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SLICING WEEDS DOWN TO SIZE

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Publications Mail Agreement # 40069240

Alberta Farmer

Your provincial farm and ranch newspaper

VOLUME 13, NUMBER 16

AUGUST 1, 2016

WWW.ALBERTAFARMEPRESS.CA

EXPRESS

Perennial grain: It's two – yes, two – crops in one

It's been a decades' long search, but researchers believe the finish line is in sight for a crop that can be both grazed and then harvested for its grain

BY AARON HAUGEN
AF CONTRIBUTOR/LETHBRIDGE

As concerns grow over sustainability in modern farming, researchers are looking to the past in search of crops that can both meet the needs of farmers and consumers as well as the environment.

Thinopyrum intermedium — commonly known as intermediate wheatgrass — is one of the fruits of that research.

It's been nearly three decades since researchers at The Rodale Institute in Pennsylvania launched the effort to develop a perennial wheat. They first surveyed perennial grasses and plants to find the best ones to domesticate and then bred lines of intermediate wheatgrass to produce larger seeds, higher yields, and other agronomic attributes. The research then began getting spread around

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Pulses' popularity points to bright future

The boom in pulse acres may just be getting started thanks to rising demand, better varieties, and strong profitability

BY JENNIFER BLAIR AND
ALLAN DAWSON
STAFF / RED DEER/TORONTO

Only one hand shot up when Neil Whatley asked a recent crop tour near Castor if anyone was growing lentils this year.

Luckily, a more rigorous Statistics Canada survey tells the real story — there are a whole lot of hands growing lentils this year.

"There's close to six million acres on the Prairies this year, and Alberta has close to 565,000 of those," the provincial crop specialist said at the Battle River Research Group crop tour in mid-July.

"That's a significant increase from what it was five years ago, and the acreage seems to be growing."

Alberta more than doubled its lentil acreage in 2016, shooting up to 564,882 acres from 249,823 acres in 2015, according to Statistics Canada's field crops report released June 29.

And that jump is thanks to strong lentil prices in 2015, said Nevin Rosaasen, policy and program specialist with Alberta Pulse Growers.

"The increased lentil acreage definitely has to do with the profitable returns that lentils can bring producers," said Rosaasen.

"Last year, we saw record-high lentil prices across the Prairies, and of course, we saw some very attractive fall delivery contracts around that 40-cents-a-pound mark. When you pencil in a yield of, say, 20 to 30 bushels an acre for lentils, it's very profitable."

Lentils become even more attractive to growers when they factor in the cost savings of a crop that fixes its own nitrogen, added Rosaasen.

"When you can scrap your entire nitrogen bill off your cost of production, it makes for a very good net return per acre."

Producers are also realizing that the new red lentil varieties are "much better" than the old green varieties that used to be the standard, said Whatley.

"The agronomic package is much more comfortable for the grain producer," said Whatley, adding that the new red varieties



Lentil acres in Alberta have more than doubled in 2016, thanks in part to better genetics, said provincial crop specialist Neil Whatley. PHOTO: JENNIFER BLAIR

have higher yields, reduced lodging, and improved disease resistance.

"These crops are much easier to grow than they used to be, so acres are expanding because of that."

'An irreversible trend'

And acres will only continue to expand as consumers become more interested in healthy eating, said Murad Al-Katib, president and CEO of Saskatchewan-based AGT Food and Ingredients.

"As a food industry, I think we have to be prepared for what could be a transformational earthquake that is coming with consumers where there is a connection between natural and non-GMO and healthy, clean labels. And pulses give us that opportunity to look at protein, fibre... micronutrients, natural biofortification.

"We are seeing all these trends aligning.

"When I look at the demand fundamentals from a product development standpoint and a consumer trend standpoint, this is actually an irreversible trend," Al-Katib, who is also president of the Canadian Special Crops Association, told a record crowd at the Pulse and Special Crops Convention in Toronto last month.

"It's not one that I think is grounded in a fad or some type of a temporary phenomenon where we are going to see pulse consumption and ingredients rise and then potentially taper off. We are ultimately looking at a high-protein, high-fibre, non-GMO, gluten-free product, with a very strong and environmental story to tell."

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IT'S HIGH TIME WE END OUR FOOD-WASTING WAYS

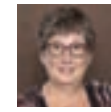
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New Swedish machine slices problem weeds down to size

Organic grain growers have been snapping up CombCut machines 'like crazy'

BY JENNIFER BLAIR
AF STAFF / LACOMBE

A new piece of machinery is helping crop growers control broadleaf weeds on their farms — especially on organic operations.

"Organic growers are buying these CombCut machines like crazy," said Steve Shirliffe, a professor of plant sciences at the University of Saskatchewan.

"There's a real buzz in the organic farming community. I've never seen equipment being taken up this quickly by organic farmers."

Developed in Sweden by Just Common Sense — a green technology company — the CombCut has a series of comb-like knives on a rotating bar. Thin-stemmed crops, like wheat and barley, move through the knives unscathed, while thick-stemmed broadleaf weeds, such as thistle or volunteer canola, are clipped close to the ground.

"What they've found in Europe is that it works well for mustard and thistle — any broadleaf weeds that tend to be erect or tall," said Shirliffe, who demonstrated the equipment at canolaPALOOZA earlier this summer.

"The cereal leaves can bend and go through it, and you can clip the weeds like mustard and Canada thistle that have the thick stem."

The CombCut — which retails for about \$20,000 for the six-metre-wide model — is mostly used in organic production, said Shirliffe, who has been testing the equipment for about a month.

"For organic farmers, wild mustard and Canada thistle are pretty much their two biggest weed problems," he said.

But conventional producers could also benefit from using the CombCut, particularly if they're starting to notice herbicide resistance in their fields, said Breanne Tidemann, a graduate student at the University of Alberta.

"If conventional farmers would adopt it, that would be great because you could extend the lifetime of your herbicides by having these alternate measures," said Tidemann. "The CombCut is being used by organic producers actively in their organic rotations, but for us, it's really looking ahead and saying, 'When our conventional farmers have that problem, what are they going to do?'"



Cereal stems move unscathed through the CombCut's comb-like knives, while broadleaf weed stems are cropped close to the ground.

PHOTO: JENNIFER BLAIR

The CombCut reduces the seed set of broadleaf leaves, and over time, producers will seed fewer weeds in their fields.

"It's not just managing your weed competition but also managing how many weed seeds go back into your seed bank to try and reduce the amount of weeds that are there," said Shirliffe.

"But what they found in Europe was that one application isn't going to do a lot. It takes

several throughout the year. You have to start early and keep on it. For something like thistles, it would take at least a couple of years to get them beat back."

The CombCut gives producers another tool in their tool box for dealing with weeds, added Tidemann.

"When you're looking at non-chemical methods of managing weeds, it's an integration," she said. "You need multiple tools

because none of our tools are as effective as a single herbicide application."

The CombCut removes weeds early in their life cycle, she said, and when combined with harvest weed seed management tools — like chaff carts or the Harrington Seed Destructor — producers can hit weeds "at two different points in their life cycle to try to drive that population down."

"Anything that we miss (with the CombCut), we're trying to capture what's left with harvest weed seed control and prevent it from going into the next year," said Tidemann.

For conventional producers, using a new piece of machinery to control problem weeds might not be worth the expense and hassle — "but if your herbicide's not working, what else are you going to do?"

"In the short term, we're trying to figure out what could work so that when a producer does have a resistance problem, we have something to offer him or her as a solution," said Tidemann.

"We're trying to get a feel for what will and won't work before we're actually at that point."

jennifer.blair@fbcpublishing.com

Editor Laura Rance wins two major international awards

Recognition for her series on conservation agriculture in Africa

STAFF

Laura Rance, editorial director of Farm Business Communications, the parent company of *Alberta Farmer* has won two major international awards for her work on African agriculture.

Rance won the International Federation of Agricultural Journalists (IFAJ) Star Prize for 'Africa's Hunger Games,' published in the *Winnipeg Free Press* in April 2015. The same piece was awarded the IFAJ-FAO Award for Excellence in Global Food Security Reporting, a new award sponsored by the UN Food and Agriculture Organization and the IFAJ.

The feature was based on a series of articles which ran earlier in *Alberta Farmer* and the *Manitoba Co-operator*.



Laura Rance receiving the first-ever IFAJ-FAO Award for Excellence in Global Food Security Reporting from FAO chief of media relations Erwin Northoff. PHOTO: IFAJ

Rance, who is also editor of the *Co-operator* wrote the series about her five-week project on secondment to the Canadian

Foodgrains Bank in Africa. It focused on conservation agriculture practices and their role in conserving soil in the region.

Rance received the awards last month at the 2016 International Federation of Agricultural Journalists (IFAJ) congress in Bonn, Germany.

"This is an excellent piece of journalism; the first-person approach allows the author to weave human emotion into this comprehensive piece, filled with facts and expertise on both sides of the issue," said award judges for the IFAJ Star Prize.

"Laura Rance's article is a perfect example of presenting the complex scientific and social problems of soil management in poor countries to a broader audience," said FAO chief of media relations Erwin Northoff, one of the judges for the IFAJ-FAO Award.

"Stories like this one need to be told and I am grateful for the recognition this one has received. But it is important to also acknowledge the organizations that made doing this research possible and the people who so graciously shared glimpses of their lives," Rance said at the IFAJ meeting in Bonn.

Correction

A story in the July 18 edition titled *Sylvan Lake farmer joins Cigi board at a critical time* incorrectly stated the Western Canadian Deduction is 15 cents per bushel. The checkoff is actually 15 cents per tonne.

Working with horses offers a lifeline to vets

Alberta-based equine therapy program teaches veterans how to communicate with their loved ones

BY ALEXIS KIENLEN
AF STAFF

Horses can be a mirror for human behaviour — act aggressively or refuse to communicate and it will let you know.

“You can lie to a human, but you can’t lie to a horse,” said Steve Critchley, co-founder of Can Praxis, an Alberta-based equine therapy program that uses horses to help Canadian military veterans and families affected by post-traumatic stress disorder (PTSD).

“Working with a 1,200-pound animal will help an individual who is dealing with the stigma of PTSD and help them regain self-confidence. When you have self-confidence, you have self-esteem. When you have self-esteem, you have pride. People with pride don’t kill themselves.”

The program isn’t focused on horsemanship, but on using horses as a tool to understand human interactions.

“Horses are a social animal — they crave, need, thrive and depend on social interaction,” said Critchley. “As a social animal, they reflect social values. A group of horses has a chain of command. Veterans become very comfortable with that.”

“Working with horses with different personalities helps people gain take-away skills and our courses help people learn real life skills in communication.”

The goal, of course, is to apply those skills in everyday life.

“What we focus on is helping people find the ability and means and skills to have personal conversations with the person most important to them — their spouse, partner, or family member,” he said. “We help them understand how PTSD affects an individual — mentally and physically — and how that affects their ability to have conversations. PTSD creates filters where people aren’t exactly aware of how they’re interacting with each other.”

Can Praxis was founded by Critchley, a conflict resolution specialist and horse lover with 28 years of military experience, and



A couple runs through a trust exercise in a Can Praxis course. The program uses equine therapy to help veterans suffering from PTSD and their spouses communicate. PHOTOS: CAN PRAXIS



A group of veterans and their spouses debriefs during a Can Praxis course. The course uses equine therapy to help Canadian Forces veterans and families affected by PTSD.

Jim Marland, a psychologist and Equine Assisted Learning facilitator. Since its inception in 2013, veterans from across Canada have participated in the program, funded through Wounded Warriors Canada and donations from small towns.

Veterans, who participate in the program at no cost, range in age from their 20s to their late 60s.

“It’s not unusual for people to show up deathly afraid of horses, and at the end of the program, we have to physically stop them from



A veteran and a horse engage in an exercise in Can Praxis, an equine-based therapy course that helps Canadian Forces veterans overcome PTSD.

putting one in the trunk of their car,” said Critchley, who began breeding Canadian horses on his acreage near Torrington after retiring from the military.

Since horses have evolved as a prey animal, they are hyper alert and sensitive to their environment and everything that is going on around them, just like a veteran, he said.

And both horses and people use body language to communicate.

“People working with horses understand or come to under-

stand pressure and release,” said Critchley. “If you’re trying to force a horse to do something that it’s uncomfortable with, it’ll let you know through its physical actions by just refusing to move or running away from you.”

“This might be the first time individuals dealing with PTSD see what happens when they’re constantly putting pressure on other members of their family and not realizing it. When people are aware of how they are coming across, that helps them adapt their own emotions and

“It’s not unusual for people to show up deathly afraid of horses, and at the end of the program, we have to physically stop them from putting one in the trunk of their car.”

STEVE CRITCHLEY

body postures, so a conversation becomes effective and not scary.”

In different phases of the program, veterans and their spouses work with horses together, to learn how to communicate with each other and with the horse. Participants may learn skills such as brushing or leading the horses, but do not ride in the first phase of the program.

In the second phase, held in Bowden, the equine interaction is increased and followed by debriefs around the campfire. In one exercise, a spouse will move a blindfolded veteran and a horse through an obstacle course. This is designed to show the veteran how to communicate and depend on their spouse. In the final phase of the program, five couples take part in a pack ride in the foothills around Cochrane.

Since its inception, more than 140 couples have used the program, and 130 of them have stayed together. A study by Can Praxis and the University of Saskatchewan found that 97 per cent of participants noted instant relief from their PTSD symptoms, and 75 per cent experienced long-term relief.

“Our message is that you can overcome PTSD, you can get your life back, and you can heal,” said Critchley.

For more information, visit www.canpraxis.com.

akienlen@fbcpublishing.com



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Alberta Farmer

EXPRESS

EDITOR

Glenn Cheater
Phone: 780-919-2320
Email: glenn.cheater@fbcpublishing.com
twitter: @glenncheater

REPORTERS

Alexis Kienlen, Edmonton
780-668-3121
Email: akienlen@fbcpublishing.com
Jennifer Blair, Red Deer
403-613-7573
Email: jennifer.blair@fbcpublishing.com

CIRCULATION MANAGER

Heather Anderson
Email: heather@fbcpublishing.com

PRODUCTION DIRECTOR

Shawna Gibson
Email: shawna@fbcpublishing.com

DIRECTOR OF SALES

Cory Bourdeaud'hui
Email: cory@fbcpublishing.com

NATIONAL ADVERTISING SALES

Jack Meli
Phone: 647-823-2300
Email: jack.meli@fbcpublishing.com

LOCAL ADVERTISING SALES

Tiffany Taylor
Phone: 204-228-0842
Email: tiffany.taylor@fbcpublishing.com

CLASSIFIED ADVERTISING SALES

Mitchell Tityk
Phone: 1-888-413-3325 Fax: 204-944-5562
Email: classdisplay@fbcpublishing.com

ADVERTISING CO-ORDINATOR

Arlene Bomback
Phone: 204-944-5765 Fax: 204-944-5562
Email: ads@fbcpublishing.com

PUBLISHER

Lynda Tityk
Email: lynda.tityk@fbcpublishing.com

EDITORIAL DIRECTOR

Laura Rance
Email: laura@fbcpublishing.com

PRESIDENT

Bob Willcox
Glacier FarmMedia
bwillcox@farmmedia.com
204-944-5751

THE ALBERTA FARMER EXPRESS is published 26 times a year by Farm Business Communications. We acknowledge the financial support of the Government of Canada through the Canada Periodical Fund of the Department of Canadian Heritage.

Publications mail agreement number 40069240

CANADIAN POSTMASTER:
Send address changes and undeliverable addresses (covers only) to Circulation Dept., P.O. Box 9800, Winnipeg, MB R3C 3K7

ISSN 1481-3157

Call 1-800-665-1362

or U.S. subscribers call

1-204-944-5568

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OPINION



The time to tackle tomorrow's problems is right now

Whether it's herbicide and fungicide resistance or diseases like clubroot, you don't want to wait until it gets out of hand

BY GORD GILMOUR

MANITOBA CO-OPERATOR ASSOCIATE EDITOR

The farms that are winners tomorrow will be run by farmers who are proactively understanding and defusing production problems today.

There are a number of growing issues that could be a disaster tomorrow, but growers can prevent them if they're committed to doing the right thing now.

The best example, and the one that's a threat to the most farms on the Prairies, is weed resistance to herbicides.

We've known for quite some time how resistance develops and the role that overuse of herbicides can play. Back in the 1990s, when I started as a reporter for the *Co-operator* it was one of the first lessons the agriculture faculty at the University of Manitoba very patiently taught me.

In each weed population, a very small proportion will be immune to any given control method, it explained. After a single application, there won't be much difference, as the seed bank in the soil still contains plenty of susceptible seeds. After a number of years of applying a single product, however, that population turns over and you'll have a real problem on your hands.

This is not just an issue for in-season applications, but also for the precious glyphosate that is at the foundation of zero-till farming. Farms assume the scope and shape they do because of a number of things, not least of which are the tools at the disposal of farmers.

It's not coincidental that farms grew dramatically in size with the advent of this new technology and system — it made field operations so

much more efficient, allowing farmers to cover more ground in a more timely manner, especially during the crucial seeding season.

But consider what the farm of today will look like if some or most of these tools become ineffective. Do you think a 20,000-acre farm, sown the old way, with tillage and a press drill, would in any way be efficient?

That's an exaggeration of course, but some of the steps growers have been forced to take in other areas are every bit as limiting. In Australia, they're collecting and burning chaff. In the U.S. Cotton Belt they've been forced to hire crews to undertake the painstaking work of hand weeding glyphosate-resistant Palmer amaranth.

This isn't the only case where a similar dynamic appears to be emerging. Clubroot isn't a huge issue yet here in Manitoba, but Alberta canola growers have struggled mightily with this soil-borne disease. They're undeniably in the forefront globally of understanding and fighting the problem. Clubroot is primarily a disease of vegetable crops that are grown on relatively small acreages. In Canada we're growing canola, which is closely related to those vegetable crops, as an oilseed crop on millions of acres every year. We've introduced a susceptible host to a disease that is, in the words of University of Alberta plant pathologist Stephen Strelkov, "highly adaptable." The result is in hindsight predictable.

Clubroot figured out canola. Then it began destroying canola. Researchers developed resistant varieties, which clubroot promptly figured out in just a couple of seasons. Despite Herculean efforts on the part of the research community, extension agents and farmers themselves, the march of the disease has barely slowed, much less halted.

It's not all doom and gloom, however, because knowledgeable people such as Canola Council of Canada agronomist Dan Orchard, who first discovered the disease in a canola field, point out there are farmers right in the midst of the worst of it who are proceeding on with the business of farming without any major issues.

They're doing so by acknowledging it's a problem and altering their management practices accordingly. They've lengthened canola rotations and moved to resistant varieties. They're actively seeking out hot spots before they've spread throughout a field and planting them down to non-host crops.

They're planning their field operation to work on infected areas last, lessening the risk of spreading the disease, while also limiting the amount of time-consuming equipment hygiene that is necessary.

This isn't a question of more management just for the sake of it, it's a fundamental question of protecting what they're currently doing and ensuring their farms remain viable. By making small changes today, they're avoiding having to make drastic and wholesale changes later.

It would seem other issues are starting to loom as well — fungicide resistance, for example, in some of our common crop diseases. This is a bit more of a community issue since the disease is wind-borne, but again, the solution is rotating control products and growing varieties with higher levels of resistance.

Nobody likes to make work for the sake of work, but getting this right is going to be the difference between success and failure over time.

gord.gilmour@fbcpublishing.com



The fight against GMO labelling is over

Biotech advocates spent a fortune to stop labelling laws — they won some battles but lost the war

BY LAURA RANCE

EDITORIAL DIRECTOR

New U.S. legislation that requires labels on foods produced using ingredients from genetically modified crops was once a notion many in food and farming circles considered unthinkable.

That is, until they were confronted with the potential for something much worse — multiple labelling laws.

In the absence of a national labelling law applied universally across the country, the food industry was facing the prospect of individual states, starting with Vermont, passing their own laws, creating a hodgepodge of confusing rules.

Uncertainty in business costs money. Labelling foods that are made from GMO ingredients doesn't have to cost a bundle as long as it doesn't have to be done a bunch of different ways. So even some of the biggest opponents to labelling, such as the American Soybean Association, threw their support behind the U.S. bill in the end.

The Senate voted by a large margin to approve the bill that identifies GMO contents with words, pictures or a bar code that consumers can scan into their smartphones to find

out more. The House of Representatives followed the Senate's lead.

It now appears a similar debate is coming to Canada, with the introduction of a private member's bill by Quebec MP Pierre Dusseault, calling for mandatory labelling of any genetically modified foods offered for sale.

Many private member's bills never see the light of day, let alone become law, but stranger things have happened. So those who oppose this kind of labelling will be watching it closely.

The question becomes, what should they do about it? How about nothing?

Statistics gathered by the Environmental Working Group (EWG) in the U.S., which tracked federal lobbying disclosures, suggests the U.S. food industry and promoters of biotechnology spent \$100 million or more fighting the GMO labelling movement. Big money managed to turn the tide in referendums in California and Washington, but despite winning those battles, it lost the war.

And it lost it to largely underfunded campaigners who relied heavily on social media to promote their cause.

There are passionate proponents for labelling in this country too, starting with teenaged-activist Rachel Parent, who travelled to Ottawa recently to meet with fed-

eral Health Minister Jane Philpott on the issue.

Parent, who founded Kids Right to Know, a group dedicated to labelling GMO foods, after doing a science fair project, rose to fame when she debated the hosts of CBC's "Lang & O'Leary Show" in 2013.

In that debate, the spunky Parent fended off sophisticated efforts by her opponents to portray her as part of a privileged class who opposes genetic engineering and who is therefore OK with millions of people in poor countries dying from malnutrition.

Parent stuck to her point: people want to know what is in their food, or in this case, what went into producing it. She says she doesn't want to eat GMO food but respects the right of those who do.

Granted, her campaign also connects making healthier food choices with GMO labelling, which is exactly the kind of linkage the food industry wants to avoid.

Agribusiness fears that if GMO foods are labelled, people will think there is something different or dangerous about them when the science is pretty clear there isn't.

A new expert panel report from the National Academies in the United States called "Experiences and Prospects for Genetically Engineered Crops," found no substantiated evidence of risk — with the

exception of more insect and herbicide resistance — after more than two decades of use.

Yet critics argue that if the industry has nothing to hide, why is it so opposed to labelling? The harder it fights, the louder that gets.

In a July 8 paper commenting on the U.S. report, Loren Riesberg, a professor and Canada Research Chair in Plant Evolutionary Genomics at the University of British Columbia, doesn't comment on the labelling issue. But he notes public skepticism is holding back growth in a useful area of science, partly because of stringent regulatory processes implemented in an effort to appease public concerns.

He cites one company's statistics that say bringing a new genetically engineered trait into commercial production costs an average of US\$136 million and takes 13 years. Some want even more testing.

Labelling wouldn't eliminate the need for regulatory oversight but the increased transparency might reduce the pressure for increasing it.

So here's a thought. If and when the GMO labelling debate starts to heat up in Canada, put it on ice. Embrace the inevitable, encourage consumers to read their labels and let them draw their own conclusions.

laura@fbcpublishing.com

OPINION



BY **BRENDA SCHOEPP**
AF COLUMNIST

It's time to make reducing waste a top food trend

There is almost as much food thrown away in Canada as there is traded between us and our southern neighbour

I was walking in downtown Edmonton and stopped to chat with two masked protesters.

The man and woman were trying to raise awareness of food waste, a huge issue in Canada. They had gone “binning” — eating out of garbage dumpsters and were able to feed themselves for that week. Canadians lead the way in food waste at 40 per cent and cost estimates range from \$27 billion to \$31 billion, which is very high considering trade between Canada and the U.S. is \$45 billion.

It is an interesting society that we live in. On one hand, we want cheap food and for Canadians food freedom day is in February. We spend less than 10 per cent of our incomes for food, and often regard it as disposable and an entitled right. Cheap food stores are rocking in Europe and go well beyond the wholesale foods we buy in Canada, they are thump-

ing mainstream retailers at the store and on the doorstep.

On the other side of the table is the Canadian who is a foodie, also entitled, but very specific in their diet as they want to be on the leading edge of health. Chef & Co. published the trends that foodies are favouring this year. And surprise, the top trend is the No. 1 thing our grandmothers did — using all parts of the vegetable and throwing nothing away. Leftovers rule in soups or seasoning from the previously unloved portion of the veggie.

The trend to trash kale and eat broccoli leaves is evident in many local eateries as is the incorporation of mushrooms. I have seen many ways to grow mushrooms from all around the world: horse manure, on logs in fish farm barns, and the latest by a student from Olds is via spent grain from the brewing industry that is normally wasted. Regardless of the origin, the destination for this summer is to the plate, often now accompanied by naked oats (a hullless variety that substitutes for rice).

When travelling in the Southern Hemisphere, we often talked about sweet and savoury dishes and this is most certainly catching on in Canada. It is called Umami or the fifth flavour in cooking. Using turmeric with its proclaimed anticancer properties is a big hit in the spice rack but the superfood of the day is Moringa. It comes from trees in Africa, India, the Caribbean and South America, and is bursting with vitamins, minerals, and proteins. Combining these foods in sweet and savoury dishes is the ultimate goal.

The Canadian Health Food Association adds that hemp (the original Canadian grain) is a great food for health and well-being (as well as being used in beauty products and beverages). The straw from hemp used to be used for making rope and twine as well as clothing. It was a zero-waste crop. Not to be outdone by the land, the sea is offering her vegetables for more than just thyroid support as kelp makes a comeback on Canadian plates.

Fibre is the next diet food and one brand that reflects the impor-

tance of fibre is Canada's own Holy Crap cereal, made with chia seeds. Chia is a Canadian favourite that shows up in everything from yogurt cups to baking. Anyway, back to Holy Crap which is going high end with a 64 per cent dark chocolate bar. To me that is like combining several food groups considering there is an argument that chocolate should be a food group! Crap or not, chia is a staying staple in Canadian diets.

If something is bugging you — the new trend is to eat it! The bugs humans eat include deep-fried grasshopper; sautéed silkworm; toasted weaver ants; and a variety of grubs, mealworms, and crickets. There are 1,900 edible insects in the world and Tiny Farms in California, which rears insects for eating, tells potential clients that it takes two pounds of feed to produce a pound of crickets compared to 25 pounds of feed to produce a pound of beef — which is a highly inaccurate statement and bugs me more than the thought of eating earwigs. Regardless, bugs are a food source in many parts of the world.

Although I would rather pay close attention to my food plate and my food waste than eat a bug, the reality is that most Canadians don't focus on waste at either end of the table. They could be committed to cheap food or foodie trends; young or old; urban or rural, and we still tend to throw away a lot of food and food packaging before and after cooking.

The social experiment of binning for food is not something I want to try, but it does drive home the fact that society discards enough food to support a couple on the streets with a total value that nudges our two-way trade with the U.S. A costly habit in terms of household and food-service economics as well in disposal, we have yet to unmask the repurposing of all that unloved food and its packaging.

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

Developing a Canadian food advantage

Farmers and the industry need to actually demonstrate that their products are produced sustainably

BY **TED BILYEA AND DAVID MCINNES**

What would you guess is the single most important ingredient in modern food production? Good seeds? Rainfall? Fertilizer? The surprising answer is that around the world, the scarcest and most precious resource for producing food is trust.

Luckily, Canada has natural advantages that could allow the people of the world to view us as their most trusted food source — if we make smart decisions.

To this point, much of the conversation about global food production has revolved around quantity: How will we produce enough for billions more people? But this is not the toughest challenge.

The bigger question isn't whether we can produce enough food but whether we can do so sustainably, without bankrupting the planet. We need to pay more attention to natural capital: our water, soil and the biodiversity of living organisms.

Around the world, trust in food production is taking a beating as the depletion of natural capital continues. In many areas, water use is exceeding natural recharge rates. Algae blooms, fostered by the overuse of fertilizer and the run-off of phosphorus from towns and cities, are threatening oceans and lakes. In Europe and elsewhere, pesticide levels in groundwater are a concern. In China, people have come to distrust local food so much that there is a booming trade in online imports. People are also becoming concerned about the links between health and food production.

Although most are not aware of the science, consumers are growing increasingly uneasy about how the food they eat is produced. This concern peeks through in popular movements about GMO foods, organic produce, “buy local” and so forth. But these are only ‘stalking horses’ for the more serious problems.

Must demonstrate progress

Winning trust goes well beyond trying to reassure consumers about how we grow food. Agriculture needs to show how it lives within the world's limited natural capital and actually enhance it. For instance, the global agriculture sector can shift from just improving its own carbon emissions to soaking up fossil fuel greenhouse gases. Evidence suggests that as the price of carbon rises, properly managed soils might make this eventually possible. Canada needs to be bold in advancing such innovative thinking.

Many countries are going to struggle with rising costs of food production as their environmental burdens increase. Countries that seriously deplete their aquifers are facing water deficits. Others have cleared vast tracts of tropical forests for agriculture. They have been facing consumer boycotts and sanctions as they become substantial GHG emitters and destroyers of ecosystems.

Supply chains are responding. For example, Canada is taking a leading role in sustainable beef production. Our retailers are part of a global effort to source seafood sustainably. Many producers here and abroad are managing pesticides and fertilizer use better. Many food companies are improving energy and water use.



Consumer preferences such as that for organic foods are only part of a large concern about whether food is produced sustainably. PHOTO: THINKSTOCK

Canada's 'big possibility'

Our strategic opportunity is recognizing that many countries will find it challenging to preserve, let alone enhance, natural capital. Canada, on the other hand, possesses an abundance of renewable freshwater and arable land relative to its population. Even our winters provide an advantage, acting as a natural pesticide.

Canada can define a powerful food brand as more and more consumers seek out trusted and more responsible suppliers. This is what the Canadian Agri-Food Policy Institute calls Canada's “big possibility.” Canada can position itself as a preferred food source and derive economic benefits from doing so.

But are we doing enough to truly leverage Canada's potential? We lack a common goal. We can aim to produce more food, to do so

sustainably and to improve its nutritional quality — all at the same time. This would place Canada even further at the leading edge of global food innovation. This effort will require strong collaboration across the food system, including agricultural suppliers, food producers, processors and retailers. It also extends to scientists, technology providers, financial institutions, the health community and others.

There would obviously be an important role for government. Tackling the big issues confronting the sector (such as climate change) also requires a more coordinated Canadian science agenda. Carbon pricing will change behaviour, drive innovation and allow markets to properly allocate resources. National data and measures can track our progress. These steps will help deepen trust.

But we must be smart about how we impose new regulations. We want to lead without giving our competitors a significant cost advantage. With its natural capital assets, Canada has a chance to improve its competitiveness if it can encourage consumers here and abroad to increasingly value natural capital and better reflect food's real ecological cost.

The expectations of consumers, our customers and even investors are constantly raising the bar. By coming together as a nation, we can build Canadian agriculture and food into an even greater economic powerhouse.

Ted Bilyea is chair and David McInnes is president and CEO of the Canadian Agri-Food Policy Institute (CAPI).

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to places like The Land Institute in Kansas, the University of Minnesota, the University of Manitoba, and Agriculture and Agri-Food Canada's Lethbridge Research Centre.

"I have some of that material out in the field that I'm evaluating from an agronomy crop usage perspective," said Jamie Larsen, a cereals breeder at the centre. "But I'm also using that material to cross with wheat to produce perennial wheat."

There's still some distance to cover before that goal is achieved, but it's getting closer.

"This year will be our first harvest testing them in row plots to look at yield potential on a larger scale," said Doug Cattani, a University of Manitoba crop researcher who helped bring intermediate wheatgrass to Canada.

"Right now, we're looking at 500 to 600 pounds per acre, however, the lines we're producing from are not the best we have for seed production."

That's a small fraction of what an acre of wheat produces but intermediate wheatgrass can produce for three or four years before there's a noticeable drop-off in yield, said Larsen.

And, of course, you can't graze a wheat field in the spring and harvest a crop off it in the summer.

"There's a real range of benefits beyond a winter annual," said Larsen. "After you take the crop off, there are a lot of growing days left that a perennial can grow rather than leaving the field bare until the spring. It's a competitive plant that can inhibit weeds germinating in the fall."

Another benefit is the increased ability to use intermediate wheatgrass fields as rotational pasture.

Larsen said the way he sees it working is seeding in the fall and allowing the plants to establish before turning livestock onto the field. The livestock can graze until the plant stops growing for the winter. Once spring arrives, the wheatgrass greens up earlier than native pasture, so livestock can be grazed earlier. (However, grazing in the spring needs to be done lightly and livestock must be pulled off before any damage is done to the main stalks, as this can affect yields as well as the longevity of the plant.)

"Once you include a grain harvest with grazing in the fall and the spring, you have the most economically viable farming method," Larsen said.

And there is potential for boosting yields, too.

A lot of Cattani's work over the past five years has been in finding plants that can survive the severe temperature swings of a Canadian Prairie spring, he said.

"In 2012, we had 20 C days in mid- to late March, and then with a -9.5 C day in early April, approximately 40 per cent of the plants suffered some sort of damage and many did not produce," Cattani said.

How long perennial wheatgrasses can remain economically viable is "the \$24-million question," said Larsen.

"We've only had good varieties to test with in the past three to four years, so there's not a lot of research," he said.

Cattani is looking to start developing large-scale research plots within the next few years to look at long-term production and viability.

But even though commercial production is years away, there's already a growing interest in the crop from companies, such as



Field of ripening intermediate wheatgrass at The Land Institute's research farm in Salina, Kansas on July 30, 2008.

PHOTO: LEE R. DEHAAN



Intermediate wheatgrass is the skinny cousin to spring wheat but, of course, you can't graze the latter and then harvest a grain crop later.

PHOTOS: USDA-NRCS

General Mills, that are developing sustainability strategies, he said.

"Commercial usage envisioned over the next 20 to 30 years is most likely a sourdough type of bread," said Cattani, adding it needs to ferment rather than rise with yeast.

But several U.S. restaurants are serving the grain in a fashion similar to naked oats and Prairie rice.

There's been success in using it as a pancake mix or blended with wheat flour for muffins as well, he said.

But farmers looking to get in on the ground floor may need to wait a little longer.

"At this point there's no seed available on the market," Cattani said. "It's not too far away, but we're not there yet."



"Once you include a grain harvest with grazing in the fall and the spring, you have the most economically viable farming method."

JAMIE LARSEN

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Lentil harvest – and marketing – comes with a learning curve

Lentils stay green into harvest, but you don't want to wait too long

BY JENNIFER BLAIR
AF STAFF

With Alberta lentil acres more than doubling in 2016, this fall will be the first-ever lentil harvest for a good number of growers.

The trick to doing it successfully? Patience, said Nevin Rosaasen, policy and program specialist with Alberta Pulse Growers.

"Harvesting lentils can be tricky, and you need to be patient," said Rosaasen. "Lentils pod up very close to the ground, and they are one of the more challenging crops to harvest. Just like a pea crop, they can be difficult to pick up."

"Most producers who are seasoned lentil growers will be using flex headers to help with contouring of the ground."

It can also be difficult to tell when the lentils are actually ready for harvest, said provincial crop specialist Neil Whatley.

"Lentils are different from other crops. With other crops, you can look from the road and say, 'OK, that looks like it's ready,'" said Whatley. "But lentils stay green. The indication for being ready to desiccate is that the lower pods rattle when shaken."

"What I generally do is walk up into the

crop, grab the top of the crop, and shake it. If you hear some rattling, get down and take a look."

When to start checking if the lentils are ready to desiccate depends on your seeding date, said Whatley, adding producers should check with their buyers about maximum residue limits on any desiccants they plan to use.

"If you seeded the beginning of May, you want to start looking the first of August and look for the next two weeks," he said.

"Some people seeded later, so it will be a little later than that. It's about a 95-day crop."

Because lentils have an indeterminate growth period, producers need to "compromise" by harvesting the high-yielding pods at the bottom of the plant when they're ready, even if the top of the plant is still growing.

"Even when these bottom and middle pods are ready, you may continue to see a little bit of flowering going on because of the indeterminate growth," he said. "But you want to prevent shattering, so you don't want to leave it too late."

Because of the possibility of shattering, safe storage of lentils is between 13 to 14 per cent moisture content, but take the crop off at a higher moisture level if possible, said Whatley.



If you haven't locked in lentil prices, keep a close watch on the markets as bids can move 10 cents or more on spikes, said Alberta Pulse Growers' Nevin Rosaasen. PHOTO: SUPPLIED

"If you take this crop and thresh it at 14 per cent moisture content, you can get some seed chipping and you'll definitely get some shattering of those lower riper pods," he said. "It's good to take this crop off at 16 to 17 per cent moisture content, put it on air, and bring it down to 14 per cent."

Marketing

There's a "learning curve" when it comes to marketing lentils as well, added Rosaasen.

"Hindsight is always 20/20, so I hope producers are locked in at 42 cents a pound. But for those who aren't, the best thing to do is to try to stay up to date and current on what's happening in other parts of the world, specifically in India with their monsoon season," he said.

"In lentils, we see market price can move 20 cents a pound during the season, though 10 cents is more likely. So you can take advantage of some of those opportunities when bid prices are higher in the November peak shipping period."

But one of the "largest caveats" with this year's increased acreage is the potential for a drop in quality, he said.

"It's been wet all across the Prairies, especially during key growing periods. We've seen a lot of disease pressure and waterlogging of soils, and that's been detrimental to the lentil plants. They don't like water," he said.

"In a wet year such as we've seen, it's not a great year for lentils. With the large amount of rainfall, it's doubtful that they'll grade up at a 1 or a 2."

"But we'll see. Let's keep our fingers crossed because they do show promise."

jennifer.blair@fbcpublishing.com

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Canada, the world's largest pulse exporter, is expecting a record pulse harvest this year. The Statistics Canada survey showed that field pea acres across Canada increased from nearly 1.5 million acres in 2015 to more than 1.7 million acres in this year, with an increase in Alberta pea acreage from 584,800 acres in 2015 to 752,600 acres in 2016.

An expanding market

Despite a depressed stock market and low commodity prices, the future demand for pulses is huge, said Peter Hall, vice-president and chief economist with Export Development Canada. The U.S. economy is growing and so is China's, along with its middle class and that of India's, he said.

With Canadian pulse exports on the increase, people came to the convention to see what's happening, said Gordon Bacon, president of Pulse Canada and CEO of the Canadian Special Crops Association.

"This is our biggest convention ever," Bacon told reporters. "This is the biggest number of international delegates that we have ever had. I think it is all saying what we've been feeling, and that is this, the pulse industry is in the midst of an expansion in market base. Not only are we a big supplier on a global, traditional market scale, but we are starting to see this new level of interest."

Back-to-back droughts in India, the world's largest pulse importer, have contributed to the increased demand, pushing world prices up and enticing Canadian farmers to produce more, he added.

And interest will only grow, Al-Katib said, based on what he sees in young people, including his 14-year-old daughter.

"I would consider (her) a socially conscious, very intelligent young lady," he said. "And she cares about her food labels. She wants to see natural ingredients. She cares about the environment. I wouldn't consider her an environmentalist, but I consider her somebody who is... what the model consumer 10 years from now is going to look like."

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The other side of the temporary foreign worker story

Sunterra Meats has helped dozens of 'temporary' employees become permanent residents — and they're revitalizing the town of Trochu

BY ALEXIS KIENLEN
AF STAFF

Ottawa's decision to grandfather the number of temporary foreign workers is being welcomed by food-processing companies.

"It's good news to the extent that we won't have to send anybody back," said Ray Price, president of Sunterra Meats, which runs farms, markets, and a small meat-processing plant in Alberta.

Federal Employment Minister MaryAnn Mihychuk announced earlier this summer that the cap will remain at 20 per cent of their staff for employers who hired temporary foreign workers prior to June 2014. Temporary foreign workers can account for no more than 10 per cent for companies who first used the program after that date.

Under the 10 per cent cap, Sunterra's meat plant in Trochu would have been forced to send back about three to five of their current temporary foreign workers.

The plant, which employs 130 people, hasn't been able to bring in more foreign workers for more than a year, since its staffing is so close to the 20 per cent threshold. The majority of the workers is from the Philippines, but Sunterra has also employed foreign workers from Mexico, Central America, eastern Europe, and Africa.

If Sunterra had to rely on Canadian workers, it would have a difficult time finding enough workers.

"It's hard to find staff for the meat plant, but we are getting more applicants than we have had for years because of the downturn in Alberta," said Price.

However, there's more turnover in staffing when Sunterra hires Canadian-born workers. Many live in urban centres, don't want to move to rural areas, and don't like the work — a problem faced by meat-processing plants across the country.

So Sunterra has focused on helping its foreign workers become permanent residents — with about 75 per cent of its current staff having achieved that status.



"It's a good-paying job in a community that wants them there and they're happy to be there."

RAY PRICE

"The majority of the meat and farming industry wants workers to stay and get them into permanent residency," said Price. "We don't think we're going to use them and send them home. By the time we've spent time training them, they feel valued — as they should — and their expertise goes up significantly and they're happy to be here. It's a good-paying job in a community that wants them there."

Price is hoping to extend the employment of some of his current temporary foreign workers, and move them through English

programs so they can become permanent residents.

Sunterra also uses the Alberta Immigrant Nominee Program (AINP) to move temporary foreign workers into permanent residency. That program stopped accepting new applications last fall because of a backlog, but reopened this spring.

"There were a few months there where we didn't have a path for our people — we couldn't apply for the AINP and we had the 20 per cent going to the 10 per cent," said Price. "We were concerned that the people

we had, we weren't going to be able to keep. With the AINP program opening back up, we're in the position that we can hang on to them until they can become permanent residents."

While the temporary foreign worker program has come under fire because of abuses by some employers, the benefits are plain to see in Trochu, a community of about 1,000 people, said Price.

"The school has just been renovated because enrolment is going up — it is one of the few rural communities that I know of where the school enrolment is going up," he said. "The town is really excited because there are more kids in school and new facilities in town. If you look at the population of Trochu, they'd say the program is good, because there are people in the school, the population is growing and more taxes are being paid."

"What might apply in Toronto or Montreal or even Calgary is not the same in rural Alberta. Or rural Saskatchewan or rural Ontario, for that matter."

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BUMPER WHEAT HARVEST ILL-TIMED FOR AMERICAN FARMERS

Record-high yields are helping U.S. farmers to harvest a bumper wheat crop, but prices have tumbled as the world is awash in supplies. The quality of the crop is also causing headaches for flour millers, who may have to buy more expensive varieties to increase the protein content enough to meet their product specifications. The USDA estimated the average yield in Kansas at a record-high 56 bushels per acre, a full seven bushels above the old record set in 1998. "It's a year to remember for the yield, and it's a year to forget for the prices," said Justin Gilpin of the Kansas Wheat Commission. — Reuters

EUROPEAN SALES PUSH DOWN DURUM PRICES

Global durum values are moving lower as producers in Europe and the U.S. start selling — and leaving Canada out of the market, one analyst says. "The only one that's not selling aggressively is Canada, and we're losing market share, big time," said Jerry Klassen, manager of the Canadian office for Swiss-based GAP SA Grains and Produits. European farmers are about 50 to 60 per cent finished harvesting durum, Klassen said, which is putting a damper on prices. Despite heavy rains in France, crop quality is better than expected, he added. — CNS Canada

MARKETS



BY PHIL FRANZ-WARKENTIN
COMMODITY NEWS SERVICE CANADA

Western Canadian spring wheat loses ground as prices erode

CWRS basis levels across Western Canada ranged from \$27 to \$29 below the futures

Spring wheat cash bids across Western Canada lost ground during the week ended July 22, as basis levels eroded. The declines in the cash market came despite relatively stable U.S. futures and sharp weakness in the Canadian dollar. Depending on the location, average Canada Western Red Spring (CWRS) wheat prices were steady to down \$2 per tonne, 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 C\$200 per tonne in southeastern Saskatchewan to as high as C\$212 in parts of Alberta. Quoted basis levels varied from location to location, losing anywhere from \$2 to \$7 on average to range from \$22 to \$30 per tonne above the futures when using the grain company methodology of quoting the basis as the difference between the U.S. dollar-denominated futures and the Canadian dollar cash bids.

When accounting for currency exchange rates by adjusting Canadian prices to U.S. dollars (C\$1=US\$0.7607 as of July 22), CWRS bids ranged from US\$152 to US\$161 per tonne. That would put the currency adjusted basis levels at about US\$21 to US\$30 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 C\$27 to C\$39 below the futures. There were no bids for Canada Prairie Red Spring (CPRS) wheat reported by PDQ on July 22. Bids posted earlier in the week were down by about C\$5 to C\$10 per tonne. Average CPRS prices came in at about C\$162 to C\$170 per tonne in Saskatchewan and Alberta. Average durum prices were down by \$4 to \$7 per tonne, depending on the location, with bids in Saskatchewan ranging from roughly C\$251 to C\$255 per tonne. The September spring wheat contract in Minneapolis, which most CWRS contracts in Canada are based off, was quoted at US\$4.9525 per bushel on July 22, down

1.5 U.S. cent per bushel from the previous week. The Kansas City hard red winter wheat futures, which are now traded in Chicago, are more closely linked to CPRS in Canada. The September Kansas City wheat contract was quoted at US\$4.1900 per bushel on July 22, up 5.25 U.S. cents compared to the previous week. The September Chicago Board of Trade soft wheat contract settled at US\$4.2525 on

July 22, which was up by 0.50 U.S. cent on the week. The Canadian dollar closed at 76.07 U.S. cents on July 22, which was down by over a cent relative to its U.S. counterpart on the week. 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.

Flood of damaged wheat going to feed market

The last time so much wheat was used as feed was four years ago, when drought slashed U.S. corn production

BY KARL PLUME
REUTERS

From the heart of the U.S. big Farm Belt to Colombia, Vietnam and Indonesia, livestock producers are snapping up wheat damaged by bad weather or low in protein, providing pigs and poultry with grain more often milled for making bread. The increased global purchases of cheap, poor-quality wheat for animal feed come as a combination of bumper crops and low prices increase its appeal compared to alternatives like corn. "There's a massive amount of wheat out there that didn't make the grade," said one U.S. grain merchandiser, who spoke on condition of anonymity. "The next best option is to either carry it or find another mouth for it as feed." Farms in the United States, the Black Sea region, Europe and Australia have had bumper harvests, which are likely to push global wheat stocks to record levels for the third consecutive year in 2016-17, according to the

U.S. Department of Agriculture (USDA). But quality problems have weighed on prices. Now wheat is eating into demand for corn — also a staple animal feed and already under pressure from its own ample global supplies. The USDA hiked its estimate for global wheat consumption in the coming year by 13.3 million tonnes to the highest ever, "primarily on increased feed use" which the agency estimated at 144.42 million tonnes. The last time so much wheat was used as feed was four years ago, when a harsh drought slashed U.S. corn production. This time around, bumper corn crops mean it is selling below benchmark-quality wheat, but discounts for damaged wheat and low protein make the difference. The USDA cut its forecast for global consumption of coarse grains, including corn, by 3.3 million tonnes. Chicago Board of Trade corn is currently 65 to 75 cents per bushel cheaper than wheat. But low-protein or grain-damage discounts are

"There's a massive amount of wheat out there that didn't make the grade."

U.S. GRAIN MERCHANDISER

more than \$1 per bushel, a price cut of at least \$36 per tonne, grain traders say. "Wheat's a great substitute for corn, there's plenty of it, and it's at \$7 or \$8 a tonne discount (to corn)," said a U.S. grain export trader who did not want to be named because he is not authorized to speak to the media. "I've had some Colombians take it, and I'd love to sell them more." Colombia's neighbour, Brazil, is an exception. It had its own feed wheat frenzy earlier this year when hog and poultry producers used wheat for the first time in a decade

as corn prices soared following a severe drought. Now, with a huge corn harvest rolling in, Brazil no longer needs to use feed wheat. Lower costs Grain customers in the United States — from livestock producer Cargill to major domestic hog producer The Maschhoffs — are using more wheat for animals. "We're seeing feed manufacturers and livestock producers gravitate toward wheat because it makes sense economically," said David Fairfield, senior vice-president of feed services at the National Grain and Feed Association. On the U.S. East Coast, home to some of the country's biggest pork production, ships carrying U.K. feed wheat have been unloading volumes not seen in years, as a weak pound and cheap freight give it a competitive edge, said Jack Watts at Britain's Agriculture and Horticulture Development Board. About 63,000 tonnes of wheat arrived from Britain in May, according to the latest customs data — the largest shipments since 2011-12.

But western European supplies of rain-damaged milling wheat find ready markets close to home. Black Sea export shipments are discounted \$25 a tonne to corn, compared with \$7 premiums in February. "You cannot substitute corn 100 per cent, but I think the animal feed manufacturers and importers will take wheat content to the limit," said a German trader who asked not to be named. Another German trader, who also requested anonymity, said demand for feed wheat has risen sharply from some of the big Asian importers, such as South Korea and Indonesia. The latter has already slapped controls on imports in a bid to encourage feed mills to use domestic corn. "Korean importers have told me that, in the present price constellation, they will switch to more feed wheat tenders from corn in coming weeks," this German trader said. "In South Korea alone, this could result in about 150,000 tonnes a month of corn imports being switched to feed wheat."

Restaurants call foul as dairy farmers get a second pay hike this year

World dairy prices are crashing but Alberta Milk chair says the latest increase is modest and won't hurt restaurant chains

BY ALEXIS KIENLEN
AF STAFF

Even though world dairy prices are at historic lows, Canadian dairy farmers will be getting a boost of 2.76 per cent for industrial milk — used to make butter, ice cream, yogurt, and cheese — starting Sept. 1.

It comes on the heels of a 2.2 per cent price hike in February.

"The industrial price index has gone up twice this year, which is an anomaly," said Albert Kamps, a Lacombe dairy farmer and chair of Alberta Milk. "It usually goes up once a year, but farmers were able to demonstrate that their returns were actually shrinking due to an increase of cheap, subsidized production. The goal of supply management is for half of our milk to be produced above the cost of production."

The increase comes as dairy markets in Europe, which ended its quota system 16 months ago, are crashing — down more than 14 per cent in a year. That prompted the European Union to up dairy subsidies last month by 150 million euros (C\$218 million).

While many of Canada's milk class prices are based on the world milk price, which does put



PHOTO: THINKSTOCK

downward pressure on farmers' returns, industrial milk prices are determined separately from fluid milk prices, said Kamps.

"On all milk, it's less than a two per cent price increase. We shouldn't see huge swings in milk prices," he said.

But Pierre Cadieux, the vice-president of Restaurants Canada, calls the increase a "short-term gain for long-term pain."

"It does not help to expand the market," said Cadieux, whose organization has 30,000 members. "We're in the business of expanding the customer base. We have the same goals; the dairy farmers and us. But for us, supply management is an economic straitjacket. We have no negotiating power."

Passing a price increase on to the consumer is not a good idea, he said.



"On all milk, it's less than a two per cent price increase. We shouldn't see huge swings in milk prices."

ALBERT KAMPS

"There's a tipping point there, where the consumer will shift from certain menu items at the retail level and decide not to buy or reduce their consumption of cheese or yogurt," said Cadieux. "That's the bottom line. No one likes price increases and we're all price sensitive. If we had access to a freer market based on more international prices, that would be mitigated. The irony is that these prices come in the context of low international prices, so we're against the international trend here."

The latest price hike will hurt his organization's members, he said.

"Our operators work on thin margins. A franchisee operator of a pizza place — he or she works hard for their money. You have to sell a lot of pizza to make a living,

and a two per cent increase when your margins are small just adds to that."

But Kamps argues the increase is not going to have a huge effect.

"I know the restaurant association is arguing that the price of pizza is going to go up, but if you do the math, a farmer's share of a medium pizza is 70 cents," he said. "If we get a two per cent increase, it might be another penny. That's the farmer's share."

"If it becomes more than that, that's on retailers and the middleman. If the price of pizza is going to go up, I don't see them changing menus for one cent. The farmer's share has very little to do with what happens at the retail level."

akienlen@fbcpublishing.com

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

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Ottawa is giving Canada Beef up to \$6.4 million over three years to promote beef in Asia, Europe, North America, and Latin America. "This investment will help strengthen the Canadian beef brand globally, leading to greater returns for our farmers and their families and continued growth in the middle class," Agriculture and Agri-Food Minister Lawrence MacAulay said in a media release. "The industry development funding Canadian cattle producers are able to leverage with their own investment is critical to positioning the industry for long-term growth and success in these lucrative markets," said Canada Beef chair Jack Hextall. — Staff

TRACEABILITY IN THE SPOTLIGHT

The Canadian Cattle Identification Agency will hold the inaugural Traceability Symposium 2016 in Calgary on Nov. 2-3. The two-day event will address traceability's role; regulations and compliance; challenges and solutions; other assurance systems; and lessons learned. It is expected to draw attendees from Canada, United States, European Union, Australia and New Zealand. Well-known food expert Sylvain Charlebois will be the keynote speaker. Charlebois is the dean of the faculty of management at Dalhousie University and a frequent contributor to this paper. — CCIA

LIVESTOCK

Get rid of your cattle if they're getting too big

Heavier cattle — particularly ones with small frames — can develop feet problems, especially if they suffer heat stress

BY ALEXIS KIENLEN
AF STAFF

Don't keep big, fat cattle around because it could increase animal welfare problems.

Animal welfare icon Temple Grandin has recently been sounding alarms about more lameness in beef cattle and part of that is related to heavier weights and genetics.

"There are certain genetic lines of beef cattle that are repeating a mistake the pig industry made back in the 1980s and early 1990s when it just selected for production traits and ended up with leg conformation issues," the Colorado State University professor told Australian newspaper *Farm Weekly* last month.

There are some challenges that can arise with heavier cattle, said feedlot veterinarian Joyce Van Donkersgoed.

"It really depends on the frame size of the cattle," said the Picture Butte-based veterinarian. "If they have the frame, they can carry the weight. You get exotic breed cattle like Charolais or Simmental Cross, those are big-frame cattle and they can carry the weight. It doesn't impact them.

"Where we tend to see more issues are in the British breeds, like the Angus or Herefords."

Smaller-framed animals that are raised to 1,500 to 1,700 pounds can become stiff in their gait.

"They don't quite walk, they waddle," said Van Donkersgoed. "If you keep them at that size for a long time, you will have feet break down on you."

Fat cattle, especially ones that are black, will also have more trouble with heat stress.

Cattle with founder (laminitis) — a condition caused by feeding too much grain — can also develop sore feet.

"The heavier you make them, the harder it is on their feet," she said. "Their feet are sore to start with and then you put more weight on them. And then it hurts more. Those cattle will get stiffer and stiffer and get pain in their feet.

"Those cattle, you shouldn't keep them around. You should sell them as quickly as you can."

The performance of cattle with founder will go down and they won't gain any more, she added.



Joyce Van Donkersgoed demonstrates processing techniques to students from Olds College. PHOTO: SUPPLIED

'Peel off the heavy ones'

The trend for size comes and goes depending on market price and the availability of feeder cattle.

"Feedlot guys make cattle bigger depending on the price of feed, the price of fat cattle, the price of buying replacements, and the availability of replacements. They're also looking at whether they have a contract to fill," said Van Donkersgoed.

Warm winters can make a difference in the speed that animals gain. This year's winter was mild, so cattle got bigger faster than they were projected to gain. If a packer changes their contract and delays shipping, this can add to the problem.

"If the (feedlot owner) had an agreement with the packer and then they can't ship cattle for another month, the feedlot guy is still going to have to keep them and feed them for another month and then they'll just get bigger," she said.



"They don't quite walk, they waddle. If you keep them at that size for a long time, you will have feet break down on you."

JOYCE VAN DONKERSGOED

When prices drop, the feedlot owner may keep on feeding cattle while waiting for a better price.

There are a few things that producers can do to minimize problems caused by heavier cattle.

Van Donkersgoed recommends sorting cattle into different weight classes, by weighing or ultrasounding them.

"Peel off the heavy ones and

send them right away," she said. "Put the lighter cattle into different marketing groups and you can feed them for different lengths of time.

"Get a consistent package of cattle going to the packer, which he wants. This makes sure that the packer doesn't give massive discounts on overweights. Producers can get dinged big time for overweight cattle."

Also, manage the cattle in groups, and try to ship them on time. Pen riders should be trained to find cattle that have foundered, pull them and ship them. And provide lots of water to reduce heat stress.

"Cattle don't sweat so if there's no wind to cool them off, you need to make sure you have a lot of water for them," she said.

In cases of extreme heat stress, cattle need to be fed early in the morning and late at night. If the ground is too hot, put out straw for bedding. Sprinklers can also help cattle cool off, as long as they aren't running during mid-afternoon.

But when in doubt, it's best to ship.

"If you have a pen of big black heifers and it gets humid and hot, those cattle are going to be in trouble for heat stress. You need to get them gone. They need to go on a truck and go bye-bye."

akienlen@fbcpublishing.com

Focusing on nutrition will also help the pasture

World-renowned holistic management specialist says green is not the only right colour for grass

BY JENNIFER PAIGE
STAFF / LENORE, MAN.

Many graziers have a theory that if you look after the soil, the rest of the operation will take care of itself, but Ian Mitchell-Innes looks at it the other way around.

"The biggest mistake that people make after learning about holistic management is they try and save the ground. I did this also when I first started out," Mitchell-Innes told a recent workshop at this village in western Manitoba. "But, then I shifted to really put the focus on animal performance, ensuring the cows were eating the right nutrients and rations, and the rest of the system looked after itself."

Mitchell-Innes spent more than 20 years operating his South African farm on holistic principles, and now travels the world sharing his knowledge on grazing management.

"My passion today is to make sure that other farmers and ranchers don't make the same mistakes as I made and make sure that they get the best animal performance at all times," said Mitchell-Innes, who is on his second visit to Canada. His three-day workshop focused on various aspects of holistic management, mob grazing and soil health.

He says the keys to grazing success is to develop a diversity of species in the pasture, ensure proper rest periods, balance green and brown feed and focus on animal performance.

"Having diversity in the pasture is huge — it is the most important thing," Mitchell-Innes said. "If we look at natural prairie, it had massive variety of plants. That is what we should be aiming for."

Select species – plural

He says often producers are too focused on species selection when they should be looking at incorporating as many different species as they can.

"Once a person looks at a certain species and gets fixated on that species, you run into problems. What you actually need is not an ideal species but a diversity of plants so that whatever weather and conditions are threatening us we have different plants that can continue growth."

Mitchell-Innes said that with a mixture of species growing together, root systems are stronger and the cattle will benefit from the variety of sugars and nutrients the different plants produce.

"Different species will have different effects on animal performance at different times of the year. So, I really suggest not staying focused on a species but on a mixed group of species for the best results."

Rest is another key aspect to successful grazing. Mitchell-Innes said plants hold most of their energy in the top two-thirds of the plant and that cattle should be moved before grazing all the way to the base of the plant.

"You don't want to graze down to the base of the plant as that is where the plant holds high levels of nutrients, including potassium, which can disturb the cows' nutrient balance. If you graze too low you will see a potassium overload and your pastures will be overgrazed and require an extended rest period."

Mitchell-Innes said that if the plant is continually grazed, the roots will get shorter and shorter and the plant will eventually die.

"Recovery time is extremely important. Overgrazing is a factor of time and not numbers. So, it doesn't necessarily matter how many animals you have grazing but more the time we expose it to animals to the plants on an ongoing basis."

Mix your colours

For best animal performance, Mitchell-Innes recommends feeding cattle a balance of green pasture grasses in combination with stockpiled grass or grass from the previous season.

"Green grass without any brown

does not supply sufficient oxygen levels to the animal. In the nutrition of an animal, all feed has an oxygen, hydrogen and protein value and we need a fixed value of 40.5 per cent oxygen to make sure that the animal's metabolism is working correctly."

Mitchell-Innes warned producers to be patient with their holistic management plans.

"Producers need to understand that working with nature takes time. Every part of the system has a learning curve to new procedures and it will take time for every part of the system to adjust to the new management techniques before you will really get to see the benefits."

jennifer.paige@fbcpublishing.com



South African holistic management specialist Ian Mitchell-Innes discussed management tactics with a group of Manitoba producers last month.

PHOTO: JENNIFER PAIGE



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BY ROY LEWIS, DVM

The criteria for selecting the right antibiotic

There are a lot of factors at play and all of them need to be considered in every case where antibiotics are an option

Although a few very effective antibiotics have been removed from the marketplace over the years, the choice has never been greater.

The challenge is there are so many factors hinging on the outcome, so deciding which antibiotic to use — or if one is necessary at all — can be a very difficult decision. Also with the ever-present possibility of antibiotic resistance, we as veterinarians need to decide what antimicrobials to stay away from or to only use in clinical cases when a lower-class antibiotic is not efficacious. Hopefully after reading this article, the thought process will become clearer.

One article can't clarify every possible combination, so you need to work with your veterinarian to decide on a strategy and the choices for at least the common diseases.

Reading the label is always beneficial as diseases for which clearance has been granted are written on the label. This alone gives you a start as to what types of diseases and subsequently what organ systems, the antibiotic will get into.

The majority of antibiotics, especially new ones, requires a prescription from your veterinarian and so you need to know the conditions it is used for, dosage,

method of administration, precautions, withdrawal, etc.

The first decision is whether antibiotics are even necessary. If there is no bacterial infection present or expected in the future, antibiotics may be unnecessary (viral infections are one example). On large mature cattle or feedlot animals, withdrawal times definitely need to be considered. If a condition becomes chronic, slaughter may be an option as we don't want to burden ourselves and the critter with a long slaughter withdrawal.

Other considerations will be the syringeability (especially important in winter), dosage amount, safety, means of administration (subcutaneous, oral, intravenous etc.), and the cost of the product per treatment day. Cost per day is really the way to truly compare treatment costs. The longer-acting products will cost more because they last longer. The upside is less labour and less stress on the cattle. (This may be nullified if other procedures or painkillers must be given on daily basis.)

The main questions we as veterinarians (and you as farmers) face are: What are the conditions, what organ system is primarily involved, and is causative bacteria likely? The answers to these questions determine the most appropriate first-, second-, and third-choice treatment options.

The best choice takes into account farmer preference, as well as past and current research. Veterinarians will even have different 'favourites' for specific conditions. There is almost never a single choice.

A few antibiotics are called broad spectrum, which means they work against a wide array of bacteria in different organ systems. The older sulphonimides as well as newer drugs like Nuflor, Resflor, or Excenel are fairly broad in their effect. Other drugs are very specific — for example, treatment of pneumonia. The macrolide antibiotics are a class of drugs which specifically get into the lungs. Drugs such as Zuprevo, Draxxin, Zactran, and Micotil are all macrolides, and are used primarily for bacterial pneumonia and only a few other things. All prescription antibiotics are fairly specific for pneumonia or only a few other conditions.

Veterinarians may also prescribe them for very specific things, such as seminal vesiculitis in young bulls. There will never be a label claim against these oddball infections. A veterinarian's experience is invaluable in writing an extra-label prescription. If we do see resistance against one drug in an antibiotic class it is usually resistant to the other drugs in that class.

There are two big classes of bacteria — gram positive and gram

negative. Clostridial infections such as blackleg or anthrax are caused by gram-positive organisms. We were always told at veterinary school: P for positive and P for penicillin. This older antibiotic is still quite effective against certain conditions and most veterinarians still use it. Diseases such as blackleg produce toxins and the animal succumbs quickly, so prevention in the form of vaccination is the only effective way to prevent this disease.

To be effective, the right drug must be administered at the right time and right dosage. Weight must be estimated correctly. These antibiotics have been formulated to be effective at the appropriate dosage. Twice as much as necessary will not be more effective and will only cost you more and result in an increased drug withdrawal time. The safety rule of thumb is that if you double the dosage, you double the slaughter withdrawal. Always keep that in mind.

I would be remiss here if I didn't mention supplemental drugs, such as painkillers, anti-inflammatories, and appetite stimulants. For specific disease, they are often given in conjunction with antibiotics to quicken or improve the response. Again your veterinarian can advise what works best.

Selecting the appropriate medication for a specific disease takes some thought. The biggest step saver is recording what products you use (record either the active

ingredient or trade name) and list the diseases it is effective against as well as the dosage. Have a first and second choice and your own specific farm SOP set up by the veterinarian. This will go a long ways to making sure the appropriate product is given especially by new workers.

As well, put up drug dosage charts (available for most products) by the chute, and list withdrawal times. Have epinephrine handy (in case you get a drug reaction) and have the appropriate syringes and needles. Remember a lot of products you use require a prescription and only use products approved for cattle unless you have a written prescription from your veterinarian. Refrigerate the appropriate products and protect others from freezing. Doing all these things should maximize effectiveness of the products.

The future will see more and more vaccines and immune stimulants used, but good management is required to minimize disease and antibiotic usage.

The bottom line is we will always need them to a certain degree, so selecting the right one and using it appropriately will yield the best results.

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.

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Sales & Special Projects

tiffany.taylor@fbcpublishing.com

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SPACE & MATERIAL DEADLINE:

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If you're going to feed hail-damaged crop to livestock, test it first

Doing a feed test 'is much cheaper than losing an animal,' says beef extension specialist

BY ALEXIS KIENLEN
AF STAFF

Hail damage this summer is approaching an all-time high — and with many producers putting livestock on their ruined fields, the risk of nitrate poisoning is also shooting up.

So be sure to do a feed test first, said a beef extension specialist with Alberta Agriculture and Forestry.

"A feed test is much cheaper than losing an animal," said Andrea Hanson.

Sometimes producers will wait to see if crops recover after hail, but nitrate levels in damaged crops can continue rising. (That doesn't happen when a crop is swathed).

Many municipal districts and counties have feed probes that can be used for tests and producers who have baled the crop should test from several bales to get a representative sample, said Hanson.

"It only needs to be a large Ziploc bag of feed that gets taken in," she said.

Nitrates accumulate in plants stressed by drought, hail, or frost. There is a much smaller risk of nitrate poisoning from perennial hay. Alfalfa, for example, stores nitrogen in the nodules, and only pushes it up into the plant when it's needed. In an annual crop, nitrates can build up over time, depending on growing conditions.

"The big thing that producers need to understand is that a simple feed test can help producers manage anything that they may have to deal with, with that feed."

ANDREA HANSON

"The big thing that producers need to understand is that a simple feed test can help them manage anything that they may have to deal with, with that feed," said Hanson.

Feed that contains nitrates can be fed, but nitrate levels need to be managed — the higher the level, the more the feed needs to be diluted.

When ingested, nitrates are converted to nitrites and if levels are too high, the rumen can't deal with them and they get into the blood system. The result is similar to carbon monoxide poisoning — an increased heart rate, muscle tremors, vomiting, and laboured breathing can all occur. An animal may start to stagger, and the area around its lips and other membranes will be blue from lack of oxygen. The blood of animals who die from nitrate poisoning will often appear chocolate brown.

If an animal dies from nitrate poisoning, other animals should be pulled off the feed immediately.

"If you have just cut the crop, don't just turn out the cows and walk away. Be vigilant and be watching, and check to see what the animals are looking like," said Hanson.

A guide on how to properly sample feed is available at www.foragebeef.ca (search for 'feed testing'). It's also important to find out what kind of nitrate test was used, as limits are different depending on how the nitrate was tested. A conversion chart for feeding nitrate can be found at www.agriculture.alberta.ca (search for 'nitrate poisoning').

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Unlike swathed fields, nitrate levels in hailed-out crops can continue to rise and that increases the risk of nitrate poisoning. PHOTO: ALLAN DAWSON



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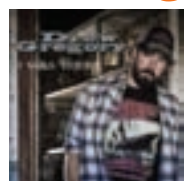
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MIGHT NOT BE SO COLD THIS WINTER AFTER ALL

The U.S. government’s weather forecaster has reduced the odds of La Niña forming this fall. The Climate Prediction Center said there is a 55 to 60 per cent chance La Niña will develop during the fall and winter of 2016-17. That’s down from its June forecast, which placed the odds at 75 per cent. La Niña, which is typically less damaging than El Niño, is characterized by unusually cold ocean temperatures in the equatorial Pacific Ocean. It tends to occur unpredictably every two to seven years. Severe occurrences have been linked to floods and droughts, and it usually brings colder-than-normal temperatures on the Prairies. — Reuters

NASA’S NEW MISSION: IMPROVE FOOD SECURITY

A drive by NASA to stream climate data to West African nations using its earth-observing satellites could boost crop production in a region hit hard by climate change, experts say. NASA recently launched a hub in Niger’s capital Niamey that will use space-based observations to improve food security and better manage natural disasters. The project, which will cover Burkina Faso, Ghana, Senegal and Niger, is one of four regional hubs worldwide. Local farmers, who say traditional methods of predicting the weather are no longer reliable, will now receive weather updates via text messages. — Thomson Reuters Foundation

WEATHER



Heat, heat and more heat — except on my vacation

It was cold and rainy in the Rockies but around the world, heat records are being set all the time

BY DANIEL BEZTE

I am back from my two-week trip to the mountain parks of southeastern B.C. and southwestern Alberta, and if you are into nice day hikes and mountain biking, then Fernie Provincial Park is the place to go in this region.

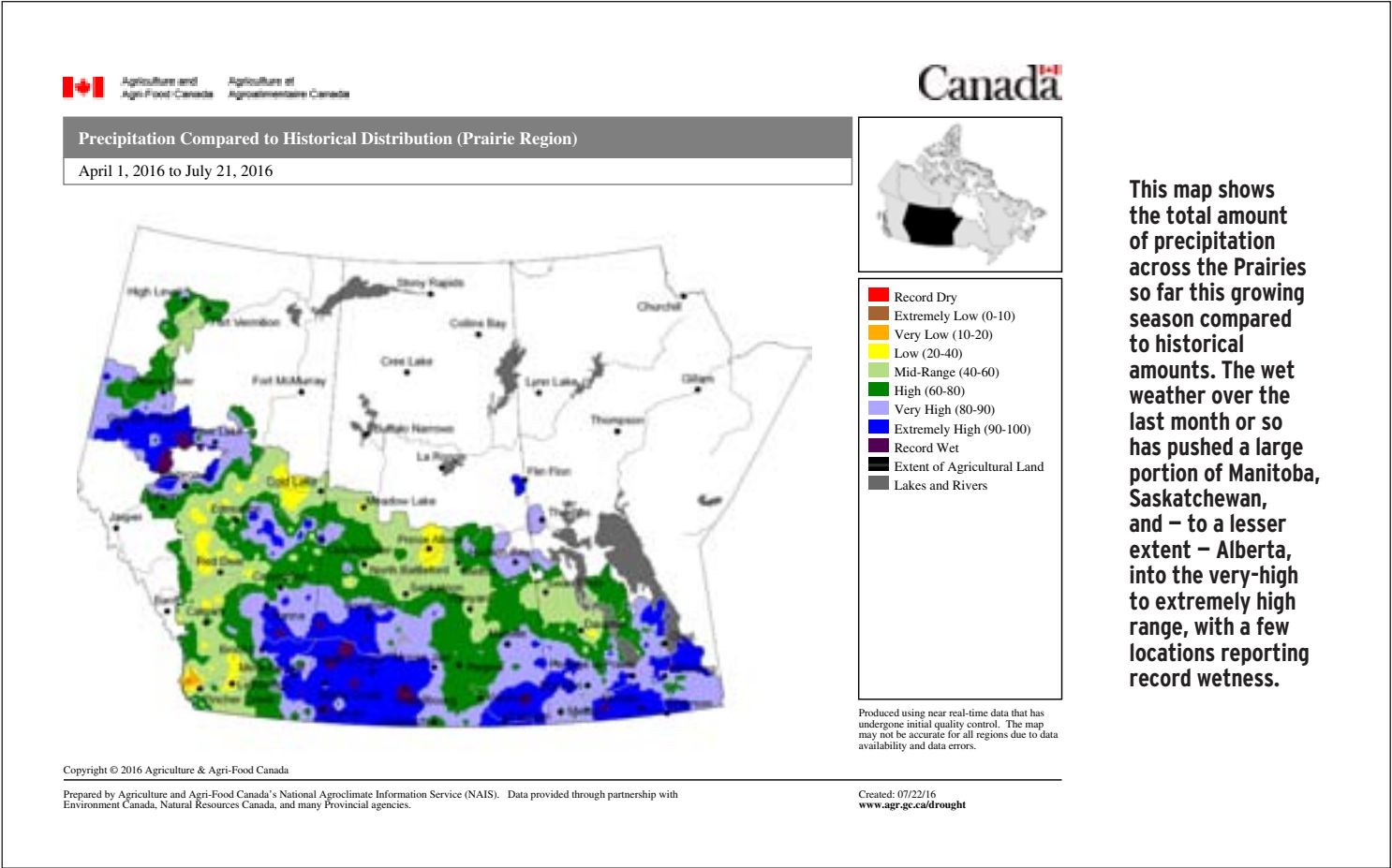
From a weather point of view it was darned cold, cloudy, and wet for pretty much the whole trip. My little weather station — of course I would bring a weather station — showed that with the exception of a couple of days with some sunshine, the average daytime high was about 15 C with overnight lows in the 8 C range. I am also strangely proud to say that it rained, at least a little, every single day.

The fact that I was doing a lot of hiking made the weather not too bad as it kept you from overheating on those uphill climbs. Having to constantly carry a backpack full of rain gear for my family did get to be a little annoying by the end though.

The biggest issue I had with the weather was the difficulty in trying to predict it using simple observation. It really goes to show that even if you know a lot about how weather works, nothing beats the knowledge you gain by living in and observing the weather in an area. On the Prairies, it is relatively easy to see what is coming your way. In the mountains, you never know what might appear only 10 or 15 minutes from now as the mountains cut off your view. They also create a lot of their own weather, and with so many variables controlling these local effects, it was nearly impossible to figure out. Of course, now that I’m back home it’s sunny and warm back in the mountains — go figure!

It’s been a while since we looked at what’s been going on around the world from a weather point of view. So, in no particular order, here are some of the recent highlights:

In the tropics, the eastern Pacific hurricane season kicked off slowly in June, but July has seen a record number of storms. As of July 22, there have been seven



named storms, which ties the July record. With three of these storms becoming hurricanes, there is a good chance that the July record of four hurricanes in this region could be tied or broken.

On the other side of Mexico, in the Gulf of Mexico, the opposite is happening. The gulf has now gone 1,041 days (as of July 23) without a hurricane. With no computer models predicting a hurricane by the end of the month, it looks like there is a good chance that this region will break the record for the longest period without a hurricane, which was set back in 1886. That said, it is interesting to note that the amount of heat energy in the Atlantic, Caribbean, and Gulf of Mexico is currently at record to near-record levels. So if any systems do develop, there is a lot of energy for them to work with.

Keeping on the topic of heat, one of the hottest reliably measured temperatures ever recorded on Earth happened on July 22 in Mitrihab, Kuwait, when the daytime high peaked at an aston-

ishing 129.2 F or 54 C. The key word in this is ‘reliably,’ as there are several readings that have occurred around the world that are higher than this. But most, if not all of them, are highly questionable. While this is insanely hot, if we look at the daily highs for Mitrihab over the last month the ‘coolest’ day was 45.9 C for a high with the ‘coolest’ overnight low a chilly 27.9 C. Keep this in mind next time you want to complain about how hot it is outside.

Once again, June global temperatures broke records, making it the 14th consecutive record-setting month, according to NASA. June 2016 came in 0.90 C above the 20th century average, which beat out June of 2015 by a slim 0.02 C. For those of you who trust more in the satellite record of global temperatures for the lower eight kilometres of the atmosphere, the University of Alabama in Huntsville reported June 2016 was the second-warmest June on record.

With such a warm beginning

to the year globally, there is about a 99 per cent chance that 2016 will be the warmest year on record. However, with El Niño now ending and a good chance of a La Niña event developing, we may see the end to the consecutive monthly global temperature records sometime soon.

Finally, let’s take a look at what is going on with ice cover in the Polar Regions. In the Arctic, every month (except March) has set a new record low for ice cover. But it looks like that will end in July as stormy weather has led to a decrease in the rate of ice melt. As of July 18, ice cover was at 7.82 million square kilometres, which is just more than two standard deviations below the average. Whether or not we’ll see a new record sea ice low this year is questionable as there would need to be a fairly dramatic shift in current weather patterns in this region between now and the end of August for this to happen.

In the Antarctic, sea ice extent has been running near to slightly

below average for several months now. New research into the unusual pattern of increased Antarctic sea ice extent over the last several years — which goes against most climate warming models and has been used by some to try and show that climate models are wrong — is showing that the expanding sea ice is tied into the Interdecadal Pacific Oscillation. This is a decade or longer pattern of high and low pressure, which is driven by precipitation and convective heating occurring in the tropical Pacific. Long story short, this new research suggests that the models are not wrong, but explains why there can be an increase in Antarctic sea ice, even as the planet is warming.

As you know, when it comes to weather, things are never simple!

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.

NEW TOOL COULD SPEED CROP BREEDING

Alberta's barley breeders now have access to both phenomic (field trial) and genomic data in one place. "The phenomic data is in the hands of the breeder, but the genomic data is generated through lab work," said provincial researcher and biostatistician Rong-Cai Yang, who developed a new software program called the Barley Breeding Platform (BBP). "Usually they can't talk to each other because they are produced in two different ways. The BBP brings them together." It can take up to 12 years to move from germplasm to commercially available seed, but having both sets of data could reduce that by years, he said. — AAF



CROPS

Harvest loss a costly – and preventable – problem

Going just a bit faster can be way more expensive than any speeding ticket

BY JENNIFER BLAIR
AFF STAFF

Growers are leaving profit on the ground every time the combine hits the field.

"You've grown it, you've put the inputs into it, and it's free for the taking. Why not take it?" said Nathan Gregg, project manager at the Prairie Agricultural Machinery Institute.

Harvest losses depend on the crop, but typically, one to two bushels per acre is considered an "acceptable" loss, said Gregg.

"Unfortunately, in a lot of cases, we see up to five to 10 bushels an acre of losses," he said. "I've been in fields where we've seen losses of 15 bushels per acre in a canola crop that the producer thought he was doing a good job with."

Losses can be caused by many factors, but they start with a "lack of awareness," said Gregg.

"Not checking to see if losses are there is the main culprit on a lot of operations," he said. "I think we're getting a little bit better. The message is getting through, and producers are starting to check, and that's somewhat related to the price of commodity grains."

"As people are checking more, they're doing a better job of limiting those losses."

That can be tough to do during the busy harvest season, though.

"It's a busy season and there's lots to get done," he said. "The goal on everyone's mind is to get that crop off before something happens to it, so stopping to check is not really



Thar she blows – and the only way to know how much grain is being blown out is to measure it. PHOTO: THINKSTOCK

high on the agenda when there's a nagging concern to get the job done.

"But checking in any format is better than not checking at all."

The best way to check is to remove the chopper from the combine and drop residue material in a windrow behind the machine, using a catch pan to collect the residue in order to measure losses.

"But a lower-effort methodology is to try and catch the residue as it's discharged off the straw chopper or residue spreader. That's not terrible — it's just not as good," said Gregg.

"It introduces opportunities for error. The loss that comes out of the combine may not be distributed evenly, so if you're just catching a pan on the periphery of the discharge pattern, that may not be where the grain is discharged, even though that's where some of the straw and residue is."

Once the discharge is caught, you

can remove the residue, either by hand or using a small leaf blower, to get a seed count.

"Collect the loss, and in some format, try to apply a metric to that, whether that's seed counting on larger kernels or by weight or by volume — anything that gives you context to know whether the adjustments that you're making in speed or combine settings are resulting in more or less loss."

Harvest loss triggers

Once you're aware of how much seed you're leaving in the field, you've won half the battle, said Gregg.

"The fact that you're even considering it will make it so that you're paying attention when those environmental conditions change throughout the day," he said, adding wind or temperature can affect how the crop flows through the combine.

"If you're paying attention, maybe you'll start to realize some of those triggers and realize you need to adjust some of your settings or your travel speed to adapt to the crop conditions."

Losses can happen in many places — "from environmental shattering losses to losses at the header and the cutter bar and throughout the combine process itself. There's different opportunities for grain to be lost and not retained in the combine."

But one of the primary causes is human nature — giving into the desire to get the job done faster.

"There's always settings and optimizations that can be made to try to address the crop conditions and cater the machine to that," said Gregg. "Typically, speed is the thing that tends to get neglected. We think that we can drive at a certain speed in all conditions at all yield levels."

New combines have so much horsepower that they don't always give you a "visceral response to tell that something isn't going quite right."

"You don't feel the rumble in your seat or hear the engine pull down like it used to in heavy conditions."

Producers also need to realize "it's not one setting for one crop all season," he added.

"We need to be in tune with what's going on with the environment," said Gregg.

"First-harvest wheat will behave differently in the combine than last-harvested wheat. We need to be aware of how that can change over the course of a season and even over the course of the day."

jennifer.blair@fbcpublishing.com

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Keeping green in the ground all season

Ryan Boyd has grown winter wheat for nine years and says it’s a good fit on his farm

BY JENNIFER PAIGE
STAFF/BRANDON, MAN.

Why waste three months of sunlight on bare ground when you could grow some profit? That is the notion a number of western Canadian producers have begun to experiment with, including Ryan Boyd, a farmer in western Manitoba who says he’s seen several benefits from adding winter wheat into his rotation. “Looking at dollars and cents I think it has a lot of potential, and I definitely like having winter wheat in the ground to give us some options in the spring,” Boyd said at a Ducks Unlimited field tour at his farm earlier this summer.

The goal was to give other local producers a first-hand look at how Boyd has integrated winter wheat into his rotation, said Michael Thiele, a grazing clubs co-ordinator with the organization.

“Ryan probably won’t have a day here where there isn’t something green growing. From the first growing day in the spring, to freeze-up in the fall, and that has some enormous benefits in terms of yield, as well as for the environment,” Thiele said.

“Ducks has been very active in supporting research into new varieties. I don’t think that is really well known but it is something it has been very committed to and put a lot of funding into.”

The organization has partnered with Bayer CropScience, the Mosaic Company Foundation and Richardson International to form the Western Winter Wheat Initiative with the goal of building awareness and credibility for winter wheat as a crop option in Western Canada.



Ducks Unlimited hosted a grazing tour at Ryan Boyd’s operation on June 30 to discuss the benefits and challenges of growing winter wheat in western Manitoba. PHOTO: JENNIFER PAIGE

Growing popularity
In recent years winter wheat has been gaining popularity among some Prairie producers, both for agronomic reasons and because it moves seeding and harvest to different times of the year. “We got into the winter wheat because we thought it would add to the crop rotation and looked liked the financial rewards were there,” said Boyd. “It really does add some good diversity to our cropping rotations.” According to the winter wheat

initiative, the crop has yielded 21 per cent more than Canadian Western Red Spring wheat over the past three years in the Prairie provinces. Producers have also found it to be a solution to moisture issues as they have been able to avoid late-seeding issues in years with wet springs. “If I plant the winter wheat, at least I have something in the field growing. That in itself made it a lower-risk crop with the alternative being nothing,” Boyd said.

On-farm examples
This season, Boyd is growing two fields of winter wheat and as his fields progress, it is clear to see he likes to experiment with new ideas in crop production. His first field was sown with hairy vetch last fall and in the spring Boyd added peas and crimson clover. “We seeded winter wheat on spring wheat from last year with the hairy vetch. We seeded the winter wheat at 150 pounds but we did have some issues with hair-pinning,” Boyd said. He seeded the wheat and hairy vetch last September and 60 pounds of peas and added two pounds of crimson clover on April 27.

Boyd intends to combine the 80-acre field, which he has applied 25 pounds of phosphorus, 30 to 35 pounds of nitrogen, and five pounds of sulphur. “It is starting to take shape. It didn’t look like much all spring, but now the peas have filled in the cracks and in the past week they have really started to branch out and fill in.” Thiele says there are some real benefits to having more than one plant growing in a field at a time. “The more diversity you have, the more resiliencies you have in that system. If it is hot or dry or wet or cold, something will do better than something else. When you are locked into a system with one plant and the conditions are not perfect, you will obviously have problems,” Thiele said. Thiele also suggests red clover as another viable option to mix, noting that it is commonly used in Ontario with winter wheat. Boyd’s second field consisted of winter wheat that was sown with a hay mix. “I actually underseeded this to hay thinking we would get the hay established. We were planning to hay it for two years and that would clean up the wild oats and the cleaver we’d been seeing,” Boyd said. He seeded the wheat in the first week of September at 150 pounds per acre, and has applied 120 pounds of nitrogen, 30 of phosphorus and five of sulphur but has not used any herbicide.



“We got into the winter wheat because we thought it would add to the crop rotation and looked liked the financial rewards were there. It really does add some good diversity to our cropping rotations.”

RYAN BOYD

“Other reasons winter wheat works for us is because it provides a herbicide rotation. Most years we are not spraying for wild oats in our winter wheat crop so that is a big benefit in terms of putting off the resistance that might be coming down the road.” Boyd says the crop’s earlier maturity also helps avoid the potential for grade losses due to early frost.

Winterkill not a big concern
One of the biggest concerns for producers is winterkill, but the initiative says winterkill on the Prairies is similar to Kansas — about nine per cent. More often, the problem is snow melting in spring, draining into low spots, and then freezing and killing plants in those low spots, said Ken Gross, winter wheat expert and agrologist with Ducks Unlimited. For those who may be thinking about growing winter wheat, Thiele recommends visiting www.growwinterwheat.ca. “What we are doing is putting all of the agronomic information on the website for producers to see,” he said. “You can go in there and see what other producers in the area are doing for things like fertility, rates of nitrogen, fungicides, seed treatment, seeding date, what they seeded into, what they did in the fall, what they did in the spring.” The website also offers up a production manual, survival model, calendar, seeding rate calculator, soil temperature guides, management timelines and a bushel/tonne converter. “All these things are very important and we have worked to gather all that information on there to answer some common questions,” Thiele said. “It is a good place to start.”

jennifer.paige@fbcpublishing.com



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Canadian researcher touts benefits of barley

A Canadian research review has found barley can play a role in reducing harmful types of cholesterol

STAFF

A research review from a Canadian hospital says there's a clear link between eating barley and reduced levels of two types of "bad cholesterol" that are associated with heart disease.

The paper, written by researchers at Toronto's St. Michael's Hospital, looked at 14 studies on clinical trials conducted in seven countries, including Canada.

Barley reduced both low-density lipoprotein, or LDL, and non-high-density lipoprotein, or non-HDL, by seven per cent, it said.

The review also indicated that barley had similar cholesterol-lowering effects as oats, which is often the go-to grain for health benefits.

It is the first study to look at the effects of barley and barley products on both LDL and non-HDL cholesterol in addition to apolipoprotein B, or apoB, a lipoprotein that carries bad cholesterol through the blood. Measuring non-HDL and apoB provides a more accurate assessment for cardiovascular risk, as they account for the total 'bad cholesterol' found in the blood.

"The findings are most important for populations at high risk for cardiovascular disease, such as Type 2 diabetics, who have normal levels of LDL cholesterol, but elevated levels of non-HDL or apoB," said Vladimir Vuksan, research scientist and associate director of the Risk Factor Modification Centre of St. Michael's. "Barley has a lowering effect on the total bad cholesterol in these high-risk individuals, but can also benefit people without high cholesterol."

Despite its benefits, Vuksan said barley is not as well established as some other health-recommended foods — such as oats. Barley consumption by humans has fallen by 35 per cent in the last 10 years. Canada is one of the top five world producers of barley but human consumption accounts for only two per cent of the crop yield, with livestock making up the other 98 per cent.

Barley is higher in fibre, has twice the protein and almost half the calories of oats, which are important considerations for those with weight or dietary concerns.

Vuksan recommends trying to incorporate barley into existing recipes, using it as a substitute for rice or even on its own — just like oatmeal.



PHOTO: THINKSTOCK

A wolf in sheep's clothing

AAAF RELEASE

NOXIOUS WEEDS

Many people think of baby's breath as a cute, delicate filler flower found in rose bouquets. The real plant found in the Prairies couldn't be further from this image.

This weed has a taproot that can reach the astonishing depth of four metres, and it can grow as wide as 41 centimetres in circumference. And the multiple tiny white flowers on this noxious weed can produce 10,000 seeds per plant, and allow it to push out native flora and take over the landscape.

During times of drought, such as the one we have just experienced, baby's breath is able to thrive by

accessing water much deeper than most native plants. This can lower the water table to a point that it is inaccessible to native plants desperate for moisture, thereby killing them off and leaving more room for this invasive plant.

Baby's breath can be identified by its bluish-green colouring and opposite lance-shaped leaves. In the fall, its stalks will turn into a tumbleweed and spread the seeds across the landscape.

Brought over with the settlers in the 1800s, it escaped people's gardens and has been infesting the landscape ever since. Many infestations can be traced back to graveyards where people left flower bouquets for loved ones. (Any floral arrangements should be disposed of properly in landfill-bound garbage where the seeds will be buried in anaerobic conditions and decompose.)



The size of this baby's breath plant shows how well it can prosper in the Alberta landscape.

PHOTO: AAAF

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).



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



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

I M P O R T A N T N O T I C E



Canadian Grain Commission Commission canadienne des grains

Grain producers: Important changes to wheat classes and variety designations

As of August 1, 2016:

- Two new wheat classes will come into effect: Canada Northern Hard Red and Canada Western Special Purpose.
- Three wheat classes will be eliminated: Canada Western Interim Wheat, Canada Western General Purpose, and Canada Western Feed.

As of August 1, 2016

Canada Western Interim Wheat varieties move to Canada Northern Hard Red class

Faller	Prosper	Elgin ND
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Canada Western General Purpose varieties move to Canada Western Special Purpose class

AAC Proclaim	Broadview	CDC Kestrel	CDC Raptor	Peregrine	Swainson
AAC Innova	CDC Clair	CDC NRG003	Minnedosa	Pintail	WFT 603
AAC NRG097	CDC Falcon	CDC Primepurple	NRG010	SY087	
Accipiter	CDC Harrier	CDC Ptarmigan	Pasteur	Sunrise	

As of August 1, 2018

Canada Western Red Spring varieties move to Canada Northern Hard Red class

AC Abbey	AC Minto	Columbus	Leader	Pasqua
AC Cora	Alvena	Conway	Lillian	Pembina
AC Eatonia	Alikat	Harvest	McKenzie	Thatcher
AC Majestic	CDC Makwa	Kane	Neepawa	Unity
AC Michael	CDC Osler	Katepwa	Park	5603HR

Canada Prairie Spring Red varieties move to Canada Northern Hard Red class

AC Foremost	AC Taber	Conquer	Oslo
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As of August 1, 2019

Canada Prairie Spring Red variety moves to Canada Northern Hard Red class

AC Crystal

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There can be a deadly danger in your dugout

Toxins from blue-green algae can be fatal if ingested by livestock, but you can reduce the risk



Toxins produced by blue-green algae can cause organ damage or even death if ingested by livestock or pets. PHOTO: THINKSTOCK

ALBERTA AGRICULTURE AND FORESTRY RELEASE

It's the time of year to keep watch for blue-green algae. "Blue-green algae is actually cyanobacteria, and can produce toxins that can be very dangerous," said Shawn Elgert, a provincial agricultural water engineer. "It can cause organ damage or even death if ingested by livestock or pets. If you are trying to determine the cause of poisoning, there are other potential toxins on the farm that can also cause damage to cattle such as poisonous plants. An example of this is water hemlock."

The first important step is to identify the type of growth, he said. "Blue-green algae can look like blue-green scum, pea soup, or grass clippings suspended in the water. You should start watching for it when the temperatures increase."

If blue-green algae is suspected in a dugout, be cautious. "You should contact a water specialist to diagnose the growth to determine if it is potentially a toxic growth," said Elgert.

"You should also remove your livestock from the water source in the interim and prevent them from accessing it. One rule of thumb is that if you can grab it as a solid mass in your hand, that is not blue-green algae."

There is a copper product registered for use on blue-green algae in farm dugouts. "Once you treat it, consumption should be restricted for up to a month. The use of copper will break the cells open and release the toxins, if present, into the water all at once. So it's important that you stop using the water during this time so the toxins can degrade. You can follow up with aluminum sulphate and/or hydrated lime treatments afterwards to remove the nutrients from the water to prevent regrowth."

There are also preventive measures that can be taken. "Temperature is an important factor in the growth of blue-green algae, so a deeper dugout with slopes that are not too flat would help make the dugout water cooler."

For information on reducing nutrients — which are required for growth of blue-green algae — from entering a dugout,

see the *Quality Farm Dugouts* manual (go to www.agriculture.alberta.ca and search for 'quality dugout').

"Buffer strips and grassed waterways are examples of how you can reduce nutrients," said Elgert. "Dugouts should not be built in the waterway as sediments can bring more nutrients into the dugout and depth can be lost quickly. Aeration of the dugout can also help improve the water quality. Also, a dye packet can be thrown into the dugout to help prevent photosynthesis from occurring, thereby reducing the growth of blue-green algae. However, one action alone may not be enough to prevent growth."

Wind can push the blue-green algae into highly concentrated pockets where the risk of harm is higher. "Since blue-green algae can rise or fall in the water column, inspection of the dugout should include peering into the deeper part of the water. Always be safe around the dugout by going along with another person and have a rope with a flotation device attached."

For more information or assistance, contact an Alberta Agriculture water specialist at 310-FARM (3276).



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No spoofing — futures trader gets three years in jail

CHICAGO/REUTERS

A U.S. judge sentenced futures trader Michael Coscia to three years in prison, a lighter punishment than prosecutors had sought for the first person criminally convicted of the manipulative trading practice of spoofing.

Coscia also was sentenced last month to two years of supervised release from jail, in a case that was closely watched by traders who want to avoid similar charges and market regulators.

Spoofing involves placing bids to buy or offers to sell futures contracts with the intent to cancel them before execution. By creating an illusion of demand, spoofers can influence prices to benefit their market positions.

Prosecutors and regulators hope Coscia's prison term will discourage other traders from trying to spoof markets. His prosecution was the first under an anti-spoofing provision of the 2010 Dodd-Frank financial reform.

Coscia was accused of using computer algorithms to quickly place large orders that he never intended to execute into markets run by CME Group and Intercontinental Exchange. The markets involved are alleged to have included soybean meal and soybean oil as well as copper, gold and currencies.

This year’s Prairie quinoa crop off to a good start

Contracted acreage has tripled from last year, and prices are up 10 cents a pound

BY ERIN DEBOOY
COMMODITY NEWS SERVICE CANADA

It’s a long way from its original home in South America, but the Prairie quinoa crop is doing well on increased acreage this year.

There is only one company growing and producing quinoa in Canada — Northern Quinoa Corp. It’s grown and contracted small acreages of quinoa for the past 20 years, but the rising popularity of this so-called ‘super-food’ is changing that.

“We have a total of 15,500 acres between (Alberta, Saskatchewan and Manitoba),” said Colin Dutcheshen of Northern Quinoa. “That’s increased threefold; last year we had only around 5,100 acres.”

Growers this year span from Peace River to Fisher Branch, Man., Dutcheshen said in early July, and for the most part, quinoa crops were looking really good so far.

“Saskatchewan and Manitoba have been getting a lot of wet weather right now... but it hasn’t been excessive for the most part and with that, quinoa is coming along nicely,” Dutcheshen said.

“It doesn’t particularly like overly wet, which it hasn’t been, and it’s not getting extra hot, which is a benefit right now because it’s going into its flowering stage.”

There are 103 producers growing quinoa this year, Dutcheshen said. Most crops are in the northern parts of the provinces.

Because it’s a fairly new crop in the Prairies, Dutcheshen said quinoa isn’t pressured by disease.

“Disease won’t be a really big problem. If we get excessive rains that could be an issue; at the moment hail is our biggest concern,” Dutcheshen said. “We’re advising our growers to insure their crops for hail because that is something that can happen any time.”

“It doesn’t particularly like overly wet, which it hasn’t been, and it’s not getting extra hot, which is a benefit right now because it’s going into its flowering stage.”

COLIN DUTCHESHEN
NORTHERN QUINOA

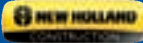
Northern Quinoa does everything under a production contract with farmers. Both area and price are higher this year.

“We offer 70 cents per pound on production, which is up from last year’s 60 cents per pound,” Dutcheshen said.



Quinoa growing in its native area around Lake Titicaca in Bolivia. Colin Dutcheshen of Northern Quinoa says the crop does best in northern areas of the Prairies. PHOTO: MICHAEL HERMAN/WWW.CROPSFORTHEFUTURE.ORG

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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**
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 WINDROWERS
2012 Case IH WD2303, 36ft.....**\$89,0000**
2012 Case IH WD2303, 36ft, 550 hrs, single reel, sheers**\$110,000**
2011 MF 9430, 36', PU Reel, 480 hrs, header transport**\$95,000**
2011 MF 9430, 36', PU Reel, 530 hrs, header transport**\$95,000**
2008 WD1203, 36ft, hyd roller, 550/403 hrs.....**\$95,000**
2007 MF 9435, 30 ft, 1007 hrs**\$85,000**

USED HAYBINES
1999 NH 1475, 18ft**\$11,999**

USED 4WD TRACTORS
2014 Case ih 600, loaded, 920 hrs**\$439,000**
2008 Case IH 535, 3550 hrs, guidance, luxury PTO, sus cab, 36"**\$269,000**
2008 Case IH 485, Quad, PTO, 30" Tracks, luxury cab, 5430 hrs**\$199,000**
2004 JD 9520, 800 R38 duals, weights, HID, diff locks**\$189,000**
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**
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 NH, 94C-36, 36', PU Reel, transport, cr adapter.....**\$49,000**
2009 HB SP30, 30ft, trans, fits 2588 and older**\$29,000**
2009 NH 94C-36, 36ft PU reel, transport, cr adapter**\$49,000**
2008 MacDon D60, 40 ft, adapter, auger, trans**\$38,000**
2008 NH 94C-30, 30ft, AFX adapter, transport.....**\$29,000**
2007 HB GB30, 30ft, AFX adapter, transport**\$129,000**
2005 NH 94C-30, 30 ft hyd fore/aft., trans, gauge wheels**\$39,500**
1994 MacDon, 960-25, 30ft, tr adapter.....**\$15,000**

USED ROUND BALERS
2008 NH BR7090SA, standard PU, bale com, net/twine, 4920 bales.....**\$22,900**

USED HARROWS
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.....**\$239,000**
2009 Case IH 4420, Guidance, 120ft, Aim, auto box, 2 sets tires, 2200 hrs**\$239,900**
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**

NEW GRAIN CARTS
2014 Unverferth 1610, U-Harvest, scale, tarp, tracks**\$149,000**
2013 Unverferth 1315, scale, tarp**\$82,000**

USED SKIDSTEER
2013 Case SV250, cab/AC, heat, radio, 2 spd, 2775 hrs, new tires, hyd coupler, H controls**\$39,000**

* See Dealer for Details, Restrictions May Apply.

HEARTLAND

Community news
and events from
across the province

A great idea takes flight in Alberta

The following is a report from Logan and Megan Andrews of the South Slope 4-H Beef Club in Newell County on their experiences with last year's 4-H pheasant project. Logan, 15, has just completed his seventh year in the club and has done market steer and heifer projects in addition to the pheasant project. Megan, 13, has been in 4-H for four years and has also done heifer and sheep projects. This year, 91 4-H'ers in five regions in Alberta received 9,690 pheasant chicks to foster. For more on this and other 4-H Alberta activities, see www.facebook.com/4halberta.

BY LOGAN AND
MEGAN ANDREWS

When our 4-H regional specialist, Ginny Smith, presented the 4-H clubs with the opportunity to take part in a pheasant project we couldn't refuse.

We learned that we would partner with the Alberta Conservation Association (ACA) and it would help us navigate through this exciting new project. The thing that sparked our interest the most in the pheasant project was the opportunity to release these pheasants that we raised back into suitable habitat. We have seen a steady decline in the pheasant population in and around our area and this would be an excellent way of contributing to habitat conservation.

The ACA hosted a pheasant-raising presentation that covered pheasant husbandry from day-old chicks up until the 14-week release date, pen construction, and basic habitat needs. It also provided each new 4-H member with netting along with feeders and waterers.

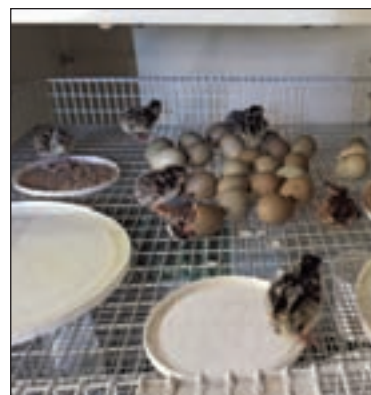


Megan Andrews holds an egg from one of four hens that she and her brother overwintered. PHOTOS: ANDREWS FAMILY

With all this new information it was time to get started finding a brooder house and constructing our flight pen. We received 200 day-old chicks on May 13 (100 each) and used a 10x12 wooden shed for our brooder house. At seven weeks, we moved the pheasants out into the flight pen as they were getting too big for the brooder house. Our flight pen is a 50x150 area. We were so surprised at how big our chicks got so fast.

On Aug. 19, the ACA picked up 112 of our pheasants to release into certain habitat areas it had sourced. We were able to release 35 pheasants onto our own property. We had four different release sites. The most exciting part of the project was releasing the pheasants and seeing them thrive in their new habitat.

We kept four hens and two roosters in our flight pen to overwinter. We did not have any experience in this but thought it would be a fun and interesting aspect of the project. We had great success overwintering our birds. In the spring, we collected the eggs from



Megan and Logan Andrews incubated 40 eggs and had 20 of them hatch in April.



Last August, the Andrews family released 35 of the pheasants they had fostered onto their property. This spring, they spotted one of the hens they had released with 10 chicks trailing behind her.

the hens and put them in an incubator that we had. We collected 40 eggs over a period of time, with 20 hatching. We put these chicks into the brooder house and began the process again.

We believe the best part of the project was this spring when we were out on our property in one of the release sites and we saw a hen that we released last August with her 10 chicks closely behind. The project was a true success!

We were thrilled with the new opportunity that 4-H gave us, as well as the partnership and enthusiasm we received from the Alberta Conservation Association.

Passionate about livestock? AFAC needs you

Alberta Farm Animal Care (AFAC) is seeking volunteers to help with the ALERT line. Volunteers need to be passionate about livestock welfare and knowledgeable about current practices of care.

AFAC is especially in need of volunteers with knowledge of any livestock species in northern Alberta and in remote locations, but welcomes volunteers from anywhere in the province.

The ALERT line is a confidential call line for anyone to report livestock care concerns and people experiencing problems in caring for their livestock. The organization has a veterinarian program; works with Alberta SPCA and RCMP;

and informs members of the public that farmers do care for their animals.

For more information on the ALERT line policies and procedures along with finding the waiver form that volunteers will need to sign, Google 'afac alert line manual.'

A 22-minute training video that will help future volunteers get an idea of what to expect can be found at www.youtube.ca — search for 'Alberta Farm Animal Care webinar' and click on the video titled 'webinar.'

For additional information, call the ALERT line at 1-800-506-2273 or email Kristen Hall at kristen@afac.ab.ca. — ABP Grass Routes newsletter/AFAC

Explaining agriculture — one sign at a time

Consumer interest in how food is produced is at an all-time high — but most people don't really know what they're looking at when driving through farm country.

But Agriculture of Life has come up with an innovative campaign called 'What's in the Field?' to address that.

The idea is simple: Producers register at www.agriculture-forlife.ca/whats-in-the-field; request signs; and say what they want printed on each (such as 'Canola' or 'Limousin cattle'). The large signs (about 10 feet wide), will then be sent by courier or mail to the farm. (There is no fee, but producers have to supply their own stakes.)

"The What's in the Field' campaign gives Albertans the opportunity to learn and under-



stand where their food comes from, while at the same time giving producers the opportunity to work together to showcase the industry and their crops or livestock," said Ag for Life CEO Luree Williamson.

Ag for Life plans to make this an annual campaign running from July to October, and Williamson predicted it will be a hit, especially with families.

"Great games of 'guess that crop/breed' will now have answers," said Williamson. — Staff

what's up

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

Aug. 2: High Legume Pasture Project, Holden Community Hall, Holden. Contact: Eric 780-582-7308

Aug. 2-4: Alberta Wetland Rapid Evaluation Tool (ABWRET-A) Training Course, Edmonton and area (also Aug. 10-12, Edmonton and area). Contact: Laurie Hamilton 403-483-2476

Aug. 3: CARA's Crop & Soil Health Field Day, Chinook Applied Research office, Oyen. Contact: Olivia 403-644-3777

Aug. 3: Whole Farm Water Planning Day, Rick & Lorinda Thomes Farm, Blueberry Mountain (also Aug. 4 at Hines Creek). Contact: Peace Country Beef & Forage Association 780-835-6799

Aug. 3: Holistic Management Open Gate (Merle Good), Redtail Farms, Castor. Contact: Kelly Sidoryk 780-872-2585

Aug. 4: Forestburg Field Day Tour, Battle River Research Office, Forestburg. Contact: Eric Neilson 780-582-7308

Aug. 8-10: Transboundary Water, Weeds, & Stewardship Tour, Montana and southern Alberta. Contact: Kerry 403-642-2255

Aug. 9-11: Canadian Beef Industry Conference, Grey Eagle Resort and Casino, Calgary. Contact: Rick Dehod 780-427-4466

Aug. 13: Canadian Heritage Breeds Livestock Conference 2016, Lacombe Agricultural Society Sales Pavilion, Lacombe. See www.canadianheritagebreeds.ca for details.

Aug. 20-21: Alberta Open Farm Days, various locations across the province. See www.albertafarmdays.com for details.

Aug. 22-24: Jim Gerrish Level II Grazing School, Longview. Contact: Rachel McLean 403-995-9466

Aug. 24: High Legume Pastures with Jim Gerrish, Longview. Contact: Rachel McLean 403-995-9466

Aug. 29: Hort Snacks in the Field — Strawberry Varieties, The Jungle Farm, Red Deer. Contact: Ag-Info Centre 1-800-387-6030

Oct. 18-19: Livestock Production: Managing in a Time of Unprecedented Change, Hotel Delta, Edmonton. Contact: Andrea 403-948-1528

Nov. 9-13: Farmfair International, Northlands EXPO Centre, Edmonton. Contact: Suzanne Bielert 780-471-7300

Changes to the CFIA’s weed seed list

A new Weed Seed Order listing prohibited species takes effect November 1

BY JENNIFER PAIGE
STAFF/BRANDON, MAN.

The Canadian seed trade is being reminded to watch for changes to the CFIA’s Weed Seed Order (WSO), which specifies which species are allowable in pedigreed seed.

“When we are purchasing seed at a time when the new WSO is coming into effect, it is best to mention in your purchasing contracts that the product you are accepting will meet the new WSO. Most exporters will be aware of the changes as we are consulting with them but that way you have that extra layer of protection,” Anita Gilmer, acting national manager of the Canadian Food Inspection Agency (CFIA) and senior specialist told the Canadian Seed Growers’ Association’s annual general meeting in early July.

The CFIA regulates the import, export and sale of seed through the Seeds Act via the WSO in hopes of preventing new weed species from being introduced into Canada.

The new WSO, which takes effect on Nov. 1, replaces a version that was enacted in 2005 and was thought by industry to be out of date. The CFIA began consultations in 2007 with the goal of reclassifying species that were incorrectly listed and adding new species of concern.

Highlights

Eleven species have been moved from the WSO’s prohibited noxious — class one to primary noxious — class two.

“Those species include poison hemlock, jimsonweed, leafy spurge, the hoary cresses, red barista, Russian knapweed, horse nettle, nodding thistle and Johnson grass,” Gilmer said.

“These species were considered too widespread to be listed as prohibited noxious, and we are vulnerable internationally if we are regulating species higher on import than we do domestically.”

The new Weed Seed Order also sees 17 species added to the prohibited noxious list.

“It has been determined that these species, if established in Canada, would have extensive repercussions. For these reasons, these additions have been made to the class one prohibited noxious list,” Gilmer said.

The 17 new species include slender foxtail, yellow bluestem, silver beardgrass, Iberian starthistle, squarrose knapweed, Pater-son’s curse, British yellowhead, spring mil-letgrass, dallis grass, African-rue, devil’s-tail tearthumb, kudzu, South African ragwort, Madagascar ragwort, silverleaf nightshade, medusahead rye and Syrian bean-caper.

Camelina and chicory have been removed from the WSO entirely.

“Camelina was previously on WSO 2005 and it has been removed from WSO 2016 through a number of consultations. As many are aware, camelina is more of a crop than it is a weed in today’s agricultural sys-tems,” Gilmer said.

Watch imports

She said the most common places where prohibited species have been found in the past have been in combines and car parts coming across the border and in organic grain from India or China.

If one of the prohibited species is found in Canada, CFIA may invoke the Plant Protec-tion Act to mitigate risks.

“The CFIA inspector would determine the appropriate risk mitigation and create a response plan in consultation with CFIA staff and the affected stakeholders,” Gilmer said. “Slender foxtail was detected in a seed



Anita Gilmer, acting national manager of the Canadian Food Inspection Agency spoke on the new Weed Seed Order during the recently held Canadian Seed Growers’ Association’s annual general meeting in early July.

PHOTO: JENNIFER PAIGE

lot in Manitoba and it is in the situation where the CFIA inspector is determining the risk and managing the situation.”

The Canadian Seed Analysts Associa-tion is hosting workshops throughout the summer for accredited analysts to become familiar with the changes.

In addition, CFIA has developed an online

“It has been determined that these species, if established in Canada, would have extensive repercussions.”

ANITA GILMER

database, which includes fact sheets to help in identifying seeds of the weed species.

“We have never had a digital repertoire of photos like this. The Saskatoon lab has been very busy over the last while prepar-ing all of the pictures that will fill this data-base,” Gilmer said.

“There is a lot of good information com-ing up on the CFIA website,” said Roy van Wyk, executive director of the Canadian Seed Institute (CSI), the national group charged with being the single point of con-tact for all seed establishments, labs, opera-tors and graders who are seeking registra-tion, licensing or accreditation.

“They have a number of wonderful fact sheets up there now with really high-reso-lution pictures and background on some of these weeds. I definitely think it is worth the visit,” van Wyk said.

To see the new fact sheets, visit www.inspection.gc.ca and search for ‘weed seed fact sheets 2016.’

Links to the new WSO and related docu-ments can be found on the CSI website www.csi-ics.com.

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1956 CESSNA 172, 3335 TTAF, 2100 TTAEE, new C of A, cylinder compressions: 1/75, 3/76, 5/74, 2/77, 4/76, 6/73, \$26,500, runs and flies great. 403-819-1504 or email: dbrundage@shaw.ca Calgary, AB.

1967 CESSNA 150G single eng. prop, 150 HP 2200 TT, 180 SMOH, Stol kit, LR fuel, 406 and GPS, skis, exc. cond., \$55,000. 867-393-4890, 867-332-8393, Whitehorse YT. macpherson@northwestel.net

1952 C35 BONANZA, 594 SMOH, 10.4 since prop, E225 Continental, 160 MPH at 10 GPH, excellent bird, NDH, \$39,500. Trades considered. 306-230-6660, Saskatoon, SK. Pics. nsanft@shaw.ca

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AUCTION SALE FOR Estate of Sophia Liss, Rose Valley, SK., Sunday, August 21/16, 9:30 AM. Includes 2 quarters land, buildings, machinery, household and antiques. RM #367 Ponaass Lake. View: www.ukrainetzauction.com PL 915851.

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CONSULTING 2901

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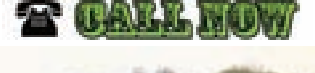
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BIN MOVING, all sizes up to 19' diameter, w/wo floors; Also move liquid fert. tanks. 306-629-3324, 306-741-9059, Morse, SK.

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USED WESTEEL ROSCO Bins Two 3350's; One 2750. All with new style doors. 1\$/bu OBO. 306-648-7766, Gravelbourg, SK.

MERIDIAN FERTILIZER BIN w/site glass, ladder and bottom manway, 1620 tonne, 4119 bu. Reg \$25,165, Sale \$17,999. Arcola Co-op, Hwy 13 Arcola SK 306-455-2393.

CUSTOM GRAIN BIN MOVING, all types up to 22' diameter. 10% spring discount. Accurate estimates. Sheldon's Hauling, 306-961-9699, Prince Albert, SK.

2015 CIM BIN Cranes (Westeel design), 8000 lb. capacity. For factory direct pricing and options call 306-682-2505, Humboldt, SK. or www.cim-ltd.ca

8 HYDRAULIC BIN JACKS, "Bainter Style", c/w Honda 5.5 HP hyd. powerplant, jacks used once, like new, \$17,500. Call 780-208-8880, Vegreville, AB.

SUPERIOR BINS: Large diameter concrete or steel floor mounts. All sizes available. Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK.

2- 1650 WESTEEL ROSCO bins on wooden floors, one floor fair condition, \$850 each. Call Greg at 306-436-4426, Milestone, SK.

2- WESTEEL ROSCO 3300 bu. steel bins, not hopped on concrete pads, ladders and lid openers, good condition. Phone for details. 306-259-4430, Young, SK.

USED WESTEEL WIDE-CORR grain bin, Model 2710, 10 tier, 18,790 bu., external stiffeners, 13 roof vents, \$12,000. Call 306-645-4526, Rocanville, SK.

BOOK NOW, TAKE DELIVERY, DON'T PAY UNTIL NOVEMBER, 2016. Top quality MERIDIAN bins. All prices include: skid, ladders to ground, manhole, set-up and delivery within set radius. Meridian Hopper combos: 3500 bushel, \$10,450.

SPECIAL: 5000 bu., \$13,990. We manufacture superior quality hoppers and steel floors for all makes and sizes. Know what you are investing in. Call and find out why our product quality and price well exceeds the competition. We also stock replacement lids for all makes and models of bins. Leasing available. Hoffer Services Inc., 306-957-2033, Odessa, SK.

TALBOT HOT BIN SEALING, we seal bins on wood and concrete floors. Serving SK., AB. and MB. 306-631-0203, Moose Jaw, SK. talbotbinsealing@gmail.com

STORAGE/CONTAINERS 4005

20' AND 40' SEA CONTAINERS, for sale in Calgary, AB. Phone 403-226-1722, 1-866-517-8335. www.magnatesteel.com

STORAGE/CONTAINERS 4005

SHIPPING CONTAINERS FOR SALE. 20'-53', delivery/ rental/ storage available. For inventory and prices call: 306-262-2899, Saskatoon, SK. www.thecontainergy.ca

20' AND 40' SHIPPING CONTAINERS, large SK. inventory. Ph. 1-800-843-3984, 306-781-2600.

BOND SEA CONTAINERS. New, used and modified sea containers. All sizes avail. Buy, rent or lease. Call Bond today 306-373-2236, joe@bondind.com or visit www.bondind.com

20' TO 53' CONTAINERS. New, used and modified. Available Winnipeg, MB; Regina and Saskatoon, SK. www.g-airservices.ca 306-933-0436.

CONTAINERS FOR SALE OR RENT: All sizes. Now in stock: 50 used, 53' steel and insulated SS. 306-861-1102, Radville, SK.

FARM MACHINERY

AERATION 4103

GRAIN GUARD INLINE bin fan, 3 HP, Reg \$2,311. Sale \$2,011. Arcola Co-op, 13 Hwy, Arcola, SK. ph 306-455-2393.

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

MERIDIAN AUGER PLAIN, no engine. Reg \$4,810, Sale \$4,250. Arcola Co-op, 13 Hwy., Arcola, SK., ph 306-455-2393.

GRAIN GUARD INLINE bin fan, 3 HP, Reg \$1,703, Sale \$1,503. Arcola Co-op, 13 Hwy, Arcola, SK. ph. 306-455-2393.

CONVEYORS 4106

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

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

FERTILIZER EQUIPMENT 4112

LOOKING FOR A floater or tender? Call me first. 36 years experience. Loral parts, new and used. Call 403-650-7967, Calgary, AB.

MERIDIAN 300 TON SS liquid fertilizer tank, 2- 3" SS valves, like new, \$42,500. 306-921-6697, 306-921-8498, Melfort, SK.

GRAIN AUGERS 4115

GRAIN AUGERS 4115

EARLY HARVEST SPECIALS: Large selection of Meridian swing/away and belt drive augers, set-up and ready to use. Also dealer for Convey-All conveyors. Leasing available! Dale, Mainway Farm Equipment, 306-567-3285, 306-567-7299, Davidson, SK. View www.mainwayfarmequipment.ca

SAKUNDIAK 7x45 WHEATHEART mover, hyd. winch, binsweep, 24 HP Onan, exc. cond., \$4500. 306-233-7305, Cudworth SK

2009 BRANDT AUGER, 13x70, electric mover w/remotes, hyd. winch, reverser, light, good cond., \$13,500. 306-921-6697, 306-921-8498, Melfort, SK.

2010 BRANDT 1390 HP swing auger, very clean, \$16,500. Contact Chad 306-741-7743, Swift Current, SK.

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

GRAIN CARTS 4118

NEW 2016 ARMSTRONG 750 bu. 4 wheel grain cart, \$26,900. **K&L Equipment and Auto**, Ladimer, 306-795-7779, Ituna, SK.

KINZE 1050 GRAIN CART tandem duals, PTO drive, scales, \$35,000. 403-647-7391, Foremost, AB.

2008 BRENT 1080, \$38,000; 2001 JM 750, \$25,000; 2003 Bourgault 750, \$26,000; Hyd. drives, delivery avail. 306-563-8482.

KILBRO 950 BU. grain cart, new tires, tarp and paint, field ready, \$18,000. Call 306-731-7235, Earl Grey, SK.

2004 BRENT 1084, tandem walking axle, always shedded, 1000 bu., rubber and fighting good, green in color, \$42,500. Call Chad 306-741-7743, Swift Current, SK

GRAIN CLEANERS 4121

6 CLELAND DOUBLE spiral separators, fair condition, \$3000. Call 306-335-2280, Lemberg, SK

WANTED: 5 TO 7 tube Kwik-Kleen grain cleaner. Glen 306-640-8034, Assiniboia SK

WANTED: CARTER DAY #3 Uniflow Indent cleaner. 306-862-3573, Nipawin, SK.

DUAL SCREEN ROTARY grain cleaners, great for pulse crops, best selection in Western Canada. 306-946-7923, Young SK

GRAIN DRYERS 4124

VERTEC 3600 GRAIN dryer, natural gas or propane, \$4500 OBO. Call 306-548-4344, Sturgis, SK.

5500 VERTEC CONTINUOUS grain dryer w/24' Swett loading elevator leg, 48' Swett unloading elevator leg, multiple head with 4- 6" pipes. Includes propane tank, shunt augers. \$20,000. Prince Albert, SK., 306-961-1444, 306-426-2535.

GRAIN ELEVATORS 4127

R W ORGANIC IS offering for sale, lease or rent a **grain elevator** in Gravelbourg, SK. built in 1982. 144,000 bu. cap. with warehouse storage. Call Jason 306-354-2660.

GRAIN BAGS/ EQUIPMENT 4116

GRAIN VACUUMS 4133

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

HARVESTING/HAYING

BALING EQUIPMENT 4139

NH 1033 BALE WAGON, good condition, field ready. Can deliver. 306-882-3141, Rosetown, SK.

JD 450, 7' sickle mower, original knife, not shedded, \$1200. 306-744-7955, Saltcoats, SK.

NH BR780 and 660 round balers, shedded and field ready, \$9500 and \$4800. Maple Creek, SK., call 306-563-8482.

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

HESTON 565 ROUND baler, good cond., \$4500; MacDon 5020 16' haybine, \$10,000 306-634-7920, 306-421-1753, Estevan, SK

278 NEW HOLLAND square baler, 1/4 turn. 306-460-9440, Smiley, SK.

2009 JD 568 round baler, mega-wide PU and netwrap. 306-264-7742, Kincaid, SK.

MOWER CONDITIONERS 4142

RETIRING: 2015 MF 1386, 16' discbine with warranty, 500 acres, shedded, \$41,000. 403-599-3790, Milo, AB.

SWATHERS 4145

Look Here

2007 MF 9430, 2376 hrs., Outback Auto-Steer, vg, w/30' header, \$49,000 or w/36' header, \$53,000. Call 306-862-7524, 306-862-7761, Nipawin, SK. agriquip.ca

MF 200 SWATHERS: 30' w/PU reel, DS and Schumacher knife, \$15,000 OBO; 26' w/PU reel, DS and Keer shears, \$14,000 OBO; 22' header only w/PU reel and Keer shears, \$3000 OBO. Buy the whole fleet with books and parts for \$30,000 OBO. 306-280-6101, Riverhurst, SK.

2003 CASE WDX1101, 30', 1335 eng. hrs., double swath, 2 spd. trans., hyd. tilt, gauge wheels, exc. cond., always shedded, Yorkton, SK. area, call 306-527-9897.

VERSATILE 400, 18', batt reel; **JD 580** 25' PT swather. Located near Shellbrook, SK, call 780-618-6031, 306-747-3447.



2011 M150 c/w D60 40', 300 hrs., shedded, very good cond., \$119,000. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2010 MF 9220 swather, 30', 516 hrs., shedded, mint condition, \$60,000 OBO. 306-932-7127, Ruthilda, SK.

GRAIN BAGS/ EQUIPMENT 4116

SWATHERS 4145

2012 NH H8060 w/36' draper header #HW3388A, 509 hrs., HB36 header, \$105,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

2006 CASE/IH WDX1202 w/36' draper header #W228168, 1057 hours, \$63,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

2011 MF 9430 SP swather 36', excellent condition, \$80,000 OBO. 306-260-5802, 306-231-8212, Humboldt, SK.

885 **MASSEY** SP gas, 1700 hrs., 30', **66" opening**, PU reel, HD wobble box, dual Roto-sheers, new canvases, spare parts. 306-335-2777, Lemberg, SK.

2012 JD D450, 240 eng./140 cutting hrs., c/w ATU, JD 630D, dbl. knife, fore/aft, PU reel, \$95,000. 780-679-7795 Camrose AB

2013 MF 9740 w/36' draper header #W226578, 180 hrs., 36' center delivery header, \$127,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2008 WD 1203 swather, 1380 hours, new cutting bars, guards 2015, \$55,000. 306-231-8999, Humboldt, 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

2012 MF WR 9740, 36', 400 hrs., \$99,000. 0% for 36 months OAC. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2013 MF 9725 w/30' draper header #N22068A, 174 hrs., 30' center delivery \$98,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

IH 4000 24' SP swather, AC, air seat, PU reel, big tires, \$4500. 306-634-7920, 306-421-1753, Estevan, SK.

JD 2360 SWATHER, 18', new canvases, knife and wobble box just rebuilt, 2010 hours, very nice unit, always shedded. Phone cell 403-318-4706, Eckville, AB.

JD 590, PT, 30', batt reels, exc. cond., \$4500. **MF 9420**, SP 30', 989 hrs., sliding table, shedded, \$55,000 Retired. 306-493-7871, Harris, SK.

PICKUP REEL PARTS WAREHOUSE: MacDon, U2, JD, Hart Carter, CNH, AGCO. We distribute parts for all PU reels. Call 1-800-667-4515. www.combineworld.com

2- NH 8040's, 36', double knife drive, hyd. fore/aft, pea auger, PU reel, hyd. tilt, air ride susp., mounted roller, 60 hrs., \$115,000. 403-647-7391, Foremost, AB.

1993 MF 200, 2200 hrs., 30' swather, PU reel; Also swath roller. Call 306-759-2651 or 306-759-7745, Brownlee, SK.

2015 MACDON M-155 40' D65 double knife drive, GPS, hyd. roller, 47 cutting hrs, shedded, 306-287-7707, Quill Lake SK

1986 IHC 4000, 24.5', w/UII PU reel and vine lifters, cab, AC, new front tires, good cond., \$4200. 306-342-4235, Glenbush, SK

1998 MACDON (PREMIER 2930), 1700 eng. hrs., 30', mounted roller and shears, exc. cond. Quit farming. 780-872-2833, Paradise Hill, SK. larrynaeth@gmail.com

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

1985 JD 2360 SP gas, 30' header w/PU reel, 3300 hrs., CAHR, good cond., \$7000; 1997 Case/IH 8220 PT, w/25' table, 540 PTO, good cond., \$3500. 306-939-4882, 306-726-7568, Earl Grey, SK.

GRAIN BAGS/ EQUIPMENT 4116

SWATHERS 4145

2011 BERGEN 6200 FC swather transport, like new condition, \$12,000. Call 306-372-7653, Luseland, SK.

1988 CASE/IH 6000 25', MacDon PU reels, 2394 hrs., wide opening, dsl. and gas eng., \$9200 OBO. 306-275-4446, St. Brieux, SK.

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

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

2003 MASSEY FERGUSON 220XL, c/w 22.5' draper header, UII PU reel, mounted swath roller, 1137 hrs., \$40,000 OBO. Can deliver. Call 780-841-3708, La Crete, AB.

CASE/IH 8230 PT 30' swather, w/batt reels. Done very little work, new condition, always shedded \$4500. 306-675-4883, 306-331-7456, Lipton, SK.

CASE 6500 DIESEL, 2972 hrs., AC, 25' header, PU reel, w/Roto Shear and power-swath roller, \$9800 OBO. 780-608-9024, Tofield, AB.

2005 NH HW325 with 36' draper header, #HN3119A, 1926 hours, \$56,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

CASE/IH 8230 PT SWATHER, 30' with UII PU reel. 306-460-9440, Smiley, SK.

2010 CIH WD1203, only 448 hrs., exc. cond., 30', double knife drive, PU reel w/plastic teeth, free form mounted swath roller. Call 306-369-7724, 306-369-4164, Bruno, SK.



1997 CASE/IH 8825 HP 30' SP swather, SN #CFH0127052, 2242 hrs., double knife drive, shiftable drapers for DS, poly skid plates, New UII PU reel in 2012, rear weights, poly swath roller, rear hitch mounted w/1 7/8" ball, shedded, \$25,000. Call 306-377-2002, Herschel, SK.

CUSTOM SWATHING. New Holland 30' SP c/w PU reels. Reasonable rates, will travel. Booking acres for the 2016 heavy crop. Stan at 306-309-0080, Pangman, SK.

1996 MACDON SP swather, 30' 960 header, PU reel, Cummins turbo 2 spd, original owner, 3800 hrs., field ready, \$25,000. 306-224-4777, Corning, SK.

2007 MF 9430 w/30' draper deader #W22408A, 1108 hrs, 30' center delivery \$59,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

2008 MF 9430, 1175 eng. hrs., 36' header, 1 season on canvases, roto shears, mounted swath roller, hyd. tilt, elec. Fore/Aft, vg cond., \$52,000 OBO. Call 306-548-4344, Sturgis, SK.

SWATHER ACCESSORIES 4148

18' UII REEL, steel teeth, \$1250. 21' HoneyBee header, no reel, \$1250. Leon 606 FEL, \$3200. 306-960-3000, St. Louis, SK.

GRAIN BAGS/ EQUIPMENT 4116

SWATHER ACCESSORIES 4148

2010 NEW HOLLAND WINDOWFER draper header, 36', PU reels, Fore/Aft, pea auger, premium shape, used very little, \$50,000. 306-834-7204, Kerrobert, SK.

H/H VARIOUS 4151

10' PULL POLY swath roller, Reg \$1,849.95, Sale \$1,549.95. Arcola Co-op, 13 Hwy., Arcola, SK., ph 306-455-2393.

NEW HOLLAND 1495 HAYBINE, Diesel, A/C, 3100 hrs., \$6500 OBO. 403-377-2562, Tilley, AB.

2010 DEGELMAN SA1820 Sidearm, 1000 PTO output, clearance lights, good condition, \$11,900. Call 1-800-667-4515. www.combineworld.com

COMBINES

CASE/IH 4160

2003 CIH 2388, 3048 eng./2304 sep. hrs., Specialty rotor, red light done 2013, \$60,000; 1998 2188, 4340 eng./3327 sep. hrs., Specialty rotor, sent through shop 2015, \$32,000; 1994 1688 5875 eng. hrs., Spec. rotor, through shop in 2012, \$17,000. 306-231-8999, Humboldt, SK.

MF 860 V8 Hydro, PU header, good cond., \$5000; MF 760, grey cab V8 hydro, parts, \$750 OBO. 306-873-5449, Tisdale, SK.

1983 CASE/IH 1480 SP 3998 eng. hrs., hyd. reverser, tires- good, shedded, field ready, \$6500; 810 24' straight cut header, \$1000. Call 306-753-7094, Macklin, SK.

2004 CASE 2366 AFS, AFX rotor, 1745 eng./1487 rotor hrs., less than 200 hrs. on concaves, rub bars, feeder chain, elevator, new PU and draper belts, etc., \$50,000. Retired. 780-608-0958, Strome, AB.

2002 2388 CASE/IH, 3063 eng. hrs., 2515 rotor hrs., very nice shape, always shedded, \$70,000 OBO. Wayne Nickason 306-378-7336, Wiseton, SK.



3-2015 CASE/IH 9240 (334, 282, 298 hrs), lateral header tilt w/rock trap, grain tank w/hyd. cover, folding 40' unloading auger, pivoting unloading spout, Ind. cross auger, MagnaCut extra fine deluxe chopper, luxury cab, HID lights, duals 620/70R42, steering wheels 750/65R26, engine air compressor, full auto-gid., trailer hitch, fully loaded, \$450,000. Retiring. Vermilion, AB. 780-813-0131 or 780-853-7925.

1987 CASE/IH 1680 combine w/header reverser, internal chopper, \$10,500. Located at Canora, SK. Call 780-926-9773.

2011 CIH 8210 w/3016 PU, PN33058, \$250,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2012 CASE 8230, 1200 hrs., long auger, ext. wear rotor, mega cut chopper, 900 tires, fid locks, air compressor, lateral tilt, 3016 PU header, field ready, \$275,000. 403-647-7391, Foremost, AB.

1998 CASE 2388, 2015 PU header harvest rotor and concave, 2500 sep. hrs. 2004 30' MacDon 973 draper header, \$70,000. 306-460-9107, Kindersley, SK.

1996 CASE 2188, 1015 PU, 30' 1020 flex header, 4600 engine/3500 rotor hrs., very good condition, always shedded, \$35,000 OBO. Call 306-485-7843, Alida, 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

CATERPILLAR LEXION 4166

CLAAS 106 DOMINATOR, fair shape, with 2 speed cyl., Victory PU, 20' straight cut header, \$3000. 403-362-1841, Brooks, AB.

CAT COMBINE PARTS salvaging 670, 590, 580R, 485, 480, 470, 460R. New additions regularly. Call 1-800-667-4515. www.combineworld.com

FORD/NH 4172

2009 NH CR9080 with Swathmaster PU, #HN3373B, 1292 hrs., 1292 threshing hrs., \$210,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

2005 NH CR9060 with Swathmaster PU, #HN3375B, 2781 hrs., 2295 threshing hours, \$75,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

2009 NH CR9070, 900 rotor hrs, mint cond., shedded. You won't be disappointed. Quit farming. 780-872-2833, Paradise Hill, SK. Email: larrynaeth@gmail.com

2002 4WD TR99, SN#566299, 2207 hrs., 1464 thresh hrs., 971 header, SN#622833, w/397 Westward PU, Cray big toppler, Y&M monitor, lateral float, MAV chopper, \$80,000. 306-929-4693, Prince Albert, SK.

2005 CR960, 1670 hrs., c/w PU header, exc. cond., recent work order, field ready, \$78,500. 403-350-9088, Red Deer, AB.

2004 NH CR9070 with Rake-Up, #HN3179B, 3600 hrs., 2308 threshing hours, \$95,000. 306-682-9920, Humboldt, SK. or www.farmworld.ca

NH TR98, many new parts, Rake-Up PU, 2769 hrs., \$24,000 OBO. Call 780-765-3921 after 6 PM, Rycroft, AB.

2008 NH CR9070 with Swathmaster PU, #N22151D, 2750 hrs, 1654 threshing hrs., \$172,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2005 NH CR970 with Swathmaster PU, #PN3202B, 2312 hours, \$89,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

GLEANER 4175

2004 GLEANER 475 w/Swathmaster PU, #N225110, 2750 hrs., 16' PU, \$99,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

2005 GLEANER R75 w/Swathmaster PU, #N22511D, 2750 hrs., 16' PU, \$99,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca

GLEANER 4175

2011 GLEANER A6 with Swathmaster PU #PN3014C, 836 hours, \$255,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

JOHN DEERE 4178

1994 JD 9500, w/914 header, Greenlight-ed yearly, 4200 eng. 3200 sep. hrs., shedded, vg cond., \$30,000. 306-274-7636, 306-274-2192, Lestock, SK.

2002 JD 9750 STS, 2863 eng., 2165 sep. hrs., Outback ready, duals, 2014 Michel's elec. tarp, 2013 Redekop chopper, single point hookup, Y&M, HID lights, more options, always shedded, exc. cond., \$90,000 OBO. 306-644-4703, Loreburn, SK.

1986 6620, hydro, 212 PU, reverser, chopper, 2 spd, cyl., 3155 hrs., always shedded, \$12,500. 306-873-1035, Tisdale, SK.

2000 JD 9650STS, 4494 eng., 3059 sep., 0 hrs. on fresh 2010 Greenlight. Precision thresh elements, concaves, rear beater and speedup kit, Harvest services feeder chain, good rubber, plumbed for Outback GPS and AutoSteer, c/w JD 914 PU, asking \$75,000. 306-463-7579, Kindersley, SK.

2009 967

COMBINE HEADERS 4199

2009 HONEYBEE DRAPER header, 36', JD adapter, PU reel, hyd. fore&aft, hyd. tilt, double pump drive, double knife drive, pea auger, poly skid plates, quick transport, shedded. 306-946-7557, Simpson, SK.

2010 CASE/IH 2020 35' flex header, excellent condition, field ready, \$23,500. Call 306-861-4592, Fillmore, SK.

2013 HONEYBEE 3016, 40' draper header, Fore/Aft, lifters, used 1200 acres wheat, shedded, \$52,000. Retired. 306-382-1200, Saskatoon, SK.

2010 MACDON 40' draper header, double knife drive, pea auger, PU reel, hyd, fore/aft, hyd. tilt, always shedded, \$55,000. 403-647-7391, Foremost, AB.

CORN HEADERS: 2-2008 Geringhoff Models 630 and 1230 rotodisk chopping corn headers, 6 and 12 row, both 30" spacing, good cond., \$25,000 fits Case/IH 80 series; \$60,000 fits Case IH flagship series combines. Ph. 306-421-1361, Torquay, SK

2- MACDON 963, 2006, 36' headers with 873 JD adapters. Headers equipped with head sight AutoHeight control along with gauge wheels in crop dividers. Shedded since new. Straight cut wheat only. Exc. cond., \$26,500. 306-435-7526, Moosomin, SK. tim.mccarthy1957@hotmail.com

2010 HONEYBEE 36', dbl knife, \$38,000; 2008 NH 94C 36', DK, \$33,000. Pea augers and AFX/CR adaptors. Ph 306-563-8482.

2004 36' HONEYBEE header, Case 2188 adapter, new wobble box, stored inside, \$20,000. Retired from farming. Call 306-962-3821, 306-463-7172, Eston, SK.

NEW HOLLAND 971, 30', dual knife w/Luke sunflower pans, \$7500; 2001 Honeybee draper header, SP30, w/WNH CR adapter, PU reels, SN#430010979, \$20,000. Call 306-929-4693, Prince Albert, SK.

1998 MD 962 36' single knife drive, pea auger, fact. transport, reel F/A, for Massey 9000 series, nice condition, \$14,800. Call 1-800-667-4515. www.combineworld.com

CASE/IH MODEL 1010 straight cut header, 25' batt reel, \$4900 OBO. Call 780-608-9024, Tofield, AB.

2013 MACDON FD75 flex draper 40', double knife, pea auger, JD adaptors, \$74,000. Call 306-563-8482.

2009 HONEYBEE SP 36, 36', PU reel, good shape, \$11,000. 306-230-0040, Major, SK.

2006 JD 936D header, 3000 acres on new knife and guards, good condition, \$28,000. 780-679-8420, Camrose, AB.

MACDON CA20/CA25 & HONEYBEE flex or rigid adapters and completion kits. Plenty in stock, we want your trade! Call 1-800-667-4515. www.combineworld.com

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

2 CWS AIR REELS, to fit 30' headers, used on 400 acres only, \$15,000 for both OBO. 403-641-3716, Bassano, AB.

COMBINE PICKUPS 4202

SWATHMASTER AND RAKE-UP 12', 14', & 16' pickups available. Call for details! 1-800-667-4515. www.combineworld.com

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FOR SALE: 1994 NH 2205 FORAGE harvester, with 6-row Claas corn head and 3 meter PU, good shape, \$30,000; **Wanted:** Forage harvester with corn head under \$200,000. Call 403-362-1841, Brooks, AB.

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PT SPRAYERS 4238

2002 SPRAY AIR 3400, 90' PT, 800 gal., air assist/standard spray, AutoBoom, good condition, w/monitor, \$9980. Call 1-800-667-4515. www.combineworld.com

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2002 JD 4710, 90', 800 gal. SS, crop dividers, 380/90R46 tires, duals for rear, AutoSteer, AutoHeight, chem educator. Call 306-357-4732, 306-831-8548, Wiseton, SK

2003 SPRA-COUPÉ 4640 High Clearance sprayer, 80' boom, 600 hrs., \$65,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1998 JOHN DEERE high clearance sprayer, 90', 2850 hrs., 750 gal. SS tank, sectional controls, 3-way nozzles, foam markers, stored inside, \$55,000. Call 306-842-3798 or 306-861-4020, Weyburn, SK.

2004 CASE/IH 3200 SPX sprayer, 1000 gal. SS tank and booms, 90', 5.9L Cummins, 3000 eng. hrs., \$20,000 Outback GPS w/section control installed Sept. 2015, c/w 2 sets tires and rims, vg shape, \$90,000 or may consider trades on a JD 9750, 9760 or 9770 combine. Call or text 306-460-8167, Kindersley, SK.

SALVAGE 4214

SP SPRAYERS 4241

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.

2007 SPRA-COUPÉ 4655, 80', 1080 hrs, 400 gal, mechanical drive, AutoSteer, w/JD 1800 monitor, \$57,900. Call 1-800-667-4515. www.combineworld.com

1997 ROGATOR 854, 800 gal., SS tank, rinse tank, 90' boom, Trimble EZ-Steer, GPS, Raven monitor, 5 nozzle bodies, Thompson ind. filter, 2 sets tires, \$42,500. 306-843-7057, 306-658-4674, Wilkie, SK.

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TILLAGE/SEEDING

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CIH 4350, 5350, 4500, 5500, 6000 pto avail.
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COMBINE HEADERS 4199

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HARROWS/PACKERS 4256

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CASE/IH 4286



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1989 7120, MFWD, 150 HP 18 spd. powershift, 6300 hrs., tires- 80%, vg, \$40,000 OBO. 780-352-8858, Bittern Lake, AB.

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CASE/IH STEIGER 9180, PTO, powershift, w/wo 12' Degelman dozer blade, exc. maintenance, \$60,000 w/blade, \$53,000 without. Retired from farming. Phone 306-962-3821, 306-463-7172, Eston, SK.

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SET OF JD 205 KG wheel weights for 20.8R38 rims, JD part #R207782, \$500 OBO. Call 403-308-4200, Arrowwood, AB.

1984 JD 4450, 2WD, dual hyd., new Firestone rubber inside, 8100 hrs., shedded, very clean inside and out, one owner, \$34,500. 403-504-9607, Medicine Hat, AB.

JD 9200, 4 WD, new rubber, exc. cond., 4000 hrs., always shedded, c/w dozer blades. 780-983-0936, Westlock, AB.

JD 4010, c/w FEL, new tires, batteries and injectors, very clean, \$10,500 OBO. Call 403-823-1894, Drumheller, AB.

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1999 JOHN DEERE 9300 4WD, 5868 hours, 24 spd., 4 CVS, deluxe cab, diff. lock, vg cond., always shedded, \$99,000. Call 780-674-5481, Barrhead, AB.

1993 JD 4760, FWA, w/4-Way 12' Degelman blade, 6200 hrs., exc. cond., \$60,000 OBO. Call 306-621-4965, Theodore, SK.

2004 JD 6715, with FEL, 3 PTH, 105 HP, 4100 hrs., vg cond. Call 306-773-7122, Swift Current, SK.

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Cougars could cut car accident deaths

Any attacks on humans would be more than offset by reducing deer collisions

UNIVERSITY OF WASHINGTON
RELEASE

You would never guess it from their soft eyes and timid demeanour, but the swift-footed deer is North America’s most dangerous mammal to humans.

Each year deer cause 1.2 million vehicle collisions in the U.S., triggering more than 200 deaths, some 29,000 injuries and \$1.66 billion in costs associated with vehicle damage, medical bills and road cleanup.

These staggering figures are in part because deer’s natural predators — large carnivores such as wolves and cougars — have declined in population, leaving large ungulates like deer to reproduce mostly unchecked.

A team including University of Washington’s Laura Prugh has for the first time begun to quantify the economic and social impact of bringing back large carnivores. Using cougars and their value in reducing deer-vehicle collisions as a case study, the researchers found that within 30 years of cougars recolonizing the Eastern U.S., large cats could thin deer populations and reduce vehicle collisions by 22 per cent — each year preventing five human fatalities, 680 injuries and avoiding costs of \$50 million.

“The important take-home is that there can be very tangible benefits to having large carnivores around — economic and social benefits, not just ecological ben-



There are 1.2 million collisions between deer and motor vehicles in the U.S. each year. PHOTO: THINKSTOCK

efits,” said Prugh, a UW assistant professor of quantitative wildlife sciences in the School of Environmental and Forest Sciences.

“Carnivores are so controversial and there’s a lot of fear, anxiety and resistance when they are reintroduced or recolonize an area. We are hoping that showing people how their lives could really benefit in a tangible way from hav-

ing large carnivores around could help people become more accepting of living with them.”

The researchers calculated the cougars’ impact by comparing white-tailed deer population densities and the numbers of deer killed by vehicles with and without cougar predation.

Their models showed that cumulatively over 30 years, 155

human deaths and more than 21,000 injuries could be prevented by the presence of cougars in 19 eastern states. A single cougar would kill 259 deer over its average six-year lifespan, preventing eight collisions and saving nearly \$40,000 in associated costs.

The researchers were able to compare their modelled results with an actual example in South

“The important take-home is that there can be very tangible benefits to having large carnivores around — economic and social benefits, not just ecological benefits.”

LAURA PRUGH

Dakota, where a viable cougar population lives in the Black Hills. The data clearly showed that after cougars repopulated the region in the 1990s, deer-vehicle collision rates markedly dropped. This real-life test case was strong evidence of a trend that could happen elsewhere, Prugh said.

The authors acknowledge that re-establishing cougars across the U.S. has its costs. Attacks on humans, pets and livestock could become more common, though their estimates show that cougars would actually save five times the number of people they would kill by way of preventing deer-vehicle collisions. The researchers next hope to complete full cost-benefit analyses in smaller subsections of the country where cougars are present.

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1996 Bourgault 5710/3225	\$39,000 SH
2009 Case IH 700/3430	\$149,000 MH
1994 Flexi-Coil 5000/1720	\$25,000 MJ
1994 Flexi-Coil 5000/2320	\$30,000 SH
1995 Flexi-Coil 5000/2320	\$49,000 SH
1998 Flexi-Coil 5000/3450	\$59,000 SC
2008 Flexi-Coil 5500/4350	\$139,000 MJ
2004 Misc 7550/4350	\$35,000 SC
2010 Morris CONTOUR/8650	\$195,000 SC
1997 Morris MAXIM/7240	\$35,000 SC
1998 Morris MAXIMI/7300	\$65,000 TA
2009 New Holland P2060/P1060	\$149,000 SH
2010 New Holland P2070/P1060	\$185,000 MJ
2010 New Holland P2070/P1060	\$189,000 MJ
2011 New Holland P2070/P1060	\$135,000 SC

BALE WAGON

1950 Misc HAAKUS WGN	\$4,500 MH
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BALER/ROUND

2015 New Holland 560	\$55,000 TA
1999 New Holland 688	\$9,900 SC
2008 New Holland BR7090	\$23,000 MJ
2008 New Holland BR7090	\$23,000 SC
2009 New Holland BR7090	\$24,000 SC
2009 New Holland BR7090	\$25,000 SC
2011 New Holland BR7090	\$29,000 SC
2011 New Holland BR7090	\$32,000 SC
2012 New Holland BR7090	\$32,000 MJ
2003 New Holland BR780	\$15,000 SC
2004 New Holland BR780	\$19,000 SC

COMBINE

2000 Case IH 2388	\$69,000 SC
2008 Case IH 2588	\$159,000 SC
2013 Case IH 8230	\$349,000 TA
1987 John Deere 7720	\$17,000 SC
2010 John Deere T670	\$199,000 SH
1997 Massey Ferguson 8780	\$55,000 MH

2008 Massey Ferguson 9895

w/ 4200 Pickup	\$220,000 TA
2011 Massey Ferguson 9895	
w/ 4200 Pickup	\$295,000 TA
2012 New Holland CR8090	\$310,000 MJ
2014 New Holland CR8090	\$359,000 SH
2014 New Holland CR8090	\$409,000 SC
2008 New Holland CR9060	\$189,000 MJ
2009 New Holland CR9060	\$189,000 MJ
2010 New Holland CR9060	\$189,000 SH
2010 New Holland CR9060	\$195,000 SH
2010 New Holland CR9060	\$219,000 SC
2010 New Holland CR9060	\$219,000 SC
2008 New Holland CR9070	\$239,000 BR
2010 New Holland CR9070	\$259,000 MH
2010 New Holland CR9070	\$259,000 SH
2010 New Holland CR9070	\$269,000 SH
2010 New Holland CR9070	\$269,000 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 CR960	\$99,000 SC
2006 New Holland CR970	\$189,000 SH
2007 New Holland CX8080	\$159,000 SH
2014 New Holland CX8080	\$369,000 SC
2014 New Holland CX8080	\$369,000 SC
2001 New Holland CX840	\$99,000 MH
1990 New Holland TR96	\$15,000 SC
2001 New Holland TR99	\$45,000 SC

DEEP TILLAGE

2012 Horsch Anderson RT370	\$85,000 TA
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DISK

2012 Buhler TD600	\$52,000 MJ
2008 E-Z Implements 1225	\$19,000 MH
John Deere 335	\$29,000 TA

GRAIN CART

2012 Misc 1400	\$65,000 SC
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HEADER COMBINE

1987 Case IH 1015	\$4,000 SC
2002 Case IH 1020	\$7,000 SC
2008 Case IH 2015	\$15,000 SC
2010 Case IH 2142, 35"W	\$49,000 BR
2012 Case IH 3016, 15"W	\$24,000 MH
2008 Honey Bee 36GB, 36"W	\$29,000 MH
2013 Honey Bee 36GB, 36"W	\$45,000 SH
2013 Honey Bee 36GB, 36"W	\$45,000 SH
2008 Honey Bee HB30, 30"W	\$29,000 TA
1997 Honey Bee SP30, 30"W	\$21,000 MJ
1996 Honey Bee SP36, 36"W	\$15,000 SH
1998 Honey Bee SP36, 36"W	\$22,000 SC
2004 Honey Bee SP36, 36"W	\$32,000 SH
2005 Honey Bee SP36, 36"W	\$25,000 SC
2005 Honey Bee SP36, 36"W	\$25,000 SH
2008 Honey Bee SP36, 36"W	\$35,000 SH
2011 Honey Bee SP36, 36"W	\$45,000 SH
2012 Honey Bee SP40, 40"W	\$49,000 SH
1988 John Deere 912P, 12"W	\$4,000 SC
1999 John Deere 914, 14"W	\$10,000 MH
2009 MacDon FD70, 35"W	\$55,000 SH
2010 MacDon PW7	\$7,000 BR
1997 Massey Ferguson 9230, 30"W	\$15,000 SH
2014 New Holland 790CP, 15"W	\$29,000 SC
2013 New Holland 740CF, 35"W	\$35,000 TA
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
2009 New Holland 74C, 35"W	\$37,000 MJ
2014 New Holland 790CP, 15"W	\$29,000 SC
2014 New Holland 880CF, 40"W	\$99,000 SC
2014 New Holland 880CF, 40"W	\$99,000 SC
2014 New Holland 880CF, 40"W	\$99,000 SH
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
2012 New Holland 94C, 40"W	\$62,000 SC
1995 New Holland 971, 13"W	\$3,500 SC

MOWER CONDITIONER

2006 AGCO Hesston 1275	\$17,000 MJ
1990 John Deere 1600	\$6,500 BR
2014 Massey Ferguson 1375	\$41,000 MJ
1996 New Holland 1475/2200	\$14,000 SH

RAKE/WHEEL

2015 New Holland 1225	\$23,000 SC
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SKID STEER LOADER

2013 John Deere 329D	\$49,000 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

SPRAYER/HIGH CLEARANCE

2008 Apache 1010	\$139,000 SC
2009 Apache AS1010	\$145,000 SC
2013 Apache AS1220	\$215,000 SH

TELEHANDLER

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TRACTOR

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 SC
2003 New Holland TC21DA	\$15,000 SC
2007 New Holland TC35DA	\$21,000 SH
2007 New Holland TG305	\$119,000 TA



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ELM PRUNING BAN IN EFFECT UNTIL OCTOBER

The Society to Prevent Dutch Elm Disease (STOPDED) is reminding Albertans the provincial elm pruning ban remains in effect until Sept. 30. Under the Alberta Agricultural Pests Act, it is illegal to prune elm trees during this time or store elm wood. Stored elm wood can harbour the elm bark beetles that can carry DED and must be disposed of by burning, burying or chipping. Elm bark beetles are active at this time of year and can be attracted to the scent of the fresh wound when elms are pruned. That can result in an otherwise healthy elm becoming infected. Once infected, the tree will die within that year. — AAF

NEW VERSION OF FARMERS' MARKETS APP

Alberta Agriculture and Forestry has released an updated version of the farmers' market mobile app. "People told us they were having trouble finding the times the markets were open on the app," said farmers' market specialist Eileen Kotowich. "It just wasn't as intuitive as we had hoped." The updated version of the app shows market hours over the next seven days on both the market detail screen as well as on the map when a pin is tapped. In addition, the market pins show green if the market will be open later on the current day or if it is currently open. The app is available at www.sunnygirl.ca. — AAF

MORE NEWS

New farmer credits a good start to a 'rent-to-own' land lease

People tell first-generation farmer Scott Beaton he must have 'a horseshoe hidden somewhere'

BY LORRAINE STEVENSON
STAFF

Scott Beaton likes to joke that pretty much every organic farmer has more experience than he does, or at least, those who were born into farm families.

"I guess I'm about 120 years behind," he said. "I'm a first-generation farmer, which maybe questions my intelligence."

But he says so with a smile.

He's doing what he wanted to do since he was in his teens. He didn't grow up on a farm, but worked summer jobs for local farmers around his hometown of Rosser, Man.

"I always kind of enjoyed being around the farm and thought that was something I'd like to do," he said. "But I didn't necessarily think I'd have the opportunity myself."

Beaton set out in that direction, however, first earning an agriculture degree at University of Manitoba, then landing a job as an agronomist. He eventually moved back to live in Rosser and in 2007, he had an opportunity to buy 80 acres of land.

"I'd bought that little bit of land knowing it would never pay the bills, but I was interested in trying things a little differently," Beaton said.

In 2016 this new farming entrant will harvest his first certified organic crop, a 92-acre field of hemp. That's on the Rosser parcel, where he's also devoted eight acres to producing organically grown squash for Canadian Prairie Garden Pure, a processing company in Portage la Prairie,



A rent-to-own deal and lots of help from local producers has allowed Scott Beaton to start farming. PHOTO: LORRAINE STEVENSON

Man. This year he has also rented 20 acres of land near Rosser.

Nearby, he has 120 acres of fall rye underseeded to red clover, plus 80 acres of green manure plowdown with a mix of clover, fababeans and oats. The land at Rosser is through transition, and certified organic, while the second parcel is still in years one and two.

Now working as a conservation specialist, Beaton says he knows he's pretty fortunate to be farming this much land as a relatively newcomer on the farm scene.

"I think people think I have some kind of horseshoe hidden somewhere," he says.

But the real credit goes to neighbouring farmers who've

been encouraging and supportive since he started, he says.

"My neighbours have been there to help me out with labour and equipment and advice every time I needed them," says Beaton.

"Had I started without their support, I definitely would have quit by now."

Other farmers he met after taking a job with the Farm Stewardship Association of Manitoba to help co-ordinate the environmental farm plan also helped shape his own ideas about how to farm.

Rent to own

Ultimately, Beaton was able to sign a rent-to-own agreement with a local landowner too. She

"I didn't grow up on a farm but I always kind of enjoyed being around the farm and thought that was something I'd like to do. But I didn't necessarily think I'd have the opportunity myself."

SCOTT BEATON

wanted to sign a conservation easement on about 100 acres of a half section of her land and in discussions with Beaton saw someone she felt confident could manage her land.

Ultimately, they agreed to a long-term lease arrangement and she willed the land to him.

"She is an older landowner who didn't have anyone to leave the land to and I think she liked the kind of ideas I had in how I managed my own land," he said.

The arrangement is mutually beneficial. The landowner is satisfied her land will be farmed by someone who shares her desire to see trees left standing and the potholes untouched, while it has given him access to land he could never otherwise afford to buy.

"It's a very good arrangement," he said. "It definitely makes it possible for me to make a go of

things. It makes the difference between being able to see a future in farming and being a hobbyist indefinitely."

But transitioning to organic can be difficult for any producer, and he is no exception. It's a steep learning curve and cash flow is tight, says Beaton who thinks there are ways transition could be eased.

One is to have a market for these 'near to organic' grains, or transitional crops. That would provide incentive to more growers who otherwise have to see their way through a period when cash flow can be tight, he said.

"I think that would help people make the decision to go into this."

An additional support would be an equipment loan program offered to transitioning farmers.

"There's an opportunity for extension groups to provide equipment that could be passed around on some sort of a rental," he said. "You'd have access to some of the more specialized equipment that we need to use, even if just for a year or two, but not paying for it until the time you're seeing some money coming back from your organic sales."

It's an idea conservation districts might want to consider, he continued.

"They used to own equipment like tree planters," he said. "For them to own a roller crimper or two wouldn't be a huge capital expense."

"I'd like to see those kinds of organizations own those kinds of things and be able to loan them out at a reasonable price."

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Bird study says grasslands provide massive benefits

Bird populations have declined on the Canadian Prairies as grassland areas have shrunk rapidly

BY SHANNON VANRAES
STAFF

As a rancher, Kristine Tapley’s passions are split between the large ruminants she raises and the land that sustains them — sort of.

“I probably shouldn’t say this, but I’m less interested in the cattle and more interested in using cattle as a tool to protect and maintain grasslands, because I think there are so many benefits,” she said. “Grasslands help with biodiversity and habitat, with water management and quality, they prevent erosion and they sequester carbon.”

A newly released study by the North American Bird Conservation Initiative titled the *State of North America’s Birds* agrees there are massive benefits to having healthy grasslands and areas of forage available to bird species, but rings alarm bells about the impact of shrinking habitat.

The study points to livestock grazing as a key method of preserving grasslands and bird habitat, noting that “one-third of all grassland bird species are on the watch list due to steeply declining populations and threats to habitat.”

It goes on to state birds that breed on the Great Plains of Canada and the United States before overwintering in Mexico have seen a remarkably steep decline since 1970 as a result, with populations plunging nearly 70 per cent.

“Things are definitely changing for our agricultural lands,” said Henry Nelson, vice-chair of the



The natural symbiosis between grasslands and large grazing animals like cattle provides excellent bird habitat among other benefits. PHOTO: GORD GILMOUR

Manitoba Forage and Grasslands Association and co-chair of the Canadian Forage and Grassland Association’s environment committee.

“We know that from a climate change perspective and now from this NABCI report, on our declining grassland bird populations. We also know that maintaining intact grasslands offers a solution to both situations in the form of carbon sinks and wildlife habitat, as well as the vast benefits to clean air and water, flood and drought mitigation and soil health.”

But maintaining grasslands isn’t without cost and Nelson would like to see producers compensated for conservation efforts. However, he acknowledges that making a compensation system work requires political will and public understanding of why healthy grassland and forage is important.

“You need grazers to come in and put all those nutrients back down on the ground and then have them cycle over and over again.”

KRISTINE TAPLEY

“I think our job is to find the background information so that governments can justify doing that,” he said. “It should really not be looked on as a subsidy when you are providing a benefit to society. So I think we have to create a political system with market incentives and fiscal policies that reward us for doing the right thing on the landscape.”

Studies like that released by the North American Bird Conservation Initiative help provide the type of third-party validation needed to convince both the public and politicians that grasslands are important, Nelson added.

Tapley, who also works as a research technician at the University of Manitoba, knows the value of concrete evidence as well.

“We need to back it up, we can’t just romanticize,” she said. “And as an industry we need to keep looking for other parties and other stakeholders who have an interest in the same thing we do.”

She is also keenly aware of the role that government can play in helping to preserve and restore habitat. Four years ago Tapley and her husband purchased an abandoned gravel pit. With the help of a Manitoba government program to rehabilitate orphaned or abandoned mines, they turned it into a prairie grassland.

More birds are now flocking to the area, however, it is the symbiosis between the cattle and the land that really makes it work, she said.

“Just because you can get something to grow there once, it doesn’t mean that it’s a healthy grassland, you need grazers to come in and put all those nutrients back down on the ground and then have them cycle over and over again,” she said. “Sustainability really has to be at the forefront.”

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Swine trucks will continue to be washed in U.S.

PEDv concerns continue as agriculture minister refuses to reinstate emergency truck-washing protocol

BY SHANNON VANRAES
STAFF

Federal Agriculture Minister Lawrence MacAulay says he will rely on the expertise of the Canadian Food Inspection Agency when it comes to truck-washing regulations.

Speaking to reporters in Winnipeg, the minister said he recognizes that pork producers and processors want to wash livestock trailers in Canada and not the United States, where porcine epidemic diarrhea is rampant, but that he is not in a position to change the regulations.

“It’s very difficult for me to overrule the regulations continually,” said MacAulay. “I am the government, but I am not a scientist.”

He acknowledged the disease has been a huge issue south of the border, but said the inspection agency has indicated washing swine-hauling trailers before they return to Canada is the right approach.

Provincial pork organizations disagree and have been working to convince the agency otherwise.

“I think that it’s pure logic that if there is more disease down south and they use recycled water in their wash facilities, that it is a time bomb,” said Manitoba Pork Council president George Mathe-son. “It will only be a matter of time before more PEDv enters the province because of that, so we’re hoping that between the minister and CFIA that they closely look at it and perhaps make a regional protocol for us.”

For two years an emergency federal protocol allowed empty hog trucks coming into Manitoba from the U.S. to be cleaned and disinfected on the Manitoba side of the border. That protocol ended in May.

A short time later three Manitoba hog farms were hit by the virus, ending a nearly 16-month-long disease hiatus. While no definitive link between the outbreak and the end of the temporary protocol has been made, industry stakeholders have expressed strong suspicions that the two occurrences are related.

shannon.vanraes@fbcpublishing.com



Federal Agriculture Minister Lawrence MacAulay speaks to reporters at the Maple Leaf plant in Winnipeg. PHOTO: SHANNON VANRAES

Dairy Farmers, processors strike a deal

The agreement on pricing and other issues still needs ratification, but implementation is planned for Sept. 1

BY ALEX BINKLEY
AF CONTRIBUTOR

Dairy Farmers of Canada and dairy processor associations have reached an agreement in principle on how to evolve the Canadian dairy system for the future.

The agreement was reached during meetings in Charlotte-town following a year of talks, which followed previous attempts to open a dialogue over pricing and other issues.

Details of the agreement won’t be released until dairy farmers and companies have had time to review and ratify it, the two sides said in a statement. The anticipated implementation date is Sept. 1.

“As our dairy industry operates under supply management, it is important that farmers and processors work together to be responsive to the evolution of the market, and this is exactly what this agreement in principle is all about,” Jacques Lefebvre, president and CEO of the Dairy Processors Association of Canada said in a release.

The agreement includes an understanding on ingredient pricing, which has been the subject of protests on Parliament Hill and at Quebec dairy plants.

An agreement would be a major break for Agriculture Minister Lawrence MacAulay, whose assurance the government was working on a long-term strategy for the dairy

sector and a solution to the contentious imports of diafiltered milk was wearing thin after he didn’t meet a June 3 deadline.

MacAulay has said he’ll meet with the industry to discuss that issue, as well as challenges following the possible ratification of the Canada-European Union Comprehensive Economic and Trade Agreement. The deal would allow a 17,700-tonne increase in European cheese imports, about four per cent of the Canadian cheese market. The cheese is made from milk which is heavily subsidized by European governments.

Compensation for increased tariff-free European cheese imports was promised by the

former Conservative government but never worked out. When no plan was included in the March 22 federal budget, dairy farmers said they were worried the new government was backing away from compensation.

When asked about that concern after the budget’s release, MacAulay said the government remained committed to compensation as part of the goal of getting the trade deal ratified this year so it can be implemented in 2017.

DFC says the increased European imports amount to an annual loss of between \$110 million and \$150 million a year in revenues and market share for Canadian dairy farmers.



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Federal Agriculture Minister Lawrence MacAulay speaks to reporters at the Maple Leaf plant in Winnipeg. PHOTO: SHANNON VANRAES

SEIZING THE MOMENT WHEN THE SUN FINALLY DOES SHINE



Western Canadian farmers are having to dodge severe thunderstorms and flooding to get into their fields this summer. Getting hay in, like in this field north of Turner Valley, is proving difficult, as pastures are either too wet, or crops have been damaged by heavy rain and hail. PHOTO: WENDY DUDLEY

If the rain won’t go away, you still have options when haying

Making haylage is a good option, but there are several things to keep in mind, says crop specialist

ALBERTA AGRICULTURE AND FORESTRY RELEASE

What do you do when the weather conspires against you and hay refuses to dry?

“You start looking for alterna-

tives,” said provincial crop specialist Harry Brook. “A number of alternatives is available to consider when hay will not dry down to the 16 per cent moisture level that’s considered suitable for long-term storage.”

One form of storage that has gained popularity in the last

couple of years is round baled silage, also known as haylage, which either comes in individually wrapped bales or in tubes.

“When making haylage it’s imperative that bales are wrapped to maximum density to minimize air pockets in the bale,” he said. “Moisture content

for baled silage should be from 40 to 55 per cent for safe storage and adequate fermentation. Too much moisture and the bales become frozen solid in the winter. Too little moisture can result in excessive spoilage and limited fermentation activity.

“Don’t make the bales full size (they must be two-thirds to three-quarters of the size of a hay bale) as they can get too heavy for some loaders to lift.”

“Once ensiled, it’s important to prevent any air from getting back into the bale, as spoilage will occur. Any breaching of the plastic with tears or holes must be repaired immediately. When opened, baled silage stays good for only about a week. Tubed bales last about the same length of time.”

If hay is not dry enough for dry, baled hay, but too dry to make silage, propionic acid can be used.

One of the advantages of baled silage is the reduced leaf loss in the hay and maintaining higher feed quality.

“The biggest plus, of course, is that you are not at the mercy of the weather,” said Brook. “It allows you to harvest hay when it is ready, rather than waiting for a dry spell that may be too late in coming to get it baled. Quality hay is more about the physiological age of the hay when cut than the fact rain may or may not have fallen on it once it has been cut.”

To get the best-quality haylage, the crop should be cut when young (early-bloom stage for grasses and legumes), and left to wilt to the correct moisture over one or two days. It should be wrapped within five to 10 hours after baling, as spoilage greatly increases if the time lag is longer.

“Use good-quality plastic that creates a complete seal and prevents air from getting into the bale,” said Brook. “The whole secret to making good silage is to minimize the number of air pockets in the bale and preventing any air from getting into it once wrapped.”

The ensiling process is basically pickling the forage. Once wrapped, oxygen-consuming bacteria use up the available oxygen in the bales. Too much oxygen will result in excessive heating. After the oxygen is used up, anaerobic bacteria use up the sugars in the forage and excrete lactic acid. Increased lactic acid lowers the pH, thus pickling or fermenting the forage, he said.

“When making haylage it’s imperative that bales are wrapped to maximum density to minimize air pockets in the bale.”

HARRY BROOK

“Adding it to damp hay will prevent mould growth, which then causes heating and feed quality losses. It’s a way to give the bale time to naturally dry down to a safe storage level. The propionic acid solution is sprayed onto the swath as it enters the baler. The amount needed depends on the moisture level of the hay. The higher the moisture of the bale, the more acid will be needed.”

Have a moisture probe on hand when baling, and since propionic acid is highly acidic and very corrosive, it’s best to use a buffered solution.

“Some products claim they will treat hay up to 35 per cent moisture, but economically the propionic acid should be used on hay at 25 per cent moisture or lower,” said Brook. “Treated hay is safe to feed to livestock.”

ATTENTION: MEN OVER FORTY

In Alberta, 1 in 7 men will be diagnosed with prostate cancer, but when diagnosed early, it is very treatable. All men age 40 and over are invited to visit the Man Van during the scheduled clinic times and receive a free baseline PSA (Prostate Specific Antigen) blood test.

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BERGEN
Saturday, August 13th
Bergen Farmers Market
Bergen Community Hall
10:00AM – 1:00PM

MILO
Sunday, August 14th
Milo Homecoming
Celebration
12:00PM – 3:00PM

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Three Hills Curling Rink
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Olds Cow Palace
5116 – 54 Street
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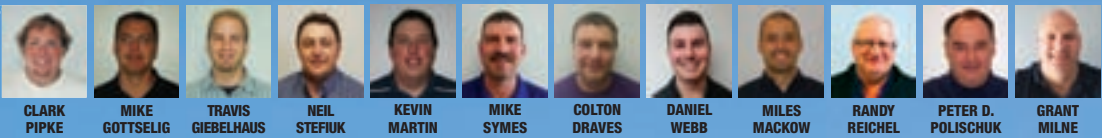
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USED EQUIPMENT

COMBINES

NH TR96, 1990, 3090, P.U., chopper, Singles, AS IS	\$9,900
NH TR98/971, 1997, 3500/2500, 13' SW, stone trap, chaff spreader, chopper, Singles	\$19,000
NH TX66, 1999, 3140/2427, P.U., chopper, chaff spreader, Singles, AS IS	\$19,000
JD 9770STS, 2009, 1623/994, 615P, duals, long auger, chopper, GPS, Singles	\$199,900
NH CR960, 2003, 1975/1405, 14' SW, Singles, 2 speed rotors, dlx Chop, moisture sensor	\$92,000
NH CR960, 2005, 1998/1437, 14' SW, Singles, dlx cab, dlx chopper, single speed rotors, beacons, Y&M, Reconditioned	\$99,900
NH CR960, 2003, 2191/1612, 14' SW, Singles, dlx chopper, moisture sensor, Reconditioned.....	\$115,000
NH CR970, 2004, 2388/1767, 14' SW., Dlx Chopper, Singles	\$125,000
NH CR970, 2004, 2058/1558, 14' Rake Up, Singles, dlx chopper, dlx cab, Long Auger	\$129,000
JD 9860STS, 2005, 2810/1935, 615 P.U., Bullet Rotor, GPS Ready, Chopper, Hopper Ext, Singles	\$129,000
NH CR970, 2005, 2010/1488, 14' SW, Singles, deluxe chopper, moisture sensor, Reconditioned	\$137,000
NH CR960, 2009, 1878/1433, 14' SW, Singles, deluxe chopper, LCTS, HID lights, Waas Rec.	\$155,000
NH CR970, 2008, 1991/1480, 14' Rake up, Singles, deluxe chopper, dlx cab, Long Auger, Elec Mirrors, LCTS, yield monitor,	\$165,000
NH CR970, 2009, 1545/1145, 14' SW., Duals, Redekop chopper, Michel's Cover, diff lock, Elec Mirror, LCTS, Reconditioned	\$190,000
NH CR960, 2010, 747/491, 14' SW, Singles,	\$193,000
NH CR970, 2009, 1973/1528, 16', Michel's Cover, duals, diff lock, Deluxe Chopper	\$195,000
NH CR9080, 2010, 1580/1278, 790CP, Duals, Dlx Cab, SCTS, Pwr Mirrors, Deluxe Chopper,	\$205,000
NH CR9080, 2009, 1162/822, 790CP, Singles, long auger, dlx chopper, diff lock	\$226,000
NH CR970, 2011, 1049/877, 790CP, Singles, Dlx Chopper, HID, Diff Lock, Full GPS, LCTS.....	\$245,000
NH CR970, 2011, 920/723, 16' SW, dlx chopper, Singles, long auger, diff lock, intellisteer ready, Y&M, SCTS.	\$249,000
NH CR970, 2011, 874/708, 790CP Singles, Dlx Chopper, Dlx Cab, Pwr mirrors, diff lock, LCTS	\$249,000
NH CR970, 2011, 1229/878, 14' SW p.u., Duals, Dlx Cab, Dlx Chopper, Full GPS	\$250,000
NH CR970, 2011, 883/715, 790CP, Duals, Dlx Chopper, Full GPS	\$255,000
NH CR970, 2011, 1010/, 790CP, singles, diff lock, HID, long auger, Dlx Chopper, Elec Mirrors, Air Comp,	\$256,000
NH CR970, 2011, 942/622, 790CP, duals, GPS, diff lock, HID, Y&M, Michels cover	\$258,000
NH CR970, 2011, 753/572, 790CP, singles, diff lock, dlx chopper, electric mirrors, HID, long auger, Full GPS	\$262,000

NH CR9065, 2011, 502/348, 790CP, dlx cab, dlx chopper, Duals, LCTS, HID, GPS ready, pwr mirrors, ASP, long auger, terrain tracer,	\$275,000
NH CR8090, 2012, 968/728, 790CP, dlx cab, dlx chopper, Singles, LCTS, HID, GPS ready, pwr mirrors, ASP	\$283,000
NH CR8090, 2013, 935/670, 790CP, 900 singles, DSP, diff lock, dlx chopper, HID	\$305,000
NH CR8090, 2012, 834/595, 790CP, duals, diff lock, dlx chopper, HID, leather, DSP w/ kit, GPS complete, incab covers	\$328,000
NH CR9090Z, 2012, 841/636, 790CP, Duals, Opti Spread chopper, diff lock, Elec Covers, Intellicruise, Full GPS, Lux Cab, Leather Seat	\$359,000
NH CX840, 2003, 2630/1920, 14' SW, Deluxe Chopper, Chaff Blower, Y & M, Remote Sieve Adj., Singles, Beacons, Reconditioned	\$110,000
NH CX840, 2003, 2155/1660, 14' Rake Up, Dlx Chopper, Chaff Blower, Y & M, Remote Sieve Adj., Singles, Beacons, Reconditioned	\$115,000

NH CX840, 2004, 1804/1473, 14'SW, Singles, Dlx Chopper, Y & M, Chaff Blower, Beacons, Remote sieve adj.,, Reconditioned, Reman Engine	\$120,000
NH CX8080, 2011, 950/763, 790CP, Singles Dlx Chopper, SCTS, Diff Lock, Chaff Spreader, HID Lights, Beacons, Reconditioned	\$259,000
NH CX8080, 2014, 443/325, 790CP, Singles, Full GPS, dlx chopper, HID, cast drum, Reconditioned	\$325,000
NH CX8080, 2014, 634/454, 790CP, Singles, GPS ready, dlx chopper, HID, cast drum	\$335,000

SWATHERS

NH HB30, 2005, , 30', SK, Transport	\$9,900
HB WS30, 2006, , 30', DK, HCC reel, transport, came off of JD 4895	\$16,000
MACDON 9300, 1997, 2559, 30' SK, Guage Wheels, Turbo, 2 Speed	\$32,000
MF 220, 1998, 2500, 26', SK, Ull p/u reel, roto shears, Reconditioned	\$33,000
NH HB30, 2012, , 30', DK, Ull reel, transport, came off of H8060	\$39,000
MACDON 4952i, 2004, 2855, 25', pick-up reel, swath roller, SK, 19.5L-24 front tires	\$49,000
MACDON 4952C, 2003, 2810, 25', pick-up reel, swath roller, DK, 500/70R24 front tires	\$49,000
MF 9220, 2008, 380, 25', SK, Ull reel,	\$59,000
MACDON 9352, 2002, 1432/1065, 25', SK, DS, Guage Wheels	\$62,500
MACDON 4952i, 2005, 1934, 30', DK, UCA, Hyd F&A, Triple Del, Turbo, Large Tires	\$64,000
MACDON 9352i, 2005, 1677/1333, 30', split reel	\$65,000
MACDON 9352i, 2006, 1250/950, 30ft, SK, gauge wheels	\$69,000
MF 9435, 2009, 1267, 30', SK, Ull Reel	\$72,000
MACDON M150, 2011, 920, Traction Unit Only	\$72,500
JD 4895, 2009, 1045, 25',	\$73,000
NH H8040, 2008, 1200, 25', SK, transport, Hyd F & A, Dlx Cab, Elec Mirrors,	\$79,000
MF 9430, 2010, 1285, 25', p/u reel, elec F&A, guage wheels, SK	\$79,000
MF 9435, 2011, 669, 25', p/u reel, topcon GPS	\$83,000
MF 9435, 2011, 974, 30', 5200 Header, SK, Elec Fore & Aft, Triple Del.....	\$89,000
CASE WD1203, 2010, 380, 30', DK, elec mirrors, cab & rear axle suspension	\$92,000
MACDON M150, 2009, 1343/1003, 30, sk, pick-up reel, transport, D60 s/n: 187220-09 (7186-2)	\$109,000
MF WR9740, 2013, 325/176, 36', SK, Susp Cab & Axle, 21mph speed	\$109,000
MF WR9740, 2012, 544, 25' Draper, roto shears, Ull Reel, guage Wheels, GPS, hyd roller, 9126 Auger header	\$134,000
MACDON M205, 2012, 906/697, 30', DK, stabilizer wheels	\$139,000
MACDON M205, 2012, 977/268, 30', DK, stabilizer wheels	\$139,000
MACDON M155, 2013, 697, 35', SK, Transport, Hyd F & A, FF Hyd swath roller, 600 tires,	\$139,000
MACDON M205, 2011, 546, 35', DK, Transport, UCA	\$149,000
MF WR9770, 2012, 475, 25' Draper, roto shears, Ull Reel, guage Wheels, GPS, hyd roller, 9195 Disc header	\$159,000

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Soy boom boosts bulk pedigreed seed storage

Executive director of the Canadian Seed Institute reports on recent accreditation and training activity

BY JENNIFER PAIGE
STAFF/BRANDON, MAN.

An increase in the number of bulk pedigreed seed storage facilities in Western Canada is keeping inspectors busy, says the executive director of the Canadian Seed Institute (CSI).

"We are seeing an increase in bulk storage facilities right now. We believe this is largely due to the increase in the movement of soybeans in Western Canada. We are seeing a lot more facilities handling soybeans in bulk," Roy van Wyk told the recent Canadian Seed Growers' Association (CSGA) annual meeting here.

CSI is a not-for-profit organization that was founded in 1997 by the CSGA, the Canadian Seed Trade Association and the Commercial Seed Analysts Association of Canada.

It is recognized by the Canadian Food Inspection Agency and has been given the mandate to be the single point of contact for all seed establishments, labs, operators and graders who are seeking registration, licensing or accreditation.

"CSI helps the pedigreed seed industry maintain the highest level of quality during the handling, processing and packaging of seed," van Wyk said. "Currently, there are about 563 approved conditioners that we look at in Canada, 859 bulk storage facilities and about 80 authorized importers, 32 labs and on the personnel side, there are about over 1,600 accredited operators and almost 1,000 accredited graders."

Although CSI is seeing most of the growth in bulk storage, van Wyk says the institute has also been seeing a steady demand for other training programs.



"We have been very busy in the last four years delivering grader training to new graders. There seems to be an ongoing and steady appetite for training."

ROY VAN WYK

"We have been very busy in the last four years delivering grader training to new graders. There seems to be an ongoing and steady appetite for training," van Wyk said.

CSI has been actively delivering accreditation and monitoring programs in Alberta, Quebec, Saskatchewan and New Brunswick and van Wyk says the organization is looking to expand its offerings.

"We are looking at developing programs for refresher training for operators in both the conditioners and storage facilities," van Wyk said. "We have the outline and template of those training programs done right now. We have one more review to do and then we will have discussions about delivery."

CSI is looking at offering the new training with in-person sessions, but also through webinars and self-help sessions in order to minimize expense.

Van Wyk noted that CSI also acts as an organic certification body, and the sector has been keeping it busy lately.

"The increase in our client base is coming largely from new clients and new people who are excited about the organic industry. This is certainly a sector to watch."

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Alberta Lamb Producers to quit national federation

The move follows Ontario's decision to quit, which left the national group representing less than half of Canadian production

STAFF

Alberta Lamb Producers is pulling out of the Canadian Sheep Federation, saying the national body can "no longer effectively represent the sheep industry."

The move, effective Oct. 20, comes on the heels of the Ontario Sheep Marketing Agency's decision to withdraw its membership. Ontario accounts for 30 per cent of the national flock, followed by Quebec (26 per cent) and Alberta (just over 16 per cent).

Since Quebec left the federation several years ago, the national body would represent less than half of production, Alberta Lamb Producers said in a news release.

"The board carefully examined all the options and made a decision to redirect our time and resources based on what is best for Alberta's producers," said Erin Yaremko, a St. Paul producer and chair of Alberta Lamb Producers.

Yaremko said Alberta paid \$25,000 a year in dues, and that didn't include the cost and time of having a representative on the national body. She said "a lack of communication, action on key issues, and transparency," were also factors in the decision to quit the Canadian Sheep Federation.

Alberta Lamb Producers will continue to have representatives on several Sheep Value Chain Roundtable working groups and committees.

"In addition, ALP is committed to networking with all provinces in Canada and plans to further develop and cultivate relationships moving forward," the news release stated.

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2012 Bourgault 3710, 60', 12"	\$186,000
2010 Bourgault 3310, 75', 12"	\$95,000
2013 Bourgault 3320, 76', 12"	\$169,000
2013 Bourgault 3320, 75', 12"	\$139,000
2009 Bourgault 3310, 65', 10"	\$128,000
2011 Bourgault 3310, 65', 10"	\$138,000
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

2008 Bourgault 6550	\$89,000
2013 Bourgault L6550	\$115,000
2013 Bourgault L6550	\$115,000
1995 Flexi-Coil 5000/1330	\$28,000
2015 Bourgault L7800	\$251,800
2013 Bourgault L6550	\$115,000
2011 NH P1070, Tow Behind	\$98,000
2010 Case IH 3430	\$45,000
Bourgault 3225,	\$13,500
2005 Bourgault 6550 Trailing	\$59,500
2012 Bourgault 6450,	\$115,000
2002 Bourgault L5200, 2 meters	\$22,000
2010 CIH 3430	\$45,000
2008 CIH 3430	\$39,500
2007 CIH 3430	\$35,000
1996 Bourgault 4300	\$13,800
2010 Bourgault 6700, Tow Behind Conveyor, 3 meters	\$118,000
2012 Bourgault 6350, Tow Behind	\$58,000

BALER/ROUND

2004 CIHRBX562, 12,600 Bales	\$13,800
2003 NH BR780,	\$7,900
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
2010 NH CX8080, 1300/957 hrs ..	\$255,000
2007 NH CX8080, 1650/1290 hrs ..	\$189,000
2015 NH CX8080, 135 Thr Hrs	\$419,000
2015 NH CX8080, 135 Thr Hrs	\$419,000
2014 NH CX8080, 455/388 hrs	\$385,000
2007 NH CX8080, 1002/785 hrs ..	\$189,000
2008 NH CX8080, 2009/1522 hrs ..	\$179,000
2008 NH CX8080, 2005/1538 hrs ..	\$179,000
2012 NH CR8090, 1144/917 Hrs ..	\$289,000
2012 NH CR8090, 1058/811 Hrs ..	\$299,000
2012 NH CR8090, 727/543 hrs	\$339,000
2012 NH CR8090, 890/761 hrs	\$298,000
2014 NH CR8090	\$398,000
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
1998 NH TX66	\$38,000
1996 NH TR98, 2931/2211 hrs	\$39,000
1997 NH TR98, 2740/1934 hrs	\$38,000
1997 NH TR98, 3058/2357 hrs	\$28,000
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
2009 NH CR9070, 1351/1010 hrs ..	\$239,000
2010 NH CR9070, 1654/1240 hrs ..	\$189,000
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
2010 NH CR9090, 1333/907 hrs ..	\$309,000
2011 NH CR9090, 1302/901 hrs ..	\$280,000
2011 NH CR9090, 1087/837 Hrs ..	\$299,000
2012 NH CR9090, 868/632hrs	\$339,000
2012 NH CR9090, 788/619 hrs	\$379,000
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
2012 AGCO Gleaner S77, 423/323 hrs ..	\$259,000

2012 AGCO Gleaner S77, 446/346 hrs ..	\$259,000
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' Telescoping	\$19,500
2010 Richiger 9' Bagger with auger,	\$33,000

HARROW HEAVY

2011 Bourgault 7200,, 84'	\$47,000
2010 Riteway 8100, 78'	\$33,000

HEADER COMBINE

2012 MacDon FD70, 45'	\$75,000
2013 MacDon CA25, with UCA	\$23,000
2012 JD 635D, 35'	\$68,000
2010 Honeybee HB30, JD adaptor 30'	\$38,500
2010 Honeybee, HB30, Gleaner adaptor, 30'	\$49,500
2008 Honeybee HB36,	\$48,000
1999 Honeybee SP36, 36'	\$29,000
1994 Honeybee SP30,	\$9,800
2008 JD 936D,	\$39,900
1998 MacDon 960,	\$25,000
1998 MacDon 871 TX Adaptor	\$6,000
2011 MacDon FD70-45,	\$75,000
2012 MacDon FD70-45,	\$78,000
2013 MacDon FD75 -35,	\$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
2000 NH 994-30,	\$38,000
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

1999 MF 670 ,16' Hay Head	\$10,000
2006 NH 1475,	\$21,500
2006 NH HS16	\$8,000
1995 NH 2216,	\$7,500
1995 NH 2216,	\$9,500

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

1999 NH 994, 25'	\$15,000
2009 MacDon D60, 30' DK	\$33,000
2011 MacDon M150, 35'	\$118,000
2013 MacDon M105, 170 Hrs	\$138,000
2010 MacDon M150, 950 Hrs	\$109,500
2011 MacDon M150, 871 Hrs	\$125,000
2012 MF 9740,	\$98,000
2003 Premier 2952, 2098 Hrs	\$48,000
2005 Westward 9352, 1450 Hrs	\$69,000
2012 MacDon M155, 462 Hrs, 35' ..	\$138,000
1998 MacDon 960,	\$9,500
1998 MacDon 960, 25'	\$9,500

TRACTOR

2012 Case IH U105	\$59,000
1986 John Deere 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
2001 NH TM125 - LDR, 7435 hrs ..	\$48,000
2009 NH TV6070 - LDR, Eng Hrs: 4660	\$95,000
2004 NH TM175, 5200 hrs, LDR	\$74,000
2010 NH T7040	\$129,000
2011 Versatile 305, 1800 hrs	\$149,500

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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