertility or be totally sterile.

If you see dairy heifers for sale, do an about face as they most likely are freemartins (as most intact dairy heifers are kept as replacements with the high culling rate in the dairy industry). It would be nice to have a standardization of tagging across the industry for freemartins, but that will probably never come to pass.

I have looked at some triplets and the same principal applies — most are freemartins if there is a bull calf in the mix. Other bovines such as bison have had freemartins documented even though twinning is less common than cattle. Most bison bottle-fed babies are likely twins and they should be checked before keeping them as replacements.

We also rarely see hermaphrodites (intersexes) in the cattle industry and these should be

put in the same category. They are sterile and should be fed out as slaughter animals. But the beef in all these animals is of high quality and has no bearing on taste or tenderness. If a bull calf survives in a set of twins to 60 days gestation and then is resorbed, then the surviving heifer calf's reproductive organs have already been affected and it may be born a freemartin.

In the purebred industry you may want to have freemartins checked out because, as mentioned, about eight per cent will have a complete uterus and will breed. This is one other criterion to consider when selecting your replacement heifers. At the same time your other heifers can be palpated for small pelvises, unwanted pregnancies, scarring, or internal abscesses.

This will hopefully eliminate problems down the line and increase the longevity of your heifers when they calve or are sold as breeding replacements.

Roy Lewis practised large animal veterinary medicine for more than 30 years and now works part time as a technical services veterinarian for Merck Animal Health.



SEPTEMBER UPDATE

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NATIONAL CHECK-OFF STUDY SHOWS PRODUCER BENEFITS

The Canadian Beef Cattle Research, Market Development and Promotion Agency (the Agency), in partnership with Canfax released a study evaluating the economic benefits from the Canadian Beef Cattle Check-off.

The study is an update on the 2010 Cranfield Study which had reported results ahead of the 2010 merge of the Beef Information Centre, Canadian Beef Export Federation and the National Check-off Agency.

The new study reports that on average from 2011/12 to 2013/14, every check-off dollar invested in national research and marketing activities resulted in a benefit cost ratio of 14:1 or \$14

of benefit for Canadian cattle producers. This is up from the \$9 average between 2005-08. In addition, the average benefit cost ratio grew steadily between 2011-14. This implies that despite positive benefits, there has been under-investment in research and marketing activities for the Canadian beef cattle industry.

Newly elected Agency Chair Linda Allison is confident that setting goals based on the study results will ensure that the industry moves forward together.

"The 14:1 benefit seen from each National Check-off dollar confirms the value of producer investment," said Allison. "However, with the declining purchasing power of the National Check-off and reduced marketings in recent years, under-investment is evident. It is imperative that we continue to find ways to optimize the return for our producers across the country."

The change in benefit cost ratio for research, overseen by the Beef Cattle Research Council (BCRC) dropped from \$46 to \$34.50 during 2005-08, while marketing, managed by Canada Beef, had a benefit cost ratio of \$13.50, up from \$7.55 in the previous study.

An inverse relationship exists between the amount of money spent on a promotion or research activity and its marginal benefit cost ratio. It is this diminishing marginal return that helps explain why as investment has increased for research over the past five years, the benefit cost ratio has declined, just as marketing dollars have declined and the benefit cost ratio has increased.

While the Canadian Beef Cattle Check-off provides the core industry funding for research and marketing programs, it does not fully cover the costs of all programs and activities. Supplementary funding is

obtained by leveraging the Check-off, attracting on average \$3 for every \$1 for research and \$1 for every \$1 for marketing between 2011/12 and 2013/14.

Melinda German, General Manager of the Agency, spoke highly of the research and marketing organizations responsible for investing check-off dollars.

"The work that BCRC and Canada Beef carry out, continues to show great returns for our industry," German said. "By ensuring a sustained and increasing benefit cost ratio, we can continue to work towards common industry goals laid out in the National Beef Strategy."

The Agency is dedicated to monitoring the benefit cost ratio of the National Check-off through ongoing studies, and ensuring that extra value is derived from producer check-off and import levy investments. ▼

MAN-MADE WARMING DATES BACK ALMOST 200 YEARS

Man-made greenhouse gases began to nudge up the Earth’s temperatures almost 200 years ago, far earlier than previously thought, says a new study. Greenhouse gas emissions from the Industrial Revolution left their first traces in the temperatures of tropical oceans and the Arctic around 1830 – about 80 years after the surge of coal to power British factories, ships and railways gradually spread around the world. Scientists detected a temperature rise by studying the growth of old trees, corals, lake sediments, and air trapped in ice cores in Antarctica. The study shows “the climate can respond very quickly to changes in greenhouse gases,” said its lead author. — Reuters

AUSTRALIA FORECAST LOOKS PROMISING

Australia’s north is forecast to receive above-average rainfall over the next three months and that should boost cattle production. The continent’s tropical northwest has at least a 60 per cent chance of above-average rainfall from September to October, the Australian Bureau of Meteorology said. There is an even chance of a wetter-than-average spring across the rest of the country. “A wet spring for most of those cattle regions will mean the producers are able to hold on to stock for a bit longer because they’ll have grass on the ground,” said livestock market analyst Matt Dalgleish. — Reuters

WEATHER



Guess who did the best job of predicting this summer’s weather?

Hint: No one imagined Prairie weather would be dominated by one upper low after another all summer

BY DANIEL BEZTE

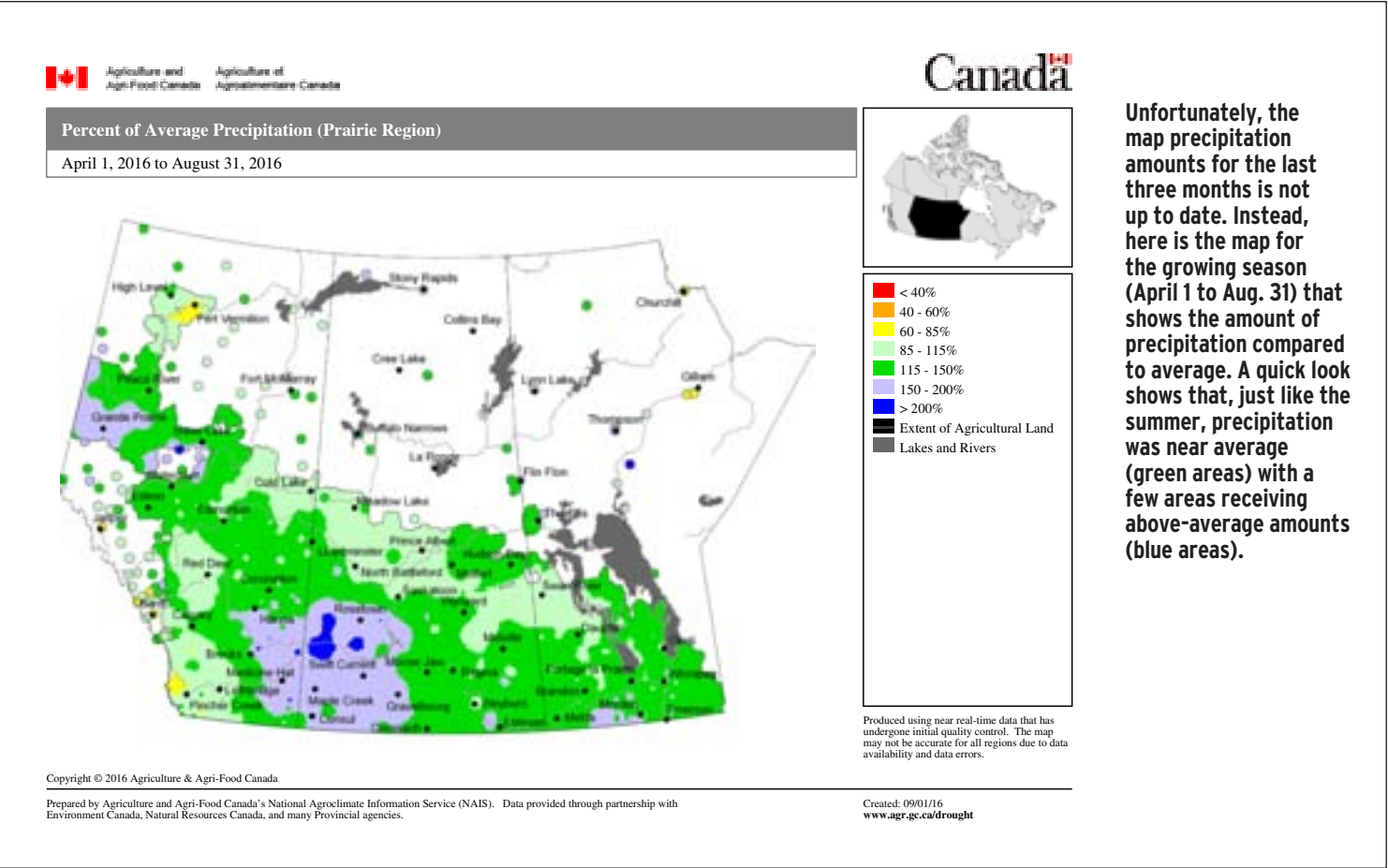
As the summer of 2016 has drawn to a close, I figured it was time to take a look back to see just how it turned out across the Prairies.

We’ll then take a look to see if anyone was able to correctly predict how this summer was going to turn out. (I know I didn’t do very well.) Finally, we will take a quick look at what the different long-range forecasts are calling for this fall.

For our Prairie-wide look at this summer’s weather, we’re going to start in the west and work eastwards towards Manitoba. I’ll make things a little easier by breaking each province into a few zones and using data from one location in each zone that has a good long reliable data record. In Alberta I’ll use Peace River for the northern region, Edmonton for the central region, and Calgary for the southern region. I know this can sometimes gloss over the data a little too much, especially when it comes to rainfall as one really big thunderstorm can dramatically impact the totals in one area compared to another. Temperature data on the other hand, usually works very well with only a few stations as we rarely see dramatic differences in temperature over short distances.

Summer temperatures in Alberta started off fairly warm, with all locations having June temperatures that were about 1.5 C above average. Temperatures in July and August cooled (relatively) to only slightly above average, with all three locations reporting mean monthly temperatures in both months that were about 0.5 C above average.

Precipitation across Alberta was not nearly as uniform as temperature. In June, it was fairly dry in the south, slightly above average rainfall, central regions (Edmonton) near-average amounts, and Calgary seeing well-above-average amounts.



August brought wet weather to all three locations, with both the Calgary and Edmonton regions coming in around 30 millimetres above average, and the Peace River region being the wet spot, with more than 60 millimetres above the long-term average. Overall, this meant that all three regions had a summer that was a little warmer and wetter than average.

In Saskatchewan, the summer also started off on the warm side with temperatures in both Saskatoon and Regina coming in between 1.0 and 1.5 C above average. Temperatures cooled to around average in July. This cooling trend continued into August, with Saskatoon coming in around 0.5 C below average and Regina around 1.0 C below average. These were the first below-average months since August 2015 for both of these locations.

Summer precipitation in Saskatchewan was slightly below average for both locations in June, around average in July,

and a little above average in August. Overall, this added up to both of these regions seeing near-average summer temperatures and precipitation.

Finally, in Manitoba the summer began with slightly above-average temperatures in western regions (Brandon and Dauphin) and near-average temperatures in central and eastern regions (Winnipeg). All three locations then saw near- to slightly below-average temperatures in both July and August.

Precipitation, as in Alberta, was a little more varied. In the Winnipeg and Brandon regions, both June and July reported above-average amounts of rain with August coming in with below-average amounts. In the Dauphin region, June was drier than average, July near average, and August came in a little above average. Add these all up and you end up with a summer that saw temperatures and precipitation amounts that were near average across all three locations.

So both Manitoba and Saskatchewan basically experienced average summer weather for both temperature and precipitation while Alberta was a little warmer and wetter.

Looking back at the forecasts it’s pretty darned easy to figure out who was the best — no one! Not one of the forecasts was even close, although Environment Canada and myself were probably the worst ones. I guess you can’t win them all. Who would have thought that we would have to deal with upper low after upper low all summer long?

Now, a quick look at the fall forecast (for what it’s worth).

Environment Canada is calling for above-average temperatures this fall in Alberta, extreme southern Saskatchewan, and central Manitoba with near-average temperatures elsewhere. It is calling for precipitation to be above average across all regions except southern Alberta and southwestern Saskatchewan.

The *Old Farmer’s Almanac* is

calling for near-average temperatures this fall with below average amounts of precipitation. The *Canadian Farmers’ Almanac* appears to be calling for near-average temperatures as it mentions fair and pleasant weather fairly often. It looks like it is calling for above-average amounts of precipitation as it also mentions stormy and wet conditions quite often.

Finally, my forecast.

After looking at all the signs from nature and consulting my spinning wheel of weather, I have come up with a forecast that calls for near- to slightly below-average temperatures along with near- to slightly above-average amounts of precipitation. More on my actual logic behind that in my next article.

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.

HIGH CRUSH MARGINS SHOULD BOOST DEMAND

Recent strong canola crush margins may have a positive impact on producers, says a provincial crop analyst. While companies don't release their actual crush margin, it can be estimated from canola, meal and oil futures markets, said Neil Blue. "The current calculated margin is over \$100/tonne, and this compares to about \$40/tonne last August," said Blue, adding that's the highest in two years. "Strong crush margin alone does not imply higher canola prices near term. However, it should encourage continued good demand from canola crushers. That strong demand is necessary to support the price offered to producers by chipping away at the supply of canola." — AAF



PIONEER

CROPS

Winter wheat not feeling the love

The crop's backers say there's a host of reasons to grow the fall-seeded crops, but admit it's been a struggle to convince farmers

BY MADELEINE BAERG
AAFC CONTRIBUTOR

The arguments are persuasive: Winter wheat typically requires less crop inputs than its spring-seeded counterparts, yet can yield 20 per cent more and is known to bring greater — sometimes significantly greater — financial returns.

The crop also reduces spring seeding time pressure, widens the fall harvest window, and offers environmental benefits.

Yet, winter wheat acreage continues to climb only slowly. While winter wheat varieties and agronomics have improved greatly in recent years and the crop now enjoys success all the way into the Peace region, growers continue to be slow to jump on the winter wheat bandwagon.

After falling sharply at the start of the decade, Alberta's winter wheat acreage has been on a fairly steady — albeit slow — upward trajectory, from 145,000 seeded acres in 2012 to 200,000 in 2016.

"Twenty-five or 30 per cent growth sounds good but on a smaller acreage, that growth doesn't translate into a ton of acres," said Monica Klaas, a contract agronomist with Ducks Unlimited Canada.

"The Western Winter Wheat Initiative, a program operated by Ducks Unlimited, aims to build winter wheat acres to one-quarter of all Western Canada (wheat) acres. Although strides in crop and market development have been made, we still have a long way to go."

Acreage is projected to climb somewhat this fall, mostly because this year's earlier-than-normal spring seeding will translate into a



Rob Graff's winter wheat research plots at the 2015 Alberta Wheat Day at AAFC's Lethbridge Research Station drew an interested crowd, but it's been slow going to increase acreage of the fall-seeded crop in the province.

PHOTO: COURTESY MONICA KLAAS

longer window between harvest and frost for fall seeding.

The holdup on a major increase in winter wheat acreage continues to be producers' misconceptions about the crop, said Klaas.

"This isn't your grampa's or your dad's winter wheat. Plant breeders have made huge strides," she said. "It's not a low-effort, low-return crop anymore. And winter survivability is no longer the big concern it used to be."

The reseeding rate due to winter-kill on the Prairies is now about nine per cent, she said.

"But if you look at a 10-year period of any spring-seeded crop, you'll see a reseeding rate of about one in 10 due to flooding, disease, insects, etc. In farming, there is always uncertainty. The only difference with winter wheat is that it is in the ground longer, which means you unfortunately have a longer period to worry."

This year's crop enjoyed virtually 100 per cent winter survivability, even though a very minimal snowpack provided little insulation through the cold months. Improved genetics also offered protection from stripe rust: despite near-ideal conditions for disease development, fewer than expected commercial fields planted to resistant varieties reported stripe rust concerns in 2016.

Market challenge

Prices for winter wheat are lower, partly because there are few export markets specific to Canadian Western Red Winter wheat. Rather, the crop is either mixed in with Canadian Hard Red Spring wheat or, if it is sold as a winter wheat-specific block, it is mixed with American winter wheat.

However, Canadian Red Winter wheat has unique baking characteristics. It is harder than American

winter wheat and can have higher protein than Canadian Hard Red Spring wheat, which means it has the potential to be marketed as a preferred option for specific end uses.

"What the Canadian Grain Commission, Ducks Unlimited, and their partners are trying to do is establish Canadian Western Red Winter wheat as a unique variety," said Klaas. "If we can sell it as a unique variety, we can target our marketing to specific countries and specific end uses."

The problem, like so many marketing dilemmas, is that the promoters' efforts are a bit of a chicken and egg scenario.

"Obviously you need significant acreage so you can fill market. But, the question is this: Do you find the market and build the acres, or do you build the acres and then try to find the market? As soon as you default on an order, that customer is going to get cold feet and will go shop elsewhere. That's what we're working on right now."

Their goal is lofty. In order to build sustainable markets, they need to convince farmers to plant 25 per cent of their wheat acreage — a full 1,665,000 acres in Alberta — into a fall-seeded crop.

"Producers just need to have an open mind. Winter wheat has so much potential," said Klaas. "Eventually, we'll see winter wheat grown commonly all the way up into the Peace. It's just a matter of trying to capture growers' positive experiences and building on that, but that will take time."

"We see a really bright future ahead. But we don't always want to talk about tomorrow. Right now, winter wheat is a great option."

For winter wheat production information, visit www.growwinterwheat.ca.

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New winter wheat varieties look to steal acres

Ken Gross is especially excited about AAC Gateway and says Wildfire could be a big hit in Alberta



An August 29 seeding date (left) shows far greater development by mid-June when compared to a Sept. 29 seeding date (right).
PHOTO: KEN GROSS, DUCKS U NLIMITED C ANADA, WESTERN WINTER WHEAT I NITIATIVE

BY ALLAN DAWSON
STAFF

There are great new winter wheats and more in the pipeline, says an agronomist with Ducks Unlimited Canada and the Western Winter Wheat Initiative.

“(AAC) Gateway is my new favourite and I really like the way it looks,” Ken Gross said during a recent webinar. “I think you will see a lot more acres of Gateway in the future.”

Emerson, a current favourite, is popular because it’s the only winter wheat rated “R” or resistant to fusarium head blight, which hit growers hard two years ago, he said.

“That scared a lot of guys and I don’t blame them for wanting to find a variety that could provide protection against that,” Gross said. “Emerson’s winter hardiness is only (rated) ‘good.’ It is a taller variety. Although it

is rated ‘very good’ for lodging, I have seen it go down. The biggest gripe I have against Emerson, other than the height, is the fact that it doesn’t quite have the same yield as Falcon.”

AAC Gateway’s yield potential is two per cent above CDC Falcon, and is an inch taller. Both have the same winter hardiness rating — “fair” — they share the same a “very good” rating for resistance to lodging “good” for resistance to stem and leaf rust. However, AAC Gateway is a milling wheat and CDC Falcon is not.

Gross said in Lethbridge trials conducted this year, AAC Gateway’s protein content was 13.8 per cent versus 12.3 and 11.5 per cent for Flourish and Radiant, respectively.

Pintail and Wildfire could also be popular. Both have good winter hardiness so could be attractive to farmers farther north, where sometimes winterkill can be a problem.

“It (Pintail) has got the highest winter hardiness of any winter wheat variety out there,” said Gross. “When you are seeding an organic crop you usually don’t have any residue to trap snow in the fall, so Pintail might be a pretty good option for you to look at under those circumstances. There are new winter wheat varieties with traits that can help you in different situations.”

Wildfire appears to have great yield potential in Alberta. Developed by Agriculture and Agri-Food Canada wheat breeder Rob Graf at Lethbridge, Wildfire outyields Radiant and Moats by 15 per cent.

“Wildfire is the one I think will take over a lot of acres in the next few years,” Gross said.

“Wildfire is a little bit shorter than Emerson, but it still has a ‘good’ rating for fusarium.”

“The only place it really falls down is on stem and leaf rust. It is not rated very well for that. But I think we can control that with fungicides because every producer I know always applies a fungicide at flag leaf and that should take care of that issue, but we will have to wait and see.”

“An earlier-seeded (winter wheat) crop is going to be more competitive in the spring and be more competitive against any kind of weeds and it is going to be a more uniform crop.”

KEN GROSS

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Weather woes not the only concern

The grain transportation system is far from fixed, poor quality will have continuing repercussions, and the world is awash in grain

BY ALEXIS KIENLEN
AF STAFF

All that rain and its effect on crop quality is top of mind for Alberta farm leaders, but lurking just behind is the prospect of the railways seizing up again in the face of a huge harvest.

"It looks like there's a lot of crop out there — I've heard estimates that this might be the biggest crop ever, and estimates that it might be second only to what we had in 2013," said Alberta Pulse chair Allison Ammeter, who farms near Sylvan Lake.

"That's a big issue as long as we're dealing with the monopolies that we have with CN and CP. As farmers, we might not like government regulations but we recognize that the only way to counteract a monopoly in the industry is with government regulations. You can't let a market sort itself out."

That's also a concern for her husband Mike, who is chair of the Alberta Barley Commission.

Although the Fair Rail for Grain Farmers Act — which sets targets for grain movement and penalizes the railways if they don't meet them — was extended for a year, that's not a long-term solution, he said.

"This is not an issue that is going away, as long as we export as much as we do," he said.

The railways say they are better prepared to handle a massive crop than they were three years ago thanks to, among other things, extended sidings and a revised car allocation system worked out with the grain companies.

But both Ammeters pointed to another aspect of rail transport that is rarely discussed — the age of rail grain cars. The current fleet has a lifespan of about 50 years, and is about 40 years old.

"We're getting to the point where people need to put some serious thought into what we're going to do to get new rail cars, or we're going to hit a crisis point," said Allison. "Every year, there are about 600 to 700 rail cars that cannot be filled because they need repairs so badly."

about the quality of the crop, but also worried that a big stream of downgraded malt being sold as feed would further pressure feed prices, said Mike Ammeter.

"Some guys, I think, have done better than others, but I think that generally in the last two or three weeks, there has been a fair amount of wet weather," he said. "We need some hot, dry weather. In our area, we're not excessive, but we've got plenty of rain. Now we just need heat."

It's the same wish being made by Alberta Wheat chair Kevin Auch and Greg Sears, chair of the Alberta Canola Producers Commission.

"Right now, a lot of farmers are working on getting their crops into the bin," said Sears, who farms near Sexsmith. "We've had huge amounts of rain all over the province, and there could be some challenges getting this harvest in."

"We're in the situation where anything that is being swathed is immature and it will take awhile to cure in the swath. There were certainly some areas that were hail affected."

"I have had some lower wheat quality in the past couple of weeks because of the rain," added Auch, who farms near Carmangay. "My winter wheat could have been harvested earlier than I did, but we had continual rains on it. It's happening around the province and I know we're not the only ones."

Low loonie

With a bumper crop on the horizon and U.S. wheat futures recently hitting a 10-year low, Auch is concerned about price prospects. But there is a silver lining for some, he said.

"If you have higher protein, I suspect you'll get more for it," said Auch. "The supply of higher-



"The low Canadian dollar doesn't shelter us forever, and when you go to buy a machine, you're paying for it in devalued dollars."

KEVIN AUCH

protein wheat is lower than what it has been because of the higher yields. They kind of go in opposite direction. If you get higher yields, you don't get the protein."

Because the global grain and oilseed trade is conducted in American dollars, Canadian farmers have been partially protected from falling prices by the low loonie.

(But "the low Canadian dol-

lar doesn't shelter us forever, and when you go to buy a machine, you're paying for it in devalued dollars," said Auch. "Anything that we buy will be going up in price as well. It holds the prices of our commodities up, but that can catch up to you when you go to buy your inputs or your machines."

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"Every year, there are about 600 to 700 rail cars that cannot be filled because they need repairs so badly."

ALLISON
AMMETER

Quality concerns

But given the seemingly never-ending rain across much of the province, the Ammeters and their fellow crop commission chairs were also focused on shorter-term issues when reached in late August.

Malt barley growers across the province are not only concerned



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Expert offers tips on alternative grain storage methods

Grain bags and piles along with buildings not designed for storage can be used, but they come with challenges



Grain bags should be placed so they run in a north-south direction, which ensures solar heating is similar on both sides. PHOTO: ALLAN DAWSON

NDSU RELEASE

Grain can be stored in many types of containers, but all storage options should keep the grain dry and provide adequate aeration to control grain temperature, says a grain drying expert from North Dakota State University.

“Grain must be dry and cool (near the average outdoor temperature) when placed in alternative storage facilities because providing adequate, uniform airflow to dry grain or cool grain coming from a dryer is not feasible in these facilities,” said agricultural engineer Ken Hellevang.

Producers should look carefully at the advantages and disadvantages of the non-traditional storage methods they are considering, he adds.

Structural issues

Grain pushing against the walls can damage buildings not built for grain storage. The walls must be anchored securely, and their structural members must be strong enough to transfer the

force to the building poles or support structure without breaking or bending excessively.

Typically, you will need additional poles and a grain wall to support the grain force in a pole building. Hellevang advises hiring an engineer to complete a structural design or analysis, or contacting the building company for guidance to prevent a structural failure.

Before placing grain in a building previously used for grain storage:

- Look for anything out of alignment, such as a bowing wall.
- Check the roofline. Bowing or bending indicate the load on the building has exceeded the load for which it was designed and built and has damaged the structure.
- Examine connections for separation or movement. A connector failure can lead to a building failure. You may need to reinforce the connection by adding a gusset or splice.

Grain bags

Storing grain in poly bags is a good option, but it does not prevent insect infestations or mould growth in damp grain. Hellevang recommends:

- Placing grain in bags at recommended storage moisture contents based on grain and outdoor temperatures. Heating will occur if the grain exceeds a safe storage moisture content, and grain in a bag cannot be cooled with aeration. The average temperature of dry grain will follow the average outdoor temperature.

Grain piles

Precipitation in grain piles is a severe problem. A one-inch rain will increase the moisture content of a one-foot layer of corn by nine percentage points. This typically leads to the loss of at least two feet of grain on the pile surface.

A one-foot loss on the surface of a 25-foot-high cone-shaped pile is about 13 per cent of the grain. This is a loss of \$39,000 if the grain value is \$4 per bushel.

If creating outdoor piles:

- Use a cover to prevent water infiltration. Aeration and wind blowing on the pile will not dry wet grain adequately to prevent spoilage.
- Prepare the ground surface where grain will be piled with lime, fly ash or cement to prevent soil moisture from reaching the grain.
- Place the pile so the storage floor is higher than the surrounding ground to minimize moisture transfer from the soil into the grain.
- Make sure the ground surface is crowned so moisture that does get into the pile drains out rather than creating a wet pocket that leads to grain deterioration.
- Examine the entire area to assure that flooding will not occur during major rain events.

Grain covers

A combination of restraining straps and suction from the aeration system holds grain covers in place. Place perforated ducts on the grain under the cover to provide a controlled air intake for the aeration system and airflow near the cover to minimize condensation problems.

Properly sized and spaced ducts also should be placed on the ground under the pile to pull air through the grain. If you use a perforated grain wall, the aeration ducts near the wall should not be perforated or the airflow through the grain will be limited to near the wall.

Cooling stored grain

Cool grain with aeration to reduce the insect infestation potential. Insect reproduction is reduced at temperatures below about 15.5 C, insects are dormant below about 10 C, and they can be killed by extended exposure to temperatures below about -1.0 C.

Cooling grain as outdoor temperatures cool reduces moisture migration and the condensation potential near the top of the grain pile. In addition, grain moisture content and temperature affect the rate of mould growth and grain deterioration, with the allowable storage time approximately doubling with each reduction of 5.5 C in grain temperature.


The grain should be cooled whenever the average outdoor temperature is 5.5 C to 7.75 C cooler than the grain. It should be cooled to near or below -1.0 C for winter storage.

Aeration ducts need to have perforations sized and spaced correctly for air to enter and exit the ducts uniformly and obtain the desired airflow through the grain. The maximum spacing for aeration ducts is equal to the grain depth to achieve acceptable airflow uniformity.

Producers should look carefully at the advantages and disadvantages of the non-traditional storage methods they are considering.




- Selecting an elevated, well-drained site for the storage bags.
 - Placing the bags north and south so solar heating is similar on both sides. Sunshine on just one side heats that side, which can lead to moisture accumulation in the grain on the cool side.
 - Monitoring the grain temperature at several places in the bags. Wildlife can puncture the bags, creating an entrance for moisture and releasing the grain smell, which attracts more wildlife.
- Never enter a grain bag because it is a suffocation hazard. If unloading the bag with a pneumatic grain conveyor, the suction can “shrink wrap” a person so he or she cannot move and will limit space for breathing.

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India no longer snapping up loads of Canadian chickpeas

While prices have been steady so far, India’s lack of buying could pressure them as harvest progresses

BY JADE MARKUS
CNS CANADA

The Canadian chickpea market is in a transitional phase ahead of harvest as a key player sits out, says a trader.

“We’re still kind of in that phase where there’s a lot of orders trying to get filled, positions trying to get squared,” said David Newman of Commodious Trading of Victoria, B.C.

Prices have been relatively steady, but the main driver of the market is India’s absence, he said.

“We’ve been able to sell a little bit of stuff to a few other markets, but I think without India being able to actively participate, everything is kind of left to the wind,” he said.

There are two main reasons why buying from India has slowed as of late. For one, the country has already bought a number of chickpeas.

“There’s a huge amount of purchases on the books, that’s for sure,” Newman said.

The potential for a large upcoming crop from India is also pressuring the market, he said.

“Last year India was looking at a drought situation, and they bought everything we had. It was gone.”

Kabuli chickpea spot prices across Western Canada range from 20 to 53 cents per pound, depending on size and quality, according to data from Prairie Ag Hotwire.

Western Canada’s chickpea crop is in mostly good condition, after a couple of weeks of uncertainty stemming from excess moisture, Newman added.

Statistics Canada pegs this year’s chickpea production at 106,900 tonnes, compared to last year’s 83,500.



Chickpea flour is weighed at a grocery store in Delhi in this file photo. Last year, drought prompted India to buy ‘everything we had,’ but the nation’s buyers have been on the sidelines so far this fall.

PHOTO: REUTERS/MANSI THAPLIYAL

An illustration of a hand holding a crystal ball. Inside the crystal ball, several canola plants are shown, some appearing healthy and others with signs of disease or stress. The background is a dark, stylized forest.

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O-68-08/16-10524834 -E

Grain transportation system pulled out all the stops for 2015-16

The pipeline showed just how much grain it can move — good thing because grain monitor Mark Hemmes says this could be the new normal



The 2015-16 crop year was another banner year for Canada's grain-handling and transportation system with grain movement almost matching last year's record. PHOTO: ALLAN DAWSON

BY ALLAN DAWSON
STAFF

Canada's grain-handling and transportation system showed just what it's capable of in the past crop year.

It was the second year in a row of stellar performance, with records for the total amount of grain shipped falling in 2014-15, both in marked contrast to the disaster that was the winter of 2013-14, which saw a banner crop backed up on farms, unable to move to market.

"It was kind of like a logistical utopia," said Mark Hemmes, president of Quorum Corporation, the firm hired by the fed-

eral government to track grain-handling and transportation statistics.

"The whole system worked really well all year. That's partly attributable to the fact that we had a nice winter. It was ideal."

The railways shipped 48.3 million tonnes of western grain to various destinations between Aug. 1, 2015 and July 31, 2016, down three per cent from the previous year.

Western Canadian primary elevators shipped 42.38 million tonnes of grain, matching the previous crop year.

Terminal elevator shipments of 35.552 million tonnes were down just 0.6 per cent.

(Find the full report at www.grainmonitor.ca.)

"Now how long can we keep that up?" Hemmes said. "When the volumes (of 2016 grain) really start to hit us here in the next few weeks, it will be interesting to see how everybody reacts after sitting through a long three- or four-month lull."

In fact, had shipments not dropped off starting in May, 2015-16 grain movement would've exceeded last year's record, Hemmes said.

Meanwhile, farmers are currently harvesting what's believed to be another above-average crop, which could again test the system.

Took time

It took two crop years, but the mountains of grain that started with a record 77-million-tonne western Canadian crop in 2013 and was added to with big crops in 2014 and 2015, has been whittled down. Since May elevators have been sweeping out their bins. But before that, the system was working flat out.

"We went for a 16-month-long frenetic pace," Hemmes said. "And that's what it took to clean up the 2013-14 problem. Now we will spend the next 10 years debating what was the cause of the 2013-14 problem. At the end of the day it was no one single thing."

"If we learned nothing else we should understand that it is guaranteed to happen again because we don't learn."

Grain companies and farmers blamed the railways for not being prepared with surge capacity. The railways blamed the coldest winter in 100 years.

Hemmes said they're both right.

Record cold starting in November 2013 saw railway capacity drop by 35 to 40 per cent for seven or eight weeks in a row. It would have been "insane" for the railways to have surge capacity to fully offset it, he said.

"They would've been guaranteed to lose money — and a whole lot of money," Hemmes said.

The federal government is trying to find the balance between what shippers need and what the railways should provide.

"Given that, there is nothing to say come November 1 this year we aren't in the same pickle



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TRANSPORTATION ▶ from page 22

depending on how much comes off fields,” he said.

Bad weather was an issue in 2013, but Hemmes also acknowledges shipper complaints.

“The lack of preparedness, or resilience by the railways, is in large part because they don’t have to worry about it because there isn’t a competitive alternative,” he said.

The good news is how well the system recovered, Hemmes said.

“It was an incredible volume that grain companies shipped and railways moved and we sold as a country,” he said. “Instead of looking at it as a problem... we just showed what the system is capable of doing.”

Railway service has improved, says Wade Sobkowich, executive director of the Western Grain Elevator Association, which represents the major grain companies. But it’s because other rail traffic is down and there’s a spotlight on railway performance.

“Until we remedy the core issue of railway market power any other solutions are really just band-aid solutions that eat around the edges of the fundamental issues that need to be corrected,” he said in an interview Aug. 24. “Until we bring about legislation that requires the rail freight market to behave as if it were operating in a competitive market we will never solve the problem.”



“Instead of looking at it as a problem... we just showed what the system is capable of doing.”

MARK HEMMES

The railways counter that more regulations will make the system less efficient and discourage investment.

The system is more efficient than it used to be, Hemmes said.

“A typical car cycle when I left the railway (in 1999) was 20 or 21 days and now we are down to 13 or 14.”

Eighty- and 100-car trains were once considered long, now 112 is the norm and the railways are going to 135.

Other report highlights include:

- The for vessel-time-in-port was 7.9 days, a 22.5 per cent reduction from last crop year.
- The number of country elevators rose 3.5 per cent to 383 from 370, increasing storage capacity seven per cent to more than 7.8 million tonnes.
- Average primary elevation charges declined 1.6 per

cent. Hemmes attributes it to increased competition. However, average terminal charges increased 2.2 per cent.

After a three-year streak of big crops and above-average throughput, it could all happen again this crop year, Hemmes said. Statistics Canada and others are forecasting a bumper crop.

Hemmes also said there’s little doubt the problem will recur, pointing to the fact it’s the fourth year in a row of large crops.

“I think we are looking at a new normal now,” he said.

But he also noted the system has improved.

“If we could move that much, could we move 80 million tonnes or could we move 90 million? I have a good feeling, that as much bad stuff has come out of the last couple of years with all the finger pointing, I think it has probably made the system better and more resilient,” he said.

“But now we have to start thinking about the next plateau and what will it be and when will it come?”

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Before Velcro there was this noxious weed

BY SHAYLIN EXSHAW
SENIOR WEED AND PEST INSPECTOR,
YELLOWHEAD COUNTY

NOXIOUS WEEDS

Woolly burdock is found throughout Alberta and will grow in most soil types. It prefers moist, loamy, and well-drained soils which are in direct sunlight. This noxious weed is commonly found on disturbed sites, but has also been found growing in gardens for herbal use.

Woolly burdock can only reproduce by seed, but is self-fertile due to the flowers being hermaphroditic (having both male and female organs). A mature plant can produce anywhere from 6,000 to 16,000 seeds.

An easy way to identify this weed is by looking at its flowers, which are covered with spiny barbs

similar to Velcro and cobweb-like hairs. The flowers, which branch off and form round clusters, can range from rose, purple, to white in colour. The stems (light green, grooved with a purplish tinge) and leaves (heart shaped and alternating) also contain cobwebby or woolly-like hairs.

Woolly burdock is similar to great burdock (which has larger flower heads) and lesser burdock (which has flower heads with sessile stems that don’t branch off as woolly burdock flowers do).

Because its flower heads are barbed, livestock won’t graze on woolly burdock. But if the barbs become entangled in an animal’s hair it will cause matting, and sometimes injury. By hitching a ride on animal hair or people’s clothing, weed seeds are easily dispersed.

Control of woolly burdock is achieved by digging up plants or



The barbs on the flower heads of woolly burdock are hooked like Velcro, which allows seed heads to easily attach to fur or clothing. PHOTO: MELISSA MARQUIS

cutting them prior to flowering. No current herbicides are registered for use on this weed.

For more information on this or any invasive plant, contact your local Agricultural Fieldman (www.aaaf.ab.ca) or the Alberta Invasive Species Council (www.abinvasives.ca).



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Growers asked to join the fight against late blight

Whether you grow potatoes and tomatoes in your garden or commercially, don't give late blight a chance

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Potato and tomato growers are being asked to help the effort to restore Alberta's status of being free of late blight.

"Everyone was encouraged to increase early and season-long monitoring of fields, gardens, and greenhouses in order to protect crops from late blight, as well as have a quicker response to any perceived infections," said Robert Spencer, commercial horticulture specialist with Alberta Agriculture and Forestry.

Late blight was largely responsible for the Irish Potato Famine in the 1840s, which resulted in the death and mass emigration of millions of people. Each year, late blight reduces the yields of potatoes and tomatoes in the field and can cause major losses in potato tubers in storage.

Monitoring of spore levels found increases in some regions, but no cases of late blight had been confirmed in Alberta as of late August.

However, it is recommended all potato or tomato growers — both commercial operations and home gardeners — take steps to reduce the threat of the disease overwintering. This includes ensuring plants die down quickly by using a desiccant (diquat) or mechanical treatments and then disposing of stems and foliage, either by burial, freezing, or composting, said Spencer.

"Avoid placing infected materials in uncovered compost piles as spores may be produced and spread the disease to nearby plantings of susceptible crops," said Spencer. "Piles may be covered with a tarp until the materials have frozen and are completely dead."

Potato tubers are most likely to harbour the disease and so should

be carefully graded to remove infected tubers.

"Commercial seed growers should be prepared to further grade seed tubers in the spring, and mancozeb-based seed treatments should be applied to try and protect developing crops from seed-borne late blight," said Spencer.

Culled tubers can be fed to livestock or may be chopped, incorporated and buried, or can be placed in covered piles until they freeze completely.

"The late blight pathogen normally cannot survive away from living tissues," said Spencer. "While the disease can survive for a time on tomato fruit, spores will not carry over on tomato seed. The disease can be introduced on living tomato transplants that are brought in from areas where late blight survives the winter."

In Alberta, the late blight pathogen does not survive or overwinter in the soil, so growers should not worry about reinfection by planting in or adjacent to a field where late blight has occurred, provided there are no surviving tubers that could reintroduce the disease through infected volunteer plants. However, rotating between locations is always recommended, whenever possible, to prevent the buildup of other diseases.

"All growers should take the time to assess the past growing season and the level of risk of late blight infection or reinfection that they will face for the next growing season," said Spencer. "Determine where disease might have come from and put preventive measures in place to protect against infection. It is in everyone's best interest to manage late blight, as this is a community disease."

For more information, go to www.agriculture.alberta.ca and search for 'late blight.'

LATE BLIGHT OF POTATO & TOMATO

Lesions may have a yellow edge

Photo by Dr. K. Al-Mughrabli, Govt of NB

Potato leaf lesions

Dark, water-soaked lesions (spot)

Lesions are not contained by leaf veins

Lesions become brown & brittle within a couple of days

Photo by Dr. K. Al-Mughrabli, Govt of NB

Lesions on tomato leaves

Plant foliage may die back rapidly

Disease develops rapidly under warm & wet/humid conditions

Lesions may also develop on stems, tomato fruit or potato tubers

Photo by Dr. K. Al-Mughrabli, Govt of NB

Potato foliage

Tomato fruit & potato tuber rot may have reddish-brown lesions

Disease may spread from diseased to healthy tomato fruit & potato tubers in storage & between potato seed pieces

Rot can penetrate the skins of tomato fruit & tubers — causes rot & discoloration of the internal flesh

Photo by Dr. K. Al-Mughrabli, Govt of NB

Tomato fruit — lesions

Photo by Dr. K. Al-Mughrabli, Govt of NB

Potato rot — Internal

For more information on the management of late blight, visit www.agriculture.alberta.ca — FAQs

German activists take EU-Canada trade deal to Constitutional Court

Groups opposed to the trade deal call it ‘immensely dangerous’ because it limits the power of parliaments to act in many areas



Demonstrators deliver some 125,000 signatures to the Constitutional Court to protest against the Comprehensive Economic and Trade Agreement (CETA) in Karlsruhe, Germany Aug. 31. PHOTO: REUTERS/RALPH ORLOWSKI

BY GERNOT HELLER AND
PHILIP BLENKINSOP
BERLIN/REUTERS

Activists have delivered what they say is Germany’s biggest-ever public complaint to the Constitutional Court, hoping it will scupper a trade agreement between the European Union and Canada. The deal, which some see as a template for an EU-U.S. agreement still being negotiated, is the EU’s most ambitious trade pact to date and could increase trade between the two areas by some 20 per cent. It would eliminate tariffs on 98 per cent of goods immediately,

and would also encompass regulatory co-operation, shipping, sustainable development, and access to government tenders. But its ratification faces obstacles. Although proponents say it could add some 11.6 billion euros (C\$17 billion) a year to the EU economy, many Europeans are skeptical about the benefits and fear it would give multinational corporations greater access to European markets without creating jobs. The three German groups — Campact, foodwatch and More Democracy — arrived at the Karlsruhe court in late August with a truck containing 70 boxes of documents with 125,000 signatures. They argue the Comprehensive Economic and Trade Agreement (CETA) breaches Germany’s constitution and want the court in Karlsruhe to stop the implementation of the deal before its ratification by EU states. The European Commission hopes that the governments of the EU states can approve it before a planned EU-Canada summit at the end of October. The European Parliament would also need to vote to allow it to enter force provisionally next year. But national, and some regional, parliaments would still need to ratify it. A trade agreement with Korea took effect provisionally in 2011 but was not fully ratified until four years later. The German groups insist this process undermines democracy because citizens would be excluded from the decision-making. “The temporary implementation of CETA is immensely dangerous because it creates a reality,” said the groups. “Democratically non-legitimate committees and investor-friendly mediation courts would start work... all without the agreement of the lower house of parliament,” they added. They also argue that the agreement would make it more difficult to improve environmental or health protection. Economy Minister Sigmar Gabriel, leader of the Social Democrats (SPD), that share power with Chancellor Angela Merkel’s conservatives, has said the EU-U.S. trade deal has effectively failed, but he backs CETA. France also has doubts about the future of a U.S. agreement, although it supports CETA, which includes an EU proposal on the contentious issue of settling investor-state disputes. Gabriel’s Social Democrats vote on the EU-Canada deal on Sept. 19. If they reject the agreement, it might be difficult for Gabriel, who is expected to run against Merkel in next year’s election, to support it at a meeting of trade ministers in Bratislava four days later. Merkel supports continuing the TTIP talks.

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Egypt cancels wheat tender as ergot policy bites

World's largest wheat buyer receives only one offer at tender and may have to reverse policy for a second time

CAIRO/ABU DHABI/REUTERS

Egypt's ability to buy wheat from abroad while demanding zero ergot fungus in shipments has been dealt a serious blow, with state grain buyer GASC cancelling a tender in late August after receiving just one offer.

It was the country's first tender to purchase wheat since it reinstated its zero-tolerance ergot policy — a move that baffled traders as implementation of the policy late last year had led to disruptions to its wheat-buying program and higher prices.

Ergot produces toxic alkaloids that can lead to illness or hallucinations in large quantities, but is considered harmless to people at low levels. The toxins can also be harmful to livestock consuming ergot-contaminated grain or grasses.

The near-complete boycott at the tender underscores the difficulty of requiring ergot-free shipments even for a country such as Egypt, the world's largest wheat buyer. It also calls into question Cairo's ability to sustain a massive bread subsidy program while imposing a rule suppliers say is impossible to guarantee.

"After only receiving one offer we cancelled," said Ahmed Youssef, vice-chairman of GASC, offering no further comment.

GASC has in the past adhered to the more common international standard of 0.05 per cent ergot allowance, a level Egypt's agricultural quarantine authority has criticized, arguing that even these trace amounts can contaminate plant life and give the fungus a foothold to flourish where it currently does not exist.

A total ban on the fungus imposed by the quarantine authority caused major disruptions to Egypt's wheat imports earlier this year, with global trading houses declining to take part in its tenders.

Egypt subsequently adopted the more lax 0.05 per cent policy in July, only to reverse course in late August. A document outlining wheat specifications for the tender stated that, in accordance with an Agriculture Ministry decision, the tolerance for ergot fungus should be zero per cent, marking the first time GASC specifications matched the quarantine's zero policy.

Despite the cancellation traders said low stocks could force GASC to return to the market soon.

"The stocks are very low and can probably only cover up to the second week of November and that's including all the shipments that were booked since the last tender," said one Cairo-based trader. "It's not looking good if they don't take a decision and they've lost most of their credibility in the market."

The country's renewed difficulty in purchasing wheat comes even as up to two million tonnes of the five million tonnes it announced as locally procured may be missing from stocks, the result of a local wheat-buying scandal that forced the minister of supply to resign last week.

GASC normally falls under Egypt's Supply Ministry but is being run by Trade Minister Tarek Kabil following the supply minister's resignation.



Egypt can't grow enough wheat to meet its needs, but the world's largest wheat buyer has confounded markets by repeatedly trying to implement a zero-tolerance ergot policy. PHOTO: REUTERS/AMR ABDALLAH DALSH



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IT’S A ‘BALE’S EYE’ VIEW – BUT IT WORKS



A red-tailed hawk claims a round hay bale as its perch for studying any rodent action in the cut field near Priddis PHOTO: WENDY DUDLEY

Agrium’s CPS agrees to shed four Alberta retail sites

Competition Bureau steps in on sale of Andrukow chain to CPS and says selling four sites is needed to maintain adequate competition

STAFF

Agrium’s Crop Production Services (CPS) arm will need to sell four ag retail sites in eastern Alberta to close on its deal to buy an independent western Prairie retail chain.

The federal Competition Bureau announced in early September an agreement with CPS dealing with the company’s planned purchase of Andrukow Group Solutions Inc. which operates 18 retail outlets, nearly all in Alberta.

The agreement calls for CPS to sell its own agri-product retail locations at Marwayne and St. Paul and also sell Andrukow outlets at Wainwright and Sedgewick.

Andrukow’s operations also include Alberta sites at Amisk, Camrose, Clyde-Flatlander, Daysland, Dewberry, Fort Saskatchewan, Mundare, Paradise Valley, Provost, Rycroft, Ryley, St. Paul, Strathmore, Viking and Waskatenau, and one at Marsden, Sask., about 110 kilometres west of North Battleford.

The consent agreement calls for CPS to use “commercially reasonable efforts” to close deals for the four sites within an agreed-upon time frame, or a divestiture trustee would then be appointed to do so.

The agreement will also block CPS from acquiring similar types of ag retail and fertilizer assets in the area of the Andrukow properties for three years, and from buying back the divested sites for 10 years.

Andrukow first announced its planned sale to CPS in late April, saying it would create “added diversity in our portfolio of leading-edge product and technology options” plus “an expanded team of industry experts.”

The bureau said its review of Calgary-based Agrium’s deal for Andrukow focused on the local retail supply of nitrogen fertilizers to farmers, “as it did in its review of Agrium’s purchase of Viterra’s agri-product retail facilities in 2013.”

Without the four divestitures, the bureau said, “the proposed transaction would lead to a substantial lessening or prevention of competition in the retail supply of urea, UAN or anhydrous ammonia in a number of local markets in Alberta and Saskatchewan.”

The bureau said its review looked at sales information obtained from both CPS and Andrukow as well as “third-party competitors” and identified “a number of markets with high concentration.”

The financial terms of Andrukow’s purchase agreement with CPS haven’t been released.





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Proposed fertilizer deal would send farmers to regulators

Growers' groups and independent retailers say the move would give the new company too much market power

BY ROD NICKEL AND
MICHAEL HIRTZER
WINNIPEG/CHICAGO/REUTERS

North American farmers will pressure regulators to protect their negotiating leverage with fertilizer suppliers if PotashCorp of Saskatchewan and Agrium Inc. agree to merge, say major farm groups.

The potential deal would combine the world's largest fertilizer producer by capacity with the continent's biggest network of farm retail dealers and consolidate 60 per cent of North America's potash production with one company.

The tie-up would face regulatory scrutiny in both the United States and Canada.

For farmers, already facing the prospect of fewer buying choices for seed and chemicals, the potential merger raises fears they will lose pricing power. Independent retailers in the United States and Canada worry about competing against a fertilizer Goliath that may stock its stores at preferential rates.

"It's like the movie 'Mad Max' — one company owns everything," said Norm Hall, president of Agricultural Producers Association of Saskatchewan. "There's less and less competition out there. We're

being painted into a box because of corporate greed."

The group, based in Canada's largest crop-growing province, will raise concerns with the federal Competition Bureau if the merger proceeds, Hall said.

Likewise, Manitoba's Keystone Agricultural Producers will ask the bureau to weigh the risk of higher farm costs, said president Dan Mazier.

The Competition Bureau routinely contacts industry groups when it reviews proposed mergers, said spokeswoman Sophie Paluck-Bastien.

The American Soybean Association, which represents 21,000 U.S. farmers, might complain to U.S. regulators if the merger advances. It opposes deals that limit competition and drive up prices, said spokesman Patrick Delaney, noting that the combined company would be "dominant" in North America.

PotashCorp declined to comment and Agrium did not respond.

Farm incomes

Potash prices fell to decade lows this year, pressured by excess capacity and weak demand, but North American farm incomes have also suffered as corn and wheat prices tumbled to multi-year lows.

Proposed tie-ups between big



This PotashCorp storage facilities near Saskatoon would be one of the assets in a combined PotashCorp/Agrium company. PHOTO: REUTERS/DAVID STOBBE

seed companies Monsanto Co. and Bayer AG, and ChemChina and Syngenta, have raised alarm among farmers, and the U.S. Justice Department is suing to stop Deere & Co. from buying Monsanto's Precision Planting farm equipment business.

Fertilizer accounts for as much as one-third of input costs for U.S. corn farmers, according to the National Corn Growers Association.

"The cost of farm inputs is a major concern to corn growers right now," said Cathryn Wojcicki, spokeswoman for the association. It will scrutinize the Potash-Agrium merger if it proceeds, she said.

Agrium's farm retail rivals, which include small co-operatives and independent dealers, are also wary.

Regulators should ensure that the merged company supplies

retailers under similar terms as before, said Randy Stephens, president of SureGrow Ag Products, which has three retail stores in Texas.

"They'll always be selling to (their own stores) at a discount to anyone else," Stephens said.

Kevin Blair, chief executive of a family-owned chain of eight farm retail stores in Saskatchewan, said he would be shocked if the merger is approved in Canada.

"Does it put us at a competitive disadvantage? Absolutely. But more important, it puts the grower at a disadvantage," Blair said.

But Charles Neivert, analyst for Cowen Securities, said there is little reason to worry about competition.

If the new company hikes fertilizer prices in the United States, lower-cost offshore producers would increase shipments, he said. Agrium's retail stores are already stocked mostly with its own fertilizer, leaving little room for additional supplies from PotashCorp, he added.

Canadian Economic Development Minister Navdeep Bains told reporters that his government was "definitely keeping an eye on" the possible merger, but added that Ottawa wants Canadian companies to have global success.

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Farm leaders seek meeting with Transport Minister Marc Garneau

Consultations on amending the transportation act end Sept. 16 and farm leaders say the minister needs to hear directly from farmers

BY ALLAN DAWSON
STAFF

When a newly elected Liberal government promised further consultation on changes to the Canada Transportation Act, farm groups reacted with relief.

Now that relief is turning to frustration and worry.

Transport Minister Marc Garneau not only not met with farmers, but it appears he doesn't even realize farmers are being overlooked, said the president of the Agriculture Producers Association of Saskatchewan.

"We spoke to someone at Transport Canada and she said, 'Oh, we thought the elevator association spoke for producers,'" Norm Hall said. "At that point I lost it."

"I think regardless (of whether we meet with Garneau or not) we will be a little bit nervous because Transport Canada seems to be — how should we say it? — unduly influenced by the railroads. The railroads have a pile of

money and one of them happens to be in the minister's home riding."

To cite just one example of how consultation has played out, Garneau held a Trade Corridors to Global Markets meeting in Toronto May 24 attended by 12 officials. No farmer or grain company representatives attended.

The grain sector knew there would be meetings, but it wasn't widely known where or when. Both Hall and Dan Mazier, president of Keystone Agricultural Producers (Manitoba's main farm group) were surprised to learn about the final meeting the day before it took place and taken aback they weren't invited.

Farmers and grain companies have claimed for years the railways are essentially regional monopolies and won't invest in surge capacity because they know there's no risk of losing business. They want Ottawa to keep a trio of measures — the maximum revenue entitlement to protect grain farmers from excessive rail freight rates; enhanced



Saskatchewan farm leader Norm Hall says producers haven't got through to the transportation minister yet. PHOTO: APAS

rail monitoring; and fines for the railways when they fail to meet service agreements.

Farm leaders and other grain industry officials put requests to Agriculture Minister Lawrence MacAulay in mid-July. Hall's group did the same in a meeting with MacAulay and senior Saskatchewan Liberal MP Ralph Goodale last month.



Prairie farm groups feel like Marc Garneau, the federal transportation minister, needs to hear first hand from farmers how rail service affects their businesses. PHOTO: LIBERAL PARTY OF CANADA

But Hall also wants to deliver that message directly to Garneau.

"No disrespect to Ralph (Goodale) and MacAulay," Hall said. "I am sure they will be great advocates for agriculture, but I think the (transport) minister needs to hear from producers themselves."

"I think the (transport) minister needs to hear from producers themselves."

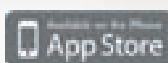
NORM HALL

The formal consultation process wraps up on Sept. 16, but Canadians can still express their views on transportation reforms after that date. They can be sent via email (TC.Transportationfuture-Lefuturdestransports.TC@tc.gc.ca), Twitter, Facebook or through Transport Canada's feedback forum at www.tc.gc.ca (search for 'transportation future feedback').

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2010 Bourgault 3310, 75', 12"	\$95,000
2013 Bourgault 3320, 76', 12"	\$169,000
2013 Bourgault 3320, 75', 12"	\$139,000
2013 Bourgault 3710, 50', 10"	\$189,000
2012 Bourgault 3710, 60', 12"	\$186,000
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', 10"	\$85,000
2008 NH SD550, 70', 10"	\$59,000
2010 CIH 700, 70', 12"	\$33,500
2008 CIH 700, 70', 12"	\$29,500
2007 CIH 700, 70', 10"	\$28,000

AIR TANK/CART

2010 Bourgault 6700, Tow Behind Conveyor, 3 meters	\$118,000
2013 Bourgault L6550	\$115,000
2013 Bourgault L6550	\$115,000
2013 Bourgault L6550	\$115,000
2008 Bourgault 6550	\$89,000
2005 Bourgault 6550 Trailing	\$59,500
2012 Bourgault 6450,	\$115,000
2012 Bourgault 6350, Tow Behind	\$58,000
1995 Flexi-Coil 5000/1330	\$28,000
2015 Bourgault L7800	\$251,800
2011 NH P1070, Tow Behind	\$98,000
2010 Case IH 3430	\$45,000
Bourgault 3225,	\$13,500
2010 CIH 3430	\$45,000
2008 CIH 3430	\$39,500
2007 CIH 3430	\$35,000
1996 Bourgault 4300	\$13,800

BALER/ROUND

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

2007 Leon 4000 STX425- Frameless	\$13,800
2011 Leon Q5000 STX Quad	\$30,000
2007 Q4000 6 way TJ450	\$19,500
2013 Leon Q5000,	\$33,000
2002 Bobcat S185	\$23,500

COMBINE

2010 NH CX8080, 1297/929 hrs ..	\$268,000
2015 NH CX8080 , 135 Thr Hrs...	\$419,000
2015 NH CX8080, 135 Thr Hrs.....	\$419,000
2007 NH CX8080, 1002/785 hrs ..	\$189,000
2014 NH CX8080, 253/185 hrs	\$398,000
2010 NH CX8080, 1875/1348 hrs	\$249,800
2010 NH CX8080, 1755/1237 hrs	\$249,800
2010 NH CX8080, 1722/1240 hrs	\$249,800
2009 NH CX8080, 1858/1430 hrs	\$215,000
2007 NH CX8080 , 1729/1186 hrs	\$169,500
2012 NH CR8090, 1144/917 Hrs	\$289,000
2012 NH CR8090, 1058/811 Hrs	\$299,000
2014 NH CR8090, 321/221 hrs	\$398,000
2014 NH CX8090, 632/462 hrs	\$368,000
2011 NH CR9080, 724/552 hrs	\$335,000
2002 NH CX840, 3700/2500 hrs	\$78,000
1993 NH TX36, 1993/3079 hrs	\$12,500
1997 NH TX66, 3754/2781 hrs	\$38,500
1998 NH TX66, 3438/2643 hrs	\$39,500
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, 3058/2357 hrs	\$28,000
1998 NH TR98, 3341/2305 hrs	\$18,000
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 1238/1026 hrs ..	\$179,000
2008 NH CR9070, 1434/1023 hrs	\$189,500
2008 NH CR9070, 1489/1020 hrs	\$195,000
2009 NH CR9070, 1733/1419 Hrs	\$169,000
2009 NH CR9070, 1597/1208 Hrs	\$179,000
2010 NH CR9070, 1300/1153 hrs	\$179,500
2010 NH CR9070, 1616/1190 hrs	\$189,000
2010 NH CR9080, 1289/873 hrs ..	\$268,000
2010 NH CR9080, 1410/964 hrs ..	\$258,000
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
2005 NH CR970, 2244/1501 hrs ..	\$138,000
2005 NH CR970, 2459/1821 hrs ..	\$138,000
2006 NH CR970, 1861/1300 hrs ..	\$149,000
2006 NH CR970, 1400/1100 hrs ..	\$178,000
2006 NH CR970, 1547/1219 hrs ...	\$159,000
2015 NH CR9.90E, 430/309 hrs ...	\$519,000
2015 NH CR9.90E, 366/268 hrs ...	\$529,000
2000 CIH8010, 1728/1322 hrs	\$189,000
2013 Claas 760, 361/233 hrs	\$389,000
2007 JD 9860STS, 1627/1161 hrs	\$208,000
2005 JD 9860STS, 1497 hrs	\$148,000

VERTICAL TILLAGE

2007 Bourgault 6000	\$25,800
2013 Salford I-2141, 41'	\$99,000
2014 Salford I-4141, 41'	\$115,000
2010 Salford 570 RTS, 30'	\$68,000

FEED WAGON/BALE PROCESSOR

2005 Haybuster 2650	\$14,900
2002 Cattlelac 330,	\$18,500
2003 Bale King 3100, RH discharge	\$9,800
2003 Lucknow 285	\$12,800

GRAIN AUGER

2001 Brandt 1390,	\$9,000
2010 NuVision 5395,	\$21,000
2011 NuVision 6395, 95' Tele-scoping	\$19,500
2010 Richiger 9' Bagger with auger,	\$33,000

HARROW HEAVY

2014 Valmar 3255,	\$12,800
2011 Bourgault 7200, 84'	\$47,000
2010 Riteway 8100, 78'	\$33,000

HEADER COMBINE

2012 MacDon FD70, 45'	\$75,000
2010 Honeybee, HB30, Gleaner adaptor, 30'	\$49,500
1999 Honeybee SP36, 36'	\$29,000
2011 Honeybee SP36	\$29,800
1994 Honeybee SP30,	\$9,800
2009 NH 88C, 42'	\$68,000
2001 NH 94C	\$29,000
2006 NH 94C	\$29,500
2002 NH 94C	\$29,500
2008 NH 94C	\$29,500
2009 NH 94C	\$39,500
2008 JD 936D,	\$39,900
2012 JD 635D, 35'	\$68,000
1998 MacDon 960,	\$25,000
1998 MacDon 871 TX Adaptor	\$6,000
2011 MacDon FD70-45,	\$75,000
2012 MacDon FD70-45,	\$78,000
2010 MF 5100-35,	\$58,000
2008 NH 94C-30,	\$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
1998 NH 994-36,	\$19,000
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
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

2008 Miller A75	\$139,500
2012 NH SP240	\$258,000
2009 Rogator 1084, 3160 hrs	\$159,000
2011 JD 4830, 1599 hrs	\$218,000
2008 CIHPatriot 3320, Eng Hrs: 3030	\$148,000
2011 JD 4830, Eng Hrs: 1820	\$218,000

SWATHER

2014 NH SR200/440HB	\$169,000
1999 NH 994, 25'	\$15,000
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
2012 JD A400	\$89,000
1999 MacDon 9300	\$28,000
2014 NH SR200	\$175,000
2013 MacDon M105, 170 Hrs	\$138,000

TRACTOR

2012 Case IH U105	\$59,000
2012 JD 6103D, C/W 563 Loader ..	\$78,000
1986 JD 4850, 11,460 hrs	\$58,000
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
2009 NH TV6070 - LDR, Eng Hrs: 4660	\$95,000
2010 NH T7040	\$129,000
2011 Versatile 305, 1800 hrs	\$149,500
2009 Case IH 45CT	\$35,900
2004 Case IH MXM120	\$55,000
2010 Kubota BX1860	\$9,000

TRACTOR 4WD

2009 CIH STX535Q, 3103 hrs	\$278,000
2014 NH T9.615, 1263 hrs	\$338,000
2012 NH T9.615, 2706 hrs	\$259,000
2002 NH TJ450, 9000 hrs	\$138,000

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PROVINCE OFFERS TRAINING TO NEW FARMERS

Alberta Agriculture and Forestry is hosting the Getting into Farming information session on Oct. 18 in Airdrie. "The session is aimed at those thinking about getting into a farming business and making it their primary source of income," said new-venture specialist Kathy Bosse. "It'll provide information about farming at a pretty high level to give a solid overview for those who want to learn about opportunities in the industry. Participants will get a 'taste of agriculture' as well as information to help them establish a successful farming enterprise." The cost is \$25 and includes lunch. To register, call the Ag-Info Centre at 1-800-387-6030 by Oct. 11. — AAF

FIVE WHEAT PROJECTS RECEIVE FUNDING

The Alberta Wheat Commission has invested \$720,625 in five wheat research projects, which leverages an additional \$622,625 from other funding partners. The projects are: New insights on management practices for hail-damaged crops; advanced monitoring to better understand stripe rust in Western Canada; improved water use efficiency for better yield and drought tolerance; new, low-cost testing technology for mycotoxin detection; and new tools to improve wheat grain yield under normal and abiotic stress conditions. The projects are taking place at a number of field research institutions in Alberta and Ontario. — AWC

MORE NEWS

It's not a silver bullet, but PEDv vaccine is a big boost for hog sector

The vaccine, now being field tested, will provide significant protection even if it's not 100 per cent effective

BY SHANNON VANRAES
STAFF

Canadian pork producers are one step closer to having a powerful new tool in the fight against porcine epidemic diarrhea.

A vaccine developed by the Vaccine and Infectious Disease Organization-International Vaccine Centre (also known as VIDO-InterVac) at the University of Saskatchewan has entered its final phase of testing.

But while the vaccine is a much needed firewall for Prairie pork producers, Andrew Dickson of the Manitoba Pork Council cautions the vaccine won't be a panacea for preventing the virus that causes the disease.

"Our members are very excited at the possibility of having a vaccine that will protect our herd from this disease," Dickson said. "But that doesn't mean we can relax our biosecurity. What it does is provide an additional line of defence, it doesn't mean we can give up worrying about border crossings and trailers or stop worrying about assembly yards."

Making sure that any vaccine that becomes available is effective is also important, he said, but added that even an efficacy rate of 80 or 90 per cent would have a big impact when it comes to controlling the spread of the disease.

"With our herd being essentially naive, this offers a significant amount of protection, even with say 10 per cent of pigs left unprotected," Dickson said. "You need a big pool of animals for this to spread, so the more pigs that are vaccinated successfully, the harder it will be for the disease to spread."

Using its new containment Level 3 facility, VIDO-InterVac was able to successfully demonstrate that up to 100 per cent protection could be provided using the vaccine, which relies on the spike protein, something researchers have long been convinced is what allows the virus to initiate the infection of the host pig.



Veterinary researchers are currently testing a new vaccine against PEDv that was developed at the University of Saskatchewan. PHOTO: THINKSTOCK

About 700 sows in three commercial operations have now been vaccinated and brought back to the research centre, said VIDO-InterVac's research director, Volker Gerdt. Piglets from these sows have now been infected with the virus to test the vaccine's efficacy rate.

"So we don't have data completed or analyzed there yet, that is still going on, so we don't know what (the efficacy rate) is in the field," Gerdt said. "But we will."

The vaccine was also used in three Manitoba hog barns during recent porcine epidemic diarrhea outbreaks.

"They asked us if they could use the vaccine in their outbreak, and we got permission from CFIA (Canadian Food Inspection Agency) to use it in those herds," said Gerdt.

Blood samples from animals in those barns have yet to be



Andrew Dickson, Manitoba Pork Council FILE PHOTO

tested, but Gerdt said the producer in that case felt the vaccine did give replacement gilts some level of protection.

During lab trials and tests in commercial sow barns, between 80 and 90 per cent of neonatal piglets were given

"With our herd being essentially naive, this offers a significant amount of protection."

ANDREW
DICKSON

protection from the virus after sows were vaccinated four to five weeks before farrowing, and then vaccinated again two weeks prior to farrowing. Immunity is passed from the sow to the piglets via her colostrum.

While complex, Gerdt said the vaccine has come together quickly.

"We put a large team of

researchers on it and we pursued different strategies, different types of vaccines and so on," he said. "Commercial production could start very soon, but it's really a question of how quickly can they get it registered in Canada so that producers can use it... I think everyone is interested in getting it out as quickly as possible."

Commercialization of this vaccine is being fast tracked by the European pharmaceutical company Huvepharma.

"This is an exciting partnership with a world-class organization," said Boris Gavrillov, senior scientist for biologics development at Huvepharma. "Our goal is to have the vaccine available for commercial use as soon as possible to help stop producer losses."

shannon.vanraes@fbcpublishing.com

Research aims to see sweet potatoes grown on Prairies

Demand had skyrocketed for sweet potatoes, but most are grown in the southern U.S.



New crops and varieties developed here will help expand market opportunities for vegetable farmers, says Keith Kuhl chair of Peak of the Market and Tracy Shinnars-Carnelley, the grower co-operative's director of research and quality enhancement. PHOTO: LORRAINE STEVENSON

BY LORRAINE STEVENSON
STAFF

Those orange-fleshed sweet potatoes Canadians love eating travel many miles to reach our dinner plates. Most are grown in the southern U.S., where a much longer and warmer growing season makes commercial production possible. Now new varietal research, underway near Winkler, Man., may make field production of them possible in a Canadian climate too. Sweet potatoes are included in plot trials at a research site operated by Peak of the Market, the province's grower-owned produce distributor.

This is the second year of the program, focused on improving yields and developing new varieties to create new production opportunities for potato and carrot growers. There's keen interest in growing sweet potato here too, given the increasing popularity of it among consumers, says Keith Kuhl, board chair with Peak of the Market and president of Southern Potato at Winkler. "It seems to be the in thing to eat," he said. Reports say Canadians new-found love of sweet potato has pushed demand up more than 80 per cent in the past decade. Manitoba growers want to capture that opportunity and grow and supply that demand locally, Kuhl said. However, until now, although some have experimented with it, sweet potato requires an entirely different production method, plus available varieties haven't been suited to Manitoba's shorter, cooler climate. But that's changing, said Kuhl. "Varieties that have come out in the last few years are showing a lot more promise," he said. "There's a possibility we can actually make it work." The majority of research trials underway at the site looks at nutrient and pest management issues and needs related to potato production in general, however. "The No. 1 focus is on new opportunities in potato varieties for the fresh market," said Kuhl. There again, growers want to capture new opportunities that are emerging in table potatoes. Red-skinned, white-fleshed potatoes have long been a Manitoba staple, but growers are now producing more yellow-fleshed potatoes as demand grows for these. They are also interested in supplying niche product potatoes such as fingerlings, purple-skinned and purple-fleshed potatoes, and red-skinned, red-fleshed potatoes, Kuhl said. In 2016 there are 29 entries in potato evaluation trials submitted from European breeders as well as from across North America. Plots are also devoted to varietal evaluations to help grow a better carrot too. "Genetics in carrots are changing and evolving on an ongoing basis," Kuhl said. What growers hope to get out of this work is a way to boost yields while producing carrots more uniform in size. "The taste must always appeal to consumers as well," he said. "Taste is always a criteria." The research is being done in co-operation with the Vineland Research Innovation Centre out of Ontario.

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Beef producers urged to give AI another look

AI advances have allowed conception rates of up to 60 per cent on the first day of breeding season

BY KATIE ALEXANDER
CERTIFIED ANGUS BEEF

If your opinion of artificial insemination (AI) for the beef cattle herd is “been there, done that,” you may want to give it another look.

New protocols and synchronization methods have eased the pressure.

“There’s no question that fixed-time AI has got easier,” said Cliff Lamb, University of Florida animal scientist.

That’s important for those who tried other AI programs in the past but did not find success, and also noteworthy for those who have never tried AI. Fixed-time protocols allow the average producer who doesn’t know how to AI to synchronize them and schedule a technician to come out and breed the cows.

Pregnancy rates vary by herd and environment, not perfect by any means, but getting better.

“We’ve found that fixed-time insemination has worked so well in heifers and cows with the new protocols that we’ve got to where we can get more cattle pregnant on the first day of your breeding season,” said Willie Altenburg, Select Sires beef development adviser.

That’s because it allows for a better conception rate — up to 60 per cent — on the first day of breeding season, he adds.

AI reduces the uncertainty of unproven bulls and serves as a risk management tool, too.

“The advantage of using proven genetics in the heifers, the ability to synchronize and get proven calving-ease genetics — that is where we see the most use of AI today,” said Altenburg. “Then you can use that over into the cow herd, of course.”

Improvements in growth traits, carcass merit and replacement heifers are only the start, he said.

“It’s a stepping stone of just how much the genetics are being utilized more and more to incorporate things like carcass traits to harvest cattle with outstanding carcass merit to enhance the eating quality so that our producers and consumers enjoy that benefit,” said Altenburg.

The large variety of genetics available with AI shouldn’t intimidate producers, he said. One strategy is to narrow choices by selecting for specific EPDs (expected progeny differences).

“The use of EPDs and the database from breed organizations have extended the use of highly proven sires,” said Altenburg. “DNA-marker-assisted selection is the next step.”

AI-sired calves often carry many advantages, too, such as the genetics of bulls with the total package.

“It allows you to improve the reproductive efficiency of your cow herd,” said Lorna Marshall, Select Sires vice-president of beef genetic programs.



PHOTO: THINKSTOCK

“We shorten your calving interval, we get more of those cows to calve in the first 21 days.

“The other advantage is that it lets you select genetics that are going to fit your marketing environment as well as your feed environment,” she said.

Fines now an option for pig traceability enforcement

Enforcement so far has been focused on ‘education’ for producers

STAFF

Canadian hog producers who don’t follow the federal requirements for animal identification and tracking of animal movements could now be fined for non-compliance, though it’s expected such fines would be a “last resort.”

The Canadian Food Inspection Agency says notices of violation could be issued “with or without monetary penalties,” CFIA said.

PigTrace, the council’s national traceability program, has been mandatory since July 2014, since which about 11,000 locations have been registered and over 1.2 million “movement events” recorded. It requires all pig and wild boar farmers and pet owners, as well as the animals’ “custodians” — such as auction markets, transporters and breeders — to keep records and report the movement of animals under their care.

CFIA’s traceability enforcement has so far “focused on education,” the Canadian Pork Council said, but agency inspectors now have the discretion as to what type of enforcement is needed.

“In general, education and verbal notices will occur for a first offence. A repeat offence would result in a letter of non-compliance, and if there are enough repeat offences, a financial penalty may be issued,” the council said. CFIA “may also seek prosecution in the most severe cases.”

If issued, a fine for non-compliance with most PigTrace requirements is expected to be classed as a “minor violation,” worth up to \$1,300, the council said. But fines are rare, it added. For example, CFIA issued just 16 financial penalties in 2015 for non-compliance in offences involving cattle, sheep and/or bison traceability rules.

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Overcrowded feed market eats into profitability

Alberta’s feed grain market is overcrowded with sellers and driving prices lower in the near term.

“Farmers keep asking if there’s a lot of grain out there, and that’s not really the main reason markets are falling off,” said Jared Seitz of Agfinity Inc., an Alberta-based online brokerage.

Farmers are eager to sell feed wheat and barley in order to free up bin space for new crop, he said, which is proving difficult in a market where there’s already grain to work through.

Feed barley was going for about \$150 to \$155 delivered per tonne in Calgary through to Lethbridge in late August. Old-crop feed wheat is between \$180 and \$190 per tonne.

Seitz said he expects those prices to stay into late October and the beginning of November.

Wet weather has reduced quality in the Canadian grain crop, which could add additional pressure to the feed wheat and barley markets.

“As a long-term thing there’s just going to be more feed grain to work through,” Seitz said.

Demand for grain that is available to move has been consistent, which means buyers are willing to pay better prices for old-crop loads, he said.

“That demand is for anything that can actually ship when needed.” — *CNS Canada*

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- **CDC Arras** on August 1, 2017
- **Flanders** on August 1, 2017
- **Somme** on August 1, 2017

As of August 1, 2017, the flaxseed varieties listed above will be removed from the Canadian Grain Commission's variety designation list.

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Once a jolly SwagBot

Aging Aussie drovers go high tech with in-development robot

BY COLIN PACKHAM
SYDNEY/REUTERS

Australia’s newest drover is a far cry from a man with a big hat, a horse, and fancy boots.

Meet SwagBot — the world’s first robot designed to round up livestock — currently being developed by Australian scientists to roll across the landscape in aid of the country’s farmers.

Australia is the world’s third-largest cattle exporter but with the age of producers creeping higher, and cattle stations averaging about 400,000 hectares — nearly four times the size of Hong Kong — rearing livestock can be difficult, even with a sufficient number of cowhands.

A labour shortage makes the task harder though, and threatens Australia’s hope of boosting its livestock output to profit from rising Asian demand for red meat.

SwagBot is the answer, according to Prof. Salah Sukkarieh, who heads the research team developing the robot.

“The cost of technology has dropped quite significantly,” he said. “Because of that drop in cost, agriculture has opened up as another area where robotics could be used because there are very low margins in agriculture.”

The contraption — a box of electronics supported by four independently moving legs attached to wheels — is omnidirectional, navigates over obstacles, even across water, and can be remotely controlled by farmers as it herds cattle.

Additions to SwagBot’s capabilities are also planned. It will soon have sensors that can detect pasture health and determine if an animal is sick or in distress.

Technology offers the best hope to arrest Australia’s slowdown in agricultural productivity, analysts said.

“Getting good, reliable labour is a problem, and the further you get away from a capital city, the harder it gets,” said Phin Ziebell, an agribusiness economist with the National Australia Bank.

“If the robot can be cheaper than humans, too, farmers will be very keen.”



SwagBot is the world’s first robot designed to round up livestock.
PHOTO: AUSTRALIAN CENTRE FOR FIELD ROBOTICS, UNIVERSITY OF SYDNEY

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Brazil’s lack of secure property rights stoking conflict, deterring investment

A recent report says there has been more than 15,000 conflicts over land in the last 20 years and more than 700 deaths

BY CHRIS ARSENAULT
RIO DE JANEIRO/THOMSON REUTERS FOUNDATION

In Brazil’s Amazon, where no one knows who exactly owns a swathe of territory the size of Ukraine, a lack of formal property deeds is causing conflict, greater deforestation and environmental damage, researchers said on Tuesday.

An area of 60 million hectares in Brazil’s Amazonas state, 40 per cent of the state’s total area, is classified as vacant public land and lacks formal title deeds, the Climate Policy Initiative (CPI) said.

Without clear titles proving land-ownership, farmers have less incentive to make new investments, improve productivity or protect the environment, said the CPI, a San Francisco-

based group with operations in Rio de Janeiro.

“There are consequences for the climate, the environment and the economy due to this lack of land tenure,” CPI project manager Rita Damasceno said.

“People are actually dying because of this issue.”

A lack of property rights has led to more than 15,000 land-related conflicts over the past 20 years in Brazil, leading to more than 700 deaths, the report said.

In 2014 alone, nearly 100,000 families were affected by land conflicts covering an area of more than eight million hectares.

When it comes to securing land rights, Brazil ranked 64 out of 128 nations on the 2016 International Property Rights Index.

The lack of a central, integrated database of who owns different pieces of land in Latin America’s largest country is part of the reason for Brazil’s poor score, the CPI said.

It also said that 11 federal government bodies were responsible for administering different aspects of land property rights leading to an inefficient system.

The lack of secure property rights was most acute in the Amazon and other rural areas, the report said.

In the Brazilian states of Para and Piaui fewer than half of rural properties are formally registered with the government, deterring farmers from plowing money into their land and curbing efforts to fight poverty and boost economic growth, it said.

Brazilian officials have made some progress in improving land rights in

“People are actually dying because of this issue.”

RITA DAMASCENO

recent years through the Legal Land Program which has provided about 20,000 title deeds to Amazon farmers, the CPI said.

Communication between officials at different government agencies responsible for registering land has also improved, Damasceno said, although progress has been slow.

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2011 NH CR9090, 1214/853hrs, elevation, loaded, guidance	\$289,000
2011 Case IH 9120, 1280/980hrs, duals.....	\$265,000
2011 Case IH 7120, duals, Guidance,PU, 1000/800 hrs.....	\$249,000
2011 Case IH 9120, 1042/840 hrs, guidance, 2016 PU, fine chopper.....	\$269,000
2011 NH CX8080, 972/698 hrs, luxury, fridge, 520 duals, HID lights.....	\$239,000
2009 Case IH 6088, YPM, Leather, Ext wear, 950/750 hrs	\$195,000
2009 NH CX8080, L/A, 1766/1255 hrs	\$189,000
2008 Case IH 7010, duals, fine cut chopper, L/A, 1661/1249 hrs	\$185,000
2007 Case IH 2588,2500/1950 hrs, duals, Y/M, Chopper, HID	\$149,000
2007 NH CR9070, 900 singles, L/A, 2200/1700hrs	\$139,000
2007 Case IH 2588, 2500/1746 hrs,chopper, HID, Duals	\$149,000
2007 NH CR9070, L/A, 1768/1430 hrs	\$199,000
2006 NH CR960, 2300/1900 hrs, 800 singles, work done in 2015	\$119,000
2006 Case IH 8010, 2500hrs, hopper top, singles.....	\$159,000
2004 Case IH 8010, 2006 2016, L/A, singles, 2663/1968 hrs.....	\$169,000
2004 Case IH 2388, AFX rotor, chopper, AFS, 2357/2028 hrs., L/A, 2015 swathmaster PU	\$99,000
2003 Case IH 2388, 2569/1992 hrs,L/A, PU Header	\$95,000
1999 Case IH 2388, hopper top,4100/2876 hrs, 1015 PU header, L/A	\$89,000
1995 gleaner R62, 3472/2588 hrs, deutz engine	\$29,000
1986 Case IH, 1680, 4200 hrs, PU header.....	\$22,900

USED HAYBINES

1999 NH 1475, 18ft.....	\$11,999
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USED 4WD TRACTORS

2014 Case IH 600, loaded, 920 hrs	\$439,000
2005 Buhler 2145, loader/grapple, 20.8/42 tires, 6647 hrs, 4 remotes.....	\$69,000
2004 JD 9520, 800 R38 duals, weights, HID, diff locks	\$189,000
2001 Case IH 440Q, 5540 hrs, two tracks poor, 4hyds	\$129,000
1995 NH 9880, 4 Hyds, 5330 hrs, outback gps, 20.8/42 duals	\$80,000
1995 Case IH 9270, 4970 hrs, STD, 20.8/38 duals, 4 remotes, Guidance	\$85,000

USED HEADERS

2014 Case IH 3162, 45', auger, transpeed.....	\$89,000
2012 Macdon FD70, 45ft, auger, transport, JD Adapter	\$69,000
2012 Macdon D60, 40ft,tran,aguer,cr adapter.....	\$59,000
2011 Case IH 2152, 40ft,SKD,auger,transport, AFX adapter,	\$65,000
2010 Case IH 2152, 45 ft, auger, transport, aft & adapter	\$59,000
2009 Case IH 2152,35',transport, AFX adapter.....	\$49,000
2009 NH, 94C-36, 36', PU Reel, transport, cr adapter.....	\$49,000
2009 NH 94C-36, 36ft PU reel, transport, cr adapter	\$49,000
2008 MacDon D60, 40 ft, adapter, auger, trans	\$49,000
2005 NH 94C-30, 30 ft hyd fore/aft.,trans, gauge wheels	\$39,500
1994 MacDon, 960-25, 30ft, tr adapter.....	\$15,000

USED BALE PROS

2011 Highline 650	\$15,000
2007 Highline 800, left hand discharg.....	\$13,900

USED ROUND BALERS

2004 New Holland BR780, standard pickup, 540 pto, 4 new belt with it, auto wrapped	\$16,900
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USED HARROWS

2010 Degelman strawmaster, 82', hyd adjust, 24" tine	\$43,000
1994 Degelman, 70ft, mechanical adjust, one yr old tines.....	\$21,000

USED SPRAYERS

2012 Case IH 3330, 100ft, Aim, 2 sets tires, autoboom, accuboom, 1300 hrs	\$269,000
2012 Case IH Sprayer 4430, 120ft, viper, aim, 2 set tires, rev fan, 1675 hrs	\$259,000
2011 Case IH Sprayer 3330, 100ft, aim, 2 sets tires, dividers, autoboom, etc	\$225,000
2009 Case IH 4420, 120 ft, Aim, 2 sets tires, viper, 2550 hrs.....	\$199,000
2009 Case IH 4420, Guidance, 120ft, Aim, auto box,2 sets tires, 2200 hrs	\$199,000
2003, Brandt,SB4000,90ft,autorate, high clearance	\$25,000
1995 Tyler Patriot XL, 5147 hrs, 750 gal, 90' booms, 12.4/38 tires, 3 way nozzle bodies	\$39,000
1994 Tyler Patriot XL, 75ft, 5500 hrs, ex steer/500	\$39,000

USED AIRDRILLS

2011 Case IH PH800, 60on10, DS, VR, TBT 2010 3430	\$200,000
2009 Morris Contour, 47', 10", 3340 TBT FC Tank, DS.....	\$119,000
2009 Morris Contour, 60', 10", TBT, new book/knives	\$129,000
2009 Morris Contour, 71 ft, 12", 2011 8370 TBT, 3 tank, NH3 kit, blockage.....	\$169,000
2007 Seedhawk SH60-10, 60', 10", NH3 kit, TBT 3380 tank, V/R.....	\$129,000
1997 Bourgault 4300 Tank, DS	\$35,000

USED DISCS

2010 Lemken, Rubin 12S/1200,40ft new blades.....	\$120,000
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Book tells the tales of small-town doctors

Stories capture the spirit, innovation, and resilience of rural doctors and the communities they serve

BY LORRAINE STEVENSON
STAFF

Doctors can't talk about their work, but when they write about it, the stories they tell can make you laugh and cry — and see their profession in a whole new light. Dr. Paul Dhillon realized those stories weren't being told after assuming his post as a family physician.

He works for the Saskatchewan Medical Association, providing relief services for other physicians, spending his days traveling to small rural and remote communities throughout Saskatchewan and the Northwest Territories.

His patients were amazing people, and while he learned to cope with the solitude, long hours and intense demands of his job he was moved to write a few stories of his own. Stories like the one about presenting a birthday cake to a farmer, soon to die from cancer, who'd been too busy most of his life to bother with birthdays.

A friend encouraged him to collect and publish other rural doctors' stories too, said Dhillon.

The result is *The Surprising Lives of Small-Town Doctors*, edited by Dhillon and published by University of Regina Press. It contains 40 stories from doctors describing what it means to be a rural physician somewhere in Canada.

"These stories are normally only shared physician to physician," said Dhillon in an interview.



Dr. Paul Dhillon is editor of a new book of stories written by 40 rural Canadian physicians. The book was launched this past spring and is published by University of Regina Press. PHOTO: SUPPLIED

"I think they give a really honest and sometimes harsh insight into what it's like being not necessarily someone of importance, but with a really important job in the community and the stress associated with it."

For one thing, being the local doctor can be a lonely experience, says Dhillon. Doctors have few release valves for the stress they experience on the job, and that's especially so for rural physicians.

"You're really sort of isolated. You have friends, but you're never going to be able to talk about the stressful things you deal with at work," he said.

Doctors also work exceptionally long hours and feel intense pressure when the

health of an entire town or region is depending on them.

But those who set down their stethoscopes and penned a story for this volume aren't describing just the challenges, stress, long hours and/or even frightening experiences of their rural practices. The book tells compelling stories of some of the most profound and pivotal moments in their careers.

In short, it's a glimpse into what being a rural doctor is really like, says Dhillon.

"Ultimately, physicians choose that path and they get huge amounts of fulfilment from their work as well," he said. "You wouldn't put in a 120-hour week and think it's normal if you didn't really enjoy the work. I think that comes out of the book as well."

Dhillon said he hopes the book will help medical students who often shy away from becoming a general practitioner in a rural area to find out what this part of the profession is actually like, rather than what they imagine it might be.

"To me that's the greatest job in the world, to be a GP, especially in rural areas," he said. But many young doctors would rather become specialists and practise in larger urban centres working with other medical professionals.

Dhillon hopes to publish findings from some additional research he's now doing into the transition from medical school into rural practice, asking medical students to share their thoughts and concerns about doing so.

"My current research is looking into how comfortable physicians are working in rural areas and why they might actually be hesitant to work in rural areas," he said.

The research will try to actually quantify the workload of a rural physician, and how often they experience traumatic events like major car accident with multiple victims. New doctors often express fear about having to handle those kinds of things as a solitary physician.

"We are trying to figure out if there are real and/or perceived fears of going straight into rural practice after training," said Dhillon.

The Surprising Lives of Small-Town Doctors is also a helpful read for those charged

with the work recruiting and retaining rural physicians.

The rural physician shortage is not something fixed with money alone, although financial incentives are important, especially for young graduates carrying debts from medical school, said Dhillon.

"I don't think they are the full picture," he said. Communities that pay closer attention to the broader needs of a physician, and doing things like finding opportunities for doctors' spouses if they move there, tend to make more successful matches.

Recruitment agencies are more attentive to these kinds of things nowadays, he added.

However, it's a natural fit for those who know what rural life is like to be inclined to live and work there. The aim with this book — and ongoing research — is to get more young doctors excited about a rural practice.

Dhillon says he discovered it for himself, after growing up in the city.

"When I go back now, and sit in traffic for 45 minutes it's depressing," he said. He once calculated if he commuted an hour to work every day, he'd spend 520 hours a year at it.

"That's two months a year, literally sitting in my car."

"When I'm working in some of these small communities, why would I drive? I'll just walk. And I go home for lunch with my wife every day. Stuff like that is hugely important for my quality of life."

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Eat your package

Edible packaging could reduce waste by improving food storability

BY ALEX WHITING
ROME/THOMPSON REUTERS FOUNDATION

Scientists are developing an edible form of packaging which they hope will preserve food more effectively and more sustainably than plastic film, helping to cut both food and plastic waste.

The packaging film is made of a milk protein called casein, scientists from the U.S. Department of Agriculture said at a meeting of the American Chemical Society.

The milk-based packaging does not currently have much taste, but flavours could be added to it, as could vitamins, probiotics and other nutrients to make it nutritious, they said.

The film looks similar to plastic wrapping, but is up to 500 times better at protecting food from oxygen, as well as being biodegradable and sustainable, the researchers said.

"The protein-based films are powerful oxygen blockers that help prevent food spoilage. When used in packaging, they could prevent food waste during distribution along the food chain," said research leader Peggy Tomasula.

Between 30 and 40 per cent of food produced around the world is never eaten because it spoils at some time after harvest or during transport, or gets thrown away by shops and consumers.

Halving food waste by 2030 was included as a target in global development goals adopted by world leaders in 2015.

The U.S. scientists also want to reduce the amount of plastic that is thrown away.

"We are currently testing applications such as single-serve, edible food wrappers. For instance, individually wrapped cheese sticks use a large proportion of plastic — we would like to fix that," said Laetitia Bonnaillie, co-leader of the study.

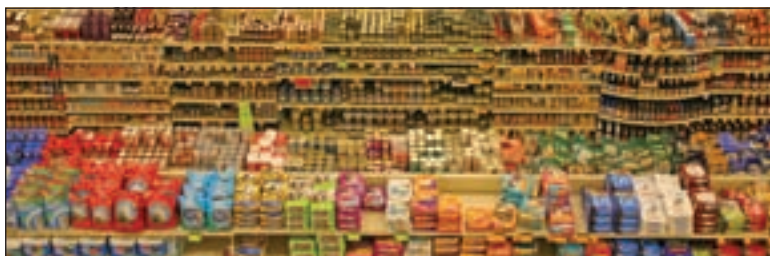


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HEARTLAND

Community news
and events from
across the province

Harvesting good ideas from farmers across North America

BY DIANNE FINSTAD
AF CONTRIBUTOR

During this busy summer's growing season at The Jungle Farm, Blaine and Leona Staples also found themselves harvesting good ideas from a winter business trip.

Their U-pick, greenhouse, strawberry patch, market garden, and 'agri-tainment' operation near Innisfail has been constantly expanding since the couple came back to her family's farm in 1996. A half-acre of strawberries has grown to 17 acres and a "couple of rows" of veggies to 12 acres. The farm now employs 15 to 20 summer staff and half a dozen seasonal workers from Mexico (plus a year-round HR and marketing employee).

One of the tools that has been helpful has been membership in the North American Farmers Direct Marketing Association (www.farmersinspired.com), which puts on tours featuring innovative direct marketers in a different region of North America each year.

The Staples first attended an NAFDMA tour in California in 2003, taking advantage of a scholarship for first-timers. They found it valuable enough — both in what they saw and what they learned from other attendees — that they've taken it in again every three or four years, including last winter's tour in Abbotsford, B.C.

Their first tour offered so many ideas and possibilities, it was overwhelming, said Leona, especially since at that early stage, they were just dabbling in U-pick.

"For us to even know what would be our next step was mind boggling, and it took us a few years to decide, 'OK, now we're going to try this, and then maybe we'll do this,'" she said. "By the time we went to our second one, in Wisconsin, we were much more prepared.

"Our eyes had been opened way big, and we knew that now we needed to go with some specifics in mind of what I want to see, and what questions I'm going to ask



By learning from other 'agri-tainment' operators, Leona and Blaine Staples have turned the family farm into a bustling and ever-expanding enterprise. PHOTO: JOHN DEERE

so that I can actually learn something."

Having a clear idea of what you want to do on your operation is key, she added.

"I think if you don't know what the focus is on your farm, it's really easy to grab on to something you've heard someone's done well, and run with it. Yet that idea might not be a fit here, like an apple activity in Alberta."

Still, the Staples manage to fit a lot into their spring-to-fall season, which kicks off in April when customers can come in and plant their own flower baskets and concludes at the end of October with "extreme power tool pumpkin carving." In between are a host of innovative special events, including gardening with your child; sessions on making jams and pickles; baking pies for Grandparents' Day; and a sauerkraut festival.

But agri-tourism isn't just about having innovative events to draw customers. This winter, the Staples went to Abbotsford looking for help on very specific topics and quizzed

fellow attendees (networking on the tour bus is as big an attraction as the stops themselves).

"This time we went saying we need a new point-of-sale system, so I had specific questions to ask," said Leona. "I heard what worked well and what didn't on about four or five different systems, so I know more what to ask when I go shopping. There are so many things point-of-sale can do, and it was interesting to hear how these farms were using it."

The Staples were impressed with the on-farm retail shops in B.C., and how the facilities can be used for other activities, ranging from festivals to summer camps. Visiting retail facilities was especially timely, as the couple gears up for a new retail space for their own farm.

"There was a session on on-farm buildings and planning for that, so that was good stuff," said Blaine. "We took out our design schematics and got some feedback."

Leona also came home from the tour with some great ideas from workshops on day camps and

school tours (such as a science lesson on floating pumpkins) and signage for self-guided tours.

"To me that whole education (aspect) is really a calling I have," she said. "We grew up on the farm, but know lots of people haven't had that exposure. Things that I think are second nature, or common sense, they don't know. They don't know potatoes grow underground or what a broccoli plant looks like, if we don't tell them."

Another valuable session offered ways to deal with complaining customers in a positive way. The Staples also have several attractions they attribute to ideas first sprouted from NAFDMA, including a Human Foosball game and a 60-foot-long slide. In addition to tours, members of the association also have access to a Facebook page not open to the public. It's an excellent resource for finding new ideas, asking questions of other members, or just venting, said Leona.

"Because it's a North American organization, people are really willing to share."

Considering an NAFDMA tour?

The next NAFDMA event will be held in New England in early February. If you're in the agri-tourism or farm direct marketing, and are thinking of taking this tour or a future one, here are some tips from Blaine and Leona Staples of The Jungle Farm for getting the most out of the experience.

- Know what you do well, and what you can improve on. Go with those eyes.
- Remember that you don't have to do it all at once.
- Ask lots of questions, but come ready with specific ones that will benefit your operation.
- Don't take home an idea and think you can just plunk it on your farm. Make sure it's a good fit for your operation first.

For more information, see www.farmersinspired.com or www.facebook.com/NAFDMA/. — Dianne Finstad

The Jungle Farm (www.thejunglefarm.com) continues to offer new ideas for visitors each season, such as its sauerkraut festival and always sold-out Feast in the Field dinner.

"There's lots of potential in the entertainment area, as people are looking for more family outings close to home," said Leona.

"Part of our motivation for going to the last conference is that we're going to move that way more," added Blaine. "We plan to redo our entertainment area because that doesn't require (as much) labour. So if we can't afford to grow all the fruit and vegetables down the road, then we've got a plan there."

Alberta community groups receive funding

Fifteen groups in Alberta are among the 78 rural Canadian organizations receiving \$1 million in grants from Farm Credit Canada's FCC AgriSpirit Fund this year.

The fund awards between \$5,000 and \$25,000 for community improvement projects, such as hospitals and medical centres, childcare facilities, fire and rescue equipment, playgrounds, food banks, libraries, recreation centres, and community gardens.

Nationally, 1,013 applications were received this year. Over the past 13 years, more than 1,000 projects have received more than \$10.5 million in grants.

A complete national listing of selected projects can be found at www.fccagrispiritfund.ca.

The next application period opens in spring 2017. Registered charities and non-profit organizations interested in obtaining funding can visit the website for eligibility requirements and to apply online.

In Alberta, the following projects are receiving funding:

- Barrhead and District Agrena Society: \$25,000 towards construction of an aquatic centre.
- La Glace & District Agricultural Society: \$25,000 towards replacing the community recreational centre.
- Crossfield Fire Department: \$19,500 for purchase of emergency services communication radios.
- Penhold Volunteer Fire Department: \$15,500 towards the purchase of a fire truck.
- Fort Macleod Kids First Family Centre: \$15,000 towards construction of a new children and family centre.
- Stettler Health Services Foundation: \$10,000 for upgrading delivery services and emergency room.
- Lloydminster Search and Rescue Inc.: \$10,000 for the purchase of rescue air and water drones.
- Vilna & District Agricultural Society: \$10,000 for replacement of arena roof.

- Bonnyville Health Foundation/Bonnyville Health Centre: \$10,000 towards purchase of operating room equipment.
- Kinuso and District Fire Department: \$10,000 for purchase of a fire and rescue ATV and trailer.
- Girouxville Enhancement Committee: \$10,000 for upgrading of an outdoor ice rink into a year-round facility.
- Friends of Coalhurst Elementary School Society: \$10,000 for purchase of accessible playground equipment.
- Sunnyside School: \$10,000 for construction of a new playground.
- Calmar and District Ag Society: \$7,500 for upgrading of its facility's lighting, heating, and plumbing.
- Hazel Bluff Community Agricultural Society: \$7,500 for construction of perimeter safety fencing.

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'11 NEW HOLLAND H8040/36WS,
64 hrs, Prairie Special, Swath Roller,
36' Header
\$139,000 TA



'13 MASSEY FERGUSON 9540,
Duals, Grain Tank Covers,
Chaff Spreader, GPS
\$265,000 SC



'14 NEW HOLLAND ROLLBELT 560,
Bales: 4000, Net & Twine, 2.07m Pickup, Laced
Belts, Special Crops
\$49,000 SC



'15 NEW HOLLAND 880CF,
40',
w/ Cross Auger
\$85,000 SC



'14 NEW HOLLAND CX8080,
Eng: 224, Sep: 124, 900/60R32, Mech Trap,
75mm Cyl, GPS Ready
\$369,000 SC



'10 NEW HOLLAND CR9070,
Eng: 1308, Sep: 1023, 620/70R42 Duals, Dlx
Chopper, 75mm Cylinders, Dlx Cab
\$269,000 SC



'10 NEW HOLLAND CR9070,
Eng: 1086, Sep: 733, Singles, Elec Trap,
HD Cyl, Dlx Chopper
\$209,000 MH



'14 NEW HOLLAND CR8090,
Eng: 259, Sep: 194, 14' upgrade duals, Mech Trap,
80mm Cyl, Dlx Chopper, Eng Air Compressor,
\$449,000 SC



'14 NEW HOLLAND CR8090,
Eng: 705, Sep: 519, Duals, Elec Trap, 80mm cyl,
Dlx Chopper, Elec G/T Covers, Extended Wear
Elev, HID Lights
\$359,000 SH



'14 NEW HOLLAND CR8090,
Eng: 721, Sep: 555, 620/70R42 Duals, Dlx
Chopper, 80mm Cylinders, Ext Wear Elev, HID Lights
\$409,000 MH



'14 NEW HOLLAND T9.390,
Hours: 335, 30.8R42 Duals, Radar
Ground Sensor, Monitor Display
\$265,000 TA



'16 NORBERT 7.5' X 24' STOCK TRAILER,
Gooseneck, Pewter, 3x 7000LB Axles, Pen Config:
8/8/8, Rubber Floor Mats
\$22,990 SC

AIR DRILL

2009 Case IH 700/3430	.....	\$149,000	MH
2006 Flexi-Coil 5000/4350	.....	\$75,000	TA
2008 Flexi-Coil 5500/4350	.....	\$139,000	MJ
2004 Misc 7550/4350	.....	\$35,000	SC
1997 Morris MAXIM/7240	.....	\$35,000	SC
1998 Morris MAXIM/7300	.....	\$65,000	TA
2009 New Holland P2060/P1060	.....	\$149,000	SH
2010 New Holland P2070/P1060	.....	\$189,000	MJ
2011 New Holland P2070/P1060	.....	\$135,000	SC

BALER/ROUND

2002 Case IH RBX561	.....	\$9,900	MJ
2014 New Holland 560	.....	\$49,000	SC
2008 New Holland BR7090	.....	\$23,000	SC
2009 New Holland BR7090	.....	\$24,000	SC
2011 New Holland BR7090	.....	\$32,000	SC
2012 New Holland BR7090	.....	\$32,000	MJ
2003 New Holland BR780	.....	\$15,000	SC
2003 New Holland BR780	.....	\$15,000	SC
2004 New Holland BR780	.....	\$19,000	SC
2014 New Holland ROLLBELT 560	.....	\$49,000	SC

COMBINE

2010 John Deere T670	.....	\$199,000	SH
2011 Massey Ferguson 9895 w/ 4200 Pickup	..	\$295,000	TA
2012 New Holland CR8090	.....	\$320,000	SC
2014 New Holland CR8090	.....	\$359,000	SH
2014 New Holland CR8090	.....	\$409,000	MH
2014 New Holland CR8090	.....	\$449,000	SC
2008 New Holland CR9060	.....	\$189,000	MJ
2010 New Holland CR9060	.....	\$219,000	SC

2010 New Holland CR9060	.....	\$219,000	MJ
2008 New Holland CR9070	.....	\$239,000	BR
2010 New Holland CR9070	.....	\$209,000	MH
2010 New Holland CR9070	.....	\$259,000	SH
2010 New Holland CR9070	.....	\$269,000	SC
2011 New Holland CR9070	.....	\$219,000	SH
2011 New Holland CR9070	.....	\$269,000	SH
2011 New Holland CR9070	.....	\$269,000	TA
2005 New Holland CR960	.....	\$99,000	MJ
2006 New Holland CR970	.....	\$189,000	SH
2014 New Holland CX8080	.....	\$369,000	SC
2014 New Holland CX8080	.....	\$369,000	SC
2001 New Holland CX840	.....	\$99,000	MH
2003 New Holland CX860	\$99,000	SH

DEEP TILLAGE

2012 Horsch Anderson RT370	\$85,000	TA
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DISK

2012 Buhler TD600	\$52,000	MJ
John Deere 335	\$29,000	TA

HEADER COMBINE

2010 Case IH 2142 35' W	\$49,000	BR
2013 Honey Bee 36GB 36' W	.....	\$45,000	SH
2013 Honey Bee 36GB 36' W	.....	\$45,000	SH
2014 Honey Bee GB36 36' W	.....	\$54,000	SH
2008 Honey Bee HB30 30' W	.....	\$29,000	TA
1995 Honey Bee SP30 30' W	.....	\$12,000	SC
1996 Honey Bee SP36 36' W	.....	\$15,000	SH
1998 Honey Bee SP36 36' W	.....	\$15,000	TA
2004 Honey Bee SP36 36' W	.....	\$32,000	SH
2005 Honey Bee SP36 36' W	.....	\$25,000	SC

2008 Honey Bee SP36 36' W	.....	\$35,000	SH
2011 Honey Bee SP36 36' W	.....	\$45,000	SH
1998 Honey Bee ST30 30' W	.....	\$12,000	MJ
1999 John Deere 914 14' W	.....	\$10,000	MH
2009 MacDon FD70 35' W	.....	\$55,000	SH
2010 MacDon PW7	.....	\$19,000	BR
2014 New Holland 790CP 15' W	..	\$29,000	SC
2013 New Holland 740CF 35' W	...	\$35,000	SH
2009 New Holland 74C 35' W	.....	\$29,000	MH
2009 New Holland 74C 35' W	.....	\$37,000	MJ
2014 New Holland 790CP 15' W	...	\$29,000	SC
2014 New Holland 790CP 15' W	...	\$29,000	SC
2014 New Holland 790CP 15' W	...	\$29,000	SC
2012 New Holland 880CF 45' W	...	\$60,000	SC
2013 New Holland 880CF 35' W	...	\$69,000	SC
2013 New Holland 880CF 35' W	...	\$69,000	SC
2014 New Holland 880CF 40' W	...	\$99,000	SC
2014 New Holland 880CF 45' W	...	\$99,000	SC
2015 New Holland 880CF 40' W	..	\$85,000	SC
2015 New Holland 880CF 40' W	..	\$85,000	SC
2015 New Holland 880CF 40' W	..	\$85,000	SC
2015 New Holland 880CF 40' W	..	\$85,000	SC
2004 New Holland 94C 36' W	....	\$29,000	SH
2007 New Holland 94C 36' W	....	\$35,000	SH
2008 New Holland 94C 36' W	....	\$35,000	MH
2010 New Holland 94C 40' W	.....	\$49,000	BR
2012 New Holland 94C 36' W	....	\$35,000	SC
2012 New Holland 94C 40' W	.....	\$55,000	SC
1996 New Holland 971 13' W	.....	\$4,000	MJ

MOWER CONDITIONER

2006 AGCO Hesston 1275	.....	\$17,000	MJ
1990 John Deere 1600	.....	\$6,500	BR
1983 New Holland 114	.....	\$4,900	SC
1996 New Holland 1475/2200	.....	\$14,000	SH
1999 New Holland 1475/2328	.....	\$15,000	SC
2011 New Holland H7150/HS18	....	\$32,000	SC
2011 New Holland H7460	\$32,000	MJ

RAKE/WHEEL

2015 New Holland 1225	\$23,000	SC
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SPRAYER

2009 New Holland S1070	\$39,000	MJ
2010 New Holland S1070	\$29,000	TA
2012 New Holland S1070 (W/B)	..	\$25,000	MH

TELEHANDLER


2012 Dieci AGRITEC 35.7	\$90,000	BR
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TRACTOR

2002 Misc 2360	\$115,000	SC
2010 New Holland 3040	\$23,000	SC
2014 New Holland BOOMER 41	\$19,900	MJ
2013 New Holland T4.105	.....	\$65,000	SC
2014 New Holland T9.390	.....	\$265,000	TA
2003 New Holland TC21DA	.....	\$15,000	SC
2007 New Holland TC35DA	.....	\$21,000	SH
2007 New Holland TG305	.....	\$119,000	TA

WINDROWER

2008 New Holland H8040/HB30	..	\$65,000	SC
2011 New Holland H8040/WS36	..	\$139,000	TA
2011 New Holland H8040/WS36	..	\$139,000	TA



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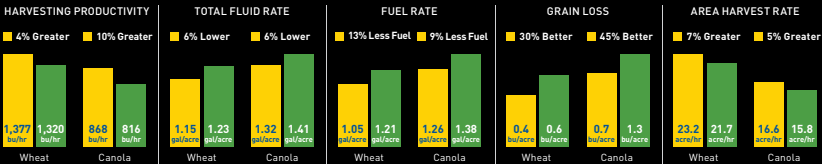


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John Deere 7200R,
2012, 475 hrs



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2011 NH CR9070, Auto Steer, 900 hrs. **SOLD**

2007 NH CR9070, 1516 rotor hrs **\$165,000**

2013 CR8090, duals, stone trap, auto steer, 770 Thrs. **\$299,900**

2009 CR9080, duals, 1700Thrs **SOLD**

USED HEADERS

2010 NH 36' 94C, draper header ... **\$54,000**

2011 NH 94C, 36' DK **\$49,000**

2014 MacDon CA25 Adapters, configured to CNH. **\$18,900**

USED TRACTORS

2012 John Deere 7200R, 475 hrs **\$210,000**

2012 Boomer 50 Compact Tractor, **\$28,000**

NH TC 18, compact hydro, 4WD, 60 belly mount deck **\$7,200**

2003 McCormick MC110, 4188 hrs, ldr. **SOLD**

1996 Agco Allis 6690, 3192 hrs, ldr. **\$23,550**

USED SWATHERS

2003 MacDon 9352, 30' DBL, 2800 hrs. **\$42,800**

MacDon 4952i, C/W 30' header **\$62,500**

MacDon 2940, C/W 30' header. **\$48,000**

2012 MacDon M105, c/w 30' D65 **\$125,000**

USED SPRAYERS

2011 NH SP365F, 1600 gal, 120', Auto Steer **\$282,500**

USED FORAGE & HAYING

NH FR9080 SP Harvester, c/w corn header PU head and processor **\$210,000**

2002 NH 688, 10000 bales. **\$14,500**

2011 NH BR7090, 9700 bales. **\$21,000**

MISC

Kongsilde grain vac, **Call**

United Utility trailer tilt deck 2 #7000 lb axles **Call**

TILLAGE

2010 Agrex Maxi, 10 tonne fert spreader **\$35,000**

2015 NH ST830, 62' cultivator as new 9" spacing **Call**

Flexi Coil 3450, var rate air cart TBH **\$38,000**

1997 Flex-Coil 5000, 51', 9" 4" rubber packers **\$19,900**

2000 New Holland P2070, precision drill 50' **Coming In**



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770 hrs



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New Holland FR9080 SP Harvester,
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1961 COMANCHE 250, 2900 hrs, 1800 SMOH, 400 STOH, fresh annual, great flyer, \$39,000.Charlie 306-221-3800 Allan SK

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1948 MH 44, 1949 JD R, 1952 JD G, 1941 JD B, 1958 IHC 350, 1948 Farmall Super A, 1948 Farmall M, 1956 Caterpillar D7 and 17A, 1945 Allis Chalmers WD45 (parts). All running, some restored. 403-308-0766, Picture Butte, AB.

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2014 GMC SLE 1/2 ton, crewcab, 4x4, 5.3L, V8, loaded, Black, 147,541 kms, Stk#G1503A, \$26,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

2013 GMC SLT 1/2 ton, crewcab, 4x4, 6.2L, V8, loaded, leather, 119,011 kms, Stk#G1517A, \$40,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

2013 FORD F150 Platinum, 4x4, Super-Crew, 5.0L, loaded, Nav, 43,114 kms, Stk#G1211A, \$40,995. 1-800-667-0490. www.watrousmainline.com DL#907173.

2011 CHEV LTZ 1/2 ton, crewcab, 4x4, GFX 5.3L V8, loaded, leather, 65,619 kms, Stk#G1110B, \$32,995. 1-800-667-0490. www.watrousmainline.com DL#907173.

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2014 GMC SLT 1/2 ton, crewcab, 4x4, 5.3L, V8, loaded, leather, 116,951 kms, Stk#G1282A, \$35,395. 1-800-667-0490. www.watrousmainline.com. DL#907173.

2013 RAM 2500 Laramie, Crew, 98,000 kms, \$42,900; 2012 Ram 4500, C&C, dsl., \$36,999; 2012 GMC Duramax, C&C, \$28,900; 2006 Ram 2500, Cummins dsl., Quadcab, \$13,999. 1-800-667-4414, Wynyard, SK. www.thoens.com DL #909250.

2014 GMC DENALI 1/2 ton, crewcab, 4x4, 6.2L, V8, loaded, NAV, 40,020 kms, Stk#G1302, \$45,995. 1-800-667-0490. www.watrousmainline.com DL#907173.

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2015 GMC SLT 1/2 ton, crewcab, 4x4, loaded, leather, Black, 73,615 kms, Stk#G1145A, \$41,995. 1-800-667-0490. www.watrousmainline.com DL#907173.

GRAIN TRUCKS 1675

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2007 IH 9400, with Cummins 435 HP 10 spd. AutoShift, 20' box, alum. wheels and tanks, exc. cond., certified, \$67,500; **2007 Mack**, 460 Mack eng., 12 spd. auto. trans., 3-way lockers, alum. wheels, good tires, 20' BH&T, rear controls, pintle plate, \$69,500; **1990 Kenworth T600**, 450 HP Detroit, 10 spd., alum. front wheels, good tires, pulls good w/1996 36' Cancade 2 hopper grain trailer- nice shape, \$35,000. Trades accepted. Call Merv at 306-276-7518, 306-767-2616, Arborfield, SK. DL#906768

2007 KENWORTH, C15 CAT, 13 spd., UltraShift; 2007 Freightliner, Mercedes, 13 spd. UltraShift. Both have new grain boxes with electric tarps and are Sask. Safetied. 306-270-6399, Saskatoon, SK. DL 316542. www.78truxsales.com

2009 FREIGHTLINER, 10 spd Eaton auto-shift w/clutch, DD15 Detroit w/20' BH&T; 2008 TANDEM, 7600 IH, Cummins, 10 spd., new BH&T; 2004 Pete 330 single axle, Cat, Allison auto. w/new 16' BH&T. Ron Brown Imp. 306-493-9393, www.rbisk.ca

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SEMI TRUCKS 1677

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SEMI TRUCKS1677



1992 GMC Topkick Crane truck, Atlas 7600 crane, 19' boom, 18' flat deck, Eaton 10 speed, 427 Tonawanda engine, 336,927 km....\$7,980
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REDUCED



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SPORT UTILITIES1682

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2008 SUBARU OUTBACK Ltd., Turbo, AC, leather, 55,000 kms, stk#SK-U0901. Call for our best price! 1-877-373-2662 or www.subaruofsaskatoon.ca DL #914077.

2015 GMC ACADIA SLT1, AWD, 3.6L, V6, loaded, Nav, heated leather, 48,853 kms, Stk #G1243A, \$39,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

2013 GMC TERRAIN SLT2, AWD, 2.4L, I4, loaded, sunroof, Grey, 61,235 kms, Stk#G1516A, \$25,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

SPORT UTILITIES1682

2011 FORD ESCAPE, silver, price reduced \$9999. Call 1-800-667-4414, Wynyard, SK. www.thoens.com DL #909250.

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2012 GMC ACADIA Denali, AWD, 3.6L, V6, loaded, sunroof, leather, 104,285 kms, Stk#G1439A, \$32,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

2014 BUICK ENCLAVE, AWD, Convenience 3.6L, loaded, cloth, Iridium, 68,628 kms, Stk #G1280A, \$32,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

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VARIOUS1685

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GRAIN AUGERS
4115

BINS
4003



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BINS
4003



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4116

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8 AND 14 BALE WAGONS in stock, Morris and Inland. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

HARD TO FIND! John Deere 346 square baler, nice shape, \$5500 OBO. 780-888-7152, Loughheed, AB.

MORRIS 1400 BALE PICKER, heavy axles and rims, \$15,000. Call 306-528-7712, Nokomis, SK.

NEW IDEA 4865 5x6, hyd. PU, rubber mount teeth, 2300 bales, shedded, good. 306-944-4325, 306-231-8355, Bruno, SK.

MOWER CONDITIONERS
4142

2010 DEGELMAN SA1820 Sidearm, 1000 PTO output, clearance lights, good condition, \$11,900. Call 1-888-278-4905. www.combineworld.com

SWATHERS
4145

1995 30' MACDON Premier 2900, PU reel, 960 MacDon header, 21.5-16.1 tires, exc. cond., \$24,500. 306-861-4592, Fillmore SK

2010 MF 9430, 36', 750 hrs., shedded, very good, \$69,000. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2014 MACDON M155 w/35' draper header #W22653A, 129 hrs., 35' D65 triple delivery header, \$161,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca



2016 MACDON M155, 40', DK, DC, transport, last one before DEF. Call Cam-Don Motors Ltd. 306-237-4212, Perdue, SK.

1998 35' WESTWARD 9300, 960 header, PU reel, turbo, big tires, excellent cond., \$29,500. Call 306-861-4592, Fillmore, SK

VERSATILE 400, 18', batt reel; **JD 580** 25' PT swather. Located near Shellbrook, SK, call 780-618-6031, 306-747-3447.

RETIRING: PREMIER 30' PTO, autofold, batt reels, very good condition, \$1800. Call 306-638-4550, Findlater, SK.

2006 CASE/IH WDX1202 w/36' draper header #W228168, 1057 hours, \$63,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

2013 MF 9725 w/30' draper header #N22068A, 174 hrs., 30' center delivery \$98,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

2012 NH H8060 w/36' draper header #HW3388A, 509 hrs., H836 header, \$105,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

2005 9220 30' MF swather, 1000 hrs., double swath, excellent, \$55,000. Call 306-567-8614, Davidson, SK.

1997 CIH 6000 w/25' draper header #PN3020D, 3893 hrs., 25' shift header, \$15,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2011 30' 1203 Case/IH SR PU reel and transport, \$77,000; 2002 30' 9250 Westward SR PU reel, \$40,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2012 MACDON M155 w/30' draper header #W22651A, 236 hrs., D50 30' single reel \$123,600. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

8100 HESSTON, double swath, PU reel, new canvases, guards and knife, field ready. 306-322-4755, Rose Valley, SK.

2013 MF 9740 w/36' draper header #W22657B, 180 hrs., 36' center delivery header, \$127,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2005 NH HW325 with 36' draper header, #HN3119A, 1926 hours, \$56,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

1999 MACDON 2920 w/30' draper header #W22404C, 2660 hrs 30' 962 header, center delivery, PU reel, \$29,900. Humboldt, SK, 306-682-9920 or www.farmworld.ca

CASE/IH 736 36' swather, not used in 12 years, excellent, shedded, \$4000. Call 306-628-4267, Liebenenthal, SK.

1995 CASE 8820, 30' header, PU reel, 21.5-16.1 tires, excellent condition, \$17,500. Call 306-861-4592, Fillmore, SK

1983 VERSATILE 400, 18', UII alum. PU reel, custom made hyd. throat, roller w/fingers, Roto-Shear, cab, tinted glass, new knife, shedded, nicest well maintained one around. 780-914-6340, Lamont, AB.

1997 MACDON 2930, dual range, turbo, Cummins, 3100 hrs., 972 header, 21', dbl. knife drive, triple delivery, PU reel, gauge wheels, \$35,000. 403-597-3431, Clive, AB.

2007 MF 9430 w/30' draper deader #W22408A, 1108 hrs, 30' center delivery \$59,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

PICKUP REEL PARTS WAREHOUSE: MacDon, UII, JD, Hart Carter, CNH, AGCO. We distribute parts for all PU reels. Call 1-888-278-4905. www.combineworld.com

SWATHERS
4145

2012 MF WR 9740, 36', 400 hrs., \$99,000. 0% for 36 months OAC. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2009 IH WD1203, 1853 hrs., Outback AutoGuide, 25', 30' and 36' headers available, \$49,800. Call 1-888-278-4905. or visit: www.combineworld.com

MF 9420 SP 30', 989 hrs., UII PU reels, \$55,000; **JD 590** PT, 30', batt reels, exc. condition, \$4500. Both shedded, field ready. Retired. 306-493-7871, Harris, SK.

SWATH ACCESSORIES
4148

10' PULL BEHIND swath roller, exc. cond. 306-460-9440, Smiley, SK.

COMBINES
4160

2008 8010, 1398 sep. hrs., long auger, loaded, new rotor, 2016 PU header, new rotor and concaves, shedded, premium condition. Terre Bonne Seed Farm, 306-921-8594, 306-752-4810, Melfort, SK.

1996 2188, 1015 PU and 30' auger header, 2800 sep. hrs., 3287 engine hrs., exc. cond., always shedded, \$65,000. Will trade for bred bison. 780-888-2245, 780-888-1217, Hardisty, AB.

2011 CIH 8210 w/3016 PU, PN3305B, \$250,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2014 CASE/IH 7130, 800 singles, deluxe cab, lateral tilt, elec. folding hopper cover, Stk #014705, \$279,000. Saskatoon, SK., 1-888-576-5561. redheadequipment.ca



2- 1982 IHC 1480 combines, recent new 12' pickups, shedded, best of maintenance & service. 403-804-4737, Strathmore, AB.

2013 CASE/IH 7230, full auto-guidance, 620 duals, hyd. folding tank cover, Stk #018867, \$325,000. 1-888-576-5561, Swift Current, SK. redheadequipment.ca

2003 CASE/IH 8010, c/w 2016 PU header, 900 singles, rear wheel assist, Stk #016932, \$119,000. 1-888-576-5561, Saskatoon SK. www.redheadequipment.ca

CASE 2388 w/pickup header, chopper, AFX rotor, field monitor, Greenlighted, exc. condition, \$57,000. 403-347-2266 or 403-848-4827, Red Deer, AB.

2000 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.

1999 CASE/IH 2388 with Swathmaster PU, #HN3133B, 2819 hrs., 2129 threshing hrs, \$68,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

2008 IH 2152 40', rigid draper, DKD, AHHC, pea auger, transport, hyd. tilt, nice header, for CNH, other kits avail., \$44,800. 1-88-278-4905. www.combineworld.ca

2009 7120 CASE/IH w/2016 header, \$165,000; 2007 7010 Case/IH, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2010 CASE/IH 7120, 2016 PU header, long auger, always shedded, field ready, 1167 hrs., exc. cond., \$175,000 OBO. Call Jim at 403-575-0069, Coronation, AB.

2010 IH 8120, 1793 hrs, duals, AutoSteer w/Pro600 monitor, 3 spd. rotor, PU's available with warranty, \$134,800. 1-888-278-4905. www.combineworld.com

1994 CIH 1688, internal chopper, straw and chaff spreader, hopper topper. Recent repairs incl: all shaker bushings, hydro pump, top and bottom rotor bearings and rear tires, shedded, field ready, \$15,000. 306-744-7663, Saltcoats, SK.

1979 IH 1460 combine, field ready, \$7000 OBO; Versatile PT #10 swather w/extra parts, \$600 OBO. Call or text Les 403-548-5758, Golden Prairie, SK.

1994 CASE/IH 1688, 5875 eng. hrs., spec. rotor, through shop in 2012, \$13,000. Call 306-231-8999, Humboldt, SK.

2015 CASE/IH 9240, c/w 3016 PU header, 620 duals, HD lateral tilt, Stk #019788 \$510,000. 1-888-576-5561, Saskatoon, SK. or view www.redheadequipment.ca

CLAAS 106 DOMINATOR, fair shape, 2 spd. cyl., Victory PU, \$3000. Same as MF 8460. Call 403-362-1841, Brooks, AB.

2012 CLAAS LEXION 770, 300 sep. hrs., fully loaded, \$320,000 OBO Cdn; 2011 Claas Lexion 760, 700 sep. hrs., fully loaded, \$265,000 OBO Cdn; 2010 Lexion 590, fully loaded, 500 sep. hrs., \$220,000 OBO Cdn. All in excellent cond., used only in small grains; 2- 2000 Lexion 480 combines, \$39,000 each OBO Cdn. 218-779-1710, Bottineau, ND.



2006 Lexion 580R 1308 hours, duals, lateral tilt, 3D sieve, big rears, CAT C12 engine...\$109,800

1-888-606-6362. www.combineworld.com

CAT COMBINE PARTS salvaging 670, 590, 580R, 485, 480, 470, 460R. New additions regularly. Call 1-888-278-4905. www.combineworld.com

FORD/NIH
4172

2004 NH CR9070 with Rake-Up, #HN31798, 3600 hrs., 2308 threshing hours, \$95,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

2008 NH CR9070 with Swathmaster PU, #N22195B, 2130 hrs, 1654 threshing hrs., \$172,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

1999 **TR99, 1312** sep. hrs., 1600 eng. hrs., Swathmaster PU, always shedded, w/w 973 25' flex header, on a new Rite-Way header transport, all exc. cond., \$65,000 OBO. 780-485-7700, St. Albert AB

1994 TR96, 36' HoneyBee header, PU reel, vg canvases and tires, Redekop chopper w/PU table and Sund PU, \$20,000. 306-296-4741, 306-296-4741, Frontier, SK

2005 NH CR970 with Swathmaster PU, #PN3202B, 2312 hours, \$89,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2009 NH CR9080 with Swathmaster PU, #HN3373B, 1292 hrs., 1292 threshing hrs., \$210,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

TR99, c/w 13' Swathmaster header, factory duals, MAV Redekop chopper, shedded, \$56,500. 403-749-2372, Red Deer, AB.

1994 TR97, 3500 eng. hrs, intake and exhaust valves done, Swath Master PU, Redekopp chopper, hopper topper, \$17,000 OBO. Call 306-929-4580, Albertville, SK.

2009 NH CR9070, 1798 hrs., duals, Intelliview Plus II, lateral tilt, nice condition, headers available, \$119,800 1-888-278-4905. www.combineworld.com

2005 CR960, 1670 hrs., c/w PU header, exc. cond., recent work order, field ready, \$78,500. 403-350-9088, Red Deer, AB.

2005 NH CR9060 with Swathmaster PU, #HN3375B, 2781 hrs., 2295 threshing hours, \$75,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

NH TR89, TR95-99 Redekop 4150 chopper Spreads chaff w/straw. c/w drive pulley & belt. Very good condition. New list at over \$10K. \$4000, 780-373-2628, Bawlk, AB.

GLEANER
4173

2011 GLEANER A6 with Swathmaster PU #PN3014C, 836 hours, \$255,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2004 GLEANER 475 w/Swathmaster PU, #N225110, 2750 hrs., 16' PU, \$99,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

NOW SALVAGING GLEANER \$77, low hours, duals, cab, tons of good parts! Give us a call! 1-888-278-4905. Website: www.combineworld.com

2005 GLEANER R75 w/Swathmaster PU, #N22511D, 2750 hrs., 16' PU, \$99,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

1976 GLEANER L, 24' straight cut header, duals, chopper, PU, transport, open to offers. Call 306-693-9847, Moose Jaw, SK.

JOHN DEERE
4178

WANTED: 1988 JOHN DEERE 8820 combine. Good and clean. Call 780-672-3755, Camrose, AB.

FARM CHEMICAL/ SEED COMPLAINTS We also specialize in: agricultural complaints of any nature; Crop ins. appeals; Spray drift; Chemical failure; Residual herbicide; Custom operator issues; Equip. malfunction. Ph. Back-Track Investigations 1-866-882-4779 for assistance and compensation. backtrackcanada.com

SELLING

2012 \$680, 615 PU, 800 sep. hrs., premium chopper, Michels, Greenlight June 2016, \$275,000 OBO. Call 780-679-7635, New Norway, AB.

2- 1986 7721 TITAN 11's, shedded, field ready, 1 w/spreader and reverser, 1 w/chopper, \$12,000 OBO takes both. Call 403-577-2197, 403-575-0093, Consort, AB

1997 JD 9400, 2114 eng. hrs., 1626 sep. hrs., ext. range cyl. drive, Y&M, long auger, new: PU belts, feeder chain, rub bars and concave, straw chopper, spreader, 914 PU, exc. cond., \$60,000. Call Dave Klein, 306-957-4312, 306-695-7794, Odessa, SK.

NEW 2014 MD PW7 w/16' Swathmaster to fit JD STS/ S series, \$24,900. 1-888-278-4905. www.combineworld.com

1999 JD 9610. Priced to sell! Chaff spreader, chopper, long auger, factory duals, 914 PU, reel nice. 306-654-7772, Saskatoon SK

1995 JD 9600, 3248/4302 hrs., shedded, \$39,000. Can arrange delivery. Call 306-563-8482, Yorkton, SK.

2001 JD 9650, 12' JD PU, long auger, big tires, 2500 hrs., \$48,000. 306-786-6510, Rhein, SK.

1997 9500, duals, 2843 eng. hrs., 2243 sep. hrs., 914 JD PU header, vg cond., \$45,000 OBO. 403-676-3768, Sibbald, AB.

1996 JD 9500, PU and straight cut header, 3100 sep. hrs., 212 PU header with 11' Sund PU and 930R rigid header with full finger auger and PU reel, chopper and chaff spreader, 2 spd. cyl., recent Greenlight, shedded, very good condition, \$42,000. 306-375-7733, Kyle, SK.</

COMBINE HEADER 4199

RITE-WAY HEADER TRAILER, hauls up to 35' flex headers, used very little, as new. 306-460-9440, Smiley, SK.

30' GLEANER/AGCO rigid header, low block, fits L, N and R models, c/w header transport, \$3900 OBO. 306-693-9847, Moose Jaw, SK.

2002 42' SP42 HoneyBee, pea auger, transport, Cat adapter, \$25,000. 2002 30' F30, Cat flex header, PU reel, w/4 wheel transport, \$16,000. Used JD adpater plate for newer MacDon headers, \$1400. Call A.E. Chicoine Farm Equipment, Storthoaks, SK., 306-449-2255.

MACDON CA20/CA25 and HONEYBEE flex or rigid adapters and completion kits, plenty in stock. We want your trade! 1-888-278-4905. www.combineworld.com

JOHN DEERE 930 draper c/w PU reel and transport. No single point. Very good cond \$24,500. 780-679-7795, Camrose, AB.

2005 CASE/IH 1020 flex header, 30' w/PU reel, field ready, \$13,000, trailer \$2000. Call Wes 306-744-7663, Saltcoats, SK.

2013 HONEYBEE SP36, 36', hyd. center link, hyd. fore/aft, transport, Stk#018553, \$73,900. 1-888-576-5561, Prince Albert, SK. www.redheadequipment.ca

2010 NH 94C, 36', AFX adapter, double knife, cross auger, Stk #020673, \$30,000. 1-888-576-5561, Swift Current, SK. or view www.redheadequipment.ca

NEW HOLLAND 971, 20' straight cut, high vis PU reel, c/w Elmer's PT30 transport \$7900 OBO. 780-914-6340 Lamont AB

MF 9230 30' straight cut header, PU reel, vg condition, used very little, \$5000 OBO. 306-946-7457, Watrous, SK.

2011 CASE/IH 3020, 35', single knife, Cray air reel, Stk #017943, \$33,750. 1-888-576-5561. redheadequipment.ca

1998 HONEYBEE SP36, 36', PU reel, AFX adapter, cross auger, Stk #021539, \$12,250. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

COMBINE PICKUPS 4202

8 BELT VICTORY PU with hydraulic drive motor, good shape. Call 306-944-4325, 306-231-8355, Bruno, SK.

NEW MACDON PWS pickup headers for CNH and JD, \$29,800. Trades wanted! Call 1-888-278-4905. www.combineworld.com

SWATHMASTER AND RAKE-UP 12', 14', and 16' pickups available. Call for details! 1-888-278-4905. www.combineworld.com

MISC. ACCESSORIES 4209

2005 UII PU REEL, 30', steel teeth, well used, \$2000. Email: larry-s@telus.net

PICKUP REEL PARTS WAREHOUSE: MacDon, UII, JD, Hart Carter, CNH, AGCO. We distribute parts for all PU reels. Call 1-888-278-4905. www.combineworld.com

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RECONDITIONED COMBINE HEADERS. RIGID and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK. or web-site: www.straightcutheaders.com

PARTS/ACCESSORIES 4211

PUMPS, PRESSURE WASHERS, Honda/Ko-shin 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

WRECKING COMBINES: IHC 1482, 1460, 915, 914, 815, 715; JD 7721, 7701, 7700, 6601, 6600, 105; MF 860, 850, 851, 760, 751, 750, 510, S92; NH TR70, 95; White 8900, 8800, 8700, 8650, 8600; CFE 5542; Gleaner C, F, L, M; CCIL 9600, 951; Vers. 2000. Call 306-876-4607, Goodeve, SK.



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TRIPLE B WRECKING, wrecking tractors, combines, cults, drills, swathers, mixmills, etc. We buy equipment. 306-246-4260, 306-441-0655, Richard, SK.

ROCKPICKERS 4223

MODEL 57 #0H7, PTO drive, high lift, good condition, \$6000 OBO. Ph/text 306-921-7688, Aberdeen, SK.

SILAGE EQUIPMENT 4229

REDUCED

2008 JD 3975 c/w PU header, kernel processor, 40' vert. ext. Just through shop in excellent shape w/new knives and shear bar! \$17,900. Call Jordan 403-627-9300, Pincher Creek, AB.

SPRAYING EQUIPMENT

PT SPRAYERS 4238

FLEXI-COIL/NH SF-216 susp. boom, 2008, 100' boom, used 2 seasons, \$25,000 OBO. 306-259-4881, 306-946-9513, Young, SK.

SP SPRAYERS 4241

2004 JOHN DEERE 4710, 100' 800 gal. SS, 380/90R46 and 520/85R38 tires, ITC JD AutoSteer, mapping, boom control and AutoHeight, very good, \$95,000 OBO. 306-227-5217, 306-644-2166 Loreburn SK

2012 JD 4940, 120', 1200 gal., Boom Trac Pro 5, leveling, 1300 hrs., STK# 020967, \$297,000. 1-888-576-5561, Swift Current, SK. or view www.redheadequipment.ca

2013 CASE/IH FL4530 floater, 70', auto fold tip, luxury cab, 810 flex air applicator, Stk #021154, \$320,000, Prince Albert, SK. 1-888-576-5561. redheadequipment.ca

2003 SPRA-COUPÉ 4640 High Clearance sprayer, 80' boom, 600 hrs., \$65,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1998 CASE/IH SPX3185, 90', 2 sets of tires, Stk: 017817, \$79,000. Saskatoon, SK., 1-888-576-5561 or view website: www.redheadequipment.ca

WRECKING: 2009 1286C, complete eng., rad, wheel motors, hydro, 120' factory booms, 830 hrs. 403-994-7754, Olds, AB.



2013 VERSATILE SX275, 120', 1200 gal., 14.9x46 duals, crop dividers, AutoBoom, AutoSteer, 550 hrs., 1 owner, shedded, vg, \$179,000. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2009 CASE/IH 4420, 100', AIM, 1200 gal., Norac boom height, Stk #020576, \$199,500. 1-888-576-5561, Estevan, SK. or view www.redheadequipment.ca

2011 CASE/IH 4420, 120', 2 sets of tires, deluxe cab, Pro 600, 262 Receiver, 2500 hours, Stk #020293, \$240,000. 1-888-576-5561. redheadequipment.ca

2010 JD 4830, 100', SS 1000 gal. tank, 2 sets tires, Stk #016381, \$208,000. 1-888-492-8542, Lloydminster, SK. www.redheadequipment.ca

2011 ROGATOR 1396, 120', Sharp Shooter, 2 sets tires, Viper, dividers, Smarttrax, Stk #020465, \$240,000. 1-888-576-5561 or www.redheadequipment.ca.

SALVAGE 4214

SPRAYING VARIOUS 4244

Used JD & Case w/prices up to \$40,000 lower than your local dealer.

JD 9400, 9420, 9520, 8970
JD 9860, 9760, 9750, 9650, 9600
JD 9430, 9530, 9630
Case STX 375, 425, 430, 450, 480, 500, 530
CIH 8010-2388, 2188 combine
CIH 4350, 5350, 4500, 550Q, 600Q pto avail.

JD 4710, 4720, 4730, 4830, 4920, 4930 SP sprayers
JD 9770 & 9870 w/CM & duals
CIH 3185, 3230, 3330, 4430, 4420 sprayers

6670/680/690 JD Combine low hrs
4730 JD Sprayer, 100 ft.
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Special 450 CIH Quadtrac with big pump
554 Rogator Sprayer SP
4840 JD 2WD, low hours, new tires

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SP SPRAYERS 4241



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.

2015 CASE/IH 4440, 120', luxury cab, active susp., 710 floaters and 380/90R46, Stk #019629, \$480,000. 1-888-576-5561, Prince Albert. www.redheadequipment.ca

SPRAYING VARIOUS 4244

FOUR 2013 8-hole sprayer rims for 320/90R/50 tires, like new, \$2600. 306-862-7524, 306-862-7761. agriquip.ca

FLOATER TIRES: Four 24.5x32 fits Rogator 1254, \$5000; Four 20.8x42 fits Case/IH, \$6000. 306-922-8155, Prince Albert, SK.

FLOATER TIRES: Factory rims and tires: JD 4930/4940, R4045; 800/55R46 Good-year tire and rim; 710/60R46 Goodyear LSW; Case 650/65R38 Michelins, \$13,500. Duals available for combines. 306-697-2856, Grenfell, SK.

TRIDECON CROP SAVER, crop dividers. Reduce trampling losses by 80% to 90%. Call: Great West Agro, 306-398-8000.

TILLAGE/SEEDING

AIR DRILLS 4250

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

WANTED: SEEDHAWK AIR DRILL, 2008 or newer, 44' w/9" or 10" spacing, TBT tank. Call 780-926-9151, Lacrette, AB.

HARROWS/PACKERS 4256

DEGELMAN 7000 STRAWMASTER 70', new tires, good condition, \$19,000. 306-273-4705, 306-621-2605, Rhein, SK.

SEEDING VARIOUS 4259

2016 BRILLION GRASS seeder, model 558P 12', 3 PTH w/front and rear seeders, safety lights and electronic acre meter. 403-507-9889 or 403-556-2224, Olds, AB.

TILLAGE EQUIPMENT 4262

2009 DEGELMAN SM7000 70' heavy harrow, hyd. time adjust, 5/8" tines, good condition. \$29,900. 1-888-278-4905. www.combineworld.com

2011 WISHEK 842N 14' disc, hyd. level and depth control, 28-29" discs, excellent condition, \$39,800. Call 1-888-278-4905. www.combineworld.com

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12' KELLO DISC plow, single, with hyd. or rope. 306-233-5241, Wakaw, SK.

2010 KELLO-BILT 225 16' disc, tandem offset, 24" discs, 10.5" spacing, good disc, \$29,800. Call 1-888-278-4905. Website: www.combineworld.com

SALFORD 41' VERTICAL tillage unit, c/w MaxQuip NH3 pump, sectional control. Great for fall straw management and fertilizer application. 306-620-2218, Ituna, SK.

TRACTORS



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JD 7810, MFWD, LHR, JD 840 loader, grapple fork and joystick, shedded, very clean tractor. Call 780-674-5516, 780-305-7152, Barrhead, AB.

JD 8440, PTO, 5800 orig. hrs., quad trans, premium condition, \$26,000 OBO. Call 403-823-1894, Drumheller, AB.

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SASKATCHEWAN 6133

RURAL WATER, FARMS, acreages. Multi-pure membrane system, 2000 gal./day. The Water Clinic, www.thewaterclinic.com 1-800-664-2561.

RM CANWOOD #494- just listed. This 140 acre scenic property is close to the Cookson pasture and the Prince Albert National Park. 1232 sq. ft. home built in 1960, 30x32 hip roof horse barn. Approx. 65 acres of tame hay. Balance is some harvestable spruce timber plus pasture openings. Just a great well sheltered yard. Fenced with 3 wires and treated post. MLS®S84810. For further info. or to view call Lloyd Ledinski, Re/Max of the Battlefords, 306-446-8800, 306-441-0512.

RM LEASK #464, MLS® 580974. 479 acre cattle farm with 364 acres in tame hay, balance bush and pasture openings, fenced with 4 wires and treated post. 3 bdrm home with full basement in nice condition. 40x60 quonset with dirt floor, 28x40 quonset style barn, well and 2 water bowls plus hydrant in barn. Also a small lake stocked with rainbow trout. To view call Lloyd Ledinski, Re/Max of the Battlefords, 306-446-8800, 306-441-0512.

FOR RENT: 24 quarters of cultivated land, on share basis. 11 quarters in one block. Rest in 2 mile radius of each other. Serious inquiries only. Box 5589, c/o The Western Producer, Box 2500 Saskatoon SK S7K2C4

NEVER...HAUL OR purchase those heavy bags of water softening salt or expensive bottle water again! The Water Clinic, www.thewaterclinic.com 1-800-664-2561.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

RM SPIRITWOOD #496- ML®S72850. One deeded quarter w/excellent pasture and the opinion to lease from the Crown the adjoining 2080 acres if the Buyers qualify. Approx. 600 - 700 acres logged off and has pasture up to your waist. Plus adjoins MLS®S72856- 640 acres deeded land w/lots of bush pasture, harvestable poplar timber and adjoins the main grid road. Good pasture water, fences are in need of repairs, but the price is right. More info., or to view, call Lloyd Ledinski, Re/Max of the Battlefords, 306-446-8800 or 306-441-0512, North Battleford, SK.

160 ACRES, near Regina, w/yard and business opportunity; 15 acres w/large character home, plus 2nd home on property within 35 miles of Regina or Weyburn on Hwy. #35; 160 acres w/large home, 3 car heated garage, large shop, horse barn, plenty of water, 20 min. NE of Regina. Be side Regina, SK: 3 acre property/house/greenhouses; Near Pilot Butte, 80 acre development land; 90+ acres, Hwy. #11, 7 miles North of Saskatoon, development; RM Perdue, 2 quarters W. of Saskatoon on Hwy #14; 2 miles East of Balgonie Hwy. #1, 145 acre development land. Brian Tiefenbach 306-536-3269, Colliers Int., Regina, SK. www.collierscanada.com

MANITOBA 6134

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PASTURES 6136

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

WANTED 6138

WANTED TO PURCHASE FARMLAND with lots of oil wells and battery sites on property. 780-499-2367, Edmonton, AB.

ACREAGES 6139

17 ACRES OF PARADISE. Get away from it all or raise stock on a small farm. 1125 sq. ft. bungalow, many renos, new pump and septic, 24x60' heated, shop, nice barn, older corrals, \$295,000. Ph 780-726-2223, St. Lina, AB. shelley.dyck@yahoo.ca

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ALBERTA 6132

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RECREATIONAL VEHICLES

BOAT/WATERCRAFT 6162

1999 FOUR WINDS 18', 5.0L Chev, Volvo drive, fair condition, motor block frosted, \$2500. Email: larry-s@telus.net

SCAT HOVERCRAFT AND TRAILER, Kawasaki engine, good bellows, \$3000 OBO. Ph/text 306-921-7688, Melfort, SK.

CAMPERS/TRAILERS 6164



2012 ALPINE 3700RE, dual AC, 4 slides, double fridge, built-in vac, sleeps 4, plumbed for washer/dryer, 3 TV's, DVD surround sound, fireplace, low mileage and use, power awning, vg, \$39,900. Would consider farm tractors or heavy trucks on trade. 306-237-7667, Perdue, SK

8' ENCLOSED TRUCK CAMPER. 11-1/2' Vanguard truck camper on 1977 F250 Ford truck, gas. 403-577-2297, Kirriemuir, AB.

MOTOR HOMES 6166

2002 HOLIDAY RAMBLER Neptune XL, 36', 4 slides, flat screen tv's, satellite, leather furniture, 18,000 miles, stored in heated shop, \$75,000. 306-537-8184, Rouleau, SK



1997 SHASTA CLASS C, 28', 7.3 power-steer diesel, auto, 82,000 kms, \$21,000. Can-Am Truck Export Ltd, 1-800-938-3323, Delisle, SK. DL #910420.



2017 ACE #15724, \$114,900. AMVIC Lic. Dealer. Ph. 1-866-346-3148 or shop online 24/7 at: Allandale.com

SNOWMOBILES 6168

1973 ARCTIC CAT, for parts, or as is, not running. Shredded. Phone 306-259-4430, Young, 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.

RENTAL/ACCOMODATIONS

APARTMENT/HOUSES 6210

WANTED: FARM COUPLE to spend winter (Nov-March) in our well equipped beautiful home in Saskatoon, SK. References required. Call 306-374-9204.

VACATION ACCOMMODATIONS 6245

WINTER WEST: Creston BC. 3 bdrm home, fully equipped and furnished. Avail. Nov-Apr. \$995/mo. + utilities. 250-428-0404.

SCALES 6380

ELIAS SCALES MFG., several different ways to weigh bales and livestock; Platform scales for industrial use as well, non-electric, no balances or cables (no weigh like it). Shipping arranged. 306-445-2111, North Battleford, SK. www.eliascales.com

PEDIGREED SEED

NOTICE TO SEED
ADVERTISERS

The Seeds Regulations prohibit the advertisement or sale of common seed of the major crop kinds by variety name. A variety name may only be applied to pedigreed seed that has been grown, processed, sampled, tested and graded as set out in the Seeds Regulations. Furthermore, seed of unregistered varieties of the crop kinds subject to variety registration may not be sold in Canada even when labelled as common seed.

For more information contact the Canadian Food Inspection Agency, Seed Section at: seedsement@inspection.gc.ca or phone 1-800-512-1711.

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.

CREEP FEED RATION, oats and barley mix, 10,000 bu., very clean, no weeds. 306-642-5812, 306-642-8344, Scout Lake

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.

CEREAL SEEDS

CORN 6406

DE DELL SEEDS INC. has 6 new hybrids for 2017. Biggest discounts on fall orders. The leaders in non-GMO technology. Feed delivery. Prairie Provinces Dealer. 204-268-5224, Beausejour, MB.

WHEAT 6419

REG. CERT. BOBCAT fall/winter Triticale. Taking pre-season orders now. Full service seed treatment at time of loading. 403-633-9999, Tilley, AB. See our Virtual Crop Tour: www.fabianseedfarms.com

Permolux ethanol ~ gluten ~ flour

Permolux is one of the largest users of all classes of wheat in Canada, processing approximately 200,000 metric tonnes per year. Thus, we source all varieties of wheat including Spring, CPS, Winter and Soft White as well as Barley for our Ethanol plants from all areas of Alberta and into Central Saskatchewan to meet our plant's demands. Wheat marketed to Permolux is priced FOB your yard. Most settlements are completed in 7 days.

We welcome all new producers and thank all existing producers for their business in the past and future.

Any questions regarding pricing, grades or movement schedules, contact Grain Manager at the numbers listed below.

DAVE SHOEMAKER • Toll Free 1-877-447-4274 • Cell 403-556-0282

"Agriculturally Based Relationship Driven"

CERTIFIED MOATS, 98% germ., 89% vigor, 0% fusarium Graminearum. Ready for immediate pick up. Call Myles at Fox Family Farm 306-648-8337, Gravelbourg, SK. Visit us online: www.foxfamilyfarm.ca

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NOW Available

COVER CROPS. HICKSEED LTD., Mossbank, SK. Now has on the floor for organic plowdown: Daikon radish (zero till); Hairy Vetch; Austrian Winter peas; Buckwheat; Yellow Blossom sweet clover. Also, green feed blends available. For all your seed needs call Hickseed Ltd. Barry 306-354-7998 or Dale 306-229-9517

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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.

PASKAL CATTLE in Iron Springs area is looking for **Feed Barley.** Put more \$\$\$ in your pocket and sell direct to us with no brokerage fee. Please call 403-317-1365.

FEED GRAIN 6505

LACKAWANNA PRODUCTS CORP. Buyers and sellers of all types of feed grain and grain by-products. Call 306-862-2723, Nipawin, SK.

WANTED: FEED GRAIN, barley, wheat, peas, green or damaged canola. Phone Gary 306-823-4493, Neilburg, SK.

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CREEP FEED RATION, oats and barley mix, 10,000 bu., very clean, no weeds. 306-642-5812, 306-642-8344, Scout Lake

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.

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LARGE SQUARE 4x4x8 big square baling Krone high density balers. No job too big! Call for pricing 403-664-9734, Oyen, AB.

GREEN FEED AND mixed hay bales. Round. No chemicals and no rain. 780-843-6461, Kinuso, AB.

HAY AND STRAW Delivered Anywhere: Now loading and hauling 48 large round bales. Also hauling 90 large square (3 wide in SK. and AB.) Phone or text Hay Vern 204-729-7297, Brandon, MB.

ALFALFA BALES for sale, 3x4 squares. Feed tests available. Phone 403-501-4115 or 403-501-9307, Tilley, AB.

WHEAT 6419

Permolux ethanol ~ gluten ~ flour

Permolux is one of the largest users of all classes of wheat in Canada, processing approximately 200,000 metric tonnes per year. Thus, we source all varieties of wheat including Spring, CPS, Winter and Soft White as well as Barley for our Ethanol plants from all areas of Alberta and into Central Saskatchewan to meet our plant's demands. Wheat marketed to Permolux is priced FOB your yard. Most settlements are completed in 7 days.

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DAVE SHOEMAKER • Toll Free 1-877-447-4274 • Cell 403-556-0282

"Agriculturally Based Relationship Driven"

LONG LAKE TRUCKING, two units, custom hay hauling. Call 306-567-7100, Imperial, SK.

ROUND BALE PICKING and hauling, small or large loads. Travel anywhere. Also hay for sale. 306-382-0785, Vanscoy, SK.

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2ND CUT ALFALFA, large round, large quantity available. Call 306-221-0285, Dundurn, SK.

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WE BUY DAMAGED GRAIN

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BUYING SPRING THRASHED CANOLA and grain "On Farm Pickup" Westcan Feed & Grain, 1-877-250-5252.

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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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HARVEST SPECIAL! Haybine/Baler: 31/13.50-15 Titan Flo Trac, 10 ply, \$199. Swather: 4 only, 16.5-16.1 Firestone Traction I-3, \$649. **Combine Front:** 3 only 30.5L32 Firestone SAT23, 14 ply, \$2945; 2 only, 30.5LR32 (800/65R32) Firestone Radial AT23, \$3285; 900/60R32 (35.5R32) Trelleborg TM2000, \$4500; 460/85R38 (18.4R38) Alliance R-1W, \$1199; 4 only, 20.8R42 (520/85R42) Alliance R-1W, \$1599; 7 only, 520/85R38 (20.8R38) Firestone AT23, \$1949. **Combine Rear:** 12.4-24 BKT R-1 8 ply, \$299; 4 only, 16.9R26 Alliance Radial R-1, \$1079; 2 only, 18.4-26 Firestone TFD 8 ply, \$865; 4 only, 600/65R28 BKT Radial R-1, \$1599. **WHEEL:** 27x32 10 hole wheel fits Case/IH \$799. Looking for wheels? We can build it! **AG Line Tire and Wheel 1-855-865-9550.**

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FOUR 775/65R29 BRIDGESTONE radials. M&M Equip. Ltd. Parts & Service, Regina, SK. 306-543-8377.

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