



RODEO GETS UNFAIR RAP, SAYS ANIMAL WELFARE EXPERT

Study gives Calgary Stampede high marks for its welfare practices » PG 3



A BIG LOVE FOR THE LAND PROMPTS A MAJOR GIFT

Historic Oxley Ranch to be preserved for future generations » PG 8

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EXPRESS

Prairies could be plant-based protein superpower

Protein Innovations Canada aiming to make Western Canada the world's 'leading source of high-quality proteins'

BY JENNIFER BLAIR
AF STAFF / EDMONTON

Allison Ammeter doesn't understand why there isn't more domestic pulse processing on the Canadian Prairies. "As a farmer, I'm really proud of the fact that I grow good, safe food that's enjoyed around the world," said the past chair of Alberta Pulse Growers, who farms near Sylvan Lake.

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THE NEXT BIG THING? Pioneers of CTF have high hopes

Controlled traffic farming may be the biggest advance since no till, but even its fans don't expect it to be an overnight success

BY ALEXIS KIENLEN
AF STAFF

Controlled traffic farming has many benefits, but it still hasn't caught on big in Alberta.

There are only a handful of farmers in the province who have adopted the practice and a recent conference drew just over 50 people — even though CTF, as it's commonly called, is hailed by some as the biggest advance to come along since no till. But CTF proponents aren't deterred.

"One of the reasons is because people need to see things happen," said Peter Gamache, project leader for Controlled Traffic Farming Alberta, a multi-year study on the practice.

"You start off with a nucleus of guys, and if it's successful, it goes from there. That takes time."

Australia is the global leader in the practice of running equipment on the same tracks (called tramlines) in fields year after year. Severe drought led to about a million hectares being farmed under the system in Australia, driven by the idea that soil that isn't compacted will absorb (and hold) more water when there is some rain.

But the list of potential benefits is long — a veritable smorgasbord of things any farmer would love to have, including improved soil health, reduced inputs or targeted use of them (such as in-crop nitrogen application), less fuel use, less wear and tear on machinery, and the ability to get on fields early to seed and harvest in wet years.



Controlled traffic farming has seen the biggest uptake in Australia but is being tried in many countries, including this field in the Czech Republic photographed in 2015.

PHOTO: PETER GAMACHE

All of those grabbed the interest of Steve Larocque, an agronomist who also farms near Three Hills. In order to get a close-up look, he successfully applied for a Nuffield scholarship, travelling to Australia and elsewhere in 2007-08 to see first hand how the system works.

Upon his return, he immediately began modifying some old equipment so he

could test the system on a few hundred acres he farms on the side.

"Quickly, we found out that we could traffic our field a lot faster," said Larocque. "The first benefit — and the biggest one — was timeliness. We could get on our field a lot faster, and seed it in much wetter

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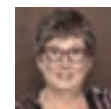
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Don't write off animal welfare advocates as vegans and 'crazies,' says expert

Most consumers now believe animals have rights and livestock producers have to respond to their views, says bioethicist

BY ALEXIS KIENLEN
AF STAFF/LEDUC

The growing emphasis on animal welfare and animal rights is part of a societal shift, and the livestock sector needs to embrace it.

That's the view of a philosopher who is also a professor of biomedical sciences and animal sciences at Colorado State University and author of several books on animal rights.

"Too many people in agriculture, if you say the phrase 'animal rights' or even 'animal welfare,' what comes to their mind is a small group of crazies, malcontents, radicals, extremists, and vegans who do not appreciate that North America has the most inexpensive, safe, wholesome food supply in the world," Bernie Rollin said at a recent Livestock Care Conference put on by Alberta Farm Animal Care.

But it's much larger than that, said Rollin. As far back as 2004, polls found 70 per cent of the American public wanted farm animal welfare legislated. That number is now well north of 90 per cent, he said, and many have gone well beyond that.

"Seventy to 80 per cent of Americans believe animals have rights, and it's higher in Britain.

So when you dismiss people as extremists when they believe animals have rights, you're making serious tactical errors."

Being blind to those concerns will only hinder agriculture's ability to manage the issue, he said.

Rapidly growing social concern for animal treatment is an example of the large number of social and ethical revolutions that have taken place over the past 60 years, including civil rights, feminism, LGBTQ rights, and children's rights. As larger society has encompassed the needs of minorities, they have also included animals in this definition.

"We all live under a social consensus ethic," he said. "If we didn't have one, if everything was restricted to your personal ethic, we'd have chaos."

"Failing to accord with the social ethic in a pre-emptive way can cost you customers, and more importantly, freedom."

Rollin urged his audience to think of social ethics as an ox cart going to Toronto.

"You as an industry are chained to that ox cart. You've got two choices. You can walk when the ox cart walks and rest when it rests. Or you can fight it, in which case you'll get there broken, bleeding and wounded."

Rollin urged his audience to think of social ethics as an ox cart going to Toronto.



"When you dismiss people as extremists when they believe animals have rights, you're making serious tactical errors."

BERNIE ROLLIN

Voluntarily managing issues is easier than waiting for the government to regulate.

"If you have the choice — self-regulate."

The livestock sector also makes a tactical error when it talks about animal welfare in terms of "sound science." Instead of asking if a particular practice is supported by science, ask whether it is something that should be done, said Rollin.

He also challenged the frequently cited view that high animal welfare standards are a given because productivity and taking care of livestock go hand in hand. That's not always true, he said.

"Productivity is an economic notion — predicated by the entire operation — while wel-

fare is predicated on individual animals," he said, noting a caged laying hen operation can still be profitable even if it is overcrowded.

It disturbs consumers if they believe producers and scientists ignore issues such as fear, pain, and distress unless they impact the bottom line. Instead, Rollin prefers another definition of welfare, which focuses on moral obligations to the animal.

"Science does not determine the concept of welfare — your welfare determines the science," he said, adding his definition of animal welfare is based on preventing suffering and allowing animals to express their nature.

And sometimes animal husbandry and animal science conflict.

"Animal husbandry talked

about how you put the animal in the optimal environment for which they were suited biologically and socially, and then augmented their ability to thrive and survive with food, water, and medical attention," he said. "Animal science gave us feeding bone meal to herbivores, which gave us mad cow disease."

In Rollin's view, the last supporters of animal husbandry are western ranchers.

"They still have the ethic of animal husbandry," he said.

A rancher will stay up all night to care for a marginal calf — not because there's an economic benefit, but because it's what they owe the animals, he said.

"The great virtue of husbandry is that it was a fair contract. Both sides benefited. We did well only if the animals did well. There was a close unity between animal welfare and producer welfare. That's the key point. We didn't need animal ethics. We didn't need any laws because self-interest is the most powerful contract."

Like it or not, there is now a social contract between livestock producers and consumers.

"The industry should look to what people want and then try and meet it. It's common sense."

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Alberta Wheat fighting to keep tax deferral

Ottawa is missing the point when it says grain farmers shouldn't get a special tax break, says Alberta Wheat chair Kevin Auch

BY GLENN CHEATER
AF STAFF

A tax break for grain farmers that Ottawa is considering taking away is deserved and benefits the entire grain sector, says the chair of the Alberta Wheat Commission.

"I guess we are asking for special tax treatment but it's because of our special circumstances," said Kevin Auch.

Following its recent budget, the federal government said it is considering eliminating deferred cash purchase tickets as they are "a departure from the general rule with respect to taxpayers (including other farmers)."

When grains and oilseeds are delivered for payment at a licensed elevator, an elevator operator can issue either a cash purchase ticket or a deferred cash purchase ticket, payable in the following year. The deferred cash purchase ticket means the income isn't claimed until the next year — a move that can save thousands of dollars for farmers who pay taxes as an individual (instead of through an incorporated farm business).

But it's not a tax dodge — merely a reflection of the unique nature of grain farming, said Auch.

"Someone with a widget business in town doesn't double their production one year and halve it the next — but we can't control

our production like someone making widgets," he said.

"So we'll get a great big crop one year and if I have a grain buyer phone me in December with a great price for grain that's in the bin, I don't want to have to say, 'I'd love to but I don't want to make my income too large this year and pay extra tax because next year might be a drought or whatever and I could be in a loss or have very little income.'"

The measure benefits the rest of the grain sector because if tax considerations force farmers to hold back grain when market opportunities arise, Canada will miss out on sales because of a lack of available inventory, said Auch.

"If you're offered a premium for



PHOTO: LAURA RANCE

delivering before the end of year and you don't have that deferred ticket option, then you have to weigh that premium against the extra taxes you'd pay," he said. "So it can really restrict us on when we sell our grain."

The federal government also said the "historical rationale" for the tax treatment of deferred cash purchase tickets "relates to international grain shipment agreements and the Canadian Wheat Board's former position as the sole purchaser of listed grain in Manitoba, Saskatchewan and Alberta." The end of the wheat board monopoly means grain delivery "is now the responsibility of private business rather than the federal government," it said.

That's "a red herring," said Auch, as the measure also applied to grains and oilseeds not under wheat board control.

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"It can really restrict us on when we sell our grain."

KEVIN AUCH

"This really has nothing to do with the free market. They may have used that as part of the rationale for allowing us to have it in the first place, but it's never been just wheat sales that we were allowed to defer."

A decision on the tax deferral won't be made until after a "stakeholder" consultation, which runs until May 24. Alberta Wheat is preparing a submission and Auch said producers should send their comments to both Alberta Wheat (email government relations manager Erin Gowriluk at egowriluk@albertawheat.com) and federal officials (at consultation_tax_2017@canada.ca).

Ottawa needs to be reminded that "we're different from other farmers and different from other industries and taxpayers," he said.

Most wage earners receive the same pay every month, but every year is different for grain farmers, he said.

"If you push yourself up into a higher tax bracket one year, the next you might have a drought or an early frost. Like this year when guys have all this crop sitting out there. You might have a really good year the previous year and paid all this extra tax when you could have averaged it. It more correctly reflects what income you're actually making."

Alberta Agriculture has a backgrounder on year-end deferrals that includes deferred cash purchase tickets (as well as other types of deferrals). It can be found at www.agriculture.alberta.ca (search for 'year-end deferrals'). — *With staff files*

Stampede is a champion of animal welfare, says researcher

The Calgary rodeo is a leader in giving access to researchers, and they haven't found high levels of animal stress or abuse

BY ALEXIS KIENLEN
AF STAFF/LEDUC

Animal activists are quick to denounce the Calgary Stampede for animal cruelty. But it turns out very little research has been done on animal welfare at rodeo events.

"As a scientist, I can say that there is no data on rodeo and how animals are being treated. That's where some of the research we've been doing is really focused," Ed Pajor, a University of Calgary professor of animal welfare, said at the recent Livestock Care Conference.

Pajor is one of four members of the Calgary Stampede's animal care advisory panel and, contrary to what many of its critics claim, the event's organizers don't brush animal welfare under the carpet.

"The Stampede has done a great deal," he said. "They've made animal care and animal welfare part of their strategic plan. They listen closely to the expertise around the table, and they've come up with numerous strategies and approaches."

"They receive a lot less credit than they deserve. The changes they've made within their organization are far reaching."

The Stampede has developed its own code of practice for animal welfare, based on legal recommendations, industry standards, and individual rules for each rodeo event and animal exhibition. It has also hired Jennifer Woods, an animal-handling specialist, to conduct audits.

"These assessments and audits don't sit on the shelf. Changes are made as budgets allow," said Pajor.

For example, after the flood of 2013, the Stampede made a major investment to replace all of the hardware in the bucking bull chutes.

On the other hand, while many rodeo supporters say rodeo animals love performing, it is difficult to measure this scientifically, said Pajor. In his team's research, behavioural indicators of fear in animals — including tail flicking, defecation, kicking, and 'eye whites' (more white area is a sign of stress) — are monitored.

"One of the things that I heard a lot about the Stampede is that animals are handled very badly, that they're handled very roughly," he said. "That type of story was out there as part of the discussion around the treatment of animals at the rodeo."

To see whether this was true, Pajor and



Critics contend the Calgary Stampede and other rodeos are inherently cruel, but researchers have found animals to be relaxed in pens and as they enter the chutes. PHOTO: REUTERS/TODD KOROL

his students studied bucking events at the rodeo to see if they could pick up indicators of fear and stress during loading and prior to performance, when animals are in the bucking chutes. Using behavioural analysis and infrared thermography (which measures heat in the eyeball to indicate stress levels) researchers collected data at the Stampede for several years.

In the holding pens, animals appear calm and relaxed, even though there is lots of activity and other animals are being moved about.

"Based on what I heard, I thought I was going to see animals getting very nervous prior to performance, and animals getting a lot more restless — that's not what we saw," said Pajor. "We saw animals that were pretty calm in the back."

Researchers scored the handling of the animals as well as the behaviour of bulls when they were being loaded, and watched for negative behaviour, such as kicking or charging.

"The people in the back who are moving the animals are well trained in terms of animal movement," said Pajor.

The handlers mainly used a rattle paddle to move the animals, but there were a few instances of handlers hitting the animals or striking them with the gate. In general, very few animals experienced aversive handling at all, and the frequency of animals hit by a person or gate were low.

"Very few animals had trouble loading. For the most part, the story here is that the animals move very easily."

While animals appear to be calm, some of their calmness could actually be attributed to a phenomenon called "learned helplessness," which means the animals stop resisting or displaying fear even when distressed.

"It's not that the story is completely in the clear, but what we are definitely not seeing is a whole bunch of crazy animals behaving in some sort of way in the chutes prior to the actual event, before the doors open," said Pajor, adding researchers need to design additional experiments to get the whole story.

Less experienced animals showed more fear responses than experienced ones, but bulls react to human behaviour that is not specific to the rodeo. Most of the animals don't have a lot of experience with people, and may be reacting more to being close to people, microphones and cameras, than to the rodeo itself.

Pajor praised the Stampede for its forward thinking and for allowing researchers to have access to the entire site. Other North American rodeos are now looking to — and starting to adopt — Calgary Stampede's guidelines, he said.

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OPINION



BY GORD GILMOUR

MANITOBA CO-OPERATOR EDITOR

Statistics Canada says there were just over 13.3 million households in Canada at the time of the 2011 census, a number that has surely grown since then.

The numbers crunchers at the agency rather dryly define the term as "... a person or group of persons who occupy the same dwelling and do not have a usual place of residence elsewhere in Canada or abroad."

Drilling down a bit further of course, it becomes apparent that most of these are families of one type or another, in all the variation that modern society encompasses. There are traditional nuclear families, childless couples, single-parent households and so forth.

In Canada, one thing these households all share is that a number of their most basic foods are produced under the supply management system. In those sectors, there are far fewer families involved in producing this bounty. In the dairy sector, for example, the federal Agriculture Department says just over 11,000 farms shipped milk in 2016.

It's when those numbers are broken down that it becomes truly

impressive. Each of these operations furnishes the dairy needs of 1,200 Canadian households.

The dairy industry should be very proud of that accomplishment. It produces healthy and wholesome products that nourish the nation.

A very similar trend can be seen running throughout the supply-managed sector, with a comparatively small number of farms helping to feed an enormous number of households.

Within this efficiency are a few dangers to the sector, however. One is the lack of political clout to advocate on its own behalf. Another is the danger that the intricacies of how the prices of supply-managed products are set will be ignored for political purposes.

Conservative leadership candidate Maxime Bernier is raising the issue in new and unapologetic ways, promising to axe the system if he is elected party leader and then forms government.

It is Bernier's right to hold this position, and it's important to note that while he wants to do away with supply management, he doesn't appear to want to see the affected farmers undergo undue hardship. His policy calls for a special levy that would over time build up enough funds to compensate

farmers for their earlier purchase of quota.

Dairy farmers don't like the idea much, of course, and in the article they're seen organizing in opposition, taking out party memberships to vote for others. But Bernier, ironically representing the largely agricultural heartland of Quebec known as Beauce, where supply management is well represented, seems unswayed. He notes more citizens would be positively affected by the move than negatively.

He admits there are about thousands of supply management supporters in his riding but he still won 60 per cent of the vote in the last election and any loss in the future will be more than offset by the voters who find their grocery bills lowered.

This is a political gamble for Bernier, but also a move that is true to his own world view. Many of his policies are well into the Libertarian end of the political spectrum, and it would be surprising — and inconsistent — to see him support supply management.

It brings to mind an old political metaphor that "only Nixon could go to China," referring to that former president's role in normalizing relations with Red China in 1972 with a historic state visit. Nixon was an ardent anti-commu-

nist and therefore had the luxury of taking this action without the risk of being painted as soft on Communism as someone like Jimmy Carter may have been.

Here in Canada some pundits have suggested that, similarly, only the NDP could significantly reform our health-care system because of that party's perceived role as the stalwart defenders of it.

Perhaps only a politician from the Beauce could lead this conversation, for better or for worse.

Anyway one looks at it, it's going to be a challenge for the sector, and one producers can't afford to ignore. A steady drumbeat calling for change getting louder. In recent months, there have been a spate of opinion articles calling for action; political support also appears to be building. Bernier is simply the most recent — and high-profile — symptom of it.

If supply-managed farmers want their system to continue, and are as certain of its benefits as they seem to be, they're going to need to be especially articulate at spelling out its advantages to all Canadians, not just themselves.

These are dangerous times for supply management as the sector tiptoes through a minefield.

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BY LAURA RANCE

FBC EDITORIAL DIRECTOR

Much of the attention focused on newcomers to Canada these days is laced with fear that they will bring change.

What is often overlooked however, is that change can bring good things to a country — including economic growth.

Canada's canola story — a stunning success by any measure — is a case in point.

It was Polish immigrants who first introduced the early relatives of the yellow-flowered oilseed now known as 'Canada's Cinderella crop' to the Canadian Prairies.

A historical timeline posted on the Canola Council of Canada website to commemorate its 50th anniversary credits Fred and Olga Solvoniuk, who started planting Brassica rapa in their garden near Shellbrook, Sask. in the late 1920s. Some say they brought those seeds from Poland in a handkerchief. Others say they borrowed a few seeds from another neighbour. Soon they were handing tobacco

cans filled with the seed to their neighbours and acres of what came to be known as "Polish rapeseed" grew.

However, it remained not much more than a novelty on Prairie farms because of its limited use. Traditional rapeseed contains high levels of erucic acid, which makes the oil taste bitter, and glucosinolates, which remain in the meal, rendering it unfit for livestock feed. Its commercial uses were limited to industrial lubricants.

But the crop was clearly suited to Prairie climate at a time when cropping options were limited to cereals and forages. That attracted the interest of plant breeders, initially during the Second World War when demand surged for industrial oils.

Then came the "what if?" moment, thanks to two plant breeders who became known as "the fathers of canola."

Baldur Stefansson, the son of Icelandic immigrants, was at the University of Manitoba and Keith Downey was with the federal Department of Agriculture in Saskatoon. Both started work in the late 1950s to breed those undesirable traits out of rapeseed.

You could characterize their relationship as one of competitive collaboration. Both wanted to be the first to achieve that goal, yet they routinely shared germplasm that might help the other one get there. Both have been honoured for their contributions to Canadian agriculture and to Canada.

In 1974, Stefansson released the first variety of "double-low rapeseed," later branded as canola, with a line that had a slightly better yield potential than Downey's first effort. But not long afterwards, Downey released the first early-maturing variety, which vastly increased the range of acreage that could grow canola on the Prairies.

From there, canola's story has been one of steady growth to where its impact on the Canadian economy is now calculated at \$26.7 billion. The industry generates 250,000 jobs and \$11.2 billion in wages, in large part due to the development of a domestic processing sector, a newly released economic analysis commissioned by the canola council says.

The crop is grown on most Prairie crop farms, with last year's 20 million acres creeping ever closer

to wheat at 23.2 million acres — a notion that would have seemed incredible even a few short years ago.

As the Canola Council of Canada recently gathered in Winnipeg to celebrate its Golden Anniversary, there were lots of plays on the word "golden" to describe its growth since the first varieties were introduced in the mid-1970s.

More than anything, it is the story of a value-chain approach. Whereas the former Canadian Wheat Board played a key role in value-chain collaboration for the grain sector, the canola council was the first to emulate that for a non-regulated crop.

Under its umbrella, plant breeders, processors, farmers and exporters have had to come together to determine the best path forward for the crop even though their perspectives on the best genetics, technologies and market opportunities can be quite different.

Fred and Olga had no idea what they were starting when they sowed those first few seeds of hope. Like many others, they were just looking for a better life.

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When seeding canola this spring, give thanks to immigrants

Early Polish settlers were the first to grow rapeseed, near Shellbrook, Sask., spawning the multibillion-dollar industry of today

OPINION



BY BRENDA SCHOEPP
AF COLUMNIST

Will agriculture and food processing finally take centre stage?

A new report says these two sectors are key to Canada's future prosperity — and that recognition is a welcome development

A recent report from the Advisory Council on Economic Growth highlighting agriculture and food processing as keys to economic growth in Canada.

The advisory council called on Ottawa to create a growth strategy for what it calls “agfood,” which it defines as everything from “field to fork.” Its report says that could generate another US\$30 billion in exports (equivalent to nearly two per cent of the GDP) over the next five to 10 years.

The importance of this report is that it has flagged agriculture and food processing as an economic generator of priority within the nation's economy and there should be full engagement in the strategy right to the office of the prime minister. (The advisory council was created by Finance Minister Bill Morneau.)

This is the first time in my years in the industry that food processing and agriculture have been linked, identified as a key thread in the fabric of economic prosperity, and given so much attention by the federal government.

To the advisory council's credit, it looked at the examples

of countries such as Australia, New Zealand, and Holland that have been successful in growing their food exports. Its recommendation to create a hub connecting all the parts of the sector is interesting and speaks to the shortage of infrastructure within processing.

However, the report did not address the capital infrastructure issues from a commodities perspective, which I feel is an outstanding issue — especially when it comes to ingredients.

If we are to compete and to grow our food industry, we need more than two lanes on the Trans-Canada Highway throughout the nation; greater access to air and sea transportation; and a national railroad policy that prioritizes ag commodity shipping. Growth in the food-processing industry will need to grow at port and plane to ensure controllable logistic costs. How Canadian ingredients get to Canadian manufacturers is still an outstanding problem that needs addressing.

The report also touches on farm subsidies and dairy quota. These have yet to be clarified so we can withhold from judgment. Its contention that government farm subsidies equate to “26 per cent of its economic output” and this funding “is not contingent

on meeting productivity-related requirements, such as adopting new technologies” needs further discussion. (What does this mean? Is the council suggesting farm subsidies be axed or that they should be revised to boost productivity and encourage adoption of new technologies?)

The report also says provincial quotas are a handicap to growth within the dairy sector because they “curtail investments in productivity.” How does the dairy industry interpret this in the wake of Ottawa's November announcement of \$350 million to help it adjust to new competition stemming from the trade deal with Europe? Will dairy be on the table?

Our natural capital in Canada allows for some terrific growth, but we cannot grow at the cost of jeopardizing land and water. This then begs the question of where the lens will focus: Will it be on manufacturing or will that be combined with production? How do we protect natural capital while growing food exports by \$30 billion?

While it is true that we have had a terrific base of entrepreneurs and companies in Canadian food processing, the big question always comes back to the weak link of commercialization. It is fair game to keep the

The idea of building research capacity is welcome and needed, and we have much to repair in this area.



pressure on in this area as small- and medium-size enterprises are often left to drift at this stage in development. The call for existing financial institutions to provide growth capital for expansion of small- and medium-size companies is one part of the solution. But the report goes further and recommends not only talent recruitment, but also training. (What is not addressed is wage parity within the sector and until we have a gender balance within it, some of the best talent may not be attracted to the Canadian food sector.)

The idea of building research capacity is welcome and needed, and we have much to repair in this area. But in key areas such as genomics and multidisciplinary research platforms, we have

world-class researchers. When combined with the needs of the industry around one roundtable, we could see an unprecedented level of product development.

The key is investment from the federal government. That will provide momentum and that, in turn, will attract foreign investment, a critical ingredient to successful food processing. The Prairie provinces are especially in need of a robust and aggressive plan to transform commodities into food products.

If the federal government takes the report to heart (and provides funding), it will require the entire agriculture and food-processing sector to ensure that the end result is world class and rivals models such as Holland for innovation, co-operation, and creativity.

This is our chance and our future to have farming and food recognized as essential for the future prosperity of our nation.

The council's report can be found at www.canada.ca (search for ‘Unleashing the Growth Potential of Key Sectors’).

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



BY SYLVAIN CHARLEBOIS
DALHOUSIE UNIVERSITY

Growing pains for Canada's agri-food sector

The federal budget injects some new life into Canada's agricultural industries, but not enough funding or clarity

Canada's agri-food sector has under-achieved for too long. The new federal budget gives the sector the opportunity to reimagine its potential.

Finally, Ottawa wants to make the agri-food sector a place to invest and foster innovation.

The Liberal government aims to increase Canada's agri-food exports to at least \$75 billion annually by 2025 (from \$56 billion now) and make our country a trading powerhouse. That target is modest but it's a start.

Innovation was the overarching theme in the recent federal budget. Some funding was allocated to genomics research and a modest sum goes to research more broadly. And climate change was mentioned as an innovation driver.

However, the budget document was unclear on how funding could motivate the agri-food sector to better connect what we produce and what consumers want, domestically and abroad. Such connections need to be achieved despite our most significant disadvantage — our Nordic climate.

Most importantly, developing new products for an increasingly diverse consumer base is problematic.

More companies have recently sought innovations. Loblaw's, Agropur, and a few others have had great progress with fresh programs. Ottawa can act as a catalyst to entice more companies to follow suit.

The budget also puts important focus on logistics and supply chains. Moving products across the country is our greatest challenge to expanding the agri-food sector. More than \$12 billion will be invested in gateways, ports, bridges, and roads to make trading more efficient. While this isn't a great sum, it does demonstrate support for agri-food producers.

This follows former prime minister Stephen Harper's decision in 2005 to invest in the Asia-Pacific Gateway and Corridor initiative. The Conservatives drew our attention to Canada's logistical deficiencies and now the Liberals are continuing the work.

Connectivity is also important. Following the Canadian Radio-Television and Telecommunication Commission (CRTC) recommendation a few months ago, Ottawa intends to invest \$500 million to expand rural broadband connections. This is excellent news for market-savvy farmers. Markets can change in an instant

and it's important to make every trading minute count.

The elimination of tariffs — on a long list of ingredients, including cereals and grains, fats and oils, fruits and vegetable, and food preparations and chocolate products — is also good news for the agri-food sector. This could save Canadian processors more than \$200 million a year and strengthen their competitiveness at home and abroad.

- But the budget was not all good news:
- It didn't suggest any timelines or framework to increase trades between provinces, which is a significant challenge.
 - There was no mention of the crisis state of supply-managed sectors, like dairy, poultry and eggs.
 - It didn't provide any suggestions on how Ottawa intends to update the Temporary Foreign Worker Program, which is critical for the agri-food sector, particularly in processing.
 - And it doesn't mention how Ottawa intends to grow the industry for northern communities.

The budget document makes Growing Forward 3 a priority for 2018. Typically, we end up with a vague five-year plan for future programs. And that's more about growing pains than growing forward.

Past frameworks have been supported by a budget rarely exceeding \$5 billion. By comparison, the uncompromising 2014 U.S. Farm Bill frames a massive enterprise worth almost US\$1 trillion. There are many things wrong with the Farm Bill, but at least Americans have a vision for their agri-food sector that combines production with consumption.

To give Canada a similarly powerful vision, the next instalment of Growing Forward should be worth at least \$100 billion over the next several years. The sector needs that kind of commitment if it's to make a difference in the world.

Certainly, some funding help is coming to the innovation and infrastructure portfolios. But if Ottawa really wants to make the agri-food sector a leading economic engine, the \$75-billion export target should be just a starting point. Hefty government investment is needed, but we should realistically expect to reach exports around \$100 billion by 2025.

It's time to reimagine and then realize the potential of Canada's agri-food sector.

Sylvain Charlebois is dean of Dalhousie University's faculty of management and a researcher in food distribution and policy. He writes regularly about food and agriculture.

CTF ▶ from page 1

conditions than we could before, especially on our heavy clays.”

Larocque, one of eight farmers in the study overseen by Gamache, is one of the big boosters of CTF. After six years of running equipment only on tramlines, he said he’s seen many other benefits.

“On the wet side, we can absorb a lot of water — our porosity is 68 to 70 per cent in our soil, which is incredible,” he said, adding he’s continually amazed by how quickly a heavy rain is soaked up.

The system also gives him the ability to place seed more accurately, do precision applications, and has resulted in better canola emergence.

“What we can do with four pounds of canola seed, most would take five pounds to achieve and get the plant stand we do,” he said.

He’s also noticed a decrease in wild oats, cleavers, and buckwheat populations on the CTF areas in his fields, compared to the random traffic check areas he’s maintained.

Barley responds especially well and his barley yields have increased by five to eight per cent, he said.

The challenges

So why aren’t farmers piling into CTF? Two big reasons — equipment and a major learning curve.

Scott Keller was well aware of both challenges, which is why it took him seven years to move from a believer to a practitioner.

The farmer from New Norway, who is also an agronomist, said he was convinced of its value when he first heard about the practice in 2008. But he also decided that switching to the system required a “long-term plan.”



The tramline used by the sprayer (which typically runs on every third or fourth tramline) is obvious in this controlled traffic field in Lacombe County. Ease of spraying and other in-crop applications (such as split application of nitrogen) is one of the advantages of CTF systems. PHOTO: PETER GAMACHE

“It wasn’t that I went from random traffic last year to now I’m full CTF,” he said in a presentation at the conference on the practice last month.

“A lot of the other co-operators (study participants) dove right into it, and definitely, there were some challenges.

“Basically, it took me five or six years before I was there.”

In the meantime, Keller kept studying the practices while gradually purchasing equipment that would work with the system (axle widths must be either the same on all equipment or multiples of that width).

Larocque agrees with that go-slow approach.

“You have to sort things out, you have to map out your equipment

and your equipment widths and field directions, what equipment you’re going to buy in the future,” he said.

Larocque opted to go with 30-foot spacing when he modified equipment and most current users either go with that spacing or 35 feet. But he figures 40-foot spacing will likely be the choice of most producers in the future.

But that wider spacing brings its own challenges, said Keller.

“If you’re going to do 40, you have to prove to yourself that you can spread residue 40 feet,” he told conference attendees. “Guys are doing it, but it’s a big task.”

He urged those thinking of adopting CTF to first spend time learning how to spread residue more effectively and master inter-row seeding.

“If you can’t do those two things, you can never get CTF to work,” Keller told his audience.

Slow adoption allowed Keller to learn from his mistakes without paying a heavy price and not have to spend money modifying equipment to get the right axle width.

Still, he said, he hasn’t got a big return on his investment of time and money, unlike upgrading to RTF (real-time kinematic) guidance which “paid for itself in four years” by reducing overlap.

“CTF hasn’t given me a return over what I was doing,” he said.

The future

These two sides of CTF — many potential benefits but small returns (at least initially) — seem to be at odds with each other.

But that’s why patience is needed, said Gamache, adding the early days of CTF are much like those for no till.

“The guys who continue with it, they could see some yield advantage, but it’s not going to come quick,” he said. “Direct seeding was a case where you didn’t see it. It took four to five years, and (then) the system started working well and performed well in a drought.

“I’m sure a lot of guys are watching and waiting and wondering what is going to happen and if this is the next way to go.”

Even Larocque, who regularly extols the benefits of CTF in his weekly client newsletter, can quickly name the barriers to adoption. The big ones are that the system “requires more thought and planning to execute,” harvest logistics are more complex, the costs of adapting equipment aren’t clearly known, and “it is early days with CTF in Canada so nobody knows the true benefits.”

“It’s a pretty challenging management system in terms of getting into it and the thought process,” added Gamache. “But once you’re up and running and have all your pieces in place, it actually is a great system to work with.

“Getting there certainly takes a lot of planning. That’s a factor for many guys who are busy and may not be prepared to do that.”

At least for now, said Larocque.

“People are waiting — why learn when you can let the early adopters figure it out?”

To see results of the plot reports from Controlled Traffic Farming Alberta and other information on the practice, go to www.controlledtrafficfarming.org.

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PROTEIN ▶ from page 1

“But it’s always really ticked me off that everything we grow is loaded into a grain car and sent somewhere else.

“We don’t have to ship it to someone else to do the work. We can be doing this here in Alberta.”

Over the years, Alberta’s agriculture industry has dipped its toe into value-added processing for the “bigger-picture things,” said Ammeter, who chaired the national committee for the International Year of Pulses in 2016 and was recently given the Pulse Promoter Award by Saskatchewan Pulse Growers for her work on behalf of the sector.

“We’re cleaning our grain on the Prairies, and that’s adding value,” she said. “Our pulses are being split and bagged. That’s not what I would call high value added, but it’s sure a lot better than just shipping them in container cars.”

Canola crushing has an economic impact of about \$1.3 billion annually and thanks to a booming craft beer market, malt barley is another growing value-added industry in Alberta, she added.

“I look at the oat industry, the flax industry, the hemp industry — all of them are doing it.”

There is tremendous potential for fractionation of pulses, a relatively new technology that separates seeds into protein, fibre, and starch, which can then be used in food products, she said.

“I believe we’re now looking at value adding not just in splitting and cleaning, but value adding in looking at what we can do with the protein and other fractions,” she said. “There are so many extra things we can do. We can go much further.”

And adding value would put money into farmers’ pockets because it would boost demand.

“Right now, we’re shipping our peas for \$8 or \$9 a bushel. I think if we send them to a fractionation plant, we’re going to see more,” she said. “When’s the last time you heard about farmers selling their canola for \$6 a bushel? It’s because we’re adding value.”

‘Big-time’ potential

Some argue that the province doesn’t have the technology to do value-added pulse processing, said Ammeter.

“But I look around and I see the oilpatch, which has some of the most interesting technology and cutting-edge innovation in the world. We don’t have the technology to do value-added food? I don’t buy that one.”

Still others argue that Alberta is too far away from consumer markets, that it’s cheaper and easier to transport raw grains than value-added goods.

“OK, maybe we shouldn’t be canning beans in the Prairies because they’re a heavy thing to ship, but then I look at pharmaceuticals and colourants (dyes and pigments) that we’re shipping out in containers on a train that’s straight to Chicago in 10 hours,” she said.

“As a farmer, I go back to the question of ‘why can’t we do this?’ I know we can add value here.”

The federal government seems to think so too. Last month’s budget pledged \$950 million over five years to support ‘superclusters,’ research and development hubs that will add value to Canada’s economy. The pulse sector has created a multi-province partnership — called Protein Innovations Canada — that is ready to make the case that, through this ‘supercluster’ funding, the western Prairies could become a leading global



A new \$400-million pea-processing plant in Manitoba, announced with fanfare at the Manitoba legislature in January, may just be the beginning of Western Canada’s bid to become the leading global supplier of plant-based proteins. PHOTO: SHANNON VANRAES

supplier of plant-based proteins and food ingredients.

“It’s a concept that we hope we can turn into reality,” said Wilf Keller, president and CEO of Ag-West Bio, a bioresearch investment firm based in Saskatchewan.

“We want to position Canada as the leading source of high-quality proteins. We have the capacity to produce crops that have proteins that are considered to be of value for downstream uses.

“This is a growth area. There’s growth potential here big time.”

With the growing consumer interest in healthy, sustainably produced food products, pulses and other plant-based proteins are a good-news story — one that has been largely underdeveloped to this point.

“This is an area of growing interest, but there’s only a tiny portion of our pulse capacity that is turned into ingredients. We have a long way to go,” said Keller.

Momentum building

Organizations like Pulse Canada, Cigi (Canadian International Grains Institute), and the Leduc Food Processing Centre have already done research on utilizing pulse fractions in food products. As well, French company Roquette announced in January it plans to build a \$400-million pea protein-processing plant in Portage la Prairie, Man.

“We see a lot of signs that there’s increasing interest in investment in Western Canada in pulse fractionation,” said Keller, a well-known agricultural researcher in biotechnology development who has led numerous major research efforts.

“There’s already evidence of

industry investment, so we need to continue and build momentum in this area.”

If funded, Protein Innovations Canada will set up a home base in the Prairies and partner with industry leaders and key stakeholders in the sector to invest in research and market development for plant-based proteins from pulses, canola, and hemp.

“We have the potential to produce these products, and our strategy has to be to add value first to ingredients and then beyond,” said Keller.

It could be “really big business,” he added.

“Using canola as an example through to 2050, we estimate that we would be able to have 20 million tonnes of high-quality protein. From 2020 to 2050, this is a trillion-dollar industry that we’re looking at, and it will be close to the same in pulses.”

Investing in plant-based proteins is simply a no-brainer, he said.

“There’s a big opportunity for this to be based on the Canadian Prairies,” said Keller. “We have the land, we have the expertise, and we have the interest. Now we just need the push.”

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Historic Alberta ranch to be preserved as cattle operation

NATURE CONSERVANCY OF CANADA RELEASE

One of Alberta’s oldest ranches will remain a working operation thanks to a conservation agreement with the Nature Conservancy of Canada.

When it was founded in 1882, Oxley Ranch covered 200,000 acres, making it one of the four largest ranches in the foothills. The remaining 2,266 acres will now be preserved from cultivation, drainage of wetlands, subdivision and development of the land.

“This land is our family’s legacy; it’s been my personal sanctuary for my entire life,” said landowner Jennifer Barr, whose family has been living on the ranch since 1919. “I have a great appreciation for what my grandmother, my aunt, and my stepfather all sacrificed to hold on to this ranch. I have always felt a great responsibility to care for it, to preserve it, for future generations.”

The southern foothills are a priority for the Nature Conservancy as the region is one of the last pieces of relatively intact fescue grasslands in the province. It’s estimated that less than five per cent of native fescue grasslands remain in the country, making this area one of the most threatened regions of Canada.



The entrance to Oxley Ranch, which covered 200,000 acres of the majestic southern foothills when it was founded 135 years ago. PHOTO: NATURE CONSERVANCY OF CANADA

“It is a precious piece of God’s country that can never be replaced once it’s gone,” said Barr. “Knowing that it will remain as it is and will be protected from now on gives me great comfort.”

The ranch looms large in Alberta’s ranching history and was associated with the Fort

Macleod-Calgary Trail — the primary north-south transportation route prior to the Calgary and Edmonton Railway. It is located near several other properties that have reached agreements with the Nature Conservancy, including the Welsch Ranch, Waldron Ranch, and King Ranch. All are

located in the headwaters region of southern Alberta — an area that covers only four per cent of the province but provides fresh drinking water to 45 per cent of Albertans. The southern foothills remained mostly ranch country until the mid-1990s, but ranch economics cannot compete with

land prices paid by urban developers.

Oxley Ranch is home to a variety of bird species, including prairie falcons and bald eagles, as well as native plant species, which grow along the banks of Willow Creek, which runs through the property for several miles.



“I have always felt a great responsibility to care for it, to preserve it, for future generations.”

JENNIFER BARR

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ATCO

Carbon emissions: It’s not the farming, it’s the inputs, says NFU

Until synthetic fertilizers came along ‘agriculture was low input and solar powered,’ says the farm group’s research director

BY SHANNON VANRAES
STAFF

There is no way around it, reducing carbon emissions will require a hard look at the use of nitrogen fertilizers, says a National Farmers Union official.

“A fundamental truth around agriculture and greenhouse gas emissions is that agriculture doesn’t actually produce greenhouse gas emissions, it’s agricultural inputs that produce greenhouse gas emissions,” said Darrin Qualman, the NFU’s director of research. “That might seem a little counterintuitive, but if you take a long view, sort of a long-term look at agriculture, we’ve

had agriculture for... about 10,000 years and for 99 centuries there was no net emissions from agriculture, agriculture was low input and solar powered.”

A century ago, lightweight tractors, built with innovations developed during the First World War, first appeared on Canadian fields, he noted, adding the pace of development only picked up steam following the Second World War—as did producers’ reliance on synthetic inputs.

“Those high emissions are really just a reflection of the inputs, we’re maximizing production on our farms and one of the ways we’re maximizing production is by maximizing the inputs that we push into that food system,” he said. “Most of

those inputs are fossil fuel products and nitrogen is notoriously fossil fuel expensive to produce.”

Qualman is currently completing a report on carbon emissions in agriculture and while it is not yet complete, it’s clear there needs to be reduction in input use, he said.

But the idea of asking farmers to forgo nitrogen wasn’t a hit with everyone.

“I don’t think that’s going to fly very well, perhaps we should encourage industry to develop forms of nitrogen that aren’t going to emit as many emissions,” said Wilf Harder, a prominent NFU member in Manitoba.

However, Qualman was quick to clarify his comments.

“Nobody is saying that nitrogen has to be eliminated, just the opposite, it probably will be with us for quite a long time... what has to be eliminated is this steep upward trend in the use, where it’s been doubling every 20 or so years,” he said.

The decoupling of livestock and cropping has contributed to emissions by pushing farmers towards synthetically produced inputs, said Lydia Carpenter, the NFU’s first vice-president of policy and a grass-fed livestock producer from Manitoba.

“I think when we say nitrogen, we’re talking about synthetic nitrogen,” she said. “So we’re not talking about not using nitrogen, we’re talk-

ing about accessing it in a way that’s profitable.”

More diverse farming would be more sustainable and profitable, argued Qualman.

“We probably need a lot more diversity, we need more people doing polycropping and holistic resource management and intensive grazing, and then on the other end of the spectrum, we need people who continue to do zero till and use nitrogen,” he said. “But in the middle we need a lot more diversity because we’ve really devoted most of the acres in Western Canada to one kind of agriculture and that’s a very high-emission form.”

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FLOOD OF U.S. SOYBEANS EXPECTED TO RISE HIGHER

Even though stocks are at all-time highs, U.S. farmers plan to seed a record amount of soybean acreage this spring. But wheat acreage is forecast to fall to the lowest on record, says the U.S. Agriculture Department. It forecasts a record 89.482 million acres of soybeans, about 500 million acres behind corn plantings, which is expected to fall 4.3 per cent. Soybean futures fell sharply after the report was released in late March, closing at \$9.46 per bushel, the lowest level since August. “It is a bearish report for beans on all sides, the stocks are higher and the switch away from corn was bigger than anyone figured,” said one market analyst. — Reuters

HAVE YOUR SAY ON THE NEXT GROWING FORWARD

Alberta producers have a chance to offer their ideas on what should be in the successor to the current Growing Forward 2 agreement, which expires on March 31, 2018. The online survey includes discussion about key priorities, including markets and trade; science, research and innovation; risk management; environmental sustainability and climate change; value-added agriculture and agri-food processing; and public trust. When completed, the Growing Forward 2 agreement will have put more than \$400 million into farm and agri-food programs in Alberta. The online survey, which runs until May 8, can be found at www.alberta.ca (search for ‘agriculture policy framework’). — Alberta Agriculture

MARKETS



As expected, a bearish outlook for U.S. soybeans weighs on canola

The market for canola remains strong but is feeling the consequences of ample soybean stocks

BY JADE MARKUS

Speculation ahead of a much-anticipated dataset from the U.S. Department of Agriculture had ICE Futures Canada canola chopping around a wide range in the week ending March 31. USDA released its prospective plantings and grain stocks reports on March 31. The department’s seeding estimates often act as a major mover in markets, leaving values with double-digit gains or losses. This year’s estimates were projected to be bearish for soybeans at the Chicago Board of Trade (CBOT), and lived up to expectations. U.S. soybean-planted area for 2017 is estimated at a record-high 89.5 million acres, up seven per cent from last year, USDA said. The less anticipated, though still important, stocks report added to the bearish tone in soybeans. Soybeans stored in all positions in the U.S. on March 1 totalled 1.73 billion bushels, up 13 per cent from the same time frame a year prior, the U.S. agency said. Soybean futures were also feeling the bearish effects of competing supplies emerging from South America. Brazilian producers are finishing harvest and will

be taking supplies to ports throughout April. Those weaker soybean prices pressured canola, moving the market lower on the week. Canola is feeling the consequences of ample soybean stocks, though the supply situation in the Canadian market is tilted toward bullish. Traders expect canola supplies could be tight moving into the spring. Crops that were left to overwinter will soon be coming out of fields, revealing the amount and quality of those supplies — which some expect will not be good. Those expectations are lending canola some independent strength, but not enough for the market to shrug off the bearish effects of supplies south of the border. The Canadian dollar was mostly range-bound on the week, which did little to sway canola either way. Corn The expectation for a lower amount of corn to be seeded this year allowed the CBOT corn market to advance on the week, though heavy stocks limited the market’s upside. Corn seeded in the U.S. in 2017 is expected to reach 90 million acres, down

four per cent from the year prior, USDA said. Stocks of corn as of March 1 totalled 8.62 billion bushels, up 10 per cent from last year. That tempered gains, along with competing supplies from South America. Wheat CBOT wheat futures also edged up on the week, as U.S. seeded area is expected to decline on the year. All U.S. wheat-planted area for 2017 is estimated at 46.1 million acres, down eight per cent from 2016, USDA said.

However, heavy stockpiles of the grain, amid a bearish supply-and-demand situation, limited the market’s upside and could further pressure values moving forward. All wheat stored in all positions on March 1 totalled 1.66 billion bushels in the U.S., USDA said, up 21 per cent from the same time frame a year prior. Jade Markus 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.



Spring wheat futures soften slightly in Western Canada

A stronger Canadian dollar helped drag on cash wheat prices

BY PHIL FRANZ-WARKENTIN
CNS CANADA

Spring wheat bids in Western Canada were steady to lower during the week ended March 31, as a softer tone in U.S. futures and strength in the Canadian dollar weighed on prices in the countryside. Depending on the location, average Canada Western Red Spring (CWRS) wheat prices were steady to down \$2 per tonne across the Prairie provinces, according to price quotes from a cross-section of delivery points compiled by PDQ (Price and Data Quotes). Average prices ranged from about \$220 per tonne in western Manitoba to as high as \$240 in northern Alberta. Quoted basis levels varied from location to location, but generally held steady to range from about \$24 to \$44 per tonne

above the futures when using the grain company methodology of quoting the basis as the difference between U.S. dollar-denominated futures and Canadian dollar cash bids. When accounting for currency exchange rates by adjusting Canadian prices to U.S. dollars, CWRS bids ranged from US\$165 to US\$180 per tonne. That would put the currency-adjusted basis levels at about US\$16-\$31 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 \$21 to \$41 below the futures. Canada Prairie Spring Red (CPSR) wheat bids were down \$3-\$4 per tonne, with prices ranging from \$151 to \$166 per tonne. Average durum prices were down by \$8 to \$15 per tonne,

with bids in Saskatchewan coming in at about \$252 to \$255 per tonne. The May spring wheat contract in Minneapolis, off of which most CWRS contracts in Canada are based, was quoted March 31 at US\$5.3425 per bushel, down by 1.5 U.S. cents from the previous week. Kansas City hard red winter wheat futures, traded in Chicago, are more closely linked to CPSR in Canada. The May K.C. wheat contract was quoted March 31 at US\$4.205 per bushel, down 7.5 U.S. cents compared to the previous week. The May Chicago Board of Trade soft wheat contract settled March 31 at US\$4.265, down by about 2.25 U.S. cents on the week. The Canadian dollar settled March 31 at 75.19 U.S. cents, up by roughly half a cent relative to its U.S. counterpart compared to the previous week.



PHOTO: THINKSTOCK

U.K. royals’ sibling rivalry on GMOs?

Royal at odds with brother Charles in approval of genetically modified crops

LONDON/REUTERS

Britain’s Princess Anne may have sparked some royal sibling rivalry after saying genetically modified crops had real benefits to offer, putting her at odds with her older brother Charles who says they would be an environmental disaster.

In an interview with BBC radio, Anne said she would grow GMO crops on her farming estates, adding she doubted that the technology had many downsides. That view contrasts sharply with that of heir-to-the-throne Charles, who has long been an ardent campaigner for organic produce, once warning the widespread use of GM crops would “cause the biggest disaster environmentally of all time.”

“GM is one of those things that divides people,” Anne, whose title is the Princess Royal, told the BBC’s “Farming Today” program. “Surely if we are going to be better at producing food of the right value, then we have to accept that genetic technology... is going to be part of that.”

European Union laws strictly control the use and authorization to grow GM organisms, but last October Environment Minister George Eustice said the British government was considering “possible future arrangements” for the regulation of GM organisms after Britain leaves the bloc.

Asked if she would use GM for crops and livestock on her own farming lands in Gloucestershire, western England, should the law allow, the 66-year-old



Princess Anne says she’d plant GMO crops on her own land if she were legally allowed to.

PHOTO: CREATIVE COMMONS/CHATHAM HOUSE

daughter of Queen Elizabeth replied “Yes.”

“To say we mustn’t go there, ‘just in case,’ is probably not a practical argument,” she said. “I do think... gene technology has got real benefits to offer, which will have maybe an occasional downside, but I suspect not very many.”

Anne’s attitude towards GM crops has long differed from that of Charles, patron of the Soil Association which campaigns against the use of GM produce.

In a newspaper interview in 2008 Charles said multinational food companies were conducting a “gigantic experiment with nature and the whole of humanity which has gone seriously wrong.”

Science gets higher profile in budget, but details are lacking

Any attention paid to research is good for agriculture, says the CEO of the Agriculture Institute of Canada

BY ALEX BINKLEY
AF CONTRIBUTOR

The recent federal budget gives science and research more attention than usual — but details on new funding remain to be decided on, says Serge Buy, CEO of the Agriculture Institute of Canada.

The budget did allocate \$80 million over five years to replace the Centre for Plant Health in Sidney, B.C. with a new research facility to support agri-food safety. It will assist trade and national economic growth and Buy said the move is good news for agri-food.

At the same time, questions remain about the long-term future of other research facilities that were underfunded by the previous government, he said.

“Overall, the budget contains some very good news,” he said. While it will take time for the decisions on many announcements to be reached, “things are shaping up well.”

While a lot of funds were announced in the budget, there will still have to be plenty of discussion and consultation before the money is spent, Buy said.

“Choices will have to be made before we see who gets what,” Buy said.

The AIC will be ready to

“Overall, the budget contains some very good news.”

SERGE BUY

pitch its ideas once the budget bill is passed. Among the decisions is an independent review, announced last year, on funding for fundamental science and research. It will report sometime this year. Then the government will decide which of its proposals it will implement.

Then there’s the appointment of a Chief Science Officer announced in 2016 and still to be filled. The position will come with a \$2-million-a-year operating budget. He or she will also advise the prime minister and minister of science instead of reporting directly to Parliament as originally proposed.

Also in the works for this year is a new federal science infrastructure strategy for the government. It will review existing federal labs and related facilities and recommend what’s needed for the future. No timeline for that report was set. Also in line

for a review is the National Research Council’s funding and its innovation support activities.

The science innovation strategy will examine the existing federal science infrastructure, “including federal laboratories and testing facilities, and provide a road map for future investments. The strategy will offer a more integrated and effective approach to federal laboratories, information technology and human resources in the federal science community, and will seek to ensure that federal scientists have access to the world-class infrastructure, innovative equipment and computer networks they need to produce the best results for Canadians.”

The National Research Council will have its funding set at \$59.6 million for the current fiscal year to support its business innovation initiatives.

UN pushes ‘smart crops’ as rice alternative to tackle hunger in Asia

Millet, sorghum and beans are often-overlooked alternatives that could help restart progress on ending hunger in the region

BY BEH LIH YI
THOMSON REUTERS FOUNDATION

Asia needs to make extra efforts to defeat hunger after progress has slowed in the last five years, including promoting so-called “smart crops” as an alternative to rice, the head of the UN food agency in the region said.

Kundhavi Kadiresan, representative of the Food and Agriculture Organization (FAO) in Asia, said the region needs to focus on reaching the most marginalized people, such as the very poor or those living in mountainous areas.

The Asia-Pacific region halved the number of hungry people from 1990 to 2015 but the rate of progress slowed in many countries — such as Afghanistan, Bangladesh, India and Cambodia — in the last five years, according to a December FAO report.

“The last mile is always difficult... so extra efforts, extra resources and more targeted interventions are needed,” said Kadiresan.

Government and businesses

needed to develop policies to help make food more affordable, while changing Asians’ diets that rely heavily on rice,” she said.

“We have focused so much on rice that we haven’t really looked at some of those crops like millets, sorghum and beans.”

A campaign is underway to promote these alternatives as “smart crops” to make them more attractive, Kadiresan said.

“We are calling them smart crops to get people not to think about them as poor people’s food but smart people’s food,” she said, adding that they are not only nutritious but also more adaptable to climate change.

Soaring rice prices, slowing economic expansion and poorer growth in agricultural productivity have been blamed for the slowdown in efforts to tackle hunger.

More than 60 per cent of the world’s hungry are in Asia-Pacific, while nearly one out of three children in the region suffers from stunting. Achieving zero hunger by 2030 is one of the UN’s Sustainable Development Goals adopted by member states in 2015.

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VBP+ LAUNCHES EXPANDED WEBSITE

The Verified Beef Production Plus (VBP+) program has a new website, with information for both consumers and producers. The website, www.verifiedbeefproductionplus.ca, has information on topics such as VBP+ online training, five easy steps for getting on the program, and details on modules for animal care, biosecurity, and environmental stewardship. There is also an auction listing service for registered operations and VBP+ has also struck an agreement with AgriClear, an online sales platform. There is also information on regional workshops, events, articles, and a photo gallery for registered operations. The Beef Cattle Research Council operates VBP+. — BCRC

NEW EGG LAYERS CODE WINS PRAISE

The revised Code of Practice for the Care and Handling of Layers is a “tremendous achievement,” says the Egg Farmers of Alberta. The code is the foundation for the egg industry’s animal welfare standards, and informs enhancements to the national Animal Care Program. The new Code of Practice is the result of “a rigorous and scientifically verified four-year process (and) represents a significant step forward on the path towards building a sustainable Canadian egg industry, said the Egg Farmers. The revised code can be found in the Codes of Practice section of www.nfacc.ca. — Staff

LIVESTOCK

There’s a fine line between average and excellent

A multi-year benchmarking study of the most profitable bison producers offers insights to any livestock operation

BY JENNIFER BLAIR
AF STAFF / PONOKA

What sets a top-performing bison producer apart from a low performer? About fifty cents.

That was one of the key preliminary findings of a multi-year benchmarking study that compares performance indicators in Alberta and Saskatchewan bison herds.

“Our main objective was to develop a performance indicator that allows us to evaluate farms relative to one another,” said Mira van Burck, one of four University of Alberta students leading the project.

“You all have different herd sizes, so we wanted to bear down and make it comparable all across the board.”

Since 2012, researchers have been collecting “a huge dataset” of financial information from bison ranches across the western Prairies, said van Burck, who spoke with her group at the recent Wildrose Bison Convention. For this portion of the project, van Burck and her classmates focused on the total costs associated with finishing bulls, with data from about 25 producers.

The group divided the costs on a per-head basis and then grouped each cost into four categories to determine the percentage of costs in each category: operating costs (including feeder costs, fuel, utilities, and repairs); fixed costs (including depreciation on buildings and machinery); capital costs (including land improvements, handling facilities, and equipment); and feed costs, (including feed, salt, and minerals).

From there, they developed a performance indicator called a cost-return ratio.

“Basically, we took all the total returns from your operation and then divided them by all the total costs,” said Timothy Goodkey, who also worked on the project. “The higher the ratio is, the better the operation.”



You can make good money raising bison – if you can keep your feeder costs down. PHOTO: THINKSTOCK

The cost-return ratios ranged from \$0.97 to \$1.43, with an average of about \$1.08.

“This means every dollar that a top-performing farm spends on inputs, they get \$1.43 back as a return,” said group member Zhao Wang.

The group then analyzed how top-performing farms allocated their costs to get the most returns, and found (unsurprisingly) that operating and feed costs were both the largest expenses and the dominant factor in profitability.

“Operating and feed costs are the biggest game changers when we’re looking at our cost-return ratio,” said van Burck.

The biggest component of operating costs was feeder costs, said group member Alex Shuttleworth.

“Your top four guys are spending about 80 per cent of their total budget on their feeder costs and their operating costs, which includes trucking, insurance, and all those other things that help make your operation run day to day,” she said.

“If you look at the data for the feeder costs), the top four guys are spending about \$300 less on average than the guys at the bottom. That’s a pretty big jump.

“I know it’s really hard within the market to get the best prices you can when you’re purchasing bison. But that’s a really big factor for what’s helping these top-performing guys get to the position that they’re in.”

Next, they looked at the makeup of the total feed costs.

“If you average the four guys at the top, they’re spending about 17 per cent of their total costs on feed and feed alone, whereas the (lower-performing producers) are only spending about 10 per cent of their total budget on feed,” said Shuttleworth.

“As they progress further and further along to becoming more profitable, they’re spending a lot more on their feed than the guys who have a lower cost-return ratio.

“Seven per cent doesn’t really sound like much, but it adds up pretty quickly. And clearly for some guys, it’s paying off.”

While this piece of the project has been completed, the students will be looking at performance indicators for finishing heifers and are hoping to find more bison producers to par-

“Seven per cent doesn’t really sound like much, but it adds up pretty quickly. And clearly for some guys, it’s paying off.”

ALEX SHUTTLEWORTH

ticipate in the research, said van Burck.

“The better the input that we get, the better the output.”

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Hog producers learning how to get the most out of group housing

Animal welfare concerns about gestation stalls have driven the move to group housing, but researcher says productivity doesn't have to suffer

BY ALEXIS KIENLEN
AF STAFF/LEDOC

While the adoption of group sow housing was driven by consumers, the pork sector isn't skipping a beat when it comes to making it work.

"Through science, we have been able to show that you can achieve comparable, if not better, productivity through the group housing setting," swine behaviour and welfare scientist Yolande Seddon told attendees at the recent Livestock Care Conference.

"We know more about the animals, and we should be improving our husbandry practices."

The Code of Practice for the Care and Handling of Pigs has required new barns to use group housing since 2014, and all hog barns will have to house mated sows and gilts in groups by 2024. The biggest knock against the practice is that hogs are often aggressive towards each other. While that doesn't necessarily mean outright fighting (and increased risk of injuries), aggressive behaviour increases stress and that can lower productivity.

But you can manage much of that through feeding, said Seddon, an assistant professor at the Western College of Veterinary Medicine in Saskatoon.

"If you're going for a competitive feeding system, the animals gain feed by fighting or aggression," she said.

But there are numerous options for "non-competitive" feeding, including electronic sow-feeding systems, free-access stall systems, drop-feeding systems and drop-feeding systems into a trough (also known as trickle feeding). These systems mean animals cannot gain food by fighting because each individual is protected when feeding (although hogs will still compete for access to the feeding space).

The choice of sow grouping will have an influence on the choice of a feeding system. Static groupings are made up of groups of bred sows that stay together until farrowing. Dynamic systems allow animals to move in and out of the gestation group.

"In some systems, you would not want to have a dynamic grouping," said Seddon.

Scientists used to think static



Sows loafing on solid lying areas in a barn converted to group gestation with electronic sow feeders. PHOTO: NATIONAL SOW HOUSING CONVERSION PROJECT, PRAIRIE SWINE CENTRE

groupings were best, but now know that large group sizes can accommodate dynamic grouping. Aggression can happen every time new animals are added to the group, so it's important to have pen design to allow sows enough room and space to escape from social conflict.

"If you can move away from each other, social conflict can actually disperse," she said. "We know that sows will do subgrouping within a large group. They will develop their friendship circles."

When producers are using a competitive feeding system, grouping is very important and it's best not to remix the animals and have ones of similar size.

Seddon is involved in the National Sow Housing Conversion Project, which tracks about 20 barns across the country that have converted to group housing. Producers are sharing their experiences at <http://groupsowhousing.com>.

The majority of Canadian producers converting barns are choosing electronic sow-feeding systems.

"Producers are excited for the

ability for true individual feed control and for the automatic detection that electronic sow feeding can give," said Seddon.

Many of the new barns require

an additional separate exercise area in addition to a feeding space. Producers who have converted their barns have also changed their pen design, and

flooring, and have added enrichments such as bedding to their barns to improve animal welfare.

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"Through science, we have been able to show that you can achieve comparable, if not better, productivity through the group housing setting."

YOLANDE SEDDON

Ottawa expands number of drought-related livestock tax deferral zones

The designation allows producers to defer income when they have to reduce their herds because of a forage shortage

STAFF


More ranchers in Alberta, Ontario, Quebec, B.C. and Nova Scotia will be able to defer some of their taxable income from livestock sales in 2016 due to drought. The federal government has issued a second list of drought-designated regions where the livestock tax deferral provision will be allowed, along with the areas of Ontario, Quebec and Alberta designated in the initial list in November. In Alberta, the City of Calgary, County of Newell and Mackenzie County are now also designated. Also, the government said, its “ongoing analysis” shows a final list of designated regions will be needed for the 2016 tax year. That list is expected to be released as soon as it’s authorized. Low moisture levels resulted in “significant forage shortages” for livestock producers in all affected areas, the government said, and one option for producers to manage feed supplies is to reduce their breeding herds. The tax deferral provisions allow livestock producers in prescribed regions to defer portions of their 2016 sale proceeds of

breeding livestock, until the next tax year. Producers can request the tax deferral when filing their 2016 income tax returns. The intent of the deferral is to reduce the tax burden associated with the sale, as the cost of replacing the animals at least partially offsets the deferred income. To be eligible for the deferral, a producer’s breeding herd must have been reduced by at least 15 per cent. If the breeding herd has been reduced by at least 15 per cent, but less than 30 per cent, then 30 per cent of income from net sales may be deferred. Where the herd has been reduced by 30 per cent or more, however, 90 per cent of income from net sales can be deferred. Proceeds from deferred sales are then included as income in the next tax year. If an area qualifies for a drought or excess moisture/flood designation in consecutive years, producers may defer sales income to the first year in which the area is no longer designated. The deferrals are requested if impact on a designated area is deemed “significant,” defined as forage yields of less than 50 per cent of the area’s long-term average.



When forage yields drop by 50 per cent, an area is eligible to be listed as a drought-designated region which, in turn, allows for deferral of some taxable income. PHOTO: CANADA BEEF

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Cattle released from quarantine have a clean bill of health

‘Early’ release animals may be sold, commingled, and moved – and carry no higher risk than any other cattle

ALBERTA BEEF PRODUCERS RELEASE

As the Canadian Food inspection Agency (CFIA) investigation into bovine tuberculosis progresses, so too does the status of the cattle involved.

The majority of cattle operations identified as contact herds have completed the required testing and been released from quarantine without any restrictions.

CFIA grants a full release from quarantine once the cattle have been tested and found to be negative for bovine TB. A negative test result means these animals can be safely integrated into the normal trading activities.

An important takeaway for the beef sector is that cattle eligible for a full release from quarantine carry no higher risk than other ani-

mals in Canada, and quite possibly a lower risk given that the whole herd has been tested, and any reactor animals removed. A full release from quarantine is in effect a clean bill of health with regard to bovine TB.

The CFIA can release trace-out and trace-in herds if a herd has had reactor animals removed, and the post-mortem and preliminary laboratory testing on those reactor animals have not shown any signs of the disease. While samples from these herds will still go through lab culture testing, they are considered low risk and eligible for release after an epidemiological review.

These “early” release animals may be sold, commingled, and moved as the owner sees fit, providing the following records are kept (and these are records everyone should be keeping in normal day-to-day operations):

- CCIA tag numbers;
 - Age and gender of the animals;
 - Date any animals were removed from the premise;
 - Destination to which the animals were moved.
- While there is a low risk of a previously negative herd getting a positive result during the lab culture test, the CFIA would follow the full investigation process for any herd declared infected. This would include destruction of the herd and tracing animal movements in and out of the herd for the previous five years.
- The Canadian Cattlemen’s Association, Alberta Beef Producers, Saskatchewan’s Cattlemen’s Association, and other industry groups support the full and early release options as appropriate, risk-based release from quarantine to help individual producers resume their operations without undue risk to the industry.



Rigorous testing protocols ensure cattle released from quarantine are safe to buy and be placed in other herds. PHOTO: THINKSTOCK

Heritage chicks available now

University of Alberta’s hugely popular heritage chicken distribution program is now on — but hurry before they’re all gone.

“This year, we’re offering Plymouth barred rock, brown leghorn, random bred broiler 1978, light Sussex and Rhode Island Red chicks,” said Jesse Hunter, program co-ordinator. “We hatch a certain number of each breed every year, so check the website to order your favourite breed before they’re gone.”

Heritage chicks must be pre-ordered at www.heritagechickens.ca and then picked up at local Peavey Marts across Alberta. (You can also adopt a chicken and receive two dozen eggs every two weeks.)

For orders of up to 20 of the day-old chicks, the cost is \$8 each per bird. The price per chick drops to \$6 for orders of 21 to 100 birds and to \$4 for orders of 101 to 500 birds. As part of the program, two small-flock workshops are being held — April 12 in Spruce Grove and April 13 at Red Deer, which run from 5 to 9 p.m. To register, go to www.eventbrite.ca (search for ‘small flock’).

“The workshops are an opportunity to learn about biosecurity, housing, nutrition, disease identification, behaviour, anatomy, and more,” said Hunter.

— *U of A*



Rhode Island Red chicks hatched at U of A’s Poultry Research Centre. FILE PHOTO



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SNOWPACK EASES CALIFORNIA WATER WOES

The snowpack in California’s Sierra Nevada Mountains is double normal levels, which may lead to an easing of mandatory water conservation rules. Slowly melting over the dry months from April to October, the snowpack provides a third of the state’s water and is sometimes referred to as California’s largest reservoir. Three years ago, there was no snow at all on many mountain peaks, and many reservoirs held only a fraction of their water capacity. The state’s governor declared a drought an emergency and two years ago ordered conservation rules, including a demand that urban communities cut water consumption by 25 per cent. — Reuters

FLOODING RISK HIGH IN SOUTHWESTERN MANITOBA

Manitoba is expecting normal to above-normal spring run-off except in the Souris River basin in the province’s southwest corner, which is looking at “above-normal to well-above-normal run-off potential.” Flooding risk remains “moderate to major” across the province, said Infrastructure Minister Blaine Pedersen. The province is increasing outflow from the Shellmouth Reservoir, a flood control structure on the Assiniboine River at the Saskatchewan border, to 600 cubic feet per second. “Unfavourable” weather would create a “major” risk on watersheds in the southwestern region, the province said. — Staff

WEATHER

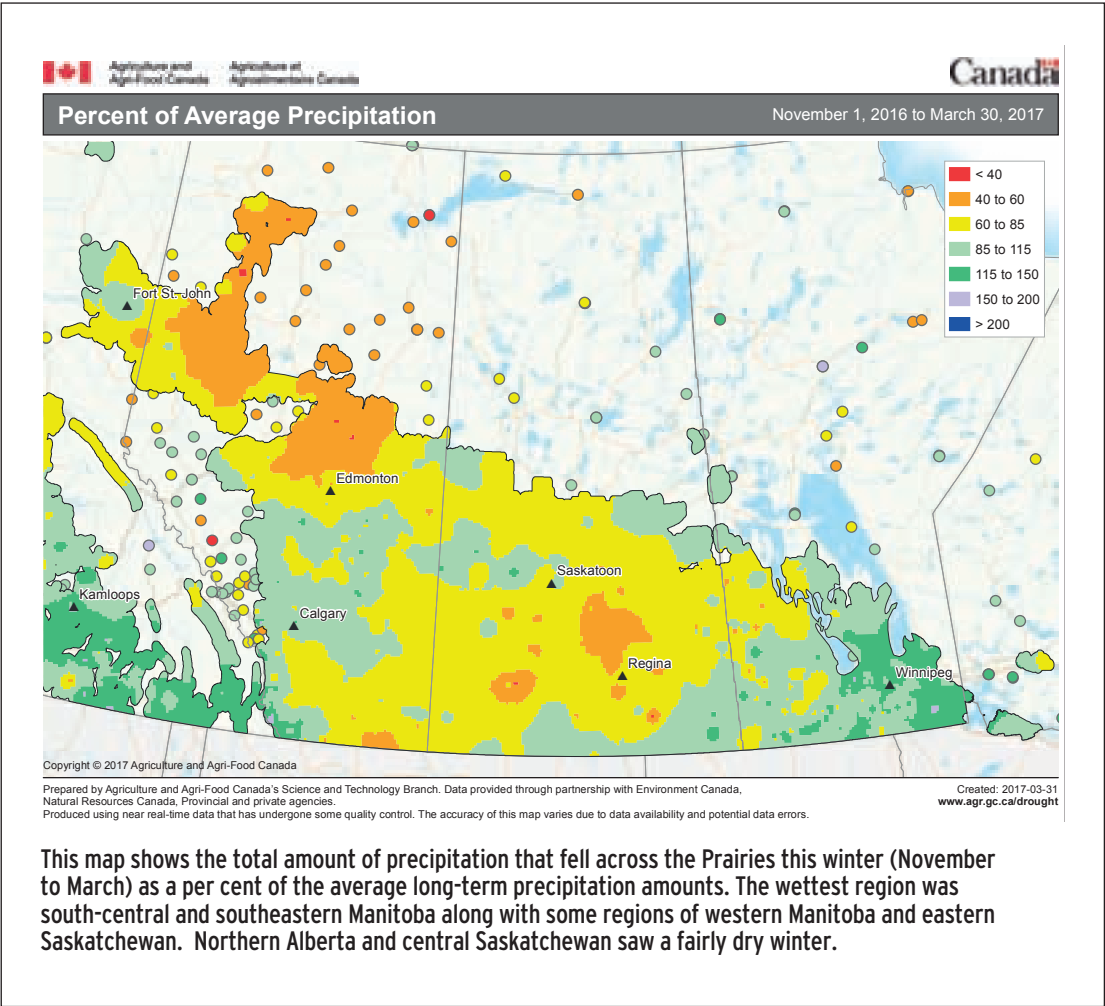


‘Average’ is an apt verdict on the winter of 2016-17 in Alberta

It was a bit cooler and drier in the north and a little warmer and wetter in the south, but overall it was a pretty typical winter

BY DANIEL BEZTE

With winter officially over, it’s time to take a final look back at March’s weather and how the extended winter panned out across all three Prairie provinces. Hopefully, this year Mother Nature will agree as to how we define winter and not surprise us with any spring snowstorms! Let’s begin by taking a quick look at how all of the weather numbers added up for March. It was an interesting final month of winter across the Prairies. March began on the cold side across all three Prairie provinces, with overnight lows dropping down into the mid-minus 20s, with even a few -30s in some locations. The weather then turned mild during the second half of the month, and while it was nice, we didn’t see any big-time heat move in. Starting our look in the west, the mild end to the month wasn’t enough to overcome the cold start, with all three regions (Calgary, Edmonton, and Peace River) reporting below-average temperatures for the month. The coldest conditions compared to average were in the Peace River region, where the mean monthly temperature was a good 2.5 C below average. In the Edmonton region, they saw mean monthly temperatures that were about 1.5 C below average. In the south, it was a little warmer, literally and compared to average, with Calgary reporting a mean monthly temperature that was about 1.0 C below average. Precipitation was light in the north, average in the south, and above average in central regions. Of course, things aren’t this simple when it comes to precipitation, so for a better look at actual amounts please check out this issue’s map. Looking at the extended winter for Alberta, the Calgary region saw near-average temperatures with slightly above-average precipitation, thanks to a wet February. The Edmonton region saw a mean



This map shows the total amount of precipitation that fell across the Prairies this winter (November to March) as a per cent of the average long-term precipitation amounts. The wettest region was south-central and southeastern Manitoba along with some regions of western Manitoba and eastern Saskatchewan. Northern Alberta and central Saskatchewan saw a fairly dry winter.

extended winter temperature that was about 1.0 C above average along with near-average precipitation. The Peace River region reported a mean winter temperature that was about 1.5 C above average, with precipitation amounts below average. Overall in Alberta this winter, temperatures were near average in the south, warming to above average as you moved northwards, and it was dry in the north with increasing moisture as you moved south. Moving into Saskatchewan, March also began cold with mild weather moving in around the middle of the month. This time the warmer end to the month was just able to counteract the cold start, with mean monthly temperatures at both Regina and Saskatoon coming in about 0.5 C above average. Precipitation was below

average over the two main centres, but was above average in the far southeast thanks to the powerful early-March blizzard. Looking at the extended winter, it was generally warm and dry across Saskatchewan with both Regina and Saskatoon reporting a mean winter temperature that was about 2.5 C above the long-term average. Precipitation was light in most regions of Saskatchewan, with both areas reporting well-below-average amounts. In Manitoba, March saw the same general trend as the rest of the Prairies with a cold start followed by a fairly mild end to the month. Over western regions of the province, a brutal blizzard that paralyzed the area for several days during the first week took its toll, and even with the warm end to the month the overall mean temperature for March was below

average. The Dauphin region was the cold spot, with a mean monthly temperature that was 2.5 C below average. The Brandon region was a little warmer, with a mean monthly temperature that was 1.0 C below average. The Winnipeg region, which missed out on the early-March storm, was able to warm up a little more and ended up coming in a little above average, with a mean monthly temperature that was 0.5 C above average. Looking at the extended winter for Manitoba, the cold end wasn’t able to overcome the overall mild weather experienced during November, January, and February. When all of the numbers were added up, both the Brandon and Dauphin regions saw mean winter temperatures that were about 2.5 C above the long-term average. Winnipeg was only a little

Starting our look in the west, the mild end to the month wasn’t enough to overcome the cold start, with all three regions (Calgary, Edmonton, and Peace River) reporting below-average temperatures for the month.

bit cooler, with a mean winter temperature that was about 2.0 C above average. Precipitation was near to above average for the winter in the Winnipeg and Brandon regions, thanks to a snowy December and the big March blizzard. The Dauphin region and areas to the north-east were a little drier than average over the winter. Taking a quick look ahead to see what the latest models are showing for April and early May, it is looking more and more like mid-April will be a pivotal point for spring weather. The medium-range weather models are pointing towards a potential shift in the weather pattern back to a cooler and wetter pattern. Confidence in this is very low at this point, but is definitely something to keep an eye on. Personally, I feel that this will only be a short week or so of cooler weather before above-average temperatures move back in. Hopefully that’s just not wishful thinking on my part. Daniel Bezte is a teacher by profession with a BA (Hon.) in geography, specializing in climatology. He operates a computerized weather station near Birds Hill Park, Man. Contact him with your questions and comments at daniel@bezte.ca.

UNFARMED AREAS COULD OFFER YIELD BOOST

Does unfarmed land next to your fields boost yields? A new University of Calgary study aims to see if fields next to grassed areas, fencelines, wetlands, tree lines, and similar adjacent areas have higher yields. Studies in the U.S., U.K., Northern Europe, and Australia have found that, like shelterbelts, unfarmed areas give a yield boost. Researcher Jess Vickruck is seeking two to three years of GPS yield data, which will be aggregated so no individual farms are identified. Alberta Canola Producers' Association is encouraging producers to "participate in this fascinating project." It will be another year before the four-year study, now in its second year, will have enough data to measure any connection. For more info, contact Vickruck at jess.vickruck1@ucalgary.ca or 403-220-3465. — Staff



CROPS

Cash is your best bet when buying machinery

If you're going to 'run the hell out of your equipment,' lease it

BY JENNIFER BLAIR
AF STAFF / FORESTBURG

When you sit down across a desk from your equipment dealer, you're out to get the best deal you can — and your dealer is out to make a profit.

So how can you keep more jingle in your own jeans?

"It doesn't matter if you pay cash, you finance it, or you lease it," said Alf Erichsen, who farms near Settler and was an early investor in Cervus Equipment, which is now the country's largest dealer group for John Deere equipment.

"You'll contribute the least if you pay cash. You'll pay a bit more if you finance it, and you'll pay the most if you lease it."

Erichsen, who is still a Cervus shareholder, also worked at John Deere selling and financing equipment — essentially "helping dealers stay solvent dealing with you guys." But every equipment company uses "basically the same practices," said Erichsen, who spoke at a Battle River Research Group workshop last month.

While Deere & Co.'s sales have declined over the past three years, it is still making a profit off of every piece of equipment you buy, he said.

"On a \$100,000 tractor, Deere's profits are \$5,700," said Erichsen. "That's low. Deere's historic profits are around \$9,000 (per \$100,000). It's a tough time to do business, but the investors are hoping that profit will go up."

While part of the profit in farm equipment sales comes from selling the equipment itself, a good chunk of it comes from financing. In the case of Deere, it's about one-third of profits, said Erichsen. So "there's a lot at stake" when farmers sit down with sales reps to discuss financing, he added.

The first thing to consider is interest costs.

"In Alberta, equipment companies have to tell you the interest rate when you finance in a simple percentage. Secondly, they must tell you the total interest that's on the bill," he said.

"If you pay in cash, your interest rate is zero. That's one of the reasons why it might be



Equipment companies are going to profit off your purchase no matter what, but you can manage how much through the way you pay, said Alf Erichsen. PHOTO: JENNIFER BLAIR

more profitable to pay in a big chunk and not finance it."

But on a lease agreement, the interest rate isn't broken down the way it is when you finance.

"They give you a percentage, but do they ever tell you what the interest is in that number? Nope. They don't have to," he said.

Next, you need to look at the capital cost allowance, which allows you to claim depreciation on the equipment.

"If you're dealing with your accountant, he only understands one kind of depreciation — capital cost allowance," said Erichsen.

"When you ask him the market value, he's going to shake his head because market value is a very nebulous thing. It depends on the usage of the tractor — did it run 200 hours a year or did it run 1,000 hours a year? How was it looked after — is it banged up and beat up? Was the oil ever changed in it? All these things will have an effect on its market value."

Generally, farm equipment companies will depreciate leased equipment more, so the payments will be lower and "that lease is going to look good." And a lease is tax deductible — "the big selling point of a lease."

"The net result is you have a tax savings, you have a slightly lower cash expenditure, but there's something wrong here with this calculation," said Erichsen.

At the end of the day, the farm equipment company owns that machine — and benefits from claiming the residual value of that piece of machinery. For example, in 2016, the total residual values on five-year leases at John Deere were \$4.4 billion. Broken down over five years, that's \$869 million per year.

"Damn near one year of Deere's profits are tied up in those residual values," said Erichsen.

"Now do you understand why Deere wants you to lease it? They make more money."

So if you're going to lease equipment, you need to think about how you'll be using that equipment.

"You lease something you're going to run the hell out of and wear out quick, and it's not going to be worth a hell of a lot at the end. You should finance those things that have high residual value."

But when you finance your equipment, what you're really buying is time, he added.

"The question then becomes how much time did you buy?"

A 20 to 30 per cent down payment "buys you no time," so at best, "you're getting four years on a five-year contract."

"You're going to make payments every year, so sometime after two years, you've paid for half of it. If you really want to get technical, you've bought about two years for the average four-year term," he said.

But you can get around that by buying the equipment outright.

"If you made no purchases for two years and gave up the two years of financing, you can probably go back and just buy it," he said.

"The only way to do that is to go back in your books and add up what you're spending on principle payments, and see what that would buy you if you just bought outright with cash."

That might not be an option for growers with cash flow problems, so ultimately, you need to decide which option works best for your own operation, he said.

"There's no simple answer. The answer is various shades of grey."

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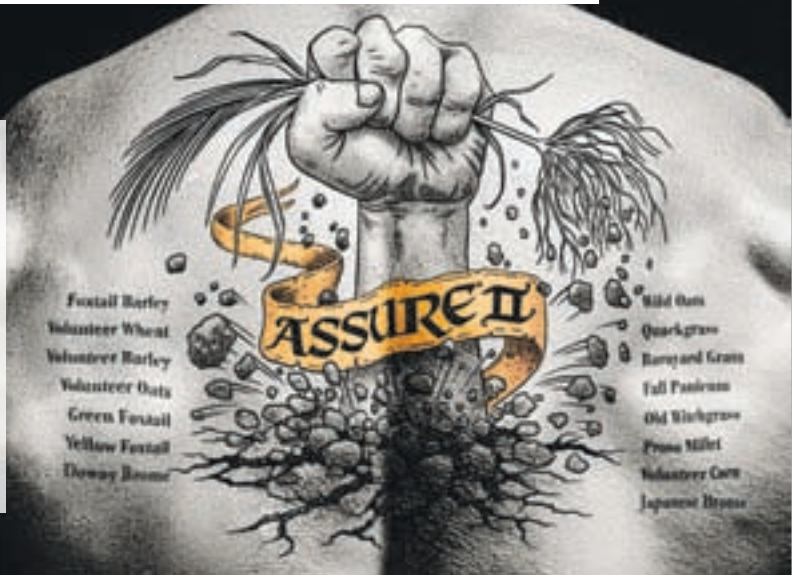
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Another hangover from last year’s dismal weather

Pea leaf weevil have been spreading north and last summer’s wet conditions will give them a boost this year

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Research shows that treating pea seed with a systemic insecticide product is the most effective control measure to prevent pea leaf weevil damage. Legume crops such as field peas and fababeans produce most of the nitrogen they need, but pea leaf weevils “greatly compromise” that process, said provincial crop specialist Neil Whatley. The pest showed up in southern Alberta in 1997 and initially stayed south of the Trans-Canada Highway. But over the last few years, it has moved into central Alberta and as far north as Sturgeon County, north of Edmonton, with lower levels of feeding reported in east-central Alberta. “There’s a high risk of infestation in the same areas if winter and spring conditions are



Wet weather last August has increased the odds of pea leaf weevil infestation this year. AAF/FILE PHOTO

favourable,” said Whatley. “A potential predictor of population increase is precipitation in August. As many areas with high weevil populations in 2016 experienced August precipitation, pea and fababean producers in these areas are advised to plan control strategies for the 2017 crop year.” After spending the winter as an adult beetle in perennial legumes, adults are attracted to annual and perennial legume crops in spring, including field

pea, fababean, lentil, alfalfa, and bean. “However, egg laying only takes place in soil near field pea or fababean seedlings, so root nodules of lentil and alfalfa, for example, are not affected,” he said. “Just prior to egg laying, adult pea leaf weevil insects feed on the margins of seedling leaves resulting in a notched or scalloped leaf appearance, which is not expected to reduce yield. After hatching from eggs, the worm-like larvae proceed downward into the soil where they primarily feed on root nodules resulting in decreased nitrogen fixation by pea and fababean plants.” Spring weather conditions can alter the timing and severity of damage. “Weevils arrive early to pea and fababean fields if warm temperatures above 20 C persist for more than a few days in late April or early May, potentially corresponding with higher yield losses.

Alternatively, if cool weather occurs during the same period, yield is generally not as compromised especially when the crop advances past the sixth node stage before the weevils arrive. “In either case, field scouting is required to make control decisions on a field-by-field basis. It’s also advised not to seed into cold soil.” Yield losses may occur when more than 30 per cent of seedlings (three out of 10 plants along a seed row) show feeding damage on the clam leaf (the most recently emerged leaf) before the sixth node stage in peas. When scouting, assess groups of 10 plants in multiple rows. “Most research hasn’t shown that control of weevils using foliar insecticide prevents yield loss,” said Whatley. “The ineffectiveness of foliar spraying probably arises because weevils have already laid enough eggs to significantly damage root nodules when sprays are applied or because healthy weevils immigrate after spraying. “According to research on the Prairies, nodule protection is more effective when pea seed is treated with a systemic insecticide product prior to seeding. Fababean may be similarly protected, but this requires investigation.”



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“As many areas with high weevil populations in 2016 experienced August precipitation, pea and fababean producers in these areas are advised to plan control strategies for the 2017 crop year.”

NEIL WHATLEY

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‘Mystery’ canola attacker stumps scientists

Researchers have been trying to solve this ‘whodunit’ for years but so far, no one has been able to crack the case

BY JENNIFER BLAIR
AF STAFF / FORESTBURG

It’s a classic ‘whodunit’ — the Case of the Confounding Canola Killer. And Alberta researchers are still scratching their heads over it 15 years later.

“Since 2002, we’ve been finding this ‘mystery syndrome,’ and I don’t have a cause for it,” said provincial oilseed specialist Murray Hartman.

“We get one nice flower that turns into a pod, another nice flower that turns into a pod, and then the rest stop. Or sometimes I’ll find the buds and they’re completely stunted, but every bud is still there.

“It is really bizarre.”

In fact, the victim typically recovers — new branches come up and the crop rebounds. But the lead investigator on the case is still stumped as to the culprit.

“There’s no physical damage. There’s no pitting or brown scar-

ring or anything, so I’m looking at these and saying, ‘This isn’t insect. There’s something else happening with these,’” said Hartman.

“We’ve ruled out herbicide trespass from neighbouring fields, but it’s something herbicide-like or some kind of toxin causing these symptoms.

“I just haven’t been able to identify it.”

One theory floated around by those in the know suggests that, come spray time, herbicides collect and mingle in the lower atmosphere. Once it rains, that chemical cocktail falls on the crop, causing these strange symptoms.

“There are herbicides in the air, but I haven’t seen anywhere it’s been documented that there’s field injury,” he said. “This is still a symptom that’s a mystery to me.”

This silent would-be assassin has stalked canola fields from the deep south to the high Peace, slinking out of the shadows once

every few years, but its M.O. is always the same — it always turns up at bolting stage to early flowering, when spraying season has just been in full swing.

“We had plots of different herbicide systems and we had check plots, and it was in all the herbicide systems and it was in the check plots,” said Hartman.

In 2008, he thought he was close to cracking the case when aster yellows phytoplasma emerged as a suspect.

“We were looking at some plots and I was finding these symptoms. I said, ‘We need to send this right now to be tested for phytoplasma.’ But it came back negative,” he said.

“It’s still a mystery, and I’ll bet you I retire before anybody tries to figure this one out.”

But since the damage is fairly limited and crops bounce back, file this one under ‘Things that make you go hmm.’

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A ‘mystery syndrome’ is stunting canola buds, and Alberta researchers still aren’t sure what’s causing it. PHOTO: KELLY TURKINGTON

Reprieve granted in India pulse fumigation dispute

The deal only keeps the critical India market open until June 30, but officials say they are hopeful of finding a compromise

STAFF

The federal government has negotiated a short reprieve in the ongoing dispute with India over its reluctance to receive pulse imports that have not been fumigated with methyl bromide.

Agriculture Minister Lawrence MacAulay announced India has agreed to extend an exemption that will not require Canada and other exporters to fumigate pulses if shipping on or before June 30. The extension was announced on March 30, the day before the current exemption was due to end.

“We will maintain ongoing trade while officials on both sides continue to work towards a long-term, science-based solution,” the government said in a statement.

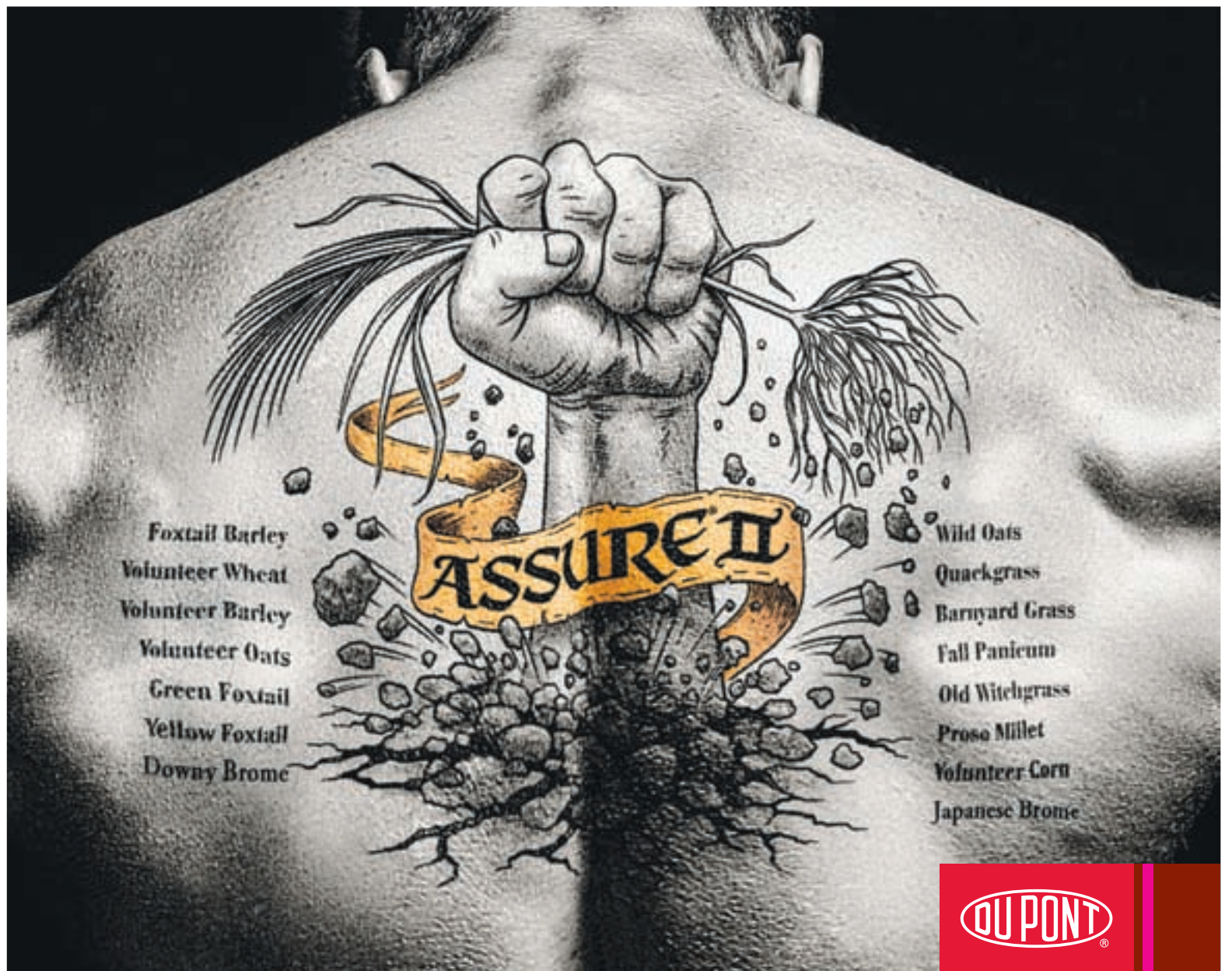
Federal officials and industry representatives have been working since last autumn to convince India to continue exempting Canada from its import regulations as it has done since 2004. Those exemptions have meant that the Canadian pulses can be fumigated upon their arrival in India, rather than before they are shipped.

India wants to avoid importing a nematode that would be a threat to its onion and garlic production. No Canadian shipments have tested positive for the pest to date.

In 2016, pulse exports to India were worth over \$1.1 billion and accounted for 27.5 per cent of Canada’s global pulse exports.

Methyl bromide is being phased out of use in Canada because it depletes the ozone layer. However, it’s not very effective in cold climates anyway. Off-loading pulses at an interim port for fumigation would be prohibitively expensive.

Industry officials say they continue working with the Indian government to find an acceptable compromise.



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Organic food industry feels shortchanged by government

One industry association says conventional food gets plenty of support on standards and inspections

BY ALEX BINKLEY
AF CONTRIBUTOR

Canada's organic sector says it's not getting its due. Canada is the fifth-largest organic market in the world as well as leading exporter of several organic commodities but gets little assistance from government, says Tia Loftsgard, executive director of Canada Organic Trade Association.

"Canada's organic sector should be positioning itself as a world leader," she told the Commons agriculture committee. "However, the sector on its own cannot achieve this stature when it is continually having to fund its own standards, inspections, and certifications, and to assume all the business risks on its own."

In their current state, proposed new food safety regulations carry many threats for the organic sector, and pointed out the lack of equitable crop insurance coverage and transition incentives for farmers, which are both offered in other jurisdictions, she said.

Just maintaining the status quo is costly, too, she added.

"Maintaining the Canadian organic standards review process is going to cost our sector over \$1 million by 2020," she said. "This is a cost that the industry has to bear in Canada, yet it is funded entirely by governments in the United States and in the EU."

Organic is a unique subsector of Canadian agriculture and trade, as it is limited to traceable organic supply chains and is subject to regulations, standards, third-party inspections, and maximum residue level inspections beyond its conventional counterpart, she said.

Organic trade faces many business risks due to our limited supply options, the unknown risks of any changes to NAFTA and additional testing required on maximum residue levels on Canadian organic products entering foreign markets, particularly because there is no tolerance within the organic sector, she said.

"These non-tariff trade barriers are holding back the growth



of our sector and the ability to capitalize on the opportunities that exist," she said. "At a minimum, the Canadian organic sector should be able to keep pace with its major trading partners and eliminate the non-tariff regulatory barriers that exist."

There is little about the organic sector in all the agricultural production and import and export trade flows government collects, she said.

"The lack of sound data limits the ability to assess market opportunity or the loss of market opportunity for Canadian producers, manufacturers, and businesses," she said.

As harmonized sales codes are used to negotiate trade agreements, maintain trade statistics, and identify goods and shipments that pose a risk to the health, safety, and security of Canada, the organic sector is very limited in its ability to track trends, evaluate trade flows, and have concrete data, she said. The last time census data was collected on the organic sector was in 2011.

Canada has organic equivalency agreements with 90 per cent of its major trading partners and is in the process of negotiating them with Mexico and South Korea, she said.

Wallace Hamm, general manager of Pro-Cert Organic, told the MPs the sector badly needs an overhaul of the eight-year-old federal organic regulatory regime to remove non-tariff trade barriers. The regime is being transferred to the Safe Food by the end of April.

Among the changes is no longer requiring Canadian organic products to be certified to U.S. standards as they only cover health food products and pet

food. Another will permit Canadian products to use the EU organic label.

The new regime needs fraudulent organic claims, he said. U.S. organic rules contain "robust penalties and fines and a five-year revocation period."

The biggest concern is the demise of the Canada Organic Office at CFIA, he said.

"Although underfunded and staffed, it was a highly effective and internationally recognized administrative body that was equivalent to the USDA national organic program office," Hamm said. "The unheralded and unrationalized demise of the Canada Organic Office and the dispersion of the COO staff throughout the CFIA, coupled with the erasing of all organic titles from correspondence and legal documents, will send — and is sending — negative shock waves throughout the domestic and international organic community."

"The net message is one of lost emphasis and interest in the organic sector by the government."

Cool, dry canola keeps best when left alone, study finds

A PAMI study gauges whether to aerate, turn, or leave it during the hottest months of the year

STAFF

For farmers who plan to keep canola in bins through the hottest months of the year, a new Prairie study suggests that to manage bin temperature, less handling is better.

Having set out to study how best to manage higher-moisture canola over the spring and summer, a team from the Prairie Agricultural Machinery Institute (PAMI) has also found that dry canola — at moisture below 10 per cent — going into a bin cool was at the least risk of spoilage when just left alone.

"Over the course of two separate studies conducted in 2014 and 2016, we found little to no risk of spoilage when canola was just left alone, provided it was cool and dry at the start of spring," PAMI research scientist Joy Agnew said in a release.

Farmers are becoming more likely to keep canola in bins during the summer months as they take on year-round delivery contracts, bin capacities rise and both canola production and market demand increase, Humboldt, Sask.-based PAMI said in a release March 13.

Stored canola is at greater risk during the spring and summer when warm outside air warms the grain nearest the bin wall, allowing it to pick up free moisture, the PAMI team said.

When that warm, moist air passes through cooler spots in the bin, the moisture can be deposited in the cooler grain, creating a high-moisture zone and posing a higher risk of spoilage.

With that in mind, the PAMI team compared three approaches to managing bin temperature and moisture: leaving it alone, with no handling; aerating the bin; and "turning" the canola, removing it and putting it back to spread out temperature distribution.

The study's first phase, in 2014, was done to find the best practice for spring and summer storage of canola with relatively high moisture content. The 2014 findings were revisited in 2016, using canola bins with an average of nine per cent moisture content.

Compared against leaving the bin alone, the PAMI team wrote, "turning the bin resulted in the lowest average bin temperature, while aerating resulted in the most uniform temperature distribution."

In both cases, though, "turning and aerating helped to equalize the temperature distribution, but resulted in potentially unstable conditions that could increase the risk of spoilage."

Both turning and aerating created spots within the bins where cold grain sat directly beside warm grain for short stretches — a problem which "may have resulted in condensation due to the temperature differential."



Aerating or turning canola that went into the bin cool and dry might wind up putting cold canola right next to warm canola, creating damp patches, a PAMI study suggests.

PHOTO: THINKSTOCK

Fortunately, the study team said, that didn't happen in either 2014 or 2016 in this study. When the grain was unloaded, there was "no indication of wet spots or spoilage."

By comparison, the team wrote, "leaving the grain alone resulted in the most stable and favourable storage conditions."

The 2016 study results helped to broaden the "leave it alone" recommen-

dation to canola with moisture content up to nine per cent, from the previous seven per cent level as monitored in the 2014 study, Agnew noted.

Past that, she said, the 2016 results "confirm our observations from our 2014 study."

Monitoring important

Either way, the team cautioned, "monitoring the temperature of canola during storage is recommended, due to the potential for spoilage" over the warmer storage period.

Monitoring, Agnew said, is important "particularly in the spring and summer when temperature differences are most likely to occur... There are many variables that can affect the temperature and moisture in the bins, and producers must monitor the grain conditions on a regular basis."

The study involved monitoring canola temperature during June, July and August in three 3,500-bushel bins at one location — near Annaheim, Sask., about 140 km east of Saskatoon — using sensors installed inside the bin.

The study team also "intermittently" monitored five other bins with temperature-sensing probes at different nearby locations, to collect data from different initial grain conditions in different sizes of bins.



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Tight chickpea supplies hit Canada coming and going

We don't have supply for new demand and lack of seed will likely limit acres

BY PHIL FRANZ-WARKENTIN
CNSC

Tight chickpea supplies will keep Canada from taking advantage of fresh demand out of Turkey, while any acreage increases will also be hampered by poor seed supply.

Due to its own domestic chickpea shortage, Turkey recently announced it was temporarily lifting import tariffs on chickpeas. Turkey has bought Canadian chickpeas in the past, but the country typically wants nine- and 10-millimetre Kabulis, which, after the poor quality

and yields of 2016, are not available from Canada.

"With the incredible market in the fall, the vast majority of all forms of chickpeas are gone; pet food, human consumption, it's just all gone," said Colin Young of Midwest Grain in Moose Jaw, Sask.

On top of terrible quality, the yields were significantly lower than average, said Young, adding "the only good-quality stuff being held back is for planting seed."

While there is little old-crop business going on anymore, new-crop chickpea prices look relatively solid compared to other pulse options, such as len-

"With the incredible market in the fall, the vast majority of all forms of chickpeas are gone; pet food, human consumption, it's just all gone."

COLIN YOUNG


tils. Young said growers would like to plant more chickpeas, but said the area would be capped by seed supply.

"The outlook for chickpeas looks very favourable, especially compared to lentils," said Young. "If there was an abundance

of seed, I believe chickpea acres would be very strong, but because the planting seed is very restricted and the quality is marginal, we won't see an expanded acreage in Canada."

A growing market for chickpeas from the pet food market has created a price floor, taking the bottom-end risk out of the market, said Young. As a result, "the biggest risk growing chickpeas is just getting them in the bin," with average yields needed to make money.

Canadian farmers planted 168,000 acres of chickpeas in 2016, producing an 82,000-tonne crop, according to Statistics Canada data.






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No point in quarantine for verticillium wilt, CFIA says

A field survey finds the wilt fungi widespread in canola-growing region

STAFF

Slapping federal quarantines on canola fields with verticillium wilt wouldn't serve much purpose, since the yield-robbing fungi is already in all of Canada's major canola-growing areas, the Canadian Food Inspection Agency says.

While the agency itself is recommending against regulation, CFIA recently posted a draft "risk management document" on verticillium wilt, seeking feedback from the public until May 15, to "help decide whether it is feasible to regulate this fungus."

Up until it was spotted in a single Manitoba canola crop in 2014, *V. longisporum* — the fungus that causes verticillium wilt — had never been reported in any crops anywhere in Canada, nor on canola crops anywhere in North America.

However, a nationwide survey of "more than 1,000" canola stubble



While not yet active in Canada's canola-growing regions, a field survey has found the fungus that causes verticillium wilt is already present in many of those areas. PHOTO: MANITOBA AGRICULTURE

fields in all canola production areas in Canada, run from August through November 2015, has con-

firmed *V. longisporum* is "widely distributed" in most canola production areas in Canada.

Specifically, CFIA said, tests from the surveyed fields last year confirmed the fungus to be present in canola-growing areas not only in Manitoba, but in Alberta, Saskatchewan, British Columbia, Ontario and Quebec.

In all, 263 surveyed canola fields tested positive for the presence of *V. longisporum* DNA, CFIA said. Positive samples from Manitoba, Saskatchewan, Alberta and Ontario were found to belong to the same genotype; the genotype for samples from canola fields in B.C. and Quebec "was not determined."

In the three other provinces surveyed — New Brunswick, Nova Scotia and Prince Edward Island — the fungus was not detected, CFIA said.

"Based on its widespread distribution, the CFIA has determined that *V. longisporum* does not meet the International Plant Protection Convention (IPPC) definition of a quarantine pest," the agency said March 15.

Thus, CFIA said it won't recommend adding *V. longisporum* to the List of Pests Regulated by Canada — a list which includes fungal diseases such as potato wart and Dutch elm disease, among other insects, mollusks, weeds and viral and fungal pests.

CFIA noted it had launched its pest risk assessment and national field survey for *V. longisporum* back when "it was unknown whether the fungus was established beyond the single confirmed site in Manitoba."

Before the field survey had been completed, the pest risk assessment had found the fungus "could potentially meet the definition of a quarantine pest in Canada," as it had the potential to cause economic harm to the canola industry, "both in terms of yield losses, as well as potential trade disruptions."

V. longisporum, CFIA noted, was "previously known to occur" in association with cauliflower and horseradish crops in the U.S., and has been present in northern Europe for "several decades," causing leaf chlorosis and premature ripening in affected winter oilseed rape crops.

The disease "has the potential to impact canola yields, with yield reductions highly correlated with disease severity."

'Best approach'

A soil-borne fungus, *V. longisporum* is "mainly spread by movement of infested soil and crop debris," and has also been reported to move with contaminated seed harvested from "heavily infested" fields.

The pathogen, CFIA said, survives through microsclerotia, a "resting" structure that can remain viable for periods of up to 10 years or more in soil or infested debris.

To "manage and reduce further spread" of *V. longisporum* in Canadian fields, CFIA said, "on-farm biosecurity measures appear to be the best approach."

Biosecurity practices, according to the Canola Council of Canada, include "equipment and tool sanitation, controlling off-farm traffic, monitoring seed/feed/fertilizer sources, and developing an on-farm biosecurity plan."

In the meantime, CFIA said, "naturally infested" canola crops will give researchers a "window of opportunity" to study the disease's "epidemiology and management, risk mitigation, development and evaluation of resistant canola varieties and crop yield."

For more information on CFIA's online public consultations, visit its website (inspection.gc.ca) and click on "Current Consultations."

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TRACTOR	
Kubota F2260 , 2002 1325 8539-1 60" front mount mower with bagger	\$11,500
NH TM125 , 2000 8395 9109-2 100 PTO HP, MFWD, Loader, Powershift Trans	\$45,000
NH 8670 , 1998 9189 10520-1 4 HYD outlets, Allied Loader, FWA, Grapple, Block Heater	\$48,000
Versatile 2145 , 2006 9380 9198-1 145 PTO HP, MFWD, No Ldr	\$64,500
NH TV6070 , 2011 3457 6925-1 LL, directional tires, high flow ready, const. yellow	\$115,000
NH TT.250 , 2013 975 8236-1 165PTO HP, no ldr, P.S. sidewinder, 4 remotes,	
Intelliview III monitor, Electronic joystick	\$133,000
NH TT.235 , 2011 4164 5602-1 CVT, 20.8R42, 4 electric remote, 860TL, grapple	\$135,000
NH TT.250 , 2013 1825 8258-1 165PTO HP, P.S. sidewinder, 4 remotes, brand new	
875 ldr/gr	\$159,000
NH TT.235 , 2013 4332 8013-1 150 PTO HP, P.S., Sidewinder, 3 remote	\$166,000
JD 7215R , 2011 4108 7840-1 178 PTO HP, Self Leveling Loader, Power Quad,	
620-42 Tires	\$191,000
Case IH 9180 , 1986 8000 9392-2 375 HP, 24.5R32 Duals, Powershift, 4 Remotes,	
CAT 3406 Engine (Steiger Lion 1000)	\$55,000
CaseIH STX450 Quad , 2002 5878 10384-2 New undercarriage, 36" tracks, 4	
Rems, Tow Cable	\$165,000
JD 9420 , 2004 4363 9313-2 425 HP, 24 Speed, 5 Elec SCVs, Duals, HID Lights,	
Diff Lock,	\$169,500
JD 9420 , 2003 4800 425 HP, 24 Speed, PTO, 710 Duals Coming In	
NH TJ530 , 2007 4298 10386-1 800 Duals, PTO, Tow Cable, 4 Rems, No GPS	\$235,000
NH T9.450HD , 2014 1020 10916-1 800 Michelin Duals, HID Lights, Dlx Cab, 6	
Remotes, 2 Hyd Pumps, Diff Lock, Electric Mirrors, Full GPS	\$290,000
Versatile 450 , 2012 1230 10132-1 450HP, 800 Duals, P.S., 6 Elec Rems, Deluxe	
Cab, Raven GPS, frt & rear weight pkg	\$299,000
NH T9.435 , 2015 161 8652-1 370 HP, New 710 duals, Lux cab, 6 REMS, HID, GPS	
ready	\$315,000
Versatile 500 , 2016 440 10385-1 800 Duals, HID Lights, Diff Lock, PTO, Weights,	
Deluxe Cab, Leather seat	\$355,000
NH T9.480HD , 2015 1258 10915-1 800 Duals, HID Lights, Dlx Cab, 6 Remotes with	
paddles, 2 Hyd Pumps, 1000 PTO, Diff Lock, Full GPS	\$365,000
COMBINE	
CaseIH 2188 , 1995 3405/2784 6390-4 Bigtop topper, singles	\$39,500
MF 8780XP , 2000 6007-4 Small grain, Singles, P/U	\$66,000
JD 9650 , 2000 2062/1510 ? 914 P.U., Singles, MAV chopper,	\$125,000
JD 9770STS , 2011 1693/1306 615P, GPS Ready, Duals, Crarry Ext, Michel's Elec	
Cover, HID Lights	\$219,000
JD T670 , 2009 1246/946 615P, Long Auger, GPS Ready, Chaff Spreader, Big	
Rubber	\$235,000
NH CR960 , 2003 1975/1405 3342-2 14' SWM P.U. Singles, 2 speed rotors, Std	
Chop, moisture sensor	\$92,000
NH CR960 , 2005 1998/1437 5853-2 14' SM P.U. Singles, Dlx Cab, Dlx Chopper,	
Remote sieve Adj, Elec Mirrors, Yield Monitor	\$99,900
NH CR960 , 2003 2305/1686 5386-2 14' SM P.U., Singles, dlx chopper, moisture	
sensor, Reconditioned	\$115,000
NH CR970 , 2004 2301/1688 14' SM P.U., Singles, Dlx Cab, Dlx Chopper, Long	
Auger, Yield Monitor, Air Compressor, Beacons, Elec Mirrors	\$125,000
NH CR9070 , 2010 1471/1132 8935-2 16' SM P.U. Duals, Dlx Cab, Dlx Chopper	\$199,000
NH CR9070 , 2011 1320/1064 9636-2 790CP, Singles, Std Chopper, Long Auger,	
Diff Lock, LCTS, Full GPS, Pwr Mirrors	\$220,000
NH CR9080 , 2009 1341/950 4419-1 790CP, Singles, long auger, dlx chopper, diff	
lock	\$226,000
NH CR9070 , 2011 1049/877 6675-1 790CP, Singles, Dlx Chopper, HID, Diff Lock,	
GPS Ready, LCTS	\$245,000
NH CR9070 , 2011 950/732 6506-2 16' SM P.U., Dlx chopper, Singles, long auger,	
diff lock, intellisteer ready, Y&M, SCTS	\$249,000
NH CR9070 , 2011 1229/878 6756-1 14' SM P.U., Duals, Dlx Cab, Dlx Chopper, Full	
GPS	\$250,000
NH CR9070 , 2011 1062/848 7617-3 790CP, singles, diff lock, HID, long auger, Dlx	
Chopper, Elec Mirrors, Air Comp,	\$256,000
NH CR9080 , 2011 748/537 790CP, Duals, Dlx Chopper, HID, LCTS, Full GPS, Long	
Auger, Leather Seat	\$299,900
NH CR8090 , 2013 1003/719 6690-1 790CP, 900 Singles, DSP, diff lock, dlx	
chopper, HID Lights	\$305,000
NH CR9090Z , 2013 1130/840 10999-2 790CP, Duals, Opti Spread, IntelliCruise,	
Full GPS	\$359,000
NH CR9090 , 2013 1050/780 10876-1 790CP, 900 Singles, DSP, Deluxe Chopper,	
Long Auger, 90mm Lift Cyl, Leather Seat, Pwr Mirrors, Elec Fold Covers, Full GPS	\$359,000
NH CR8090 , 2014 649/575 C06006 CONSIGNMENT, S3 Rotors, 620R42 Duals,	
750 Rear Tires, Leather Seat, ASP, Long Auger, GPS, Field Ready	\$375,000
NH CR8090 , 2014 770/580 10804-1 790CP, Singles, Twin Pitch Rotor, Dlx Chopper,	
HID Lights, Diff Lock, DSP, Long Auger, Full GPS, HID Lights	\$379,000
NH CR8090 , 2014 974/680 9858-1 790CP, Duals, Dlx Chopper, HID Lights, Diff	
Lock, Full GPS, Long Auger, Leather Seat, Twin Pitch Rotor, DSP, IntelliCruise, Triple	
Checked	\$389,000
NH CR8090 , 2014 893/611 9704-1 790CP, Duals, Dlx Chopper, HID Lights, Diff	
Lock, Full GPS, Long Auger, Leather Seat, Twin Pitch Rotor, DSP, Triple Checked	\$400,000
NH CR8.90 , 2016 790CP, Duals, Twin Pitch Rotors, DSP, GPS Ready, LED Lights,	
Diff Lock, Deluxe Chopper, Leather Seat	\$469,000
NH CR9.90 , 2015 721/575 (Pre-sell) 790CP, Duals, Dlx Chopper, Folding Auger, HID	
Lights, In-Cab Folding Covers, 90 MM Cylinders, Leather Seat, 3 Cameras, Full GPS,	
S3 Rotors, Field Pea Concaves, DSP	\$505,000
NH CX860 , 2002 3147/2362 6671-2 14' P/U, Singles, Chaff Blower	\$78,000
NH CX840 , 2003 2630/1920 5924-3 14' Rake Up, Singles, Dlx Chopper, Chaff	
Blower	\$110,000
NH CX840 , 2003 2188/1671 8756-2 14' Rake Up, Singles, Dlx Chopper, Chaff	
Blower, Remote Sieve Adj.	\$115,000
NH CX840 , 2004 1890/1522 6506-3 14'SM P.U., Singles, Dlx Chopper, Y & M,	
Chaff Blower, Beacons, Remote sieve adj., Reconditioned, Reman Engine	\$120,000
NH CX8080 , 2010 1395/1039 6404-4 14' SM P.U., Singles, Dlx Chopper, long	
auger, SCTS, diff lock, Reconditioned	\$225,000
NH CX8080 , 2010 981/764 8224-1 76C-14 SM, Singles, Dlx Chopper, LCTS	\$235,000
NH CX8080 , 2012 998/766 8246-1 790CP, Singles, Dlx Chopper, Electric folding	

covers, Full GPS, Diff lock, LCTS, long auger, Reconditioned	\$265,000
NH CX8080 , 2013 758/582 790CP, 900 Singles, HID Lights, Chaff Blowers, Diff	
Lock, remote deflectors	\$315,000
NH CX8080 , 2013 741/590 790CP, 900 Singles, HID Lights, Chaff Blowers, Diff	
Lock, remote deflectors	\$315,000
NH CX8080 , 2015 660/511 10913-1 No P.U., Duals, Cast Drum, HID Lights, CR	
Style Chaff Spreader, Full GPS	\$369,000
NH CX8080 , 2015 654/508 10912-1 No P.U., Duals, Cast Drum, HID Lights, CR	
Style Chaff Spreader, Full GPS	\$369,000
NH CX8.80 , 2016 365/295 10914-1 620 Duals, Diff Lock, Deluxe Chopper, Chaff	
Spreaders, Long Auger, Full GPS, Trailer Hitch, Manual Ext, Engine Air Comp, Variable	
Speed Trans	\$419,000
COMBINE HEADER	
Michel's ProTech , 2013 6350-1 Electric Hopper Cover	\$3,300
CaseIH 1010 , 1997 6390-5 22.5', auger, no transport	\$9,500
NH 971-25 , 1994 8534-5 25', Auger Header, Bergen Transport, HCC Pick Up Reel	\$9,900
HONEYBEE SP30 , 1995 7218-2 30' TR/TX adapter, plastic teeth, transport	\$12,500
NH 76C , 2009 9000 76C-14', swathmaster p.u.	\$17,500
NH SP36 , 2003 6121-2 36', cat adaptor	\$19,000
NH 72C , 2005 30' Rigid Auger Header, Hyd F & A, Trailtech Transport	\$22,000
NH 94C , 2003 30' SK, Transport, UCA, CR/CX Adapter	
HONEYBEE ST30 , 2004 7617-4 30', JD Adapter, Transport	\$24,500
HONEYBEE ST30 , 1997 9531-1 30', CNH Adapter, Transport, steel teeth	\$25,000
NH 72C , 2011 30' Rigid Auger Header, Hyd F & A, Bergen Transport	\$28,000
NH 94C , 2004 6648-3 36', SK, Pick Up Reel, CNH Adapter	\$29,000
HB SP36 , 1999 6417-1 36', Cross Auger, Headsight	\$29,000
MACDON 973 , 2004 6176-4 CaseIH only adapter	\$33,000
NH 74C , 2009 6648-2 35', Flex Auger Header, Skid Shoes, Pick Up Reel, Transport	\$37,500
JD 635F , 2009 35', Flex Auger Header, Pick Up reel, Transport	\$37,500
NH 994 , 2003 9577-2 30', Upper cross auger, CR/CX adapter, HHC, Auto header	
height, gauge rollers, transport	
JD 930D , 2007 30', SK, Transport, Poly Cutterbar, Hyd F & A	\$38,000
HB SP36 , 2008 10018-2 36', DK, Ull, Transport, Hyd F & A, UCA, CASEIH Adapter	
(8000 Series)	\$39,500
NH 94C , 2008 10998-1 36', CR/CX Adapter, DK, F & A, Hyd Tilt, UCA, AHHC, Ull Reel	\$42,500
NH 740CF , 2012 10919-2 35', HLA Transport	\$43,000
HB 94C , 2012 10542-1 30', Ull reel, header tilt, DK	\$47,500
NH 740CF , 2014 10917-2 35', HLA Transport	\$49,900
NH 740CF , 2014 10918-2 35', HLA Transport	\$49,900
MACDON D60S , 2010 30', SK, Transport, 70Series JD Adapter, UCA, Split Reel,	
Hyd F & A	\$52,000
MACDON D60S , 2011 30', SK, Transport, 70Series JD Adapter, UCA, Split Reel,	
Hyd F & A	\$55,000
JD 635D , 2010 35' DK, UCA, Transport	\$55,000
HB SP30 , 2014 30', DK, Ull, transport, header tilt, headsight, cross auger	\$58,500
HB SP30 , 2014 30', DK, Ull, transport, header tilt, headsight, cross auger	\$58,500
NH 760CG , 2013 10917-1 35', HLA Transport	\$59,000
NH 760CG , 2013 10919-1 35', HLA Transport	\$59,000
NH 760CG , 2013 10918-1 35', HLA Transport	\$59,000
HB SP30 , 2013 9207-1 30', SK, HCC Reel, CNH Adapter, AHHC, UCA, Hyd Tilt,	
Transport	\$62,500
HB SP30 , 2013 9208-1 30', SK, HCC Reel, CNH Adapter, AHHC, UCA, Hyd Tilt,	
Transport	\$62,500
MACDON D6035 , 2010 10818-1 35' SK, Transport, UCA, CNH Adapter	\$63,000
JD 630D , 2013 30', DK, Hydra Float, Hyd Tilt, Hyd F & A, UCA	\$65,000
HB SP30 , 2013 10362-1 30' DK, Hyd Tilt, Transport, AHHC, CNH Adapter, Brand	
New HCC P.U. Reel	\$67,500
HB SP30 , 2013 10360-1 30' DK, Hyd Tilt, Transport, AHHC, CNH Adapter, Brand	

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New HCC P.U. Reel	\$67,500
HONEYBEE SP36 , 2013 9539-1 36', DK, HCC Split Reel, CNH Adapter, AHHC,	
UCA, Hyd Tilt, Transport, Hyd F&A	\$67,500
MACDON D6035 , 2011 10290 35', DK, Transport, UCA, 6 Bat Reel, Double Draper	
Drive, CNH Adapter	\$69,000
NH 880CF , 2013 40', Center Knife Drive, Flex Header, Hyd Transport, Hyd F & A, In	
Cab Float and Cutterbar Suspension, 6 Bat Reel	\$74,500
NH 880CF , 2013 40', Center Knife Drive, Flex Header, Hyd Transport, Hyd F & A, In	
Cab Float and Cutterbar Suspension, 6 Bat Reel, Auto Header Height Completion Pkg	\$74,500
MACDON FD7040 , 2012 9644-3 40' DK, Transport, UCA	\$75,000
JD 630D , 2014 30', SK, Hydra Float, Transport, Hyd Tilt, Hyd F & A, UCA	\$77,500
Macdon FD75-40 , 2014 40', DK, Transport, UCA, Rock Retarder Kit, Outer & Inner	
Skid Shoes, Brace Kit for Center Reel Arm	\$87,500
MACDON FD75-35 , 2015 1800 Acres C07904 CONSIGNMENT, SK, Split Reel, UCA,	
Transport	\$87,000
MACDON FD75-40 , 2013 9535-1 40' DK, Transport, UCA	\$90,000
MACDON FD75-30 , 2016 800 30', SK, Transport, UCA, seal kit, CNH Adapter, only	
used 800 Acres	\$103,500
MACDON FD75-30 , 2016 800 30', SK, Transport, UCA, seal kit, CNH Adapter, only	
used 800 Acres	\$103,500
SWATHER	
IH 4000 , 1980 9286-1 19.5' Draper, Gas Engine, One Owner	\$7,500
HB WS30 , 2006 4708-2 30', DK, HCC reel, transporto, came off of JD 4895	\$16,000
MF 220 , 1997 3806 6992-3 22.5", Ull Reel, Guage Wheels,	\$18,500
CaseIH 8825 , 1997 3169 7901-2 21 ft. Draper Header	\$19,000
JD 4895 , 2002 3660 7902-2 30ft. HB transport	\$41,000
MF 9220 , 2006 6384-2 25', SK	\$49,500
MACDON 4952i , 2005 1934 7194-2 30', DK, UCA, Hyd F & A, Triple Del, Turbo,	
Large Tires	\$64,000
MACDON 9352i , 2005 1677/1333 7193-1 30', split reel	\$65,000
MF 9435 , 2009 1267 6120-1 30', SK, Ull Reel	\$69,000
MF 9435 , 2011 1441 8016-2 30', SK, Ull Pick Up Reel, Elec F & A, Guage Wheels,	
480/85R26 Frt Tires	\$71,500
MACDON M150 , 2011 925/711 9349-1 Traction Unit Only	\$72,500
NH H8040 , 2008 2675 7824-1 25', SK, Hyd F & A, P.U. Reel, Dlx cab, electric	
mirrors, Prairie Special, 21Lx28 tires	\$75,000
MF 9430 , 2010 1285 7924-1 25', p/u reel, elec F&A, guage wheels, SK	\$79,000
MF 9435 , 2011 977 7072-1 30', 5200 Header, SK, Elec Fore & Aft, Triple Del	\$89,000
MF WR9740 , 2012 Presell 30', Center Delivery, SK, 620/75R26 Tires, ACC, Full	
GPS, Hours Available after Spring	\$97,000
CaseIH WD1203 , 2012 367 9337-1 30', DK, Hyd F & A, Transport	\$109,000
MF WR9740 , 2013 325/176 8209-1 36', SK, Susp Cab & Axle, 21mph speed	\$109,000
MACDON M150 , 2011 1074/776 35', SK, Transport, Hyd F & A, Hyd Ctr Link, 600	
Tires	\$110,000
MACDON M155 , 2013 703/555 9285-1 35', SK, Transport, Hyd F & A, HID Lights,	
600 tires	\$139,000
MACDON M205 , 2011 649/493 7921-1 35', DK, Transport, UCA, 6 Bat Reel	\$149,000
Case IH WD1903 , 2014 263 10031-1 30', DK, Electric mirrors, deluxe cab, full GPS	\$135,000
MACDON M205 , 2015 ? 35', DK, Transport, UCA, 5 Bat Reel, Trimble GPS	\$169,000
SEEDING EQUIPMENT	
JD 787 , 1997 9643-2 170 Bushel 2 Comp tank	\$7,000
FC 5000 , 1998 6601-1 57", 12", 3.5" stealth, 4" pneumatic, TBH, DS, AS IS	\$19,500
FC/JD 5000/787 , 1992 2810-1 45", DS, 9", steel packers, TBH 230 Bush, 4 run,	
AS IS	\$25,000
Seedhawk 4012/357 , 1999 9695-2 40' x 12", Single Knife, DS, 357" On board	
tank, NH3 Kit also	\$49,000
NH P1060 , 2009 10665-1 430 BU, VR, TBH	\$54,500
NH SD440A , 2007 4209-1 46"x12", 550lbs., 5.5" Rubber, single shoot, TBH	\$84,000
NH SD550/P1060 , 2007/2009 9416-1 60"x12", 5.5" Rub, DS, 3.5" Dutch, VR,	
TBH, Liquid hoses	\$99,900
Case IH 400/3430 , 2009 10833-2 45" Drill, paired row, Stealth opener, 5" rubber	
packer, 12" spacing, VR, 430 bu. tank	\$109,500

Higher prices could give flax acres a chance

Acres were down about a third last year, making for a tight supply situation

BY JADE MARKUS
CNSC

Strong demand for Canadian flax, combined with small production, has driven prices up, which could tempt producers making seeding choices this spring. Last year, the amount of flax seeded in Canada was down about a third from the previous growing season. As a result, stocks are short, despite large carry-over. But demand is on par with bigger crop years, said Don Kerr, president of the Flax Council of Canada. Earlier this year, Europe changed its maximum residue limit for the herbicide haloxyfop, curbing demand for Russian and Kazakhstani seed, creating a gap that Canada’s crops are able to fill. Exports to China are expected to stay the same as last year, Kerr said, estimating that level at around 350,000 tonnes. “Even though we’re seeing increases with some of that Kazakh-



Europe is expected to buy more Canadian flaxseed and that’s pushing prices higher. FILE PHOTO

stani seed leaking into China,” Kerr said. But he expects demand from the U.S. to be lower, as the country increased production last year. That demand has put delivered

elevator flax prices between \$11.75 to \$12.28, which is up \$1.23 to \$1.44 per bushel on the year, data from Prairie Ag Hotwire says. New-crop prices are in the \$12.50-a-bushel range in Western Canada.

“I think there could be a rebound in acres in Manitoba this year, simply because prices have improved.”

DON KERR
FLAX COUNCIL OF CANADA



Profitability is always one key factor farmers consider when deciding what crops to grow, which means flax may see increased acres this year. “I think there could be a rebound in acres in Manitoba this year, simply because prices have improved,” Kerr said, adding that flax in the province will likely be competing with soybeans. However, growth in Manitoba is

expected to be limited, especially compared with Saskatchewan. A large majority of flax acres are grown in Saskatchewan, and last year’s sharp declines were partially due to large pulse production. India is expected to implement an edict that would require Canadian pulses to be fumigated at the port of origin, hurting demand from the country. “So we may see a bit of an increase in flax acres in Saskatchewan this year,” Kerr said. “And we might see a slight reduction in pulses because we saw such a huge increase last year.” But Kerr added that flax production will likely not hit the pace seen two years ago. “I think it’s going to be tough to get back to that level,” he said. Agriculture and Agri-Food Canada’s most recent grain and oilseed supply and disposition report pegs this year’s estimated seeded flax acreage at 1.05 million acres, compared with last year’s 930,000.

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Saskatchewan ends purple gas program

“Purple gas” is about to become a quaint old figure of speech for Saskatchewan farmers following the end of provincial fuel tax exemption on bulk gasoline for farm use. The provincial government rolled out a budget last month designed to dial back the province’s reliance on resource revenue in the face of slumping markets for oil and potash, while substantially boosting provincial revenue from consumption taxes. For farmers, one of the biggest changes in the budget is the elimination of the tax exemption for bulk purchases of gasoline as of April 1, along with a cut in the related exemption for bulk diesel, down to 80 per cent of the purchase. That measure alone, the province said, “impacts farmers and other primary producers and increases fuel tax revenue by \$40.2 million.” The cuts to farm fuel exemptions, the province said, “reflect the changing nature of farming and primary production operations and on-road and personal use of this fuel.” In a move affecting all residents, provincial sales tax has risen to six per cent, from five, and various exemptions — such as for construction and renovation services, and children’s clothing. — Staff

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\$253,000

2011 New Holland SP365 Sprayer,
1600 gal, 120', Comes with 3 yr,
3000hr power train warranty



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MacDon M200,
c/w R80 disc header and D60 30'
header, 2 to Choose from



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2013 New Holland CR8090,
Auto Steer, Twin Rotor,
Chopper and More!

USED EQUIPMENT

USED COMBINES

2007 NH CR9070, 1516 rotor hrs	\$165,000
2015 NH CR8.90, 150 thr hrs, stone trap, guidance MacDon pick-up	\$485,000
2013 NH CR8090, 966 thrs hrs	Coming In
2014 NH CR8090, 741 thrs hrs	Coming In
2014 NH CR8090, 733 thrs hrs	Coming In

USED HEADERS

2010 NH 36' 94C, draper header	SOLD \$54,000 Reduced to \$39,000
2011 NH 94C, 36' DK	\$49,000 Reduced to \$39,000

USED TRACTORS

2012 New Holland T8.330 MFWD, 915 hrs, pwr shift, 3pth, MINT.	\$225,000
2006 New Holland TZ18, compact tractor, 54" mower, 50" tiller.	\$10,000
1994 NH 8870, 180 hp Row crop super steer 5900hrs.	\$70,000
2012 Boomer 50 Compact Tractor.	\$28,000
NH TC 18, compact hydro, 4WD, 60 belly mount deck	\$7,200
1997 NH 3930, MFD, c/w loader, no cab, 45 hp	Coming In

USED SWATHERS

2011 MacDon M150, c/w 30, D60	\$125,000
MacDon 2940, C/W 30' header	\$48,000
2012 MacDon M105, c/w 30' D65	\$125,000
MacDon M200, c/w R80 disc header and D60 30' header	\$128,000
2015 M155, 150 hrs, 25' Dbl D65	\$150,000
(2) 2014 MacDon M155, c/w D65 30ft header, 450 hrs	Coming In
2005 New Holland HW325, c/w 30' header.	SOLD Coming In
2005 New Holland HW325, windrower c/w 30' draper header	Coming In \$38,500
2015 New Holland HS16, hay header	Coming In
2003 MacDon 9352, 30' DBL, 2800 hrs.	\$42,800 Reduced to \$38,000

USED SPRAYERS

2011 NH SP365F, 1600 gal, 120', Auto Steer, c/w 3 Year Power Train Warranty Limited Time Offer.	\$282,500 Reduced to \$253,000
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USED FORAGE & HAYING

2000 Hesston 4910, 4X4 square baler 30,000 bales.	\$35,000
2011 NH BR7090, 9700 bales	\$21,000
CIH DCX131, 13' pull type disk mower conditioner.	\$16,900
CIH RBX562, round baler.	\$23,500

MISC

2014 C238 Tracked Skid Steer Loader,	Call
Kongsilde grain vac,	Call
Supreme 900T, pull type.	\$42,000

SEEDING/TILLAGE

2015 NH ST830, 62' cultivator as new 9" spacing	\$110,000
Flexi Coil 3450, var rate air cart TBH	\$38,000
2000 New Holland P2070, precision drill 60'	\$49,500
Salford 5129, 29' High speed Disc completely rebuilt	\$99,900
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Peso, a small standard donkey on Burro Alley Ranch, near Priddis, snoozes in the warm spring sun. With no flies out yet, conditions are perfect for bug-free napping.

PHOTO: WENDY DUDLEY

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The farming life is an appealing one to young people

A new study aims to look at how new farmers overcome challenges when pursuing their dream

BY SHANNON VANRAES
STAFF

New research aims to debunk the idea that young people want to leave the family farm and move to the city.

The study looks at barriers young farmers face in several countries, including Canada, India, China and Indonesia. It was sparked by the notion that "youth who have lived in rural areas and who come from rural areas are actually completely intent on moving out and moving into cities," said Annette Desmarais of the University of Manitoba, who is one of nine researchers involved in the study.

"But what we have found, however, in the research that we've all been doing already, is that individually that wasn't the case," she said.

Many youth who leave the farm do so because they feel the barriers to farming are too high, she said.

"Young people actually do want to farm and many of them are farming and many new people are getting into farming as well," she said.

The research will also examine what enables young people to successfully enter the field, especially if they don't come from a farming background.

"How is it that people who have never farmed have made their way into farming?" she said. "And for those who come from farming families, how is it that they were able to stay?"

Desmarais will speak with 50 participants in Manitoba, and a pair of Ontario researchers will be interviewing new and aspiring farmers in that province.

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Prince Rupert expansion to handle crop containers

Ray-Mont Logistics plans to load pulses and grains into containers for export

STAFF


A Montreal logistics firm specializing in loading pulses and grains into containers for export out of Vancouver and Montreal plans to set up shop at Prince Rupert. Ray-Mont Logistics is developing a logistics and container-loading facility at the south end of the West Coast port's Ridley Island site, to export crops in ocean contain-


ers through Prince Rupert's Fairview Container Terminal, the port authority says. The Fairview terminal is already in the midst of an expansion, due to be completed in August, meant to boost its annual volumes to 1.3 million 20-foot equivalent units (TEUs) from 850,000 currently, the port authority said in a release. The Ray-Mont operation is expected to handle lentils, peas, beans, soybeans, flax,


wheat and other crops, railed in via hopper car from Western and Central Canada and the U.S. Midwest. Ray-Mont's 10-acre facility, when complete, is expected to employ about 40 people and will include a rail loop corridor with capacity for over 100 rail cars and a grain dumper pit. Shippers in Alberta, Saskatchewan, Manitoba and "farther inland" are expected to send crops via rail to the Ray-Mont site, where they

would be unloaded and transferred to containers using a conveyor unloading system. The new facility is expected to be up and running this fall for the 2017-18 crop year, the port authority said. Ray-Mont, which already operates a Montreal terminal with a 32-car rail siding, said on its website it also has "expansion plans in the works" at its Vancouver port terminal, which today includes a 40-car rail siding.

The new facility is expected to be up and running this fall for the 2017-18 crop year








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C-52-01/17-10707122-E

Plants can tell friend from foe by assessing its RNA

It’s no tall tale — this plant senses the lack of a tail on hostile RNA and attacks

STAFF

University of Tokyo researchers are telling what might seem a tall tale — or should that be tail? They’ve published a study in the journal *Nature Plants* which says plants can tell if they’re being attacked by detecting whether or not the RNA in question has a threaded bead-like structure at the end. This ‘tail’ tells them if the RNA is from the plant itself or elsewhere. This tells the plant whether it’s time to activate its ‘immune system’ to attack a foreign invader. Researcher Yukihide Tomari used biochemistry techniques in the laboratory to replicate the biological process in the test tube and identified and described the molecules involved. “Classical biochemistry techniques are one of our lab’s strengths,” Tomari said. Tomari and PhD student Kyungmin Baeg produced a key enzyme in initiating the defence mechanism, from the plant. They then observed how it behaves when mixed with foreign RNA containing a ‘tail’ of varying length.



This flowering plant, *Arabidopsis thaliana* or Thale cress, defends against invaders by recognizing and attacking foreign RNAs that it distinguishes by its lack of tail. PHOTO: CREATIVE COMMONS/ALBERTO SALGUERO

The research group found that if the RNAs contained a ‘tail’ at their ends, the immune system did not consider the RNA an invader, while RNAs lacking the tail were perceived as foreign, triggering a defence response. “It turned out that the enzyme itself can discriminate the presence of the ‘tail’ and this single-

enzyme system is much simpler and more elegant than we initially thought,” Baeg said. Their finding provides an answer to the quarter-century-old question of why RNAs belonging to the plant escape its self-defence mechanism, paving the way for future biotechnological techniques to modify crops.

Yorkton oat plant moves on major expansion

U.S. processing firm Grain Millers Inc. is pressing ahead on the second phase of a previously announced expansion at its Yorkton, Sask. oat-processing plant. The company recently announced the start of the second phase of the \$100-million expansion, which will boost annual output by 80,000 tonnes of oat products. The plant, which today includes storage capacity for over 13,000 tonnes of oats, has

undergone multiple expansions since Grain Millers bought what was then known as Popowich Milling in 2001. The latest expansion, when completed, is expected to create about 25 jobs at the plant, which produces conventional, organic and gluten-free oat products such as rolled oats, instant oatmeal and oat bran. Grain Millers said it expects the new milling capacity to come online late next year. — Staff

G3 to build two more Saskatchewan elevators

The grain company formerly known as CWB has picked sites and plans to start construction next month on two new grain elevators in Saskatchewan. G3 Canada says it will build primary elevators near Melville and Saskatoon and have them ready for the 2018 harvest. The new elevators, which will have 34,000 tonnes and 42,000 tonnes of storage capacity respectively, will both be built on CN lines with 134-car loop tracks and high-capacity drags under their drive sheds, “enabling trucks to unload quickly.” “Growing our origination footprint in Saskatchewan is the next step in G3’s plans to build a highly competitive coast-to-coast grain-handling network,”

“Growing our origination footprint in Saskatchewan is the next step in G3’s plans.”

KARL GERRAND

G3 CEO Karl Gerrand said in a company’s release. G3, a joint venture between Bunge and Saudi Arabian ag investment firm SALIC, has owned the former Canadian Wheat Board and its grain-handling assets since 2015. — Staff

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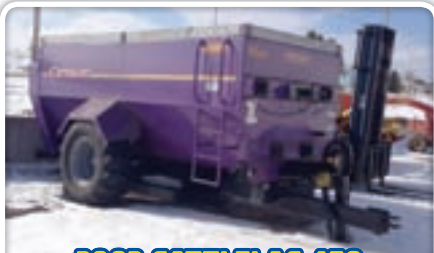
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Tax credits should also be applied to carbon

Diverse management systems are the key to putting more carbon back into the soil, and possibly more money into farmers’ wallets

BY ALEXIS STOCKFORD
STAFF / BRANDON, MAN.

If you tax carbon use, then you should reward storage, says a farmer who practises holistic management.

“I believe that if we, as a society, are going to value carbon and tax carbon as a bad behaviour... then we need to reward those who solve the problem and take the carbon from up here and put it back into the soil,” said Blain Hjertaas.

He said soils on his Saskatchewan farm sequester a total of 22.88 tonnes of carbon per hectare per year — which means each hectare offsets the 20.6 tonnes that Canada emits on a per capita basis. Pointing to Alberta’s carbon tax, which will increase to \$30 per tonne in 2018, Hjertaas argued that the 22.88 tonnes sequestered in his soil should be worth a credit of \$686.40.

His argument struck a cord with attendees at a recent grazing workshop here, many of whom are concerned about a carbon tax.

Dave Bettschen, whose southern Saskatchewan farm has transitioned from grain to forage more than the last 20 years, said he was “very doubtful” before the meeting but now intends to implement intensive grazing and rotation into his operation.

“I found this to be very interesting today, very informative,” he said. “It’s really changed my opinion on a lot of things. I came here thinking the carbon tax was a waste of time. And, actually, I still think the carbon tax is a waste of time, but I see now that there are some farmers out there doing some things that really can make a difference to sequester carbon.”

Manitoba grain producer David Rourke described carbon sequestration and regenerative agriculture as a “grassroots solution that deserves a lot of merit.”

“I keep getting amazed by how fast things are changing and what the potential for agriculture to have a positive influence on global climate is,” he said.

Rourke, also the founder of agriculture research company AgQuest, said the current policy on carbon sequestration is based on hay, a mechanism he argues is not an efficient vehicle for carbon storage.

“Hay is a nutrient-export business,” he said. “It doesn’t return anything back. The cutting doesn’t stimulate the growth the same way that grazing does.”

‘Four ecosystem processes’

Regenerative agriculture, a series of management practices meant to not only sequester carbon but also rebuild soil health, was the main topic of Hjertaas’s address.

He said “four ecosystem processes” are key: maximizing solar energy capture by maximizing time plants are actively photosynthesizing, maximizing water infiltration, maintaining soil ecosystems and regaining environmental diversity.

“Most of our annual cropping systems only capture energy for about 70 days of the year,” Hjertaas said, adding that he believes capturing up to 220 days’ worth of solar energy should be possible on the Prairies.

“If we really want to be successful in agriculture, we need to capture energy from the time the snow melts to the time the snow comes.”

The argument ties into the themes at previous grazing club workshops, which



have stressed maintaining green growth or cover crops to build organic matter as well as increase water infiltration and reduce compaction.

“The way a lot of the surface of the land is farmed today, the water cycle is ineffective,” Hjertaas said. “That’s why we have such massive flooding when we have a three- or a four-inch rain. The agricultural practices have taken a lot of the organic matter out of the soil so the water cannot infiltrate the soil anymore.”

Lack of organic matter, plus removal of the “litter layer” consisting of old growth from previous seasons, also contributes to excess run-off rather than soil infiltration, he said.

Hjertaas criticized contemporary agricultural practices, which he accuses of being overly focused on chemistry rather than biology.

“The only way that we will ever produce nutrient-dense food is we need to have fungi, bacteria, soil particles and plant roots working in symbiotic relationship, and the chemical system prevents that.”

He also argued for systems with more crop diversity (either through intercropping or more complex rotations including perennials) and a return to mixed farming.

He cited a hypothetical example of a field seeded to forage and grazed in spring, followed by a second seeding of a diverse seed mix meant to address deficiencies in the soil, followed by a second grazing. The hypothetical field was then moved back to regular monoculture corn the following year.

Using a real-world example, Hjertaas showed profit margins of a North Dakota cornfield managed under regenerative agriculture in 2012, compared to the county average. The field saw 34 bushels per acre more yield despite having inputs costs that were \$180 lower than average.



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2012 MF 9740,	\$98,000
2003 Premier 2952, 2098 Hrs	\$48,000

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2011 NH T7.235,	\$145,000
2012 NH T7.170	\$109,000
2011 NH T7.170 - LDR, 2005 hrs ..	\$119,000
2011 NH T7.270 AutoCommand - LDR, 2360 hrs	\$178,000
2012 NH T7.170	\$118,000
2009 NH TV6070 - LDR, Eng Hrs: 4660	\$95,000
2002 NH T7.235, 1819 hrs	\$198,000
2012 NH T7.235, 2341 hrs	\$168,000
2006 NH TN60SA, 990 hrs	\$29,800
2012 Case IH, U105, 3622 hrs	\$59,000
2011 Case IH 210, 1290 Hrs,	\$148,000
2011 Versatile 305, 1800 hrs	\$149,500

TRACTOR 4WD

2009 CIH STX535Q, 3103 hrs	\$278,000
2002 NH TJ450, 9000 hrs	\$138,000
2012 NH T9.615, 2711 hrs	\$268,000
2014 NH T9.615, 2364 hrs	\$315,000
2012 NH T9.505	\$339,000
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ANNUAL ELM PRUNING BAN NOW IN PLACE

The ban on pruning elms is now in place until Sept. 30. All pruned wood and firewood from elms should now have been disposed of, either by burning, burying or chipping. Stored elm wood can harbour the elm bark beetles that can carry DED. "If elm trees are pruned during the pruning ban period, these beetles, which are active at this time, can be attracted to the scent of the fresh wound and possibly infect an otherwise healthy elm with DED. Once an elm tree is infected with DED it will die within that year," said Janet Feddes-Calpas, executive director of the Society to Prevent Dutch Elm Disease. — AAF

CONFERENCE FOCUSES ON COMMUNITY LEADERSHIP

The Alberta Human Ecology and Home Economics Association's annual conference takes place on April 28-29 at the Stewart Creek Golf & Country Club in Canmore. The theme of this year's conference is Catalyzing Change Through Collective Leadership. The event kicks off with a workshop on social innovation, including new approaches to working together, new methods of financing, and new social technologies. Other conference topics include working together to improve services and supports for seniors and families, as well as lessons learned from the Truth and Reconciliation Commission. For more info, go to www.ahea.ab.ca. — AHEA

MORE NEWS

Shining a light on the creepy crawly side of agriculture

Entomologist John Gavloski is warning producers to maintain beneficial bugs found in crops

BY ALEXIS STOCKFORD
STAFF/DAUPHIN, MAN.

Not all bugs are made equal and producers should avoid "collateral damage" to beneficial insects whenever possible. "Certainly we've got insects that feed on the crops, but we've also got a lot of beneficial insects that feed on those insects that feed on the crops," entomologist John Gavloski said at a recent CanoLAB workshop here. "And when those are numerous, often the crop feeders are at low enough levels that we can kind of let the good guys, the beneficial insects, do the pest control for us." Attendees were pitched on the benefits of parasitic wasps and flies (which attack bertha army worm and diamondback moth larvae), ground beetles (which eat a wide range of pest species as well as weed seeds), ladybugs, hover flies, stiletto flies, and other predatory insects. The key takeaway? Run the numbers before spraying and don't apply product unless losses are nearing an economic threshold. Gavloski also argued for buffer zones around or near fields with natural growth, a practice he advocates for maintaining both beneficial predator and parasitic insects and pollinators. "The more diverse flowering vegetation there is in an area, the better it is for these, not just pollinators, but parasitoids," he said. "Parasitoids are a group of mainly flies and wasps that lay their eggs in other insects, but as adults often need nectar as a food source. A lot of parasitic wasps attack things like bertha army worms, diamondback moth, grasshoppers, a lot of our major pest species." Nectar is needed to keep populations of these good bugs at high levels, he noted. "Canola flowers for a very short period of time. It provides them with a very short, big burst of nectar, but before and after that, you still need nectar sources for these parasitoids. If you don't, they will not live as long. They will not lay as many eggs. They will not parasitize as many insects." There are no set population levels to determine when pesticide is not required, he said, although producers may look for parasitized pest species when determining management strategies.



Producers get a closer look at both beneficial and nuisance insects during entomologist John Gavloski's talk. PHOTO: ALEXIS STOCKFORD

Attendees were advised to look for blowhole-like wounds on bertha army worms, an indication that the parasitoid tachinid fly has already laid eggs. Hatched larvae create the breathing hole in the back of the worm prior to emerging. Parasitized aphids may also be identified by their bronzed colour on plants. "If you're well above threshold, you probably want to spray, but if you're kind of borderline, toying with whether you should or not, sometimes that's good information that can help out," Gavloski said. He pointed to previous research from Canada, the U.S. and Australia that found an average 10 to 15 per cent yield increase in canola with the addition of pollinators such as bees. He cautioned, however, that actual yield increase may depend on the number of natural pollinators already present prior to insects being introduced.

Beneficials aren't as effective when it comes to the flea beetle, one of canola's top insect pests. "Flea beetles are very quick insects, so the effect of predators and parasitoids unfortunately probably isn't as great on flea beetles as it is for some of the other pests," Gavloski said. Damsel bugs, lacewing larvae, and big-eyed bugs are among those known to prey on flea beetles, but the pest makes up only a small part of their diet. "Unfortunately, the populations aren't dropped the same way that we see it happen with something like bertha army worm," he said. "Because of that, we're often caught in situations where you want a seed treatment on the plant to protect the canola on a pretty regular basis and, unfortunately, we do have a number of years where people, in addition, are doing full-year sprays for them. Even if you do

"Certainly we've got insects that feed on the crops, but we've also got a lot of beneficial insects that feed on those insects that feed on the crops and when those are numerous, often the crop feeders are at low enough levels that we can kind of let the good guys, the beneficial insects, do the pest control for us."

JOHN GAVLOSKI

have a seed treatment, you still have to be scouting your canola." However, some species of flea beetles may be beneficial. Both the brown-legged spurge beetle and black dot spurge beetle have been introduced as a control

for leafy spurge in various areas in the U.S. and Canada. Six spurge-controlling insects have been established since the 1980s, four of which are flea beetles. astockford@farmmedia.com

Agri-food receives plenty of attention in the federal budget

The sector has been identified as a major economic growth opportunity – a move that's winning praise all around

BY ALEX BINKLEY
AF CONTRIBUTOR

The moment Ron Bonnett read in the federal budget the government wants to boost agri-food exports to \$75 billion by 2025, he knew his sector was finally about to receive some serious attention in Ottawa.

"It told me the door was open to talking to government departments about the factors holding back our sector's growth," said the president of the Canadian Federation of Agriculture, citing issues such as labour shortages, government regulation and more support for innovation.

"The finance minister identified agri-food as a key to boosting the economy."

One area that needs plenty of attention to hit the \$75-billion target is value-added food processing.

"By 2050, global demand for food is expected to rise significantly," Finance Minister Bill Morneau said in his budget speech. "We will help farm-

ers, producers and processors build their businesses globally, and do so sustainably. In recent years, industry growth has been strong, with farm revenues, annual exports and farm incomes all reaching record highs."

Canadian agri-food exports reached \$55.5 billion in 2015, but "there is still room for further growth — growth that can be achieved through innovation and the development of value-added products," he said.

Grain Growers of Canada noted the budget mentioned agri-food 29 times and agriculture 14. Ordinarily the sector only gets mentioned in passing on budget day.

"The recognition and highlighting of the agriculture sector as a strategic asset is a welcome change," said Fiona Cook, the organization's executive director.

The budget touched on five key areas of interest for crop producers, she said. An additional \$70 million over six years in science research on adapting to climate change and protect-

ing soil and water resources is a positive move, she said. The sector will also be able to tap into clean growth funding. The government is also planning consultations on carbon pricing; putting an additional \$149.3 million into the Canadian Food Inspection Agency; and to address transportation bottlenecks will help boost food exports.

Food processors are also enthusiastic about the budget's provisions. The Food & Consumer Products of Canada cited a plan to spend \$950 million over five years to develop business-led innovation superclusters in industries such as agri-food.

Soy Canada executive director Jim Everson said the budget made "positive steps towards unleashing the growth potential of the Canadian agriculture sector." Western Canadian Wheat Growers president Lee Wood said, "it was great to see some priority spending focusing on critical infrastructure, such as the announced National Trade Corridors Fund."



Finance Minister Bill Morneau delivers the federal budget in the House of Commons last month. PHOTO: REUTERS/CHRIS WATTIE

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Don't let that pretty quarter section turn your head

Spring is a busy time for farmland sales, but make sure you don't wind up with buyer's regret

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Spring is a prime time for buying land, but don't rush into a purchase, says a provincial farm financial specialist.

"With farmland prices continuing to appreciate, a well-researched financial and ownership plan will guard against ill-prepared land purchases," said Rick Dehod. "So do your homework before making a final decision."

Dehod recommends farmers take a look at three documents created by his department before pulling the trigger on a land purchase.

The first is *16 Questions to Consider before Buying Farmland*. Among the questions that should be asked are:

- Why do you want to buy farmland?
- What is the farm business's financial condition?
- Have you created a pro forma cash flow?
- Given your revenue forecast, are you overpaying?

A Legal Guide to Plan Farm Land Ownership and Sale in Alberta looks at legal issues such as what is included and excluded in a land purchase, forms of ownership and the rights of a landowner. It also examines other considerations (such as restrictions on property use; purchase and sale contracts; methods

of selling; tax considerations for the buyer and the seller) and explains the sale process (including determining a price and terms; listing with a real estate agent; and the requirements of a valid sale contract).

A Guide to Agricultural Security Agreements in Alberta explains the nature of mortgages, registration, priorities and terms.

The three documents can be found on the Farm Manager home page. Go to www.agriculture.alberta.ca and search for 'farm manager.' (The *16 Questions* document can be found in the Financial Management section. The other two documents can be found in the Business Arrangements and Taxation section.)



In spring, a farmer's fancy turns to thoughts of getting more land – but don't rush in to a purchase agreement, says a provincial farm financial specialist. PHOTO: THINKSTOCK

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HEARTLAND

Community news
and events from
across the province

Do it right and your small town could be 'cool'

BY DIANNE FINSTAD
AF CONTRIBUTOR

Imagine your rural town with bustling streets, thriving businesses, and growing numbers in the local school.

Sound a little far fetched? Especially as you look around and see no signs of any such vision?

But peer closely into the future — there's a good chance your rural town could one day have a whole lot of "cool" going on if it's open to new ideas, says Becky McCray.

McCray is a business owner who calls herself a 'serial entrepreneur,' and she knows small towns, because her's is Hopeton, Oklahoma, population 30. She and husband Joe run the liquor store in nearby Alva, as well as a cattle ranch, and she's also been a town administrator, teacher, and antiques dealer.

These days she's on the road plenty, talking about big ideas for small towns and trends they can seize on.

"In every town that I have talked to, there is more business going on than people realize," she said at a presentation at FarmTech earlier this year.

Forget the headlines outlining the struggles rural settlements face, she told her audience. Small towns have a future and always will have because they play a key role in three areas: food, resources, and conservation.

Food happens in rural areas, along with natural resources such as energy, timber and mining, and they're also the "wild places" for recreation and nature. Plus, they "grow good people," she said. Although the future might not be rosy for every town, those that are open to new ideas, share common values, and invite newcomers into leadership and decision-making will thrive in the future, she said.

However, small towns too often get stuck in the past or fail to think long term, which McCray said should be the next 10 to 30 years.

But those wanting to revitalize



Becky McCray, who operates a business in the small town of Alva, Oklahoma, sees a great future for forward-thinking rural communities. PHOTO: COLTON FOOTE

"Those trends that we see changing in society lead people to realize their values really align with rural values."

BECKY MCCRAY

their town should also look at what's happening right now. McCray pointed to cellphones, the growing availability of high-speed Internet in rural areas, e-commerce (particularly low-cost global shipping networks), and the ability of people to work remotely.

All of these contribute to the "declining cost of distance" — a trend she predicted will remake society over the next 30 years.

In fact, it's already well along — hence her comment that there is more business taking place in or

near small towns than people realize.

"There are people making their living off their laptop that nobody knew they were there," she said.

There's even a name for it now — 'rural sourcing.'

Gone are the "city limits" that used to force rural residents to move to the big city, said McCray, citing a person she knows who runs a tech company from a basement in rural Kansas and has employees located around the world.

She also discussed a very interesting projection for retail trends that's been dubbed 'the big split,' which predicts the surge in online shopping will intensify and yet also create a buying-local renaissance. Research has found that consumers want to connect with a real person when buying goods that matter a lot to them. Big-box stores are already responding to this trend, opening outlets with smaller footprints and creating a "pretend downtown" atmosphere or a "small-town feel" to enhance the shopping experience.

This opens a door to new retail opportunities — essentially revers-

ing a decades' old trend. These days, people are going to small towns to get a shopping experience that's not available in the city, said McCray. It's something already showing up in tourism, she said — people want to find places off the beaten path and, when they do, they eagerly recommend them to friends and family.

"Travel motivations are interesting because what makes people travel is also the same thing that can make people relocate," she said. "If they think it's a nice place to visit, they'll think it's a nice place to live."

"There's been a real uprise in visiting to small towns. People want an authentic, local 'mom and pop' experience. That's a small town. We definitely have that."

McCray sees exciting things happening as more people seek the lifestyle offered by small towns.

"It's no longer just about 'bigger is better' and 'money is everything,'" she said. "Sometimes an experience is worth a lot more to us than any 'thing' that we can purchase."

"Those trends that we see changing in society lead people to realize their values really align with rural values."

what's up

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

April 10-12: Canadian Global Crops Symposium, Hyatt Regency, Calgary. Contact: Canada Grains Council 204-925-2130

April 11: Troubleshooting Shelf Life Workshop, Airdrie Provincial Building, Airdrie. Contact: Eileen Kotowich 780-853-8223

April 11: Working Well Workshop, location t.b.a., Barrhead/Westlock county (also May 8 in Summer Villages of Sylvan Lake, and May 25 in MD of Crowsnest Pass). Contact: Sarah Mielke 780-307-0586

April 12: 2017 Small Flock Workshops (poultry), Peavey Mart, Spruce Grove (also April 13 in Red Deer). Contact: Jesse Hunter 780-667-0601

April 12: Food Labelling for Local Markets, Agriculture Centre, Airdrie (also April 13 in Leduc). Contact: Delores Serafin 780-427-4611

April 12: Marketing Essentials: Introduction to Marketing, Agriculture Centre, Airdrie. Contact: Cindy Cuthbert 780-538-5287

April 19: Marketing Essentials: Telling Your Story, Agriculture Centre, Airdrie. Contact: Cindy Cuthbert 780-538-5287

April 28-29: Alberta Human Ecology and Home Economics Association conference, Stewart Creek Golf & Country Club, Canmore. Contact: AHEA office 780-914-6638

May 2-5: HTST/VAT Pasteurizer Operator Licensing Course, Food Processing Development Centre, Leduc. Contact: Ag-Info Centre 1-800-387-6030

May 23-24: Soil School featuring Nicole Masters, Claresholm Community Centre, Claresholm. Contact: Rachel McLean 403-995-9466

Rural revitalization 101: Some tips to get you started

BY DIANNE FINSTAD
AF CONTRIBUTOR

How do you make sure your small town is leading the band and not missing the parade altogether?

If you love your small town, it's time to gather a crowd and start ensuring its future is golden, says small-town advocate Becky McCray.

The Oklahoma resident has a number of tips for revitalizing small towns.

- Attract 'crazy people' as in the 'lighthearted, willing to have fun' type of crazy.
- Invite local officials, service clubs, and sports organizations to have coffee and share their

calendar of events. Hold networking events and business fairs.

- Always let people know what kinds of activities are going on in their local community.
- Have public conversations on the community and its prospects.
- Take small steps.
- Give awards, such as entrepreneur of the year, or even young entrepreneur of the year.
- Post flyers about shopping local.
- Think pop-ups or a store inside a store.
- Do something different such as an annual antique tractor parade (which helped one Minnesota town raise its profile).
- Reach out (like the Iowa community that invited urban bloggers to experience small-town life).

Monsanto Fund offering \$1,500 scholarships for ag or food studies

Applications for Monsanto Fund scholarships are now being accepted from Grade 12 students who are pursuing post-secondary education in agriculture or food studies.

There are 65 scholarships, worth \$1,500 each, available (with up to 25 per cent available to students from non-farm backgrounds). Students can now choose to pursue a post-secondary education in agriculture or food-related programs, including fields of study such as nutrition or the culinary arts. Up to 25 of a total of 65 scholarships will be offered to students from non-farm backgrounds.

Applicants must submit an essay outlining their role in the future of sustainable agriculture and food production. They must also have a farmer or food professional provide a reference letter. For more info and an application form, go to www.monsanto.ca (use the Our Commitments pull-down menu and click on Opportunity Scholarship).

All applications must be post-marked not later than June 15, and winners will be announced in September. More than \$1.8 million in scholarships have been awarded since the program was launched in 1991. — *Monsanto Fund release*

Mane Event heads east and south

After expanding to Red Deer 11 years ago, B.C.-based Mane Event is adding shows in Ontario and Arizona

BY DIANNE FINSTAD
AF CONTRIBUTOR

As organizers of the Mane Event return to Red Deer for the 11th time, the show is jumping to new heights this year.

The equine educational expo, which began in Chilliwack, B.C., is now a four-stop tour after expanding both east and south this year — adding shows in London, Ont, and and Scottsdale, Ariz. “It was actually only going to be one more show this year,” said show founder Gail Barker. “The day we were signing the documents on the Arizona show, we got a call from the people in London, and they wanted us to take over their venue and run what had been the All Equine show. We’d wanted to go to Ontario for a long time.”

There are a number of elements to a Mane Event Expo that contribute to its ongoing success. The Trainer’s Challenge is always popular. In this event, three different trainers take a young unbroken horse (just familiar with a halter) to being ridden by saddle, throughout the course of the weekend in narrated sessions. There’s also a wide range of clinicians offering their perspectives on working with horses, a variety of speakers, and a trade show with everything related to horses and the horse world.

“We want to stay true to the model that we follow in Red Deer and Chilliwack, so we’re only allowing equine-based vendors in the trade shows,” said Barker. “We want to stay true to our roots, and that’s been very successful for us.”

Another unique aspect of the event is that clinicians cover all horse disciplines, bringing together equine enthusiasts of all types.

“We’ve got barrel racing, the reining, the horsemanship, as well as the driving, the jumping, and the dressage,” said Barker. “Why mess with a successful formula?”

The Arizona show will be held in the WestWorld of Scottsdale facility, home of the famed Barrett Jackson car auction extravaganza and a horse mecca during the winter (with close to 200 equine



The Trainer’s Challenge is one of the most fascinating – and popular – features of the Mane Event. Contestants have just a weekend to train a young unbroken horse. PHOTO: THE MANE EVENT

events). But while showing their horses there, Barker and husband Ron noted all the events were competitions, and the learning aspect was missing on the calendar. They were thrilled when the May dates opened up at the venue.

“It’s a huge trade show to fill, but we’re really happy with the way it’s going so far.”

The early tickets sales have been encouraging, with purchasers not only from the western states, but also places as far away as Florida, Chicago and Tennessee. The show’s emphasis on education over entertainment and using local riders for the clinics separates it from other large equine expositions, said Barker.

The Mane Event remains very much a family enterprise, with with the couple’s two daughters — who were the original motivation for the show concept — now involved. Nicole is working full time for the business, with Tamara working part time, as she finishes

school. Adding the Red Deer event 11 years has been key to the company’s success, said Barker.

Red Deer is now billed as the largest equine expo in Canada. This year’s event, which runs April 21-23 at Westerner Park, will include a feature introduced last year, the Youth Pro-Am. Young people apply and are selected to bring in their own horse, and they’re teamed with a clinician. Both take the youth’s horse through a timed obstacle/trail course, and everyone had so much fun, more clinicians have volunteered to take part this year. Youth support

remains an emphasis, with the third annual youth essay contest, awarding the winner a yearling filly from the Rocking Heart Ranch of Waterton.

The lineup of horse know-how and experience in the more than 100 hours of clinics and demonstrations is extensive.

“I think we have a couple of what I would maybe call ‘sleepers’ up here in Canada this year in Red Deer,” said Barker. “One would be Van Hargis, and the other would be Kalley Krickeberg. It’s nice to see an up-and-comer like Kalley, because she’s a woman and there

“We want to stay true to our roots, and that’s been very successful for us.”

GAIL BARKER

aren’t that many well-established women trainers. And Van Hargis has been in the horse industry for years, but maybe more in the background, and I’m glad to see him stepping forward.”

This year’s Trainer’s Challenge features Glenn Stewart of B.C., Martin Black of Idaho, and Shamus Haws, who operates a large cattle and horse ranch in Utah.

The Equine Experience night is back and the trade show is full, which is encouraging in an economic squeeze.

“We’ve actually got some different vendors we’ve never seen before. I think it made us feel pretty good to see the equine economy is still pretty strong. Advance tickets are still going good. We’re not noticing a difference.”

She laughs when asked if she and her husband ever dreamed their idea for a learning expo would become so big.

“We had no clue that this was ever going to grow beyond maybe a dozen booths and 100 people. We thought we’d be doing good with that,” she said. “I think we just appeal to a lot of people who just want to learn more.”

Program details for all four Mane Events can be found at www.maneeventexpo.com.

Animal care advocates honoured

Dr. Merle Olson was presented with the Award of Distinction for Innovation at the recent Livestock Care Conference.

The veterinarian and longtime farm animal care advocate was honoured for “his tireless efforts in the research, development, and commercialization of much-needed pharmaceutical options that are effective, economical, safe and practical, for pain management

and parasite control in livestock,” the Alberta Farm Animal Care said in a release.

The Award of Distinction for Communication was given to Alberta Beef Quality Starts Here, the non-profit that delivers the Verified Beef Production Plus in the province. Jackie Wepruk, general manager of Lacombe-based National Farm Animal Care Council, received the Award of Distinction for Industry Leadership. — AFAC

Two \$1,000 student scholarships available

Applications are now open for Canada’s Outstanding Young Farmers’ Memorial Scholarships.

Two \$1,000 scholarships will be awarded to Canadian agriculture students.

One scholarship will go to an individual entering post-secondary education from high school, and one to an individual who has

already completed at least one year of post-secondary study. Applicants must be pursuing a diploma or degree in agriculture. The scholarships were established 20 years ago by the late Martin Streef, a national OYF winner and an Ontario fresh fruit producer. Applications, which can be found at www.oymcanada.com, must be received by June 30. — OYF

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WANTED: 1920 to 1940 old Ford car bodies and parts. Also wanted old gas pumps and signs. 306-651-1449, Saskatoon, SK.

1958 EDSEL PACER 4 door car with 36,000 miles. Don Biette Land and Farm Equipment Auction, Monday April 17, 2017. Bienfait, SK. area. For sale bill and photos visit: www.mackauctioncompany.com or join our Facebook page. Phone 306-421-2928 or 306-487-7815, Mack Auction Co. PL 311962.

WANTED: 1920's, 30's or 40's coupe or roadster projects; 1958 Pontiac Parisienne or Chevy Impala projects. 306-824-4711.

ANTIQUE MISC.

WANTED: ALBERTA LICENSE PLATE: 1912, 1913, 1914, 1915 and 1916. Call 403-885-4278, Lacombe, AB.

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

AUCTION SALES

UNRESERVED FARM AUCTION, Bryan & Liz Erikssen, Wed. April 26, 2017, 10:00AM, Sedgewick, AB. Partial listing includes: 2004 NH TJ425 4WD tractor, 1984 Steiger CM325 Panther 4WD tractor, 1983 Steiger ST-310 Panther 4WD tractor, Flexi-Coil 5000 58' air drill w/Flexi-Coil 2320 air tank; Two 1993 JD 9600 SP combines; 1980 White 9700 SP combine; Two 1989 Versatile 4750 SP swathers w/25' PU reels; 1985 Western Star highway tractor; 1974 IH Transtar 4200 t/a grain truck w/17' steel box; 1992 Bobcat 753 skid steer, JD 335 double fold 32' tandem HD offset disc, Flexi-Coil System 92 60' harrow packer bar; Friggstad 60' d/t cultivator; IH 42' cultivator; 1983 Esler 34' grain trailer, Degelman 14' & 16' front dozer blades. Plus much more. Contact owners: 780-385-1289, or Dunkle Auctions, 1-877-874-2437. Full listing and pics at: www.dunkleauctions.com PL# 209769.

UNRESERVED INDUSTRIAL/SHOP Equipment & Tools Auction, Lerry & Janet Davis, Saturday, April 29, 2017, 10:00AM, Castor, AB. Partial listing includes: 2002 JD Custom 770CH Series II grader w/rebuilt motor, Cat 816 compactor/packer; Hyster 800L lb. forklift; 1986 Bobcat 643 skid steer; Ditch Witch model #R65D trencher w/backhoe, 1991 IH 4900 truck w/ 7900 lb. picker crane, 2000 GMC 1 ton service truck w/4500 lb. picker crane; 2002 Ford 1 ton dually dump truck; 1985 Chrysler LeBaron convertible car; 1978 Buick Riviera car w/new paint job; 1984 Oldsmobile Tornado car; 1991 Blue bird bus; 1965 JD 4020 tractor w/FEL & grapple; Degelman 12' front dozer blade; 16' t/a steamer trailer; Building moving beams w/wheels; Quads; 40' seacans; Versatile 555 4WD tractor (needs motor work); Huge list of shop equipment, tools & inventory. For info. contact owners at: 403-740-6727 or Dunkle Auctions at: 1-877-874-2437. Full listing & pictures at: www.dunkleauctions.com PL# 209769.

BE IN THE NEXT ISSUE

Classified deadline: Thursday at Noon

AUCTION SALES



MACK AUCTION CO. presents a Land and Farm Equipment Auction for Don Biette 306-461-4006, Monday April 17, 2017 at 10:00AM. Directions 5.5 miles North from Bienfait, SK. For live internet bidding go to: www.Bidspotter.com 2 quarter sections of farm land in the RM of Benson #35, SE 01-04-07-W2 and SW 01-04-07-W2. Case IH 9270 4WD tractor, 855 Versatile 4WD tractor, JD 8440 4WD tractor, 40' Bourgault 5710 Series II air drill triple shoot with Bourgault 5350 TBH air tank, 41' JD 1600 cultivator with Degelman harrows, Morris 35' cultivator, 2-14' IH 6200 disc drills, 48' CP643 Morris deep tillage cultivator, 33' IH deep tillage cultivator, 33' CP743 Morris deep tillage cultivator, 21' Ezee-On offset disc, 2002 Monaco Signature Series diesel pusher, 1958 Edsel Pacer 4 door car with 36,000 miles, 2004 Mack Vision tandem 13 speed grain truck with CIM Ultracell box, Ford F-600 grain truck with steel box and grain tray, High-line 6000 bale processor, Jiffy 900 bale processor, NH 352 mix mill, shopbuilt tandem gooseneck 20' stock trailer, grain roller mill with electric motor, 3-Westel Vite-ra 5000 bu. hopper bottom bins, 2-Goebel 3500 bu. hopper bottom bins, 2-74 ton fertilizer bins, Grain Guard aeration fans, Wheatearth SA 10-71 swing augers, Sakundia 7-37 PTO auger, 90' Brandt QF 1500 field sprayer w/chem mixer, 30' Case IH 1010 straight cut header, straight cut header trailer, Degelman ground drive rock picker, JD 590 30' PTO swather, 2500 gal. poly water tank, 1600 gal. poly water tank, Carolina 55 ton shop press. Visit: www.mackauctioncompany.com for sale bill and photos. Join us on Facebook and Twitter. 306-421-2928 or 306-487-7815 Mack Auction Co. PL 311962.

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AUCTION SALES



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48TH Annual SPRING MACHINERY CONSIGNMENT AUCTION

Camrose, Alberta

Saturday, April 29th@ 9:00 A.M.

At Lindstrand Auction SALE SITE, 2 MILES NORTH OF CAMROSE ON HIGHWAY 833.

Lindstrand Auction Machinery Sale Site – SELLING 3 RINGS

Accepting Consignments from Wednesday, April 19th - Friday, April 28th

TAKE ADVANTAGE OF OUR
47 YEARS IN THE AUCTION BUSINESS

EXPECTING 4,000 - 5,000 BIDDERS

The April 29th Auction will be streaming live on BidSpotter.com

We conduct Alberta's Largest 1-day Farm Machinery Consignment Auction 4 times a year. Selling farm equipment, cars & trucks, lawn and garden, recreation vehicles & major farm equipment. Whether you have 1 piece or a complete line of machinery, we have the facility & the experience to bring you top dollar for your equipment.

Unreserved Farm Equipment for the Estate of Keith Forster (of Killam AB)
Highlights Include:

- 2011 CASE IH Steiger 350 HD 4wd tractor - 16 spd. power shift, 350 hp, 4 hyd electronic remotes, 1000 PTO, 520/80R46 radial duals, 1496 hours showing, one owner, shedded
- 2012 Morris C2 Contour 61' Air Drill - c/w Morris 8370 Eight Series XL tow behind cart, paired row, double shute, 10" spacing, 5.5 semi pneumatic packers, low acres
- 2005 Spray Coupe 4650 SP Weed Sprayer - 60' booms, 400 gal poly tank, foamer, 3-way nozzles, c/w CASE IH 750 controller, 1095 hrs showing, one owner, shedded
- 2014 CASE IH WD 1203 25' Windrower - Hyd Fore/Aft, hyd tilt, 126 hp hydro turbo diesel, c/w Ull pickup reel, header mover, 385 hrs showing, shedded, one owner
- 2007 CASE IH 2577 AFX Rotor Combine - hyd fore/aft, grain tank extension, straw chopper/chaff spreader, rock trap, stone retarder feeder drum, auto header height, 265 hp, one owner, 1315 threshing hrs showing, shedded
- 1997 IHC 4700 Diesel S/A Grain Truck - DT466E diesel motor, 6 spd trans, c/w 20' steel box & Michaels roll tarp
- 2013 Dodge Journey RT AWD SUV - leather, full load, 38000 km showing, one owner

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Jody Cell:
780-679-8101

Laurie Cell:
780-679-7363

Auctioneer's note: This is a very clean line of low hour, shedded, field ready farm equipment. The major equipment still has plastic on the seats! This equipment is selling unreserved in conjunction with Lindstrand Auctions Ltd. - 48th Annual Spring Machinery Consignment Auction. This will be one of our largest Spring Auctions that we have conducted over the last 48 years. For pictures & full listing, visit our website: www.lindstrandauctions.com. This auction features several Farm Dispersals. If you have equipment to sell & would like to be included in this outstanding auction - Give us a Call Today! Plan to attend. For more information contact: Jody Lindstrand - Cell. 780-679-8101.

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with Berg’s quality lasting
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TOPGUN TRAILER SALES “For those who
demand the best.” PRECISION AND
AGASSIZ TRAILERS (flatdecks, end
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BEHNKE DROP DECK semi style and
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2017 SUNDOWNER 24’ all aluminum stock
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2017 BISON TRAILHAND, 3-horse, 8’ LQ
#H2006096. Was \$47,900. Now \$42,900.
AMVIC Lic. Dir. Call 1-844-488-3142 or
shop online 24/7 at: allandale.com



2017 FEATHERLITE 7’x24’, #HC143380.
Reg: \$35,235. Sale: \$26,500. 3 Compart-
ments. Edmonton/Red Deer, AB. Call
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NEW WILSON BUMPER PULL MODEL
Desert Sales Inc. now stocks the Wilson
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undersold. Bassano, AB., 1-888-641-4508.
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24’ GOOSENECK 3-8,000 lb. axles, \$7890;
Bumper pull tandem lowboys: 18’, 16,000
lbs., \$4750; 16’, 10,000 lbs., \$3390; 16’,
7000 lbs., \$2975, 8000 lb Skidsteer, \$1990
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RETIRED: 25’ LODE TRAIL tri-axle trailer,
pintle hitch, newer rubber, brakes redone,
\$7900. Call 306-222-7101, Meacham, SK.



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shop online 24/7 at: allandale.com

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2000 TRAILTECH sprayer trailer w/tanks,
chem handlers and product pumps,
\$20,000. Ron 306-648-5394, Ferland, SK.

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PRECISION TRAILERS: Gooseneck and
bumper hitch. You’ve seen the rest, now
own the best. Hoffart Services, Odessa, SK.
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2017 GMC CANYON CC 4x4, 3.6L V6,
loaded, all-terrain pkg., starting \$41,795, 6
in stock, #H1592. 1-800-667-0490
DL#907173 www.watrousmainline.com

2017 GMC 1/2 ton Denali, 6.2L, V8, load-
ed, NAV, sunroof, leather, #H1320, start-
ing at \$62,995, 4 in stock! 1-800-667-0490
www.watrousmainline.com DL#907173

2017 CHEV COLORADO Crewcab 4x4, 3.6L
V6, loaded, NAV, heated leather, #H1492,
starting at \$43,695. 1-800-667-0490
www.watrousmainline.com DL#907173

2017 CHEV AND GMC Crewcab Diesels,
6.6L V8 Duramax, loaded, leather,
#H1503, 10 in stock. 1-800-667-0490
www.watrousmainline.com DL#907173

2017 CHEV AND GMC 1 ton Crewcab Du-
ally, 6.6L, V8 dsl., loaded, cloth, #H1566,
call 1-800-667-0490 for pricing! Or visit
www.watrousmainline.com DL#907173

2017 CHEV AND GMC 1/2 ton Crewcab
w/cloth, 5.3L, V8, loaded, #H189, starting
at \$46,995, 5 in stock. 1-800-667-0490,
www.watrousmainline.com DL#907173

2017 CHEV AND GMC 1/2 ton Crewcab,
5.3L, V8, loaded, cloth, #H1189, starting
at \$46,995, 5 in stock. 1-800-667-0490
www.watrousmainline.com DL#907173

2017 CHEV AND GMC 1/2 ton CC, 5.3 L
V8, loaded, leather, #H1276, starting at
\$50,195, 45 in stock. 1-800-667-0490
www.watrousmainline.com DL#907173

2016 GMC 1/2 ton Crewcab SLT, 5.3L V8,
loaded, 2” lift, NAV, leather, 9657 kms.,
#M7283, \$56,995. 1-800-667-0490
www.watrousmainline.com DL#907173

2016 GMC 1/2 TON CREWCAB SLT, 4x4,
5.3L V8, loaded, 57,915 km, stk#H1140A,
\$48,395, DL#907173. 1-800-667-0490
www.watrousmainline.com

2015 GMC 1/2 ton Crewcab SLT, 4WD,
5.3L V8, loaded, NAV, silver, 64,790 km.,
#M7273, \$41,995. Call 1-800-667-0490
www.watrousmainline.com DL#907173

2001 DODGE QUAD CAB 2500, 4x4 diesel,
needs auto transmission, \$5000 OBO,
306-268-4322, Viceroy, SK.

GRAIN TRUCKS

1675

1976 HEAVY 6500 GMC grain truck with
400 bu. box, roll tarp and new hoist. Call
306-778-3749, Swift Current, SK.

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hoist systems can save you time, energy
and keep you safe this seedling season.
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306-933-2655, Saskatoon, SK. or visit us
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GRAIN TRUCKS

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2004 MACK VISION tandem 13 spd grain
truck w/CIM Ultracell Box; also Ford F-600
grain truck w/steel box and grain trap.
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tion Monday April 17, 2017. Bienfait, SK.
area. visit www.mackauctioncompany.com
or sale bill and photos or join our FB page.
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\$46,000 and up. Yellowhead Sales,
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SK. DL #327784. www.davidstrucks.com

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1994 FREIGHTLINER FL80, 8.3L Cummins,
10 spd., aluminum grain box 8.5’x20’ c/w
Shur-Lok tarp, remote chute opener and
hoist, white, original 283,000 kms, exc.
condition. 306-677-7400, Hodgeville, SK.

GRAIN TRUCKS

1675

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

GRAIN TRUCKS

1675

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

GRAIN TRUCKS

1675

1985 MACK TANDEM, 13 spd. Eaton,
405,850 kms, no rust, spring susp.,
11R22.5 new tires, 20’ grain box, win-
shield roll tarp, Mack E6-350 engine, 350
HP solid, quiet, runs great, \$39,000.
204-526-0748, Kamsack, SK.

GRAIN TRUCKS

1675

ALLISON AUTOMATIC TRUCKS: Several
trucks with auto. trans. available with C&C
or grain or gravel box. Starting at \$19,900;
2002 IH 4400 DT466, Allison auto., 20’
B&H, \$56,900. Call K&L Equipment,
306-795-7779, Ituna, SK. DL #910885.
ladimer@sasktel.net

GRAIN TRUCKS

1675

CAB AND CHASSIS: 2000 Sterling tan-
dem, 435 HP Cat. 10 spd. trans. will take
20’ box, extremely low kms, \$19,900. Call
K&L Equipment, 306-795-7779, Ituna,
SK. DL #910885. ladimer@sasktel.net

GRAVEL TRUCKS

1676

ATTENTION GRAVEL HAULERS: 6 tan-
dems in stock, 1998-2007; 2013 Cancade
tri-axle end dump; Tri-axle 18’ dump. Yel-
lowhead Sales, 306-783-2899, Yorkton, SK

GRAVEL TRUCKS

1676

2012 IHC TRANSTAR, low pro, Max 300
HP diesel Allison auto. trans., single axle,
loaded cab, 13’ Armstrong landscape
dump, \$39,900; 2006 STERLING 19500,
tandem, diesel eng. 10 spd. trans., 15’ box,
low kms, \$39,900. K&L Equipment and
Auto. Call Ladimer, 306-795-7779, Ituna
DL #910885.

SEMI TRUCKS

1677

2006 WESTERN STAR, Series 60 Detroit,
18 spd. trans., 46 rears, 450,000 kms,
\$27,000 work order, fresh CVIP \$39,000.
780-983-0936, Clyde, AB.

SEMI TRUCKS

1677

2003 KENWORTH W900L, Cat C15,
475-550 HP, 18 spd. heavy 40 rears, 4:11
ratio, high level VIT int. w/leather seats.
306-786-6600, Yorkton, SK.

SEMI TRUCKS

1677

2012 CASCADIA DD15 fresh eng., new 18
spd. trans. & clutch, 640,000 kms., good
rubber, deleted. 306-831-6901, Rosetown

SEMI TRUCKS

1677

SANDBLASTING AND PAINTING of heavy
trucks, trailers and equipment. Please call
for details. Can-Am Truck Export Ltd.,
1-800-938-3323, Delisle, SK.

SEMI TRUCKS

1677

WANTED: MACK COMPLETE or parts:
1985-1990 R-688; 1990-1999 RD-688 and
427-454 engine. Selling: Camelback
susp., 4:42 diffs, 15 spd. Eaton, 350 HP
engine. 306-960-3000, St. Louis, SK.

SEMI TRUCKS

1677

2001 IH 9900 Condo bunk, Detroit 60 Se-
ries, 13 spd., 12-40 rears, 1,700,000 kms.,
\$16,000 OBO, 306-268-4322, Viceroy, SK.

SEMI TRUCKS

1677

2006 KENWORTH W900L daycab
650,000 kms., 565 Cummins, 18 spd., 46
rears, double lock-ups, pre-emissions,
\$50,000. 306-865-7274, Hudson Bay, SK.

SEMI TRUCKS

1677

2013 KENWORTH W900B small bunk,
550 Cummins, 18 spd., 46 rears, all bells
and whistles, only 368,000 kms.,
\$110,000. 306-865-7274, Hudson Bay, SK.

SPORT UTILITIES

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SPECIAL PURCHASE OF new and near-
new 2014-2015 Crosstrek XVs. Save up to
\$5000. Come in quickly!! 1-877-373-2662.
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2006 FLEXI-COIL 5000 HD 51', 10" spacing, 5" rubber packers, single shoot, \$25,000; 2001 Bourgault 5440 dual fan, air seeder hopper, \$29,500. 403-665-2341 Craigmyle, AB.

FLEXI-COIL 2320 TBT air cart, c/w monitors, in good condition, asking \$14,000. 780-926-6354, La Crete, AB.

2008 JD 1830 61', 7.5" spacing, 3-1/2" steel packers, single shoot, JD 1910 cart, DS, 430 bu. tank, duals, var. rate, conveyor, \$89,000. 780-835-1070, Fairview, AB.

UNRESERVED AUCTION: Flexi-Coil 5000 58' air drill w/Flexi-Coil 2320 air tank, new openers, single shoot, 9" spacing, rubber packers, 230 bu. tank. Auction April 26, 2017, Sedgewick, AB. For info: owners phone, 780-385-1289 or Dunkle Auctions: 1-877-874-2437. Details & pics: www.dunkleauctions.com PL# F209769.

2009 FLEXI-COIL 5500 70', fold back, 12" spacing, 4350 TBT variable tank, 4.5" boots, done approx. 20,000 acres, nice shape, **SPECIAL \$89,500.** 780-386-3979, 780-385-6449, Loughheed, AB.

2005 FLEXI-COIL 4350 TBH AIR CART, DS, 16-run, variable rate, good shape, \$38,000 OBO. 780-385-5064, Killam, AB.

2013 SEEDMASTER 6012, seed breaks and other options: Nova 560-8-D, load cells, 40 bu. rear tank, sect. control, flow sensors, \$208,000. 780-754-2361 Irma AB.

BOURGAULT 5710, 40', 12.5" spacing, mid-row shank fert. run, 5" rubber packers, c/w Bourgault 4350 air tank, dual fans, 3 tanks with cameras, \$40,000 OBO. Retired. 780-679-6314, Daysland, AB.

MORRIS 7130 air tank, SN #7130100505, clean unit, good hyd. fill auger, hyd. air motor, good rubber, rebuilt metering rolls, c/w new hoses and Universal mounting hitch, exc. unit for seed plot use or small farm, \$8000. 780-363-2215, Chipman, AB.

2003 BOURGAULT 5710 29' air drill, DS, Stealth paired row openers, 9.8" spacing, 4300 tank, \$60,000 OBO. 780-771-2155, 780-404-1212, Wandering River, AB.

FLEXI-COIL 6000 disc drill with Morris 7240 tank, extra parts, discs and scrapers in good shape, \$29,000. 306-741-0247, Swift Current, SK.

2011 JD 1870, 56', blockage, w/1910 TBH air cart, 430 bu., 520/85R42 duals, conveyor, excellent condition, asking \$195,000. 306-260-8969, Turtleford, SK.

2010 BOURGAULT 3310, 55', 12" spacing, v-style packers, MRB's, \$216,000. Stk# 021101. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

AIR DRILLS
4250

2012 BOURGAULT 3320 QDA, 66', 10" NH3 kit, MRB's, duals, deluxe auger, \$295,000. Stk# 023175. 1-800-667-9761, Saskatoon, SK. www.redheadequipment.ca

2007 BOURGAULT 5710, 64', 9.8" spacing, 3.5" steel packers, MRB's, \$110,000. Stk# 016344. 1-800-667-9761, Saskatoon, SK. www.redheadequipment.ca

2011 BOURGAULT 3310, 55' DS, v-packers, 6550 tank, 4 tank metering, \$191,000. Stk. 020803. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2009 BOURGAULT 3310, 75' 12" spacing, Paralink, DS, S25 hyd. MRB's, Stk# 022282, \$240,000. 1-866-659-5866, Estevan, SK. www.redheadequipment.ca

2006 BOURGAULT 5710, 40', 9.8" spacing, steel packers, 6200 cart, \$60,000. Stk# 020500. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2010 CASE/IH PH800, 70', 10" spacing, new Dutch paired row, SS, duals, Stk #012985, \$109,000. 1-800-535-0520, Lloydminster, www.redheadequipment.ca

2013 SEED HAWK 60-12, 60', twin wing, DS, sec. control, 10" auger, 800 TBH, Stk# 017840, \$335,000. 1-844-323-3003, Prince Albert, www.redheadequipment.ca

2009 SEED HAWK 72-12, 72', 12" spacing, twin wing openers, 600 TBT cart, Stk# 021477, \$205,000. 1-844-323-3003 Prince Albert, www.redheadequipment.ca

2010 CASE/IH ATX700, 70', rubber packers, high float tires, DS, VR cart, Stk# 020407 \$94,000. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

1995 MORRIS MAXIM 34', 10" spacing, double shoot, Gumbo boots, 7180 tank, shedded; Also 1991 Case/IH 9240 4WD tractor. 306-842-6704 or 306-861-1015, Weyburn, SK.

40' BOURGAULT 5710 series II, triple shoot w/Bourgault 5350 TBH air tank. Don Biette Land & Farm Equipment Auction, Monday April 17, 2017. Bienfait, SK. area. Visit: www.mackauctioncompany.com for sale bill and photos or join our FB page. Phone 306-421-2928 or 306-487-7815 Mack Auction Co. PL 311962.

2010 MORRIS CONTOUR 38', 12" spacing, DS, new carbide sideband openers, Devlo rotary scrapers, Agtron all-run blockage, TBT, 8300XL tank, 80 bushel 3rd tank, \$125,000 OBO. Ph. 306-773-9057, Stewart Valley, SK.

MORRIS MAXIM 49' air drill, slim wedge knock-on clips, 2 sets of openers, front dual castors, 240 bu. TBH tank, \$42,500 OBO. 306-662-7005, Robsart, SK.



2000 MORRIS MAXIM II 50' air drill, 7300 VRT air cart w/elec. over hyd. in cab controls, 3rd tank, 10" spacing, 3.5" steel packers, Agtron primary blockage, DS, can switch to SS, Atom jet side band openers, scrapers, opt. 3 camera CabCam system, \$30,000. 306-377-2022, Herschel, SK.

JD 1830, 2008, 50', JD 1910 TBH air cart, 430 bu., 10" sp, Pattison liquid fert., monitor and harness. 306-493-7409, Delisle SK

57' FLEXI-COIL 5000, 9" sp, JD 1900 340 bu air cart, DS, VR, hyd. calb., \$22,000 updates done at JD, new center Atom jets, recapped packers, new bearings and tires. \$30,000. 306-229-0747 St Denis, SK.

MORRIS MAXIM 30' double shoot, 10" spacing, Atom jet side band openers, 3.5" packers, w/7180 TBH Morris tank, \$30,000. 306-237-7571 eves, Perdue, SK.

RETIRED: 2007 BOURGAULT Series II 47' air drill w/6350 tank, dual fans, \$75,000 OBO. Call 306-222-7101, Meacham, SK.

2008 BOURGAULT 3310 55', 10" spacing, single shoot, NH3 kit, MRB, like new. **2010 6450** deluxe tank, bag lift, deluxe auger, 3 tank metering, like new, \$147,000. 306-961-1823, St. Louis, SK.

2013 SEEDMASTER, 70' slim fold, with granular applicator, all HD caster w/oversized tires, 28LR26 rears c/w 2012 Bourgault 6550 tank w/duals, \$265,000. Ron 306-648-5394, Ferland, SK.

1996 FLEXI-COIL 5000 33', 1720 TBH tank, Stealth openers, VW 3" spreader tips, 10" sp, 3.5" steel packers, field ready, exc. cond \$35,000. 306-799-4451 Briercrest SK.

2008 SEEDMASTER SXL 2100 50' 12" 300 bu. seed, 2100 gallon fert. all on board. Smart hitch, 4 cameras, one owner unit \$110,000 OBO. 306-591-1133, Pense, SK.

FLEXI-COIL 2320, TBH air tank, double shoot, excellent condition, \$12,500 OBO. 306-861-4592, Fillmore, SK.

CONCORD 56', 12" spacing, Bourgault 3" paired row tips, duals on wings, scraper on each packer wheels, exc. cond., \$14,500; 3400 Concord tank, \$9500, or both for \$22,000 OBO. 306-861-4592, Fillmore, SK.

2006 JD 1820, 61', 12" space, single shoot, steel packers, new hoses, excellent cond., \$19,500; 2006 JD 1910 air tank, single shoot, Conveyor 12", \$29,500 or \$48,000 for both. Call 306-861-4592, Fillmore, SK.

2009 BOURGAULT 3310 PHD 75' 12" single shoot, MRB, 4.5" pneu. packers, block sensor, \$125,000. 306-861-4592, Fillmore, SK

2010 Salford 522 DD drill 55', liquid and Alpine equipped, 370 bushel Salford air tank, Pattison 3200 liquid cart. 306-567-7660, Davidson, SK.

WANT TO PURCHASE: Morris Maxim - Max III or Contour style air drill, 55-60', 10" spacing, w/8370 or 8425 TBH (or newer style cart), DS dry. Would consider cart only. Contact Allan Larose 306-224-4777 or 306-736-7381, Craik, SK.

2002 BOURGAULT 5710 47', 10" spacing, MRB's, Dickey John autorate, c/w 2320 w/3rd tank, seeds 220 acres of canola per fill, \$42,000. 306-873-8301, Tisdale, SK.

2008 BOURGAULT 5710, 54', 9.8" spacing, new MRB's, carbide tips, 3.5" packers, new NH3 w/2004 5350 air tank, cab rate adj., 3 tanks, 1 fan, \$82,000. Call 306-862-7138 or 306-862-5993, Niipawin, SK.

2011 SEED HAWK 50', 12" sp., tool bar with 600 cart dual wheels auger and bag lift. \$229,000; 1997 39' Morris Magnum air drill, 10" spacing, Atom openers w/Morris 180 cart, \$23,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2010 JD 1910, \$27,143. 306-746-2911 or www.raymorenewholland.com

AIR DRILLS
4250

2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, DS, rear hitch, tandem axles, low acres, \$140,000. 2002 49' Morris Maxim air drill, 12" space, w/7240 Morris grain cart, \$45,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 SeedMaster 5012 TXB, \$75,000. Please visit www.yorktonnewholland.com or call 306-783-8511.

2012 MR 8650, \$99,500. 306-946-3301 or www.watrousnewholland.com

2013 NH TXB66-12 c/w P1060 TBT and Twin NH3 tanks, \$218,000. 306-746-2911 or www.raymorenewholland.com

2012 SEMST 8012 CT TXB w/300 onboard tank & JD1910, \$260,000. 306-783-8511 or www.yorktonnewholland.com

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

1996 CC 40', 10" c/w 3430 TBH, \$39,900. Please visit www.yorktonnewholland.com or call 306-783-8511.

1998 JD 1900, \$13,900. 306-946-3301 or www.watrousnewholland.com

2007 SeedHawk 50', 10" c/w 777 TBH, \$109,900. www.raymorenewholland.com or 306-746-2911.

2002 Morris Maxim 34', 10" c/w 2320 TBT, \$16,900. www.yorktonnewholland.com or 306-783-8511.

2008 BOURGAULT 3310, 65', single shoot, \$79,000 OBO. 306-563-8482, Yorkton, SK.

2016 BOURGAULT 76' 3320 QDA, MRB's, 10" space, anhydrous, high floatation, DS, 4.5" pneumatic packers, w/wo 7950 Bourgault tank. 306-743-7523, Langenburg, SK.

JD 1830, 61', 10" spacing, 4" pneumatic packers, Atom Jet 3-1/2" paired row openers w/NH3, Raven controller, section control, c/w 1910 430 cart with conveyor, cameras in tanks, very nice, \$95,000 OBO. 306-743-7622, Langenburg, SK.

800 FLEXI-COIL 33', DS, w/1720 tank, (last 800 made), 12" spacing, 550 lbs. shanks, Poirier seed boots, low acres, tank shedded until this year. 3

CASE/IH
4286

1999 CASE 9380, quad track, 9000 hrs., PTO, 400 hrs. on new track, S3 AutoSteer, \$68,000. Call 306-524-4960, Semans, SK.



2008 CIH 535 QT, 5204 hrs, Cummins, 16 spd p/s, weights, front 30" tracks NEW, nice cab....\$182,800

1-800-667-4515. www.combineworld.com



2008 CIH Magnum 275 MFWD, 3182 hrs, PTO, LH rev, powershift, weights, rear duals....\$112,800

1-800-667-4515. www.combineworld.com

STEIGER
4289

UNRESERVED AUCTION: 1984 Steiger CM-325 Panther 4WD tractor, 325 HP Cat eng, 11,973 hrs, 20.8R38 duals, 4 hyds, 20F/4R, command start; 1983 Steiger ST-310 Panther 4WD tractor, 310 HP Cummins eng, 9936 hrs, 20.8x38 duals, 4 hyds, 20F/4R, separate elec./hyd. flow control for air seeder. Auction April 26, 2017, Sedgewick, AB. For info: owners phone, 780-385-1289 or Dunkle Auctions: 1-877-874-2437. Full details & pics at: www.dunkleauctions.com PL# 209769.

JOHN DEERE
4295

2001 JD 7810, FWD, Power Quad, LHR with E-range, 3 PTH, 3500 hrs. 780-674-5516, 780-305-7152 Barrhead AB

JD 7210, FWA, approx. 7500 hrs., 105 HP, 3 PTH, bale/grapple forks, loader, powershift \$54,900. 780-674-1799, Sangudo, AB

2014 JD 9360R, 4 WD, 18 spd. powershift, 5 hyds., 620x42 Michelins, 670 hrs., exc., \$280,000. 780-679-7795, Camrose, AB.

2000 JD 7810, new tires, 3658 hrs., no winter use, always shedded, full GPS, \$61,500. Henry 403-588-0958, Alix, AB.

2010 JD 7130 w/741 loader, new motor, 5500 hrs. new tires, PowerQuad, front susp., GPS. Henry 403-588-0958, Alix, AB.

1977 JD 4430 w/606 PT mower behind, very low hrs, always shedded, exc. cond., \$29,000 OBO. 306-717-2971 Saskatoon SK

JOHN DEERE 8440 4WD tractor. Don Biette Land and Farm Equipment Auction Monday April 17, 2017. Bienfait, SK. area. Visit: www.mackauctioncompany.com for sale bill & photos visit or join our FB page. Phone 306-421-2928 or 306-487-7815, Mack Auction Co. PL 311962.

JOHN DEERE 3140 with 148 loader and grapple; Massey 275 with FEL. 306-283-4747, Langham, SK.

1982 JD 4640, approx. 9000 hrs, good rubber, always shedded, \$22,000 OBO. 306-231-8212, Humboldt, SK.

WANTED: JD 2520 tractor, powershift, 1969-1972. Also 3020, 4000, 4020, 4620, diesel, powershift, 1969-1972; Cancar Ag tree farmer 4WD, 1960's. 306-960-3000.

2002 JD 9520 with PTO, powershift, 800 metrics, Greenlighted, 6700 hrs., \$139,000. 306-948-7223, Biggar, SK.

1991 JD 8760, 4 WD, full powershift, 7000 hrs., duals, tires good, 4 hydraulics, \$45,000. 306-395-2733, Chaplin, SK.

2012 JD 9410R, duals, 1528 hrs., \$269,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 1816 hrs., \$356,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2007 JD 9620, triples, 5094 hrs., \$192,200. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 1988 hrs., \$366,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2009 JD 9630, triples, 3950 hrs., \$240,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2013 JD 6170R, MFWD, loader, 1500 hrs., \$184,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 7200R, MFWD, IVT, 2226 hrs., \$186,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

1996 JD 7800, MFWD, loader, 11,845 hrs, \$59,500. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2002 JD 9520, duals, 6305 hrs., \$125,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2013 JD 5115ML, o/s, MFWD, loader 600 hrs, \$63,500. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, PTO, 2085 hrs., \$368,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 2032 hrs., \$328,500 Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2004 JD 7520, MFWD, powershift, 10,400 hrs, \$65,800. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2004 JD 7520, MFWD, IVT, loader, 5400 hrs, \$94,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2011 JD 6140D, MFWD, PPS, loader, 2000 hrs, \$78,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2013 JOHN DEERE 6150R, MFWD, IVT, loader, 1890 hrs, \$169,000. Nelson Motors & Equipment, 1-888-508-4406. Visit: www.nelsonmotors.com

JOHN DEERE
4295

2013 JD 5115ML, O/S, MFWD, loader, 600 hrs \$63,500. Nelson Motors & Equipment, 1-888-508-4406. Website at: www.nelsonmotors.com

1996 JD 7800, MFWD, loader, 11,845 hrs., \$59,500. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, PTO, 2539 hrs., \$360,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, PTO, 2246 hrs., \$355,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2013 JD 9560R, duals, 1943 hrs., \$373,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560RT, PTO, 1940 hrs., \$366,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2015 JD 9620R duals, PTO, 669 hrs., \$540,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2009 JD 9630, triples, 3950 hrs, \$240,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 1685 hours, \$352,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 1811 hrs., \$356,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2007 JD 9620, triples, 5094 hours, \$192,200. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

1996 JD 8870, duals, 4895 hours, \$81,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2002 JD 9420, duals, 4600 hours, \$127,700. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2005 JD 9620, duals, 5017 hours, \$172,700. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 1816 hrs, \$356,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2013 JD 9560R, duals, 1943 hrs., \$373,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2015 JD 9620R duals, PTO. 669 hrs, \$540,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560RT, PTO, 1940 hrs, \$366,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R duals, PTO, 2539 hrs, \$360,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 1988 hrs, \$366,000. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R, duals, 2032 hrs, \$328,500. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2012 JD 9560R duals, PTO, 2246 hrs., \$355,900. Nelson Motors & Equipment, 1-888-508-4406. www.nelsonmotors.com

2007 JD 9420, 4713 hrs., 1 owner, all available options, 800 Firestone deep tread tires, weights, 15 spd. Powershift, climate control, Active Seat, extra lighting, SN# RW9420P051184, excellent condition, \$175,000. Charles Cattle Co., 306-457-2935, Stoughton, SK.

1990 JD 4455, exc. shape, completely restored, less than 2000 orig. hours! Charles Cattle Co., 306-457-2935, Stoughton, SK.

JD 4630, 8 spd. powershift, new paint, 20.8x38 duals- 70%, small shaft PTO, Pioneer couplers, 5512 hrs., LED Lites, \$27,500. 306-424-7761, Montmartre, SK.

2003 JD 9420, 5261 hrs., 24 spd., Greenstar ready, 710-70R42, \$129,000. Earl Grey, SK. 306-939-4800 or 306-726-7807.

1986 JD 4650, 15 spd., PS, 3 remotes, 20.8R42, 7500 hrs. vg; Schulte hyd. drive rockpicker, vg. 306-771-2765 Balgonie, SK.

JD 4650, powershift, 10,500 hours, good rubber, very reliable \$29,000. Call 306-873-8301, Tisdale, SK.

1983 JD 8450, 4780 hrs., 3 hyds., inside tires 3 yrs old, good cond., no PTO, \$24,000. 306-889-2035 eves, Mistatim, SK

2010 JD 7730, MFD, 620x42 rear tires, Powerquad trans., 746 loader and grapple, 3350 hrs. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1998 JD 9400, powershift, shedded, tow cable, 710x70R38 rubber, 7000 hours, \$74,000. Call 306-524-4960, Semans, SK.

MASSEY FERGUSON
4301

MF 6170, FWA, 948 MF loader and grapple, new front/rear tires, 2990 hrs., asking \$25,000. 780-853-2642, Vermilion, AB.

1982 MASSEY 4800, 3 spd. powershift, PTO, 230 HP 18.4x38 tires, \$20,000 OBO. 306-648-8144, Gravelbourg, SK.

NEW HOLLAND
4304

UNRESERVED AUCTION: 2004 NEW HOLLAND TJ425 4WD tractor, 2391 hrs, 710/70R42 duals, 425 HP 5 hyds., 12F/4R, rear weights, shedded, excellent condition. Auction April 26, 2017, Sedgewick, AB. For info: owners phone, 780-385-1289 or Dunkle Auctions at: 1-877-874-2437. Full details & pics at: www.dunkleauctions.com PL# 209769.



2009 NH T8010 MFWD, 220 HP, FEL w/ grapple, 6016 hrs, powershift, 540/1000 PTO, 3PH, autosteer, nice cond....\$97,800

1-800-667-4515. www.combineworld.com

FORD
4302

1991 FORD 846, 7800 hrs. (500 on rebuilt eng.), 4 remotes, no PTO, std. trans., w/wvo 14" Degelman blade, asking \$40,000. 306-648-8144, Gravelbourg, SK.

VERSATILE
4310

VERSATILE 836, POWERSHIFT, PTO, 4 new tires, very clean unit. Call 403-823-1894, Drumheller, AB.

WANTED: VERSATILE Tractor with 450HP or more as well as PTO and powershift. Call 780-835-4761, Blue Sky, AB.

855 VERSATILE 4WD tractor. Don Biette Land and Farm Equipment Auction, Monday April 17th, 2017. Bienfait, SK. area. Visit: www.mackauctioncompany.com for sale bill and photos or join our FB page. Phone 306-421-2928 or 306-487-7815, Mack Auction Co. PL 311962.

VERSATILE 375, 400, 435, 550 used; 450, 500 and 550DT new. Call KMK Sales Ltd. 306-682-0738, Humboldt, SK.

1984 VERSATILE 835 Series III, 6014 hrs., planetaries turned at 4000 hrs., bottom end done at 4500 hrs., plumbed for air drill, shedded, very good cond., \$25,000 OBO. 306-799-4451, Briarcrest, SK.

VERSATILE TRACTORS: Many early and late models available. Great prices! 1984 Versatile 975, 855 Cummins, new: paint, interior, pins and bushings, 8000 hours, very nice, hard to find! \$34,500 CDN OBO. Delivery available. Call 218-779-1710.

VARIOUS TRACTORS
4319

McCORMICK CX100, 90HP FWA, Buhler loader w/grapple, 8' back blade, 710 hrs., \$55,000. 403-335-4383, Didsbury, AB.

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NEW LS TRACTOR, 4 WD, 97 HP Iveco dsl., self-leveling loader, 3500 lb. lift, CAHR, 3 spd. PTO, 3 PTH, power shuttle with hi/lo, 5 yr. warranty, \$69,000. The Tractor Company 306-239-2262, Osler, SK.

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LOADERS/DOZERS
4322

LANDMASTER DOZERS: YEAR END BLOWOUT PRICING. Professionally Engineered and Manufactured, 1 PD18 remaining - For details and pricing - Neil 306-231-8300. landmaster.ca

NEW JD 480H loader, \$18,500; And new Degelman blade, model 12-46/57, \$15,500. Henry 403-588-0958, Alix, AB.

12' DEGELMAN 46/5700 4-Way dozer blade, QA, \$15,000; HLA snow wing dozer blade, trip cutting edge, \$17,000. Wandering River AB 780-771-2155, 780-404-1212

2003 JD 9420, 5261 hrs., 24 spd., Greenstar ready, 710-70R42, \$129,000. Earl Grey, SK. 306-939-4800 or 306-726-7807.

1986 JD 4650, 15 spd., PS, 3 remotes, 20.8R42, 7500 hrs. vg; Schulte hyd. drive rockpicker, vg. 306-771-2765 Balgonie, SK.

JD 4650, powershift, 10,500 hours, good rubber, very reliable \$29,000. Call 306-873-8301, Tisdale, SK.

1983 JD 8450, 4780 hrs., 3 hyds., inside tires 3 yrs old, good cond., no PTO, \$24,000. 306-889-2035 eves, Mistatim, SK

2010 JD 7730, MFD, 620x42 rear tires, Powerquad trans., 746 loader and grapple, 3350 hrs. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1998 JD 9400, powershift, shedded, tow cable, 710x70R38 rubber, 7000 hours, \$74,000. Call 306-524-4960, Semans, SK.



ONLINE ONLY UNRESERVED AUCTION: May 3-9, 2017. www.championassets.ca 2007 CAT D6N dozer w/3 shank ripper. Call Larry at 306-865-7660, Lic# 334832.

MISCELLANEOUS
4325

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PLAN TO ATTEND The 11th Annual Pound Maker Ram Sale, 120 yearling rams sell by auction Thursday, May 18, 2017 at Fort Macleod, AB. Suffolk, Dorset, Hampshire, Charollais, Ile de France, Rambouillet, North Country Cheviot and Coloured. Call Warren Moore 403-625-6519 or check our website: www.poundmakerrams.com Catalogue on the website after May 1st.

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6132

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WANTED TO LEASE irrigated land to producer forages or buy standing irrigated pure Timothy or pure Alfalfa; Also looking to lease land or buy standing pure Timothy crops west of Hwy #2. Call Barry at: 403-507-8660, e-mail: info@barr-ag.com



Buy and Sell anything you need through the

AlbertaFarmer
1-800-665-1362

INVESTMENT OPPORTUNITY! 1200 acres north of Cereal, AB. Land is rented for this current year. Oil and gas revenue of approx. \$11,000. Custom built 3 bdrm, 2.5 bath home. Info. call 403-854-4444. www.bigskyrealestateltd.com

QUALITY FARM LAND, 2 quarter sections, 2 miles north of Manning, AB. along Hwy. 35, \$344,900. 587-297-3361, Manning, AB. markus62@gmail.com

SASKATCHEWAN
6133

ALBERTA
6132

PASTURELAND FOR SALE BY TENDER Gary Boden and Florence Boden hereby offer the following parcels of land in the Camrose County/Edberg area, for sale by tender, subject to the existing reservations on title with the exception of any encumbrances on title such as Mortgages, which will be discharged: LINC: 0017 015 562. NE 1/4-36-43-19-W4, approx. 160 acres. Excepting Thereout: approx. 3.28 acres as shown on road Plan 1036T. Excepting thereout all Mines and minerals. Containing approx. 156.72 acres; LINC: 0025 852 831, SW 1/4 6-44-18-W4. Excepting thereout all mines and minerals. Area approx. 161.11 acres; LINC: 0023 477 152. NW 1/4 6-44-18-W4 which lies to the South of the right bank of the Battle River, as shown on a Plan of Survey of the said Township dated 23 August 1927. Containing approx. 21 acres excepting thereout all Mines and Minerals and the right to work the same. The land is located approx. 16 kms east of Edberg, AB. There are no buildings on the land. The SW-6-44-18-W4 and Portion of NW 6-44-18-W4 is river valley land and must be sold together, but the large parcels will be sold separately. The NE-36 has Surface Lease revenue and gravel pockets. The SW-6 also has gravel pockets that have been developed. All of the land is currently in pasture, but the NE-36 has been farmed in the past. Land is fenced with 3-wire fence. 3000 cu. yards of pit run piled on the SW-6 is not included in the sale and will be removed this summer. Tenders are to be submitted in sealed envelopes marked "Boden Tender", to Martin West at Farnham West Stolee Kambeitz LLP Barristers and Solicitors, 5016 - 52nd Street, Camrose, AB, T4V 1V7, on or before 12:00 noon, Friday, April 28, 2017, and shall be accompanied with GST number and a certified cheque or bank draft payable to Farnham West Stolee Kambeitz LLP in trust for 10% of the tender price. No conditional tenders will be accepted and the highest, or any tender, will not necessarily be accepted. Tenders will not be opened in public. The deposits of all unsuccessful tenderers will be returned to them by mail. The successful tenderer shall be obligated to complete the purchase on or before **Friday, May 19, 2017**. The 10% deposit shall constitute a deposit towards the purchase price. For further info, or to view the property, please contact Gary Boden, 780-679-6665.

SASKATCHEWAN
6133

FOR **CASH RENT:** Farmland South of Biggar, SE-03-34-14 W3, SW-03-34-14 W3, NW-35-33-14 W3. Call 250-248-0083.

RM OF WILTON For Sale by Tender with bids closing June 13, 2017. 155 cult. acres with surface lease revenue. MLS #58248. More info. contact Vern McClelland RE/MAX Lloydminster, 780-808-2700.

SMALL FARM, RM Prairiedale - Smiley, SK on hwy 307. 152 acres, oil leases, water, machinery, private location. 403-986-3280

LAND FOR LEASE, RM of Turtle River: SE-25-49-19-W3, 57 cult. acres and 98 acres native rangeland with creek; NE-25-49-19-W3, 105 cult. acres and 40 acres native rangeland. For more info., terms, and conditions call 306-446-2379 or 306-441-6592. All written offers be submitted by April 25, 2017 to Box 694, North Battleford, SK., S9A 2Y9

LOOKING FOR THREE or more sections of farmland to list. Have Buyers. Contact Earl Cooper 306-241-7751 or Reg Kotlar 306-221-1880 at Sutton Group Norland Realty Ltd., Saskatoon, SK.

DWEIN TRASK REALTY INC. Langham, SK. full quarter of land with 143 acres cultivated, FMV = 56,000. Just 2.5 miles south of Langham and 1.4 miles west. Priced to sell! \$279,900. Call Dwein today at 306-221-1035.

FARMLAND FOR SALE: 13,080 acres, Assiniboia, SK. area, approx. 10,000 cultivated acres and the rest mainly native grass, \$17,500,000. Also 7440 acres lease assignable to a qualified party w/the above package for a total of 20,520 acres. 8 quarters near Kipling, SK all in a block with well kept yardsite. Was \$2,250,000, now reduced to \$1,999,000. Harry Sheppard, Sheppard Realty, call 306-352-1866 cell, 306-530-8035, Regina, SK. To view listings and others go to www.sheppardrealty.ca

160 ACRES near Regina with yard and business opportunity; 15 acres w/large character home, plus 2nd home on property within 35 miles of Regina or Weyburn on Hwy. #35; 160 acres w/large home, 3 car heated garage, large shop, horse barn, plenty of water, 20 min. NE of Regina.; Near Pilot Butte, 80 acre development land; 90+ acres, Hwy. #11, 7 mi. North of Saskatoon, development; RM Perdue, 2 quarters W. of Saskatoon on Hwy #14; 2 miles East of Balgonie Hwy. #1, 145 acre development land. Brian Tiefenbach 306-536-3269, Colliers Int., Regina, SK. www.collierscanada.com

WANTED: UP TO 100 quarters of grain land. Will the party that phoned with 75 quarters, please call back. 306-221-2208.

RM CANWOOD #494, 3 quarters: Grain, pasture and hay, 265 acres cult. On school bus route. UG power and phone on 2 good yard sites, 2013 assessment 203,700. 306-747-2775 after 6 PM, Shellbrook, SK.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

SASKATCHEWAN
6133



FARMLAND AUCTION: 2 quarter sections of farmland in the RM of Benson #35, SE 01-04-07 W2 and SW 01-04-07 W2. Don Biette land and farm equipment auction Monday April 17, 2017. Bienfait, SK. area. Visit www.mackauctioncompany.com for sale bill and photos or join our FB page. Phone 306-421-2928 or 306-487-7815 MACK Auction Co. PL 311962.

LAND FOR SALE - Kindersley RM #290: SW 27-28-24 W3 (25 ac. crop, 49 ac. hay), NW 27-28-24 W3 (160 acres crop land), NE 28-28-24 W3 (160 acres crop land), SE 28-28-24 W3 (98 ac. crop, 21 ac. hay), SW 28-28-24 W3 (57 ac crop, 85 ac. hay), NE 29-28-24 W3 (80 ac. crop, 15 ac. hay), SE 32-28-24 W3 (160 acres crop land), NW 35-28-24 W3 (80 acres crop land), East 1/2 of SW 35-28-24 W3 (80 ac. crop), NE 10-29-24 W3 (160 acres crop land), NE 26-28-25 W3, 40 ac. crop, 87 ac. hay), NW 22-28-24 W3, (80 ac. house and shed, 7 acres tame hay). Call 306-463-3132, Email: blkm@sasktel.net

FARMLAND FOR SALE in Kipling, SK. area, RM 124. 7 quarters with 1000 cult. acres, 1400 sq. ft. home w/double att. garage, nat. gas heat, built in 1995, heated shop, quonset, seed cleaning plant including weigh scale and ample grain storage (21 bins total). 306-736-2850, 306-735-7575.

BY TENDER: RM OF ARM RIVER #252, SW 25-27-27-W2. Highest or any tender not necessarily accepted. Please submit tenders to: Box 459, Davidson, SK., SOG 1A0

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards' 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

RM HAZEL DELL #335. 419 acres chemical free farmland all in one block. Private setting. Older mobile home, good water. Info phone 306-814-0014, Preeceville, SK.

RM 273 SLIDING HILLS, 1 quarter farmland, SW-25-30-01-W2, 155 cult. acres, stone free. 306-542-3125, Kamsack, SK.

RM OF FOAM LAKE #276 for sale NE-18-29-11-W2nd, 160 acres (145 cult.), along Hwy. #310. Mostly oats and barley grown on it. Info. call 306-272-4704.

SE & SW 18-42-27 W2: 220 ac. Alfalfa. Steel quonset, water, 45 mins. from Saskatoon. Must sell! \$240,000. 306-269-7740.

LAND FOR SALE: **RM Of Wallace #243**. NW-14-27-01-W2. 160 acres (140 cult.). Phone 204-414-4129.

PASTURES
6136

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

NOW Available

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

PASTURES AVAILABLE for grazing season 2017. Small or large group. References available. Ph. 306-937-3503, Cando, SK.

ACREAGES
6139

12 ACRES OF LAND, Smiley, SK. Water and sewer available. Commercial or residential. In oilfield, on Hwy 307. 403-986-3280.



RM OF BIGGAR, \$580,000. This acreage has 9.8 acres, a 3 bdrm, 2 bath home, dbl. att. garage. The home has been 90% renovated inside & out over the past 2 years. 32x50' heated shop with 3 bays. Back yard has 60x100' metal clad pole shed, 33x66' steel quonset and older 30x75' wood straight wall shed. Excellent location, 8 miles north and 3 miles west of Biggar, SK. MLS® 586422. Wally Lorenz, Realtor, Reg/Max of the Battlefords, 306-863-7898.

SASKATCHEWAN
6133

ACREAGES
6139



REDUCED! RM KELVINGTON 366, 1998 custom built 1800 sq. ft. bungalow, attached garage, AC, 3 bdrms., 2 baths completely finished basement with 2 bdrms., bathroom, large family room, laundry room, cold room and second kitchen. 40x80' insulated heated shop. 240 acres of game fenced land w/spring fed well and private lake. Great spot for hunting, fishing, snowmobiling, located 2 miles from Greenwater Provincial Park. For more info. call 306-278-2141, Porcupine Plain, SK.

RECREATIONAL VEHICLES

CAMPERS/TRAILERS
6164

2013 FOREST RIVER Rockwood Signature, SN #8289WS, excellent cond., used only once, \$39,900. 403-932-7327, Cochrane, AB. email: dalmanc@xplornet.ca

2007 KEYSTONE EVEREST 36' 5th wheel, 4 slide-outs, TV, fireplace, AC, queen bed, sleeps 4, large shower, lots of storage, exc \$20,000. 403-931-3217, Millarville, AB.

MOTOR HOMES
6166



2017 COMPASS 23TR, #HKA37814, Retail \$145,272. Sale \$104,900. AMVIC Lic. Dlr. Call 1-866-346-3148 or shop online 24/7 at: allandale.com

2002 MONACO SIGNATURE Series diesel pusher with tag axle. Don Biette Land and Farm Equipment Auction, Monday April 17th, 2017. Bienfait, SK. area. Visit: www.mackauctioncompany.com for sale bill and photos or join our FB page. Phone 306-421-2928 or 306-487-7815, Mack Auction Co. PL 311962.

SNOWMOBILES
6168

BAKUS RACING HAS lots of 2011-2015 used Polaris Pro parts. Shipping available. Call 250-838-7611, Mara, BC.

PARTS FOR VINTAGE snowmobiles, 1990 and older. Call Don at 780-755-2258, Wainwright, AB. doncole@mcsnet.ca

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NOTICE TO SEED ADVERTISERS

The Seeds Regulations prohibit the advertisement or sale of common seed of the major crop kinds by variety name. A variety name may only be applied to pedigreed seed that has been grown, processed, sampled, tested and graded as set out in the Seeds Regulations. Furthermore, seed of unregistered varieties of the crop kinds subject to variety registration may not be sold in Canada even when labelled as common seed.

For more information contact the Canadian Food Inspection Agency. Seed Section at: seedsemence@inspection.gc.ca or phone 1-800-442-2342

CEREAL SEEDS

BARLEY
6404

CERT. REG. CDC Copeland. Volume and cash discounts. Please text or call Jeff at Sopatyk Seed Farms, 306-227-7867, Aberdeen, SK. jeffsopatyk@me.com

AAC SYNERGY BARLEY, Certified Seed Strathmore Seed Plant, 403-934-3421 or straseed@ccwireless.ca

CDC COPELAND BARLEY, reg. and cert., top quality seed. Gregoire Seed Farms Ltd, North Battleford, SK., 306-441-7851, 306-445-5516. gregfarms@sasktel.net

TOP QUALITY CERT. #1 CDC Copeland, AC Metcalfe, Newdale. Frederick Seeds, 306-287-3977, Watson, SK.

SASKATCHEWAN
6133

BARLEY
6404

CERTIFIED #1 METCALF, Pratchler Seeds Farm, 306-682-3317 or 306-231-5145, Muenster, SK.

REG., CERT. CDC COPELAND, AC Metcalfe. Call for early order and bulk discount pricing. Visa, MC, FCC financing. Custom treating available. LLSEEDS.CA, 306-530-8433, Lumsden, SK.

CERTIFIED CDC AUSTENSON barley. Call Ennis Seeds 306-429-2793, Glenavon, SK.

CERT. #1 **COPELAND**, 95% germ., 94% vigor, 0 fusarium. Sandcock Seed Farm, 306-334-2958, Balcarres, SK.

CERTIFIED #1 **LEGACY** (6R). Call Fenton Seeds, 306-873-5438, Tisdale, SK.

CERT. AC METCALFE, AC Newdale, CDC Copeland, Legacy, CDC Austenson, CDC Maverick. **Van Burck Seeds**, Star City, SK 306-863-4377. www.vanburckseeds.ca

AC METCALFE, Reg. CDC Copeland; Cert. and Reg., low fusarium/graminearum. Terre Bonne Seed Farm, 306-921-8594 or 306-752-4810, Melfort, SK.

CERT. CDC AUSTENSON feed barley. Call Trawin Seeds, 306-752-4060 Melfort, SK. www.trawinseeds.ca

CERT. CDC COPELAND, AC Metcalfe barley. Call Trawin Seeds, 306-752-4060 Melfort, SK. www.trawinseeds.ca

CERTIFIED # 1, high germ, 0-3% fus.: AAC Synergy, AC Metcalfe, CDC Copeland, Legacy. **Seed Source**, Archerwill, SK, 306-323-4402.

CERT. #1 AAC Synergy, CDC Copeland, excellent quality. Northland Seeds Inc., 306-324-4315, Margo, SK.

CERTIFIED #1: CDC Copeland; CDC Maverick and CDC Austenson. **Fedoruk Seeds**, 306-542-4235, www.fedorukseeds.com Kamsack, SK.

#1 REG., CERT. CDC Austenson feed, 99% germ., 97% vigor; Malt Barley, Reg., Cert. CDC Kindersley and Metcalf. Call Andrew 306-742-4682, Calder, SK.

CORN
6406

DE DELL SEEDS INC. high yielding grain corn, high yielding silage corn, proven in the prairies. The leaders in non-GMO technology. Prairie dealer. Beausejour, MB. Free delivery. Call 204-268-5224.

DURUM
6407

CERT. AAC SPITFIRE, ACC Marchwell VB. Myles, Fox Family Farm 306-648-8337 Gravelbourg, SK. www.foxfamilyfarm.ca

OATS
6410

CDC BOYER, CERT. #1, 99% germ., 96% vigor, produces plump seed, good for greenfeed and milling. Stoll's Seed Barn Ltd., 306-493-7409, Delisle, SK.

EXCELLENT QUALITY CERTIFIED #1 CS Camden, Summit, CDC Minstrel, CDC Ruffian, CDC Orrin. Frederick Seeds, 306-287-3977, Watson, SK.

CERTIFIED #1 AC MORGAN, 0% fusarium/graminearum, 95% germ., 98% vigor. Lepp Seeds, 306-254-4243, Hepburn, SK.

CERTIFIED #1 CDC RUFFIAN, AC Leggett, CDC Orrin. Call Fenton Seeds, 306-873-5438, Tisdale, SK.

CERT. CDC RUFFIAN, CDC Minstrel, AC Morgan. **Van Burck Seeds**, Star City, SK 306-863-4377. www.vanburckseeds.ca

CERT. CS CAMDEN milling oat and CDC baler forage oat. Trawin Seeds, Melfort, SK., 306-752-4060. www.trawinseeds.ca

SUMMIT, CDC RUFFIAN, AC Morgan, Fdn. Reg., Cert. Terre Bonne Seed Farm, 306-921-8594, 306-752-4810, Melfort, SK.

CERT. #1 CS CAMDEN, Triactor, Souris. excellent quality. Northland Seeds Inc., 306-324-4315, Margo, SK.

CERTIFIED #1: CDC Haymaker; Summit; CDC Ruffian; and CS Camden. **Fedoruk Seeds**, 306-542-4235, Kamsack, SK. www.fedorukseeds.com

WHEAT
6419

CERTIFIED AAC PREVAIL, AAC Foray and AAC Pasture. Volume and cash discounts. Please text or call Jeff at Sopatyk Seed Farms, 306-227-7867, Aberdeen, SK. Email: jeffsopatyk@me.com

ALFALFA
6425

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WHEAT
6419

CERTIFIED AAC BRANDON, AAC Jatharia Grant, Greenshields Seeds, 306-746-7336, 306-524-4339, Semans, SK.

AAC JATHARIA VB, certified #1, midge tolerant, high yielding. Stoll's Seed Barn Ltd., Delisle, SK. 306-493-7409.

CERT. CDC Plentiful, MR fus. resistance AC Andrew, AC Enchant VB & AC conquer VB. 306-843-2934 Wilkie SK. www.herle.ca

EXCELLENT QUALITY CERTIFIED #1 AC Andrew, Cardale, CDC Utmost. CDC Plentiful, Muchmore, AAC Elie, AAC Connery, AAC Brandon, Elgin ND. Frederick Seeds, 306-287-3977, Watson, SK.

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CERT. #1 AAC BRANDON, Unity VB, Vesper VB, Shaw VB, Carberry, Waskada, AC Barrie. 96% - 99% germ., 0% gram./fus. Lepp Seeds, 306-254-4243, Hepburn, SK.

CERTIFIED CDC Utmost VB, CDC Unity VB, Goodeve VB, Lillian, Waskada. High germ., 0 - 0.5 disease. Call Palmier Seed Farms, Lafleche, SK., 306-472-7824.

CERTIFIED AAC Prevail, AC Shaw, AC Unity, Cardale, CDC Plentiful. Yauck Seed Farm, 306-484-4555, Govan, SK.

CERTIFIED AAC CARBERRY and AC Shaw VB. 0% FHB. Contact Ennis Seeds 306-429-2793, Glenavon, SK.

CERTIFIED #1 CDC Plentiful, Cardale, Elgin ND, Goodeve VB, Vesper VB. Fenton Seeds, 306-873-5438, Tisdale, SK.

CERTIFIED CARDALE, AAC Redwater, CDC Plentiful, CDC Utmost, Pasteur. **Van Burck Seeds**, 306-863-4377, Star City, SK. www.vanburckseeds.ca

0% FUSARIUM, high germ, exc. quality #1 HRS carry over. Reg. and Cert. AC Brandon, AC Carberry, AC Shaw VB, AC Vesper VB, Osler. Terre Bonne Seed Farm, 306-921-8594, 306-752-4810, Melfort, SK.

CERT AAC JATHARIA VB CWRS, Brandon Plentiful, Utmost VB. Melfort, SK. Trawin Seeds, 306-752-4060 www.trawinseeds.ca

CERT. # 1, high germ, low fus: AAC Cameron VB, AAC Jatharia VB, CDC Utmost VB, AAC Brandon, CDC Plentiful. **Seed Source** Archerwill, SK, 306-323-4402.

CERTIFIED #1 **AAC Brandon HRS**, high germ., low fusarium germ. Seed Source, 306-323-4402, Archerwill, SK.

CERTIFIED #1 - High germ., low disease: AAC Brandon; CDC Plentiful; CDC Utmost VB; Cardale; AAC Connery; AAC

FLAX 6413

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CERTIFIED #1 CDC Sorrel, AAC Bravo. Fenton Seeds, 306-873-5438, Tisdale, SK.

CERTIFIED CDC SORREL. Van Burck Seeds, 306-863-4377, Star City, SK. www.vanburckseeds.ca

CERT. GLAS, CDC Sorrel, CDC Bethune flax. Trawin Seeds, Melfort, SK., 306-752-4060. www.trawinseeds.ca

PULSE CROPS

BEANS 6419

HAVE WET FIELDS? Try Faba beans! Cert. CDC Snowdrop, small seed, zero tannin. 306-843-2934, Wilkie, SK. www.herle.ca

CONVENTIONAL SOYBEANS: AAC Edward, OAC Prudence - Certified, Reg., Fdn. Not glyphosate tolerant. Big Dog Seeds, 306-483-2963, Oxbow, SK.

CERT CDC Blackstrap (early); CDC Super-jet; CDC Jet. High germs. Martens Charolais & Seed, 204-534-8370, Boissevain, MB

LENTIL 6455

New Variety

CERT. REG. FDN. CDC Impulse and CDC Proclaim red lentil seed. Higher yielding than Maxim. Volume and cash discounts. Please text or call Jeff at Sopatyk Seed Farms, 306-227-7867, Aberdeen, SK. Email: jeffsopatyk@me.com

NEW CERT. CDC Proclaim CL red lentil 306-843-2934, Wilkie, SK. www.herle.ca

CERTIFIED CDC IMPALA, CDC Maxim red lentil. Call Palmer Seed Farms, Lafleche, SK., 306-472-7824.

CERT. #1 CDC IMPULSE CL red lentil. Highest yielding Clearfield red lentil. Call 306-465-2525, 306-861-5679 Hansen Seeds, Yellow Grass SK. js2@sasktel.net

CERT. #1 CDC Maxim red, 98% germ., CDC Improve green, 96% germ. Don Schmeiling, Riceton, SK., 306-530-1052.

CERTIFIED #1 CDC Impala (small red) Clearfield. Fenton Seeds, 306-873-5438, Tisdale, SK.

CERTIFIED CDC MARBLE, dark speckled lentils. Call Grant, Green Shields Seeds, 306-746-7336, 306-524-4339, Semans, SK

PEAS 6458

CERTIFIED CDC AMARILLO. Volume and cash discounts. Please text or call Jeff at Sopatyk Seed Farms, 306-227-7867, Aberdeen, SK. jeffsopatyk@me.com

CERTIFIED CDC Amarillo, CDC Limerick, CDC Greenwater, CDC Mosaic. Phone Grant, Green Shields Seeds, 306-746-7336, 306-524-4339, Semans, SK

GREEN PEAS: CDC Raezer, CDC Limerick, CDC Greenwater, Fdn., Reg. and Cert. on all, top quality seed. Gregoire Seed Farms Ltd, North Battleford, SK., 306-441-7851, 306-445-5516. gregfarms@sasktel.net

CERTIFIED ABARTH European variety, better standability and disease package. 306-843-2934, Wilkie, SK. www.herle.ca

CERTIFIED CDC PATRICK green peas. Call Palmer Seed Farms, Lafleche, SK., 306-472-7824.

CERTIFIED #1 CDC Amarillo and CDC Meadow. Fenton Seeds, 306-873-5438, Tisdale, SK.

NEW CDC GREENWATER, Patrick green, CDC Amarillo yellow, Reg., Cert. avail. Terre Bonne Seed Farm, 306-921-8594, 306-752-4810, Melfort, SK.

CERTIFIED #1 CDC Amarillo, high germ. and quality. Seed Source, 306-323-4402, Archerwill, SK.

CERT.#1 CDC Limerick and Cooper, excellent quality. Northland Seeds Inc., 306-324-4315, Margo, SK.

REGISTERED CERTIFIED CDC Greenwater; Certified CDC Striker. Martens Charolais and Seed, 204-534-8370, Boissevain, MB.

SPECIALTY CROPS

CANARY SEEDS 6461

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REG. AND CERT. CDC CALVI, great standability, excellent quality. Northland Seeds Inc., 306-324-4315, Margo, SK.

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MUSTARD 6467

MUSTARD SEED FOR SALE! Looking for off grade mustard, lentils or chickpeas. Custom color sorting of all types of crops. Ackerman Ag Services, 306-638-2282, Chamberlain, SK.

COMMON SEED

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OATS. 98% germination. call Wayne 306-248-7720, St. Walburg, SK.

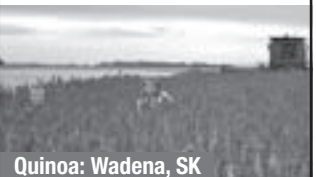
MALT ACCEPTABLE 2-ROW barley seed, 98% germ., 0% fusarium/graminearum. 306-893-7068, Paynton, SK.

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TOP QUALITY ALFALFA, variety of grasses and custom blends, variety to farmer. Gary Waterhouse 306-874-5684, Naicam, SK.

GRASS SEED, ALFALFA CUBES, Live-stock pellets and bedding. Cubes: \$250, 500 kg tote; \$12.70, 20 kg bag; Bulk available. Bulk livestock pellets. Bedding shavings. Grass seed dealer. Delivery available. 780-201-2044, Bonnyville, AB. Email: info@tncfeedsandbrushing.com

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HAY TECH COMMON alfalfa seed, bred for hybrid vigor, \$3.65/lbs. Dennis Dylke, 780-374-3877, Daysland, AB.

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