

AROUND THE FARM

WHAT'S THE LATEST AND GREATEST IN TRACTORS? | 53



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FIRE RECOVERY

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GETTING ON BOARD

SPECIAL REPORT | Why are there so few women on agricultural boards, and what is being done to change that? **SEE PAGES 46-49**

Are women under-represented on agricultural boards on the Prairies, and should more be done to close the gap? Kelly Smith-Fraser, who ranches near Pine Lake, Alta., and is Alberta Beef Producers' finance chair, says all that should matter is whether the right person is appointed to the right job. Edmonton reporter Jeremy Simes examines the issue in this week's edition of *The Western Producer*. His story can be found starting on page 46. | JEREMY SIMES PHOTO

RURAL CRIME

Dumped canola kills cattle

Treated seed left in pasture remains a mystery

BY WILLIAM DEKAY
SASKATOON NEWSROOM

HARRIS, Sask. — Bill Laing has never seen anything like it in his 40 years of farming.

"It's just something that doesn't happen," he said.

A pile of treated canola seed that he discovered lying on the ground in a pasture Oct. 24 killed his Black Angus bull and two pregnant Charolais cows.

"When I was driving out of the pasture, I could see some blue stuff by the gate in a low spot," said Laing, who has a commercial cow-calf operation northwest of Harris.

"Here's about 15 to 20 bushels of blue canola. Who the hell would dump that in there?"

He said parts of the pasture used to be quarried for gravel but that operation has long been closed.

SEE DUMPED CANOLA, PAGE 5 >>

SUBJECTIVE VERSUS OBJECTIVE

Grain grading under review

The Canadian Grain Commission plans to focus on specifications rather than a number system

BY SEAN PRATT
SASKATOON NEWSROOM

The Canadian Grain Commission is quietly conducting a major review of Canada's grain grading system.

In the fall, the commission formed a Grading Modernization Consultation Group comprising representatives from grain companies and producer groups to review all aspects of grain grading in Canada.

There was no news release or public notification that the review

was underway. The commission said it is an internal process involving the standards committees.

One of the primary thrusts of the review is to consider moving from a subjective grading system to more of an objective one involving tests and numerical values assigned to factors such as falling number.

Tom Steve, general manager of the Alberta Wheat Commission, said it is a natural evolution for buyers to pay for grain based on specifications rather than the number-based grading system.

In fact, it's already happening at

some elevators.

"We need to move to a system where the value that the farmer gets needs to match what the commodity is actually being sold as to the end use customer," he said.

Steve said a lot of wheat crops last year received rain at harvest and looked awful, but the falling number met specifications and farmers should have been rewarded for that.

He applauded the commission for undertaking the review, but wishes it would have made it a more public process with input

from a broader spectrum of the grain industry.

Wade Sobkowich, executive director of the Western Grain Elevator Association, said there is a reason grain companies buy based on numbered grades and sell based on specifications.

"It's an organized way to purchase grain in the system versus buying on specification with a different value for every permutation of specifications that might come forward," he said.

SEE GRAIN GRADING, PAGE 4 >>



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WHAT'S IN THIS ISSUE



Remembrance Day: Malcolm McLean made a name for himself as a pilot in the Second World War. See page 17. | HATHAWAY FAMILY PHOTO

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FEATURES



LEST WE FORGET

Our Farm Living section this week features Malcolm McLean from near Dewberry, Alta. Do you have any stories or photos of farmer/vets to share?



#HARVEST17 WINNERS

It wasn't easy choosing a winner from among the more than 500 entries we received. Check out the winning image and the other finalists.



GRAIN GRADING POLL

The Canadian Grain Commission is quietly conducting a major review of Canada's grain grading system. How do you feel the system could be improved?

VIDEOS

ENTREPRENEURS

Ed White visits farmers and rural entrepreneurs Tim and Lena Penner near Winkler, Man.



MARKETS WRAP

WP Markets editor D'Arce McMillan looks at the week's top developments in crop markets.



▶ **PLUS:** Check out this week's Special Report on the lack of women serving on ag boards, and what is being done to change that. Visit us at www.producer.com or chat with us on social media.



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GENE RESEARCH

Hybrid wheat breakthrough may boost yields

Genome sequencing allowed researchers to pinpoint the gene responsible for sterility, allowing cross pollination

BY SEAN PRATT
SASKATOON NEWSROOM

A breakthrough discovery by Australian researchers is making it easier to bring hybrid wheat to farmers.

Researchers at the University of Adelaide found a naturally occurring gene that, when turned off, eliminates self-pollination and allows for cross pollination in wheat plants.

"That is the core element for being able to do hybrid breeding," said Ryan Whitford, hybrid wheat program leader at the University of Adelaide.

"You need to do cross pollination en masse, like at a commercial scale."

Wheat is a self-pollinating crop but the university had mutant lines of wheat that were male sterile and

able to cross pollinate.

The challenge was identifying which gene in those plants was responsible for the sterility. Researchers have been trying to do that since the 1960s.

The tool that made it possible was the sequencing of the wheat genome.

But it still took more than four years to find the elusive gene due to the complexity of the wheat genome.

The gene has been incorporated into DuPont Pioneer's hybrid wheat program.

"Wheat genetics are very complicated," Marc Albertsen, DuPont's research director, said in an email.

"The Ms1 gene is unique in that it functions as though it were in a simpler genetic background."

Wheat genes typically require variants in three pairs of chromo-



MARC ALBERTSEN
DUPONT

somes to exhibit an altered trait. In Ms1, only a single pair of chromosomes was required.

DuPont is using the gene in its Seed Production Technology (SPT) hybrid breeding system.

"Cloning this gene has enabled the use of SPT, a superior system for producing hybrid wheat that does not limit the breadth of potential parents that could be used to pro-

duce the most productive hybrids possible," said Albertsen.

DuPont hopes to commercialize hybrid wheat in the next 10 years. Syngenta hopes to have its hybrid wheat on the market by 2020.

Whitford said European companies have used chemicals to induce male sterility in wheat plants but if they get the dosage wrong or wind or rain disrupts the process, it results in poor quality hybrid seed.

"That is really a commercially risky approach," he said.

Using genetics to introduce male sterility ensures large-scale cross pollination and good quality hybrid wheat seed that is no different than corn and canola hybrids.

Whitford said the technology is classified as a new breeding technology and does not result in genetically modified seed being

sold to farmers or consumers.

Wheat yields have lagged far behind corn yields, growing by slightly more than one percent a year.

The hope is that hybrid wheat will provide a 10 to 15 percent yield boost over conventional varieties.

"I will be really excited when this is actually used and getting out to the growers," said Whitford.

Hybrid seed loses its effectiveness after one generation, so farmers can't save the seed for next year.

That means increased return on investment for wheat breeding companies, which in turn will lead to more research and development expenditures, he said.

"They will be able to make greater yield gains and try and catch up to what has been seen in corn."

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An upswing in construction of permanent on-farm storage may also explain why fewer grain bags are being seen. | FILE PHOTO

STORAGE REQUIREMENTS

Fewer grain bags reflect smaller prairie crop

That's the case in the southern Prairies, but bag sales have been brisk in the north, where the crop is larger

BY SEAN PRATT
SASKATOON NEWSROOM

Portions of the prairie landscape are not as white as usual this time of year and that's not a reference to snow.

A poster named Saskfarmer3 on Agriville's Commodity Marketing forum said he recently drove from Balgonie, Sask., to Brooks, Alta., and could count the number of white grain bags on his fingers and toes.

He believes that is a sign that the canola crop isn't as big as analysts suggest.

Companies that sell grain bags say this year's sales are, well, a mixed bag.

"I know for our southern dealers it was definitely way down compared to normal," said Craig Yeager, owner of GBC Equipment in Humboldt, Sask., a company that sells Hitec grain bags.

That is because drought impacted yields in that region, reducing the

need for secondary grain storage.

But the reduced sales in southern Saskatchewan and Alberta have been more than offset by increased sales in the north due to plentiful crops in many regions.

Overall sales are as strong as they were last year when there was a huge crop harvested in Western Canada, said Yeager.

Todd Lewis, president of the Agricultural Producers Association of Saskatchewan, said he has noticed the dearth of bags in the southern part of the province because producers didn't get the big yields they had in 2013 and 2016.

"The other part is, heck, there's a lot of steel goes up every year," he said.

"There's shiny big bins around the country that I see, that's for sure."

Larry Weber of Weber Commodities has analyzed on-farm storage capacity in Western Canada based on Statistics Canada data. It was 71.2 million tonnes as of July 2016, up from 67.7 million tonnes a year earlier. Data for 2017 is not yet available.

He noted that is more than enough storage to handle this year's harvest of all grains, oilseeds, pulses and special crops in Western Canada, which totalled 66.8 million tonnes.

It is a big crop but not a bumper one like 2016 when farmers produced 72.5 million tonnes or 2013

when they harvested a whopping 77 million tonnes and caught the grain handling and transportation system off guard.

Curtis Chapman, president of Canadian Tarpaulin Manufacturers Ltd., a company that markets IpesaSilo grain bags, said sales are probably down about 10 percent this year but still above the five-year average.

He believes that is because the largest concentration of the company's business is in and around its headquarters in Saskatoon, where there was no drought.

"That's maybe why we didn't feel as big a hit as some of our competitors in the south," said Chapman.

He said there is a wide range of farmer opinion on using bags versus bins.

"Some people are married to what they've done in the past whereas others have switched completely over to grain bags and don't put any of their crop in the

bins," said Chapman.

Yeager said grain bags aren't just for secondary storage. Farmers are increasingly using them as a management tool during harvest. They allow busy operators to quickly store grain rather than trucking it back to the home quarter.

"A lot of the guys are using the baggers to get going in the fall," he said. "They can keep the wheels turning."

Lewis agreed that bags are a nice temporary storage option.

"It's a great tool for guys to use. It saves so much time. You get into a heavy crop and it's difficult to truck that sizable crop," he said.

Yeager said farmers are also finding bags to be good for straight-cut canola, which has a tendency to heat in bins.

"There is no oxygen in the bags, so it doesn't heat and it seems to keep the canola better," he said.

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THE 2017 HARVEST TOTALLED 66.8 MILLION TONNES, COMPARED TO 2013 WHEN IT TOPPED

77 million tonnes

GRAIN GRADING

» CONTINUED FROM PAGE 1

Sobkowich said the WGEA hasn't taken any formal position on the issue, but many challenges would have to be overcome in moving to a specifications-based grading system.

For instance, end use customers buy grain based on factors such as falling number, while companies buy it from farmers based in part on sprout damage.

That is because sprout damage provides an indication of falling number without having to invest in an expensive lab for testing samples.

Sobkowich wonders if farmers would be willing to pay for a system that requires testing when there will be no more overall value for the grain they deliver, just a redistribution of how they are paid.

Some of both

Commission spokesperson Remi Gosselin said it is unlikely that the numbered grading system will disappear altogether.

"Where grades continue to make sense, they will continue to be applied, but there are some areas where we could work in more flexibility," he said.

"While international trade of grain is increasingly based on specifications, most grain companies and producers support the grain grading system because it makes it easier to segregate in the bulk handling system and it keeps costs lower."

Gosselin said the review, which is in its early stages, is much broader than just the subjective-objective issue.

"Many aspects of the grain grading system have been identified as requiring attention," he said.

For instance, there will be a review of sampling procedures, the definition of commercial cleanliness and an exploration of fusarium damage and its relationship to end-use functionality.

"This review is about ensuring that the grain grading system continues to be relevant," said Gosselin.

The review will take two or three years with recommendations presented to the standards committees, which will ultimately determine if changes should be made.

Steve said that timeline doesn't sit well with his organization.

"Our preference would be to accelerate that," he said.

Former National Farmers Union president Stewart Wells doesn't see any problems with reviewing the grading system.

"I don't think there is anything to be nervous about with a review as long as people are paying attention," he said.

Wells said there is no question that the grain companies are paying attention.

"(They) are keenly aware and have highly skilled and highly paid lobbyists that are working on these files every day," he said.

The only thing Wells doesn't want to see is a gutting of the grain commission and a shifting of power to the grain companies.

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I'LL TAKE SOME OF THAT



A curious heifer checks out a fence adorned with tumbleweeds near Chamberlain, Sask. | MICKEY WATKINS PHOTO

SUSTAINABLE FOOD

Farmers renew call for national environmental farm plan program

A national plan would make each province equal on standards of sustainability

BY KAREN BRIERE

REGINA BUREAU

OTTAWA — Farmers say a national environmental farm plan could be a good base line tool for them, given the demands from consumers and the proliferation of sustainability programs from other players in the food chain.

Jason Lenz, chair of Alberta Barley from Bentley, Alta., said he still uses the EFP he completed in 2006 and admits it requires an update.



JASON LENZ
ALBERTA BARLEY

"At least once a year I go back to my EFP binder and use it as a reference," he told the second national EFP summit.

"I'm also starting to see how the national EFP may be able to be the go-to model for the delivery mechanism for sustainably

sourced food."

Lenz said an EFP could provide tangible proof to consumers and customers that farmers are doing their best to protect the environment and grow safe, healthy food.

EFPs have been available through federal-provincial programs for about 25 years, and about 70,000 farmers have completed them.

Each province delivers its own plans, and summit co-chair Drew Black, environmental policy director at the Canadian Federation of Agriculture, said the intent of a national program is not to replace them.

"This is not the nationalization of each EFP," he said.

Instead, it is about setting a base line of equivalency for environmental assurance so that producers who complete the plans in their own provinces are all considered the same.

"If we're looking to make some claims around sustainability, I think this is absolutely key," Black said.

Doug Sell, who operates a mixed farm on 3,000 acres north of Strathmore, Alta., completed his EFP about 12 years ago.

"What was neat to me was the fact that it made me as a food producer look at my operation very critically and analytically," he

told the meeting.

He said he knows his farm has become more environmentally sustainable since he began farming in 1978. The challenge is convincing consumers of that, he added, even though he can verify his practices.

"Can I expect an ever demanding consuming public to say, 'Farmer Doug ... is that good enough?'" he said.

"I think yesterday it was. Today and tomorrow, I'm not so sure."

Andrew Campbell, an Ontario dairy farmer and owner of Fresh Air Media, said producers are focused on protocols and procedures that make their farms environmentally sustainable.

"The problem that we really face is then we don't tell a single person about all that good stuff," he said, noting there is an illusion that communication has occurred.

Campbell is active on social media, and Lenz said he hosts tours for buyers and the public.

Lenz said farmers who have completed EFPs should talk about why they did so with their neighbours and others.

He and other speakers said farmers have to be involved in developing a national base line so that it meets their needs.

Sell said farmers no longer oper-

ate in isolation, largely because of social media, and are already late to the party in terms of telling their stories. An EFP could go a long way to meeting consumers' expectations.



LAWRENCE MACAULAY
FEDERAL AGRICULTURE MINISTER

Federal Agriculture Minister Lawrence MacAulay opened the summit by saying the Canadian brand of a clean environment is well recognized on his trips to other countries.

He said the Chinese middle class population is growing faster than Canada's, and they want safe, high quality food.

"If our EFPs are linked across the country, that will make our brand even stronger in the markets in China and around the world," he said.

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DUMPED CANOLA

» CONTINUED FROM PAGE 1

"It's private land and they're not supposed to be driving in there," he said. "The person who dumped there knew this spot."

Neighbour Dwein Trask owns the land and cows, and the bull belongs to Laing, who's been managing the herd for Trask.

He said the cows are valued at \$2,000 each and the bull at \$5,000, but there is no insurance.

Laing said he cut open the stomach of one of the dead cows on the day he found them and saw "piles of canola inside," which a local veterinarian confirmed soon after as the cause of death for all three animals.

Laing said it would have been a relatively fast death.

"It was both the treatment and the canola that killed them," he said.

The vet said this could linger on. The other ones could have liver damage in the wintertime and die. And they can abort any time right now, too. Only time will tell.

BILL LAING
HARRIS, SASK. PRODUCER

"The insecticide will kill them quick, but if they ate straight canola without the treated, that will kill them, too."

Treated canola is deliberately coloured blue as a safety precaution for farmers.

Laing estimated that 15 to 20 bushels of canola were dumped, which is expensive as well as a substantial amount.

"Not the small farmer, I'll tell you.... That's a lot of canola," he said.

"That's enough to seed 200 acres."

Laing has notified most of his neighbours and found a consistent reaction.

"All the farmers around here know the value of canola, and they can't think why anybody would do it," he said.

"If it was really old canola, they would definitely just bury it in their own land, not somebody else's where cattle can roam."

Dave Sparks, who works for Cargill and owns a neighbouring pasture, saw a sample of the canola



and believes it may be still good.

"I can't believe someone would throw that much money away," he said.

Sparks thinks the canola may have been discarded because it was either contaminated with gravel or it is an old variety that someone didn't want to grow.

However, tracing it back to the owner will be next to impossible, he added.

"I phoned different labs and they can't do a DNA test to figure out what variety it is. They can check to see if it's Liberty Link or Roundup Ready or if it's neither, but that's as close as they can get," he said.

"You'd think they could go do something better with it, which makes me think it's an old variety that's just not worth growing any-

more. I don't know.... Somebody screwed up."

RCMP investigated but have since closed the file for lack of leads or further evidence, Laing said.

Old tractor tires, fence posts and wire now cover the area where the canola was discarded, which is also covered in snow.

As well, Laing has since brought the remaining herd of 28 cows and calves home to his yard for the winter and is keeping a close eye for signs of poisoning.

"The vet said this could linger on. The other ones could have liver damage in the wintertime and die. And they can abort any time right now, too," he said. "Only time will tell."

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PRODUCER IS BAFFLED ABOUT WHY
SOMEONE WOULD DUMP

15-20 bushels

OF TREATED CANOLA



ABOVE: Bill Laing's Angus bull died as well as two pregnant Charolais cows owned by a neighbour after eating treated canola seed that had been dumped in a pasture northwest of Harris, Sask.

| WILLIAM DEKAY PHOTO

LEFT: Canola alone can be deadly to cattle but treated with an insecticide, it would kill them quickly, says producer.

| SUZ LAING PHOTO

Manitoba Co-OPERATOR

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FERTILIZER PRICES

Urea prices should cool this winter

Delayed opening of new production plants lifted prices, but new capacity will soon be available

BY SEAN PRATT
SASKATOON NEWSROOM

The recent run-up in nitrogen fertilizer prices is going to be short-lived, according to industry executives.

Prices have been rising in North America since late summer, despite a global oversupply of the ingredient.

Mark Fracchia, president of PCS Potash, said dealer inventories are down in the United States because they were anticipating new capacity coming online and driving down prices.

"However, we've seen some of that new capacity hasn't come on as planned. It has struggled a little bit," he told analysts listening to the company's third quarter results webcast.

As well, a surge of fertilizer exports from Louisiana have contributed to the temporary squeeze in supply.

"Across that whole nitrogen complex we have seen prices here react, and part of that has been due to the reluctance of people to engage the market for the last six to eight weeks, and now the market prices are reflecting that," said Fracchia.

However, PotashCorp president Jochen Tilk said the price rally won't last long.

"Prices improved late in the third quarter from multiyear lows, but we expect the ramp-up of new capacity will limit upside in the fourth quarter, keeping gross margin well below the prior year," he said.

Svein Tore Holsether, president of Yara International, expressed a similar view of the market during his company's third quarter webcast.

According to CRU, a business intelligence research company, 7.2 million tonnes of urea capacity was scheduled to come online this year, which is much more than that the average annual growth in



With new plants coming online, supply of urea will outweigh demand, keeping prices low. | FILE PHOTO

consumption of three million tonnes.

However, the supply increase was likely significantly smaller than that because of the closure of the largest plant in Algeria and delays in the construction of new capacity.

"This means that there's potential for significant supply increase in 2018, and therefore we do not see or expect a fundamental improvement in the global supply-demand balance outside China until after 2018," said Holsether.

CRU is forecasting 3.8 million

tonnes of additional urea capacity next year, but Holsether said it will be higher than that because of the spillover from 2017.

It isn't until 2019 that additional capacity of 2.1 million tonnes drops below the annual growth in consumption.

Prices improved late in the third quarter from multiyear lows, but we expect the ramp-up of new capacity will limit upside in the fourth quarter, keeping gross margin well below the prior year.

JOCHEN TILK
POTASHCORP PRESIDENT

China is of course the wild card in the urea market. It has significantly decreased production and exports of the product this year, helping reduce the global oversupply of urea.

Stephen Dowdle, president of PCS sales, estimates that China's plants are operating at 50 to 60 percent of capacity.

Urea exports are down about 50 percent at 3.6 million tonnes so far this year compared to 7.2 million tonnes in 2016.

"So there is obviously something going on," he said.

The Chinese government is cracking down on old, inefficient, polluting fertilizer plants. Higher production costs are also curtailing output and exports.

However, China is unpredictable and that could lead to further price volatility for the remainder of 2017 and 2018, said various executives.

Holsether said another market factor to consider is India, which in September started importing more than it did the same time last year.

Tilk said while the short-term outlook is for continued lacklustre urea prices, the long-term outlook is much different as all the additional supply is absorbed.

"Over a period of 24-plus months, we'll certainly see more (price) upside, there's no question," he said.

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CANOLA OUTLOOK

Canola sales make sense if looking for cash flow

BY ED WHITE
WINNIPEG BUREAU

If you have to cash out a crop right now, why not canola?

After strong counter-seasonal price gains recently, a weakened Canadian dollar and storage concerns, canola might be the crop to move.

That's what Adam Pukalo of P.I. Financial is telling his clients.

"I'm not sure how much higher

we're going to get," said Pukalo about January canola futures prices, which have risen from around \$490 per tonne in early September to almost \$520 recently.

Some of the support for that canola rally came from the falling Canadian dollar. It sold off from US83 cents in early September to

about 78 cents.

There's no reason canola can't go higher, and no reason the loonie can't fall further, but neither is a sure bet. And there is definite downside pressure for canola and a possibility the loonie could rise.

"I can see canola down another \$10 to \$15 (per tonne) to the \$500

level," said Pukalo.

Meanwhile, prices of other crops, including wheat, are weak, so selling them would not be taking advantage of strength.

"It's easier holding on to wheat long term," said Pukalo, noting some of his clients are worried about the potential for damp canola in their bins spoiling.

"There are moisture issues with holding it in the bin."

Farmers don't need to sell canola

out of fear that it is unreasonably valued. Stocks aren't huge and if more is consumed through the winter, there's a good chance for a rally to push canola futures back to last summer's peak territory.

"Maybe come springtime we see canola closer to that \$530 area," said Pukalo.

But for now, if cash is needed, selling canola isn't a bad idea.

ed.white@producer.com

SINCE SEPTEMBER THE PRICE HAS JUMPED
\$30 PER TONNE

GRAIN MARKETING

Hedging with U.S. futures and options tricky but possible

HEDGE ROW



ED WHITE

Finding perfection in futures markets is an impossible task.

However, brokers and traders say North America's main futures contracts can provide good risk management, even if they sometimes take a bit of engineering and TLC.

"A lot of times it's never going to be a perfect hedge, especially with wheat, but it's giving you some protection," said P.I. Financial broker David Derwin.

Western Canadian farmers have only one futures contract specifically designed for a crop they grow.

With the delisting of ICE Futures Canada's spring wheat, barley and durum contracts, only canola futures and options exist as contracts based on Canadian-grown crops with a delivery area in Western Canada, denominated in Canadian dollars.

All other contracts commonly used by risk managers are based in the United States, trade in U.S. currency and have many underlying U.S. assumptions. That makes them indirect hedges for Canadian farmers.

"It's not a straight-on hedge by any means," said Errol Anderson of Pro Market, about southern Alberta feeders using the Chicago corn contract to hedge their feedgrains exposure.

However, Anderson and Derwin both said they are confident using Minneapolis, Kansas and Chicago wheat contracts and happy with Chicago soybean and corn contracts.

If you get extreme price moves, you're buying into grain prices in general.

DAVID DERWIN
P.I. FINANCIAL

"It's the king of the grains," said Anderson about Chicago corn. Alberta feedlot operators import some U.S. corn and buy lots of barley, so feedgrain hedging is a constant interest for them.

Chicago corn futures aren't perfect for protecting Alberta-delivered corn prices, but they're close. And while barley values diverge significantly from Midwestern U.S. corn prices, corn futures can cover the biggest feed price moves and combining them with wheat contracts can sometimes approximate barley values.

"If you get extreme price moves, you're buying into grain prices in general," said Derwin.

For wheat, hedging is always a challenge. Not only are the three U.S. contracts traded in American currency, but also represent types and specifications of wheat that might not apply to grain a prairie farmer wants to hedge.

Protein levels and grade vary

widely within wheat crops, so using U.S. futures contracts can be an art in terms of pulling together a reliable hedge for the real world.

However, Derwin and Anderson said they are happy with U.S. wheat futures and options.

Both like using options.

Minneapolis hard red spring wheat options often offer a good hedge for Canadian prairie wheat growers, but the Minneapolis contract has much less trade than the Chicago soft wheat or Kansas winter wheat contracts. Anderson said that means hedgers using Minneapolis have to be patient.

"Sometimes there's a delay," he said about posting interest in an options contract.



ERROL ANDERSON
PRO MARKET

"It might take a couple of days."

Derwin said he'll also use Chicago oat options, even though many traders worry about the contract's low trading volumes.

"In an extreme price situation, you can still use them and still get

the benefit," he said.

The oat futures contract is not good at tracking small moves in the prairie oat cash market, but big changes in the underlying value of oat are ultimately reflected in the futures and options.

While ICE Futures Canada has only one crop futures contract left, it's a good one, the brokers said.

Canola futures and options work great for hedging.

"It is grown in Canada. It was developed here. It's in Canadian dollars," said Derwin.

The contract well reflects the commercial cash market situation in Western Canada, it trades robustly and there's no currency exchange situation to worry about.

Anderson said there are no problems getting into and out of futures positions, and it isn't difficult to find somebody for an options position.

"The canola options trade really well," said Anderson.

With the ending of Winnipeg's foray into spring wheat and durum futures, and the final killing shot given to the suffering barley contract, prairie farmers have fewer homegrown tools for risk management.

Indeed, farmers didn't use them even when they were available.

But marketing experts like Anderson and Derwin said the tools they have are good, even though they are not customized for the exact crops their clients grow.

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AGI

WHEAT IMPORTS

Relaxed rules on U.S. wheat imports under consideration

Imports will likely remain low but some fear it will hurt the Canadian grading system

BY SEAN PRATT
SASKATOON NEWSROOM

Canadian farmers have nothing to fear if Canada gives the United States wheat access to its grading system, say industry executives.

However, not everyone agrees with that sentiment.

U.S. Wheat Associates and the National Association of Wheat Growers have lobbied for years for fair treatment of American wheat.

Right now any U.S. wheat that crosses the border is automatically assigned a feed grade, even when it is a variety registered in Canada.

Bill C-48, which was legislation designed to modernize the Canadian Grain Commission, was going to address the inequity, but it was derailed by the 2015 federal election.

The issue recently resurfaced during the renegotiation of the North American Free Trade Agreement.

Stewart Wells, former president of the National Farmers Union, bristles at the notion that this is a trade irritant.

"It's being portrayed that way by



U.S. wheat groups say Canada's grading system is a trade irritant and is hindering U.S. exports. | FILE PHOTO

the same people who said that the Crow Rate was a trade irritant and we should just get rid of it," he said.

"And then when that was gone they moved on to the Canadian Wheat Board and said the Canadian Wheat Board was a trade irritant and we should just get rid of it."

Wells believes they are now targeting the commission and Canada's grading system.

"It's just a further deterioration of the Canadian system, which ends up meaning less money in the pockets of farmers."

Tom Steve, general manager of the Alberta Wheat Commission, said fears of Canada being inundated with American wheat are misplaced.

Canada typically exports 2.5 to three million tonnes of wheat and durum to the U.S. and imports only 50,000 tonnes.

"We don't need the wheat as badly as Americans need Canadian wheat. I think it's as simple as that," he said.

Canada produces more than enough wheat for its own purposes,

and U.S. wheat is disadvantaged by the exchange rate.

Steve said Canadian grades would be made available only to U.S. varieties registered in Canada, which are primarily three dark northern spring varieties growing in Manitoba and eastern Saskatchewan.

He said the issue is not worth causing a trade irritant with Canada's largest wheat customer.

"It just makes sense if we're wanting to have open access to their market that they should have some

opportunity to have their wheat graded under our system," said Steve.

Wade Sobkowich, executive director of the Western Grain Elevator Association, said allowing U.S. grain to receive a Canadian grade would not affect quality.

"If our main concern is preservation of the quality and the classes, then it really shouldn't matter if the variety is grown on Canadian soil or American soil," he said.

Sobkowich said it makes sense to allow U.S. wheat to receive Canadian grades as long as it is restricted to varieties registered in Canada.

He agreed with Steve that it wouldn't result in a flood of grain crossing the border. U.S. wheat is already sold at Canadian elevators based on specifications rather than grades.

However, very little of that U.S. grain flows north into an identity preservation system because the economics aren't there.

"It doesn't pencil out," said Sobkowich.

"We're not going to see a huge amount of U.S. wheat coming into Canada if this change were made."

Wells said if that's the case, he wonders why it has become this big of an issue.

"If no significant amount of U.S. grain is (going to be) coming in, what's the issue then? Why are they worried about it?"

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CANOLA FORECAST

Weak loonie, strong oil good for canola price

MARKET WATCH



D'ARCE McMILLAN

This fall we've had the unusual situation of the Canadian dollar falling while the price of crude oil rises.

Since Sept. 1, nearby U.S. oil futures rose about \$8.30 per barrel, trading Nov. 6 near US\$56.83, the highest since July 2015.

Oil rose on OPEC's success in limiting production and expectations that it will continue next year. Also, crude stocks fell in the U.S.

That would normally lift the loonie, but the market was focused instead on the declining chance of another interest rate hike because the Canadian economy is less robust than expected.

A weak loonie and strong oil tend to support canola prices, and they have, but remember that the loonie is still three cents stronger than last year at this point, so actually it is a negative factor for canola prices on a year over year comparison.

Still, canola values in October were \$20 to \$25 a tonne stronger than at the same time in the last three years.

That premium has disappeared as we move into mid-November and canola prices are about equal to last November. That seems reasonable if we look at supply and demand.

The trade believes total canola supply is the same or slightly more than last year.

And so far, total domestic and export demand is running slightly ahead of last year.

But other factors also affect canola prices, and as I look at them, I see conflicting positives and negatives.

The U.S. soybean crop is record large, but this week's U.S. Depart-

ment of Agriculture report was expected to show production was not quite as large as the forecast last month.

Brazil's soybean seeding started slow because large areas were dry and farmers waited for moisture to help seeds germinate.

But now rain has fallen and the seeding pace, while slower than last year, is equal to the long-term average.

Production of competing palm oil was expected to increase in the second half of this year as it recovers from the last El Nino. That would have weighed down the vegetable oil market.

However, production recovery is slow, and analysts have lifted their price forecasts, now seeing palm oil in Malaysia rising another seven to 10 percent by January before falling through the first half of 2018.

Follow D'Arce McMillan on Twitter @darcemcmillan or email darce.mcmillan@producer.com.

WP LIVESTOCK REPORT

U.S. HOGS LOWER

The weaker loonie helped support cash hog prices in Canada, but the U.S. market weakened on improving market-ready supply.

The U.S. national live price average for barrows and gilts was US\$48.93 per hundredweight Nov. 3, down from \$49.78 Oct. 27.

U.S. hogs averaged \$62.33 on a carcass basis Nov. 3, down from \$64.41 Oct. 27. The U.S. pork cutout was \$73.96 per cwt. Nov. 3, down from \$77.56 Oct. 27.

The estimated U.S. weekly slaughter for the week to Nov. 4 was 2.453 million, down from 2.526 million in the previous week.

Slaughter was 2.532 million last year at the same time.

In Canada, the average for the week to Nov. 4 Signature Five price was C\$154.83 per 100 kilograms, up from \$151.94 the week before.

On a per hundredweight basis, the average price was \$70.23, up from \$68.92 the week before.

BISON STEADY

The Canadian Bison Assoc. said Grade A bulls in the desirable

weight range sold up to C\$6-\$6.25 per lb. hot hanging weight. U.S. buyers offered US\$4.75 or more. Returns depend on exchange rates, quality and export costs.

Grade A heifers sold up to C\$5.75-\$6. U.S. buyers are offering US\$4.50.

LAMBS, SHEEP LOWER

Ontario Stockyards Inc. said 1,299 sheep and lambs and 39 goats sold Oct. 30. Poor quality light lambs fell \$10-\$15 cwt.

Heavy lambs fell \$5-\$7 cwt. Thicker sheep sold \$5-\$7 cwt. lower. Lean sheep fell \$5-\$10 cwt. Goats sold barely steady.

Beaver Hill Auction in Tofield, Alta., reported 1,105 sheep and 101 goats sold Oct. 30.

Wool lambs under 54 lb. were \$180-\$235 per cwt., 55 to 69 lb. were \$200-\$235, 70 to 85 lb. were \$190-\$218, 86 to 105 lb. were \$187-\$201 and 106 lb. plus were \$178-\$190.

Hair lambs lighter than 54 lb. were \$175-\$220 per cwt., 55 to 69 lb. were \$175-\$206, 70 to 85 lb. were \$176-\$195, 86 to 105 lb. were \$170-\$190 and 106 lb. and heavier were \$165-\$190.

CANFAX REPORT

FED MARKET RALLIES

The weaker Canadian dollar and rising cash cattle market in the United States drove the Canfax fed cattle averages sharply higher.

Fed steers averaged \$148.15 per hundredweight, up \$7.38, and heifers were \$147.77, up \$5.03.

The local market was not keeping pace with the U.S. rally.

The Alberta cash-to-Chicago futures basis widened to -\$11.91. The basis was about \$1 weaker than the five-year average for the week and was the widest since August 2016.

Most cattle sold were to be delivered within two weeks.

Fed cattle exports topped 9,000 head, which was the second largest weekly total this year.

Fed prices usually rally this time of year as supplies tighten and retailers buy for the holidays.

The strong pace of slaughter should support prices.

In the U.S., cash cattle in the south traded at US\$121-\$125, up from \$116-\$119 the previous week. Dressed trade was mostly at \$192-\$195 in the north.

Packer margins were good, giving them capacity to bid higher. Also, beef values should improve as demand for more expensive cuts rises into the holiday season.

COWS LOWER

Larger supplies at auction have kept prices in check.

D1, D2 cows ranged \$80-\$95 to average \$87.64, down \$1.44. D3 cows ranged \$70-\$85 to average \$78.33. Rail grade cows ranged \$170-\$175.

The average for D1, D2 cows in Ontario is more than \$20 lower, and younger Ontario cows might be shipped to Western Canada.

Bulls hit the lowest price since March 2014, at \$99.06, down \$1.03.

Some speculators are taking advantage of the low prices to buy

cows with an eye to hold them a few weeks to hit the Christmas or early new year market.

FALL FEEDER RUN PEAKS

Alberta auction volume was more than 105,000 head for the second consecutive week. The last time there were two consecutive weeks over 100,000 head was 2002.

Last year, the combination of lower calf prices and ample forage and feed grain stocks encouraged producers to carry cattle into the new year.

This year, stronger calf prices and higher priced and better quality grain have encouraged producers to sell calves much earlier.

The fall run has likely peaked, and with a large flush of calves already marketed, some feedlots may be getting close to capacity.

This could limit trade later this month and into December.

A few 30- to 45-day weaned calves were offered, and premiums have

been hard to come by.

Pre-conditioned feeder values will likely increase in coming weeks, or at least gain ground on fresh weaned calves.

Yearling volumes are seasonally declining, but the few sold are trading strong. Steers and heifers heavier than 900 pounds rose \$3-\$6 and traded at the highest point since February-March 2016.

Yearlings from Saskatchewan and Manitoba are going to Alberta to be fed.

Western Canadian calf and feeder prices remain at a premium to the U.S., which will limit export demand.

BEEF RISES

Canadian steer carcasses to Oct. 28 averaged 924 pounds, down five pounds from the previous week and about equal to last year. Heifer carcasses rose two lb. to 852 lb. That was 13 lb. more than last year.

U.S. steer carcasses are 16 lb.

lighter than last year.

U.S. Choice beef jumped US\$5.88 to \$208.25 Nov. 2, while Select was up \$1.25 at \$193.16.

Choice is now up \$20 over last year, and Select is up \$19.


Weekly Canadian cutouts to Oct. 28 rose 55 cents to C\$246.86 per cwt. on AAA and \$1.41 to \$234.19 on AA.

AAA was up \$15 from last year, and AA was up \$11 per cwt.

Stronger U.S. prices and a weaker Canadian dollar meant the AAA-Choice spread widened to -\$11.09 per cwt. from -\$1.54, while the AA-Select spread widened to -\$12.28 from -\$4.65.

This cattle market information is selected from the weekly report from Canfax, a division of the Canadian Cattlemen's Association. More market information, analysis and statistics are available by becoming a Canfax subscriber by calling 403-275-5110 or at www.canfax.ca.





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SWDC ELECTION

Candidate endorsements may not sway vote, but info useful

WESTERN PRODUCER EDITORIAL

Endorsements don't mean much during election campaigns. Witness what happened during the Conservative party leadership race when high-profile candidate Kevin O'Leary, who was leading in the polls, dropped out and endorsed the next-most popular candidate, Maxime Bernier — who then lost the leadership race to Andrew Scheer.

The issue of endorsements has emerged during elections for the Saskatchewan Wheat Development Commission, which represents 25,000 farmers in the province.

In an Oct. 2 Facebook post, vice-chair Dan Danielson endorsed four "progressive" candidates out of the 10 running for four positions in board elections. (The election deadline is Nov. 24. Danielson's position is not up for re-election this time.)

That is not sitting well with Saskatchewan Pulse Grower chair Morgan Nunweiler, who got into a Facebook debate with Danielson and another candidate — Glenn Tait (one of those endorsed by Danielson) — about the appropriateness of a sitting director endorsing candidates.

"Don't you have good governance policy at Sask Wheat preventing current directors from campaigning for specific candidates?" Nunweiler wrote.

He also pointed out that at "other commissions there are policies in place to prevent current directors from influencing and campaigning for candidates."

Tait responded that Nunweiler had a valid point, but that the issue had been discussed at the SWDC.

"The position that we came to at the end was that we had no right to gag board members on any topic (except privileged info, etc.) but it was still bad form to actively campaign," Tait wrote.

The SWDC's stance is relatively unusual, so Danielson is free to endorse.

In fact, there may be some merit to this. Voter participation in these elections is sometimes lower than 10 percent. The

SWDC is relatively new. Formed in 2013, the commission has been surrounded by politics since its inception. Some members didn't like the political persuasion of the elected directors in its inaugural elections, and the commission has steadfastly refused to join Cereals Canada. The debate centres around farmer versus industry representation, which is a discussion for another day.

Danielson's post has stimulated debate. Voters who are somewhat removed from the internal politics of the SWDC might be more aware of the intense debate over farmer versus industry membership at the SWDC, and who to vote for should they hold a position on the issue.

When this issue came up in 2015, after three new candidates formed "Team Wheat" to run for director positions, Saskatoon lawyer Nancy Hopkins told *Grainews* editor Leeann Minogue that the Canadian Coalition for Good Governance (CCGG) recommends that directors be independent of each other.

"You shouldn't have a board made up of people who tend to vote together," Hopkins said.

That's a valid, but somewhat idealistic position. So is the CCGG's proposal that independent directors meet regularly without non-independent directors present. Human dynamics can get in the way of such intentions.

It's hard to believe that a director endorsement will sway votes. Farmers are an independent lot by nature. They will make up their own minds. But if they're wont to consider the internal political debate that's going on at the SWDC, they might have a better idea where candidates stand because of Danielson's endorsements. More might even be spurred to vote. And that's not so bad.

Bruce Dyck, Barb Glen, Brian MacLeod, D'Arce McMillan and Michael Raine collaborate in the writing of Western Producer editorials.

CRAIG'S VIEW



WOMEN ON BOARDS



For me, it's more about having a group of diverse opinions than making sure we have a group of gender. I have no desire to see stronger gender equality, because our board is diverse, and it doesn't matter to me, man or woman, as long as they have knowledge or experience.

KELLY SMITH-FRASER,
ALBERTA BEEF PRODUCERS, PAGE 46

FOOD SECURITY CHALLENGES

Tackling hunger hindered by conflict, environmental disasters

CAPITAL LETTERS



KELSEY JOHNSON

More than half the world's population will suffer from some form of malnutrition by 2030 if greater action isn't taken, global leaders are warning.

"About one in three persons globally suffers from at least one form of malnutrition, be it hunger, micronutrient deficiencies or overweight and obesity," Food and Agriculture Organization Director-General José Graziano da Silva told G7 health ministers Nov. 6 during a meeting in Geneva. Malnutrition is a key item on this year's ministerial agenda.

"It is our collective responsibility to ensure that every person on this planet has access to food that is safe, sufficient and nutritious," he said.

World leaders had hoped to end world hunger by 2030, a daunting task that appears highly unlikely given the current state of food security internationally.

In its recent report on the state of food security and nutrition in the world, the United Nations' FAO said 815 million people, or about 11 percent of the world's population, went hungry last year.

That's up from 777 million in 2015, in part because of increased global conflict often located in rural agricultural areas, which has strained food supplies already affected by ongoing droughts.

"Over the past 10 years, the number of violent conflicts around the world has increased significantly, in particular in countries already facing food insecurity, hitting rural communities the hardest and hav-

ing a negative impact on food production and availability," the FAO report said.

The latest malnutrition figures come as farmers around the world try to figure out how they will manage to feed a global population expected to balloon to 10 billion people by 2050.

It's a challenging task — one that will likely become even more difficult given the rising number of conflicts in agriculturally dependent parts of the world.

Non-state conflicts (such as those between two organized armed groups of which neither is the government or a state) have jumped 125 percent since 2010, while state based conflicts have increased 60 percent over the same time period.

It's this violence, coupled with ongoing environmental disasters, that has spurred the global migration crisis.

It's a matter that dominated the G7 agriculture ministers meeting

in Italy in October, where officials tried to figure out the best way to feed those fleeing.

However, food security concerns are not limited to countries grappling with conflict, the FAO warned.

The growth of some 155 million children younger than five (or 22 percent of the reference population) has been stunted because of poor nutrition in some regions.

Another 40 million children, or six percent of the population, are overweight. In 2014, 600 million adults around the world were considered obese.

"Undernutrition, overweight and their associated non-communicable diseases now co-exist in many regions, countries and even households" the FAO said, a situation that results in a complicated situation for policy makers.

Here in Canada, data from Food Banks Canada shows 863,492 people relied on their local food bank in March 2016, with eight in 10

Canadian provinces reporting an increase in food bank use.

Conditions have also "deteriorated in some peaceful settings, particularly those affected by economic slowdowns," the FAO warned, while falling commodity prices have hit export figures and sent revenues declining.

"Thus food availability has been affected through reduced import capacity, while access to food has deteriorated in part due to reduced fiscal potential to protect poor households against rising domestic food prices."

Then there's the ongoing challenges created by climate change. In new UN data released Nov. 6, experts warned 2017 is likely to be one of the three hottest years on record. Meanwhile, rainfall on the Canadian Prairies was lower the average, the UN said.

Kelsey Johnson is a reporter with iPolitics, www.ipolitics.ca.

& OPEN FORUM

CANADIAN EXPORTS

Seizing opportunity in era of uncertainty

BY BRIAN INNES

With today's White House injecting uncertainty into how our trade-based economy will prosper in an age of protectionism, there's a huge opportunity for Canada to plot its own path instead of being held hostage by the latest tweet.

In the next few days, Canada will be at the table with Trans-Pacific Partnership countries in Vietnam, and the time is right for a deal.

Since the United States pulled out earlier this year, Japan and the other TPP11 partners have remained at the table.

However, the window to take the years of negotiation that went into the TPP and make it work is limited.

Just as we're seeing south of the border, things can shift quickly. And as other countries speed ahead with their own Asian bilateral trade agreements, seizing the advantage for Canada to have preferential access to the dynamic Asia-Pacific region is more pressing than ever.

The Asia-Pacific Economic Cooperation summit that is being held in Vietnam this week presents a perfect opportunity.

As negotiated, the TPP remains an agreement that offers huge export growth potential and one where Canada can lead.

By reducing or getting rid of tariffs on virtually all products, it would enable Canadian exporters to have a competitive advantage in the region.

Take Japan for example. It's a high-value market for Canadian agri-food products worth \$3.9 billion last year, despite the fact that their agri-food market is protected



Now that the U.S. has pulled out of the Trans-Pacific Partnership agreement, Canada should step up and take advantage of increased access to Asian markets, says a trade proponent. | FILE PHOTO

by high tariffs. The TPP would get rid of these tariffs and allow our exports to grow.

Unfortunately, it's not just about seizing opportunity; it's also about preventing us from sliding backward. Our competitors are well ahead of us in gaining preferential access.

To date, Canada's only free trade agreement in Asia is with South Korea. While the agreement has helped us be competitive, we initially lost badly when Canadian agri-food exports plunged by \$500 million overnight as we lagged behind our competitors in striking a deal.

The same thing is happening with Japan.

Australia, Mexico and Chile already have trade deals with Japan, and the Japan-European Union Economic Partnership Agreement will slash 85 percent of Japanese tariffs on European agriculture and food products.

The fortunate thing is that a deal could be on the table this week, and Canada is well-positioned to seize it. Doing so will increase exports and economic growth here at home.

It will also send a signal to the world that we will not be bullied into protectionism.

International Trade Minister François-Philippe Champagne recently said that Canada has a "diversification imperative" in our trade strategy.

We couldn't agree more.

Canada needs to chart its own destiny. We need to work toward a comprehensive agreement that's beneficial for all partners. Getting a TPP11 agreement on the margins of the APEC summit in Vietnam can help us do just that.

Brian Innes is president of the Canadian Agri-food Trade Alliance.

DELIVERING THE MESSAGE

Using media to influence

EDITORIAL NOTEBOOK



MICHAEL RAINE
MANAGING EDITOR

Get your ads. Buy them now. Get your red-hot advertising.

One media consumer is driving high-dollar ad buying on some U.S. TV networks — President Donald Trump. And the ads that are targeting this one, high-value consumer are now coming from agricultural interests.

Advertising drives much of the media, at least when it comes to paying the bills for things like editorialists, the folks who create *The Western Producer* for you each week.

Your credentials as professional farmers and the time you spend with the *WP* cause advertisers to buy space around our content.

That process is working overtime at television networks Fox News and MSNBC in the United States. Trump, through social media portal Twitter, lets the world know he watches morning shows on these networks: *Fox and Friends* on Fox and *Morning Joe* on MSNBC, by commenting on the content of these programs.

Beyond his Twitter musings, he also regularly refers to "the shows" when speaking in public about American cable news programs.

As a result of his acknowledgment of the influence these shows have on him, lobby groups and even news comedians have been buying ads within those timeslots.

These past few weeks, those ads have included appeals by the renewable fuels industry, represented by Fuels America, which is in large part everyone who has a stake in corn.

With one third of U.S. corn production now dedicated to ethanol, there are a lot of folks, farmers included, who don't want anything happening to that demand, including you and I.

If those acres ever get cut loose from providing fuel, prices for anything American farmers can grow on that land are going down.

"Family farms are the backbone of this country. We are going to protect the renewable fuel standard," Trump said before his election about the requirement for his country to use 36 billion U.S. gallons of ethanol annually by 2022.

However, there are fears that he might be reconsidering that position. The ads target oil refiners for seeking government bailouts due to competition from renewable fuels and are reminding him of his pledge.

All I need now is proof that our prime minister reads *the WP* and I should be able to watch the extra ad money roll in.

mike.raine@producer.com

FERTILIZER STORAGE

Keeping the fertilizer flowing can be safety hazard

HURSH ON AG



KEVIN HURSH

When you consider all the farm mechanization and automation, one procedure still seriously in need of innovation is extracting granular fertilizer from a bin after long-term storage. It can be a dangerous and frustrating exercise.

This is the time of year when many producers are filling fertilizer bins, taking advantage of prices that are probably lower than what we'll face next spring. That's what I was doing recently, but I also had half a bin of fertilizer left over from the spring.

I knew it should be extracted to

break up any lumps. What a nightmare.

Now, admittedly that nitrogen-phosphate blend had been in the bin for about 10 months, so it had lots of time to take on moisture and clump up, but the same problem can arise even if fertilizer has been stored for only a few months.

The procedure looked like a safety training video for how not to do things. Poking upward with a bar or stick into the bottom of the bin while an auger churns just beneath your hands doesn't seem wise, but what choice do you have?

Meanwhile, you're constantly opening the bin to let lumps out and then closing it again to stop the flood of product that isn't clumped. Some fertilizer bins have a poke hole on the side and while helpful, it isn't a solution.

A big rubber hammer helps, and I've switched from a black one to a white one, which leaves fewer marks on the hopper.

However, it still bothers me to punish the side of a bin in an

attempt to keep product flowing.

Eventually, the side access cover could be removed, and I stopped the auger to go inside and pulverize some huge lumps with a big bar. I was careful to make sure that a big clump of fertilizer wasn't stuck to an upper wall waiting to crash down on me. When those big lumps fall, it can shake the entire bin, so you know there's a lot of force.

I've heard many ideas for how to limit fertilizer clumping, and many of them would seem to have merit. It's best to not fill bins with fertilizer when the humidity is really high. Sulphur is especially bad for clumping, so it's best to avoid storing blends containing that nutrient.

Some producers use kitty litter or another absorbent product on the bottom and top of the bin to collect moisture. Some use duct tape to help seal the lid. It might even be good to silicone around the side access cover. You can always cut through the silicone later.

The top recommendation is to regularly rotate your fertilizer. This is good advice, but it's a thankless job, particularly because fertilizer is hard on all the equipment it touches. Plus, the more you handle fertilizer, the more powdery it becomes.

Some producers probably forego the potential price advantage of buying ahead of the spring rush just to avoid storage issues. Others find a way to use up excess fertilizer after seeding rather than storing it.

There are innovations on the market to break up fertilizer lumps after they come out of a bin. No one seems to have a way to avoid or manage major clumps that are too big to flow out.

If you have any advice on fertilizer storage and extracting it from bins without killing yourself, drop me an email so I can share with everyone else.

Kevin Hursh is an agricultural journalist, consultant and farmer. He can be reached by e-mail at kevin@hursh.ca.

OPEN FORUM

LETTERS POLICY:

Letters should be less than 300 words. Name, address and phone number must be included for verification purposes and only letters accepted for publication will be confirmed with the author.

Open letters should be avoided; priority will be given to letters written exclusively for *The Western Producer*.

Editors reserve the right to reject or edit any letter for clarity, brevity, legality and good taste.

Publication of a letter does not imply endorsement by *The Producer*.

AN EQUITABLE SOCIETY

To the Editor:

We are often told that there is not enough money available to create a genuine equitable society to provide the basic needs of life for all human beings. So why even try?

However, a team of economists set out to establish the fact that an equitable society is possible if we cut out or reduce programs that collect billions of dollars to fund corporations, or those who are already wealthy.

These include ending fossil fuel subsidies (worth about \$775 billion globally), getting a fairer share of the financial sectors earnings by imposing a transaction tax (which could raise \$650 billion globally, according to the European Parliament), increasing royalties on fossil fuel extractions, raising income tax on corporations and the wealthiest people, (lots of room there, a one percent billionaire's tax alone could raise \$45 billion globally).

According to the United Nations, a progressive carbon tax (at \$50 per metric ton of CO₂, emitted in developed countries), would raise an estimated \$450 billion annually, and if the top 10 global military spenders were cut by 25 percent, that would free up \$325 billion (these are numbers reported by Stockholm International Peace Research Institute).

However, this group forgot to mention the fact that billions of dollars of taxable money — perhaps the greatest revenue potential of all — are illegally siphoned off to off-shore tax havens. It is the responsibility of government to shut down the availability of those tax havens. Siphoning off taxable money to offshore tax havens should be considered a crime. Those evading the payment of legal taxes should be fined the appropriate amounts to discourage them from evading the payment of legal taxes.

It is the responsibility of voters to inform their political leaders that an equitable society is possible. Presently, more money is being accumulated by those already wealthy, instead being used to fund programs that would contribute to society in general.

A genuine equitable society would make a tremendous contribution towards decreasing criminal acts. This would then allow human beings to interact within an evolving peaceful environment in the daily lives of all citizens.

Leo Kurtenbach,
Saskatoon, Sask.

LAMENT LOSS OF CWB

To the Editor:

Five years after the loss of the Canadian Wheat Board, farmers have turned back the clock 100 years.

The farmers missed the boat by letting both the Saskatchewan Party and the federal Tories get rid of the CWB — at what cost to them?

Commodity prices posted publicly are usually the lowest available.

Farmers shipping their grain wind up begging for a good price. Today, No. 1 wheat with 11 percent protein is selling for \$4.23 per bushel.

Wheat export price in Vancouver is \$9.44 per bu. and in Thunder Bay \$11.80 per bu. Six years ago I sold my No. 1 wheat to the CWB at \$8.50 per bu. So much for the open market, but not so open information.

The blame is on every farmer who was sleeping at the switch. In the last election Agriculture Minister Gerry Ritz announced you could sell all the grain you produced — but at what price?

For example, the average farmer today produces 70,000 bu. of wheat. Five years ago, No. 1 wheat 13.5 percent was \$8.50 per bu., so if you sold 70,000 bu. you would get \$595,000.

Today you are likely to get \$5.10 per bu., so 70,000 bu. would bring

\$350,000. Instead of getting \$595,000 for his crop, the farmer gets \$350,000 — a loss of \$245,000. This amount of loss over the five years without the CWB comes to \$1,225,000.

Under the CWB, farmers would get paid 88 percent of export prices. Today, under the open market, we get 40 percent.

Farming without the Crow rate and the CWB is hard to do. Other farm leaders were destroying what our forefathers fought for.

How can anyone's farm survive on wheat at \$5 per bu. and canola at \$12 per bu.? A four-wheel-drive tractor imported from the U.S. costs \$700,000.

With \$5 wheat you need 140,000

bu. to buy the tractor. At 30 bu. per acre, you need 4,700 acres to grow the crop to pay for this tractor.

The big farmers have been sleeping since the loss of the CWB. Farm Credit (Canada) tells us a three-year loss is the end of farming. Big volumes of grain do not pay the outstanding bills.

Because the big farmers did not support the CWB their only option is to sell out or to downsize.

We have to thank both the federal and provincial conservative governments for this.

Edward Sagan

Director, National Farmers Union
Saskatchewan Region
Melville, Sask.

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GRAIN MOVEMENT

Grain sector closely watching CN service network

Railway official says the company plans to move quickly in adding additional manpower to meet hopper car demand

BY BRIAN CROSS
SASKATOON NEWSROOM

Canada's grain supply chain has managed to avoid any major service disruptions since the disastrous 2013-14 grain shipping season when system-wide congestion slowed export grain movements to a trickle.

However, there are troubling signs that rail service in Western Canada may be losing traction, a scenario that has shippers and commodity groups nervous.

"There are some concerns, particularly with CN," said Wade Sobkowich, executive director of the

Western Grain Elevators Association.

"We're starting to see longer dwell times and slower movements on CN's network. People are nervous that there's going to be issues ... that could last a long time if they aren't addressed quickly."

Dwell times are the amount of time that loaded grain trains sit at country elevators before being moved.

At the same time, on-time car order fulfilment rates — the rate at which hopper car orders are filled and empty cars delivered to coun-

try elevators — has been declining.

Data from the Ag Transport

Coalition suggests that Canadian National Railway's car order fulfilment rate dropped to 68 percent in Week 11 of the 2017-18 crop year and 51 percent in Week 12.

Over the past year or more, CN's order fulfilment rate has generally been in the 80s or 90s.

"That's concerning," said Sobkowich.

"Most of the car orders that have been delayed are being filled the next week, so it's not an extreme situation yet.... Having car order fulfilment delayed by a week is one thing, but if that slips to two weeks, then three weeks and then orders start getting cancelled outright,

then we could quickly end up in a pretty tough situation that lasts for the rest of the crop year."

Compounding concerns is the fact that some long-term forecasters are calling for extreme winter weather conditions that are not conducive to efficient railroading operations.

WGEA members are encouraged by the fact that CN has acknowledged that there have been service issues on its network, Sobkowich said.

He also conceded that a recent derailment on CN's mainline near Wainwright, Alta., has complicated the railway's recovery efforts.

"CN is aware of the fact that they aren't meeting the industry's needs right now and they're bringing on, as quickly as they can, additional power and additional crews," Sobkowich said.

"We're still cautiously optimistic that they'll be able to recover in the next few weeks, but if they don't, we could be in a position where we're not able to recover for some time."

Greg Northey, a spokesperson for the Ag Transport Coalition's rail monitoring program, said the coalition began to notice performance issues on CN's network in mid- to late-September.

Volumes steady

Demand for hopper cars on CN's network has been slightly higher than expected, but it is still roughly in line with last year's demand, he added.

"There's been an uptick on (car) rationing on CN's network, or what we would call cancellations," Northey said. "The volumes (demand) are pretty well the same as last year, maybe slightly higher, but we've been seeing more rationing, so that was a red flag to us, and it began around Week 6 or Week 7 (of the 2017-18 crop year)."

Northey said CN has been "quite good" in the past at recovering from car supply shortfalls.

He said demand from other business sectors including potash, intermodal and frack sand has been heavier than expected and may have contributed to service reductions to the grain industry.

David Przednowek, CN's director in charge of grain marketing, said Nov. 3 that a number of factors have affected CN's ability to supply hopper cars to the grain industry.

For starters, demand for hopper cars has exceeded the "maximum sustainable capacity of the supply chain."

"Typically, the guidance to the industry is that if everything is fluid — if the ports are working and there's no weather issues — then the supply chain as it pertains to CN can handle around 5,500 (cars) a week," Przednowek said.

"We've been getting demand in some weeks around 6,500 so demand is exceeding ... available capacity."

Przednowek also pointed to unloading delays at certain west coast grain terminals, which have reduced weekly capacity even further.

The Week 11 derailment at the Fabyan Trestle Bridge near Wainwright presented a significant challenge to CN, he added.

Przednowek said CN has been responding to a "significant uptick" in demand from other sectors.

The company has taken steps to deploy more crews and more locomotive power.

ATC data released Nov. 7 shows that the CN car order fulfilment rate for Week 13 improved to 66 percent, resulting in unfulfilled shipper demand of 1,649 hopper cars.

Canadian Pacific Railway supplied 93 percent of the cars ordered in Week 13, resulting in unfulfilled shipper demand of 318 cars.

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PARLIAMENT HILL

Rail transport bill goes to Senate

BY BRIAN CROSS
SASKATOON NEWSROOM

A federal bill aimed at improving Canada's transportation systems and ensuring better rail service for shippers passed third reading in the House of Commons Nov. 1 and is off to the Senate.

Observers say key components in the act are provisions that support the use of reciprocal financial penalties in service level agreements between shippers and railway companies.

Specifically, the act will put in place a process that supports the use of negotiated service contracts between shippers and railway companies and facilitates the use of monetary penalties to ensure that the terms of service agreements are being met.

However, the legislation will not support the use of long-haul inter-switching, a measure that western Canadian grain shippers have been requesting for several years.

Wade Sobkowich, executive director of the Western Grain Elevators Association, said the act contains a number of provisions that could benefit grain shippers.

"Overall, we think the bill will provide a better balance between shippers and railways and provide a better ability for rail shippers to get proper service contracts for the future movement of grain."

Sobkowich said WGEA members, which include large Canadian grain-handling companies, are optimistic that the bill will receive royal assent before Christmas.

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CARBON TAX

Man. hog sector says carbon tax on heating will swallow profits

One producer estimates an increase of \$9,400 on his heating bill

BY ED WHITE
WINNIPEG BUREAU

Manitoba's proposed new carbon tax could cost hog farmers thousands of dollars a year, says the province's hog farming organization.

Farm fuel such as diesel and gasoline will be exempted from the carbon tax of \$25 per tonne, but so far there is no guarantee that the levy won't be imposed on propane and natural gas used to heat hog barns.

"We're not going to shut down barns or not heat them, but... it eats into the margin," said Andrew Dickson, general manager of the Manitoba Pork Council.

Heating is common in Manitoba's frigid winter conditions and costs can add up.

For instance, the pork council said a number of its members have assessed what a 5.7 cents per cubic metre of natural gas tax and a 4.6 cents per cubic metre of propane tax would cost.

One member said that would

have cost his sow barn \$5,700 on top of the \$12,000 in natural gas he used last year.

A 3,000 farrow to finish operation would have seen its heating bill jump by \$9,400, Dickson said.

One major production company estimated its cost would be \$59,000 more with the 5.7 cent and 4.6 cent taxes.

Manitoba's carbon tax is being imposed reluctantly by the provincial government, which has fought against the federal government's desire to require a \$50 per tonne of carbon tax within the next five years.

It determined it did not have the legal power to refuse to collect a carbon levy but could implement its own if it had a roughly similar impact to the federal plan.

Farmers are being specifically exempted from the tax, at least for fuel, but the status of energy sources used for heating has not been determined, Premier Brian Pallister and Agriculture Minister Ralph Eichler said at the announcement.

Producers eat cost

The purpose of carbon taxes is to discourage use of carbon-emitting substances and activities by making them more expensive.

The problem for export-oriented or North American priced commodities such as pork and most western Canadian farm products is that producers do not have a direct ability to pass on their increased costs to customers. The world price is the world price.

That's why the provincial government has objected to the tax demand and tried to shelter farmers from its immediate impact.

The federal government has not said it will accept Manitoba's plan as sufficient.

Dickson said hog farmers' reliance on heating fuel makes them susceptible to a substantial hit if heating fuel is not also exempted.

Higher prices won't make them more efficient because they are already hyper-conscious of costs after years of tight margins and periodic losses.

"You can put taxes on, but you are just making us less competitive," said Dickson.

If the government does decide it has to impose the carbon tax on propane and natural gas, it should take the money raised to help farmers reduce their energy costs.

"Why don't you put it in things like rural infrastructure that you can actually use?" said Dickson.

Building water and natural gas lines to hog production areas would help a lot, he added.

"The big one is getting away from propane," Dickson said about the relatively more expensive heating source.

Dickson cautioned that British Columbia's experience with imposing carbon taxes on heating for greenhouses saw many close and move across the border to Washington state.

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NAFTA RENEGOTIATIONS

If NAFTA ends, is Canada's food sector prepared?

Economists say the meat and grain sector will suffer

BY ED WHITE
WINNIPEG BUREAU

Bombardier responded to American trade action by marrying a foreign competitor and deciding to move some production to the U.S.

Canadian dairy processors have responded to supply management's restrictions by buying companies and expanding into the U.S.

How would Canadian-based food companies respond to the cancellation of the North American Free Trade Agreement?

Some economists say that's something any exporter of food products and ingredients is probably now pondering.

"Agri-food is even more vulnerable than Bombardier or aeronautics because of the fact that the U.S. can use a number of narratives to justify an embargo or extra (restrictions placed on food)," said Dalhousie University food industry expert Sylvain Charlebois.

"You can use public health, food safety, regulations, unharmonized regulations around labelling. There are so many."

For most food companies, the United States is both a big market and a source of ingredients. So what do they do about U.S. President Donald Trump's repeated threats to tear up NAFTA?

Three economists said the food industry in North America is such

an integrated business that any border problems will be costly for everybody.

"It's very alarming for food companies," said Al Mussell of Agrifood Economic Systems, an analysis firm from Guelph, Ont.

Some companies will probably focus on non-U.S. markets for future growth, including those in Asia and Europe. Canada has a new trade deal with the European Union and is talking with both the remaining Trans-Pacific Partnership members and China about future deals.

Charlebois worries that some Canadian companies will simply forget about trade, with that already being a problem in Canadian processing.

Too many Canadian companies are small and choose to just serve domestic markets.

Bertrand Montel, an economist with Groupe AGECO, said food companies need to go through their entire supply and processing chain to see what inputs and outputs might be affected by any sudden ending of NAFTA.

"I would encourage processors to have a quick assessment of their products," said Montel.

The economists agreed that small border tariffs aren't the biggest factor spooking food companies. Because of World Trade Organization rules, the U.S. can't impose tariffs that are beyond the relatively



Canadian agri-food processors who sell to the United States would be forced to find other options if the North American Free Trade Agreement was ended. | REUTERS/REBECCA COOK PHOTO

low levels it has for most products imported from Most Favoured Nation states.

However, the ability of U.S. players to manipulate regulations to impose border blockages, justified or not, on Canadian products is a significant concern.

"That's something that may have more impact on trade flows," said Montel.

"It could be the bigger factor because there is more uncertainty," Mussell said the expansion of Canadian dairy processors such as Saputo and Agropur into the U.S. made sense because of Canada's stagnant domestic market and its

ban from significant exports under WTO agreements.

"They needed a platform to export from, and they can't do that here," said Mussell.

However, dairy processors could easily expand south because there were many small U.S. players to take over and the market was fragmented.

That is not the case with most meat and grain based food product areas. Giant U.S. based multinationals dominate most of those areas.

Montel said meat and livestock trade flows north and south today, so meat processors are probably

anxious about what happens if NAFTA dies.

However, it won't be easy for a Canadian meat processor to simply set up production in the U.S., as Canadian dairy companies have done and Bombardier says it is planning to do.

"It's almost unthinkable to see Olymel take on Smithfield," said Montel about the challenging future if NAFTA dies.

That may push some to look to Europe and Asia, something Charlebois thinks is smart.

"You'll see a more globally focused sector," he said.

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TRADE DEALS

Ag groups want more focus on TPP revival talks

Trans-Pacific Partnership members are attempting to reach a new deal after the U.S. pulled out of the agreement in January

BY SEAN PRATT
SASKATOON NEWSROOM

Canadian agricultural commodity groups are urging the federal government to take more of a leadership role in pushing for a revised Trans-Pacific Partnership agreement this week in Vietnam.

The Canadian Meat Council issued a news release saying "abstention or indecision" by the Canadian government is unacceptable.

Council president Chris White said the government has been pre-occupied with renegotiating the

North American Free Trade Agreement.

"Our concern is that (TPP11) is not getting the attention that we think it should be getting," he said.

"Canada is engaged, but we don't have the sense, at least as of now, that they are as engaged as much as industry would like to see them."

Farm groups say billions of dollars are at stake for the sector.

Representatives of the 11 TPP member countries are meeting in Da Nang, Vietnam, for the Asia-Pacific Economic Cooperation Leaders' Week Nov. 6-11.

Japan and other countries have

stated they would like to hash out a TPP11 agreement in principal at that meeting.

Talks began earlier this year after U.S. President Donald Trump pulled his country out of the agreement. The remaining countries soon began negotiations to revive the deal without the United States.

Jim Everson, president of the Canola Council of Canada, urged the Canadian government to advance the TPP11 negotiations during the meeting.

"We just think there's a lot of opportunity there if the government were to act on it in the near

term," he said.

The real prize in the agreement is unfettered access to the Japanese market.

Canadian canola seed is shipped to Japan tariff-free, but canola oil faces a steep 16 percent tariff entering the market. Under TPP11, tariffs on oil and meal would be eliminated over a five-year period.

A study by Dan Ciuriak, former deputy chief economist for Foreign Affairs and International Trade Canada, estimates that Canada's oil and meal sales to Japan and Vietnam would increase by up to \$780 million per

year by the end of that period.

The same study said the overall benefit for Canadian agriculture would be \$3.4 billion annually.

Australia already has a bilateral free trade agreement with Japan. Its tariffs on canola oil are six percentage points lower than what Canadian exporters pay and are dropping every year.

Everson said TPP11 is more enticing than its predecessor because the U.S. is no longer part of the pact.

"It would give us an advantage in some of those Asian markets over the U.S. because it would give us preferential tariffs on oil," he said.

The council believes TPP11 would help the canola industry achieve its objective of doubling domestic canola crush to 14 million tonnes per year by 2025.

The Canadian Pork Council also wants Canada to take a leadership role at the meeting in Vietnam.



RICK BERGMANN
CANADIAN PORK COUNCIL

"Canada's pork producers request that the Government of Canada work to ensure a TPP11 agreement is implemented without jeopardizing the negotiated outcomes on market access that were agreed to in the original TPP agreement," CPC chair Rick Bergmann said in a news release.

The council said Japan is the most lucrative market, but there is also opportunity to gain market share in Singapore, Vietnam and Malaysia.

White said time is of the essence because earlier this summer Japan reached a free trade agreement in principal with the European Union, and EU meat exporters are pushing for quick ratification and implementation of that pact.

CMC said implementation of that agreement before TPP11 would be a "devastating blow" to Canada's meat sector because it would lose ground to the EU.

"Once you lose market share it's very, very tough to get that back," he said.

The Asia-Pacific region is critically important for the meat industry. Twenty-eight percent of Canada's \$6.2 billion in meat exports went to TPP11 countries last year.

The CMC estimates TPP11 would result in \$500 million in additional annual meat sales to Japan with \$300 million of that for pork and \$200 million for beef.

That is why the industry is concerned about competitors receiving advanced preferential access to the market, such as what recently occurred in South Korea.

That caused meat exports to Korea to plummet by 56 percent. CMC said Canada will be playing catch-up in Korea over the 15-year implementation period of its free trade agreement with the country.

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LOOKING BACK

War challenged curious farmer, pilot

Veteran fondly remembered for remaining calm under pressure

BY SHERI HATHAWAY
FREELANCE WRITER

Military life suited Malcolm McLean's restless curiosity and need for challenge.

He was farming outside of Dewberry, Alta., in the fall of 1939 when Canada entered the Second World War. Of the first local boys to sign up, he joined the 16/22 Saskatchewan Horse Infantry and took his basic training at Dundurn, Sask.

By December 1940, he had decided to fly and enlisted in Brandon with the RCAF as an aircraftsman 2. Pilot's training took him to several places across the country after which he ranked leading aircraftsman.

McLean loved flying and was an exceptional pilot.

In Dartmouth, he performed surveillance missions over the Atlantic on anti-submarine patrol, watching for Germany's U-boats on Canadian shores.

These submarines tried to attack and prevent ships from delivering supplies and men to Europe. Canadian ships had naval convoys as escorts but bombers, like the one McLean flew, patrolled from the air.

In 1942, two newspaper reporters accompanied McLean and his crew to report on a routine, wartime RCAF day in Canada.

Cyril Robinson of the *Halifax Daily Star* described him as "a heavy-built, likable Albertan" in the June 8 issue.

"For our pilot, Flying Officer Malcolm McLean, 28, of Dewberry, Alta., there was the thrill of passing his thousandth flying hour."

Robinson described their day, starting at 3 a.m. to attend to a "score of matters" before a 5 a.m. takeoff.

Parachutes and lunches of bully-beef, chicken and jam sandwiches and apple juice were loaded, along with, among other things, a hamper of carrier pigeons "which will act as silent messengers in the event of an emergency."

After takeoff, he wrote that Mahoney sets up his desk at our elbow, pulls out his maps, charts, and navigation instruments, dons his earphones for radio direction and sets to work.

"An inter-communications set keeps him in constant touch with (McLean)."

They located the convoy they are ordered to protect, saw that it was travelling safely and continued



ROSS HAMILTON, THE MEMORY PROJECT, HISTORICA CANADA PHOTO



Malcolm McLean, above, saved his crew with his piloting skills. | HATHAWAY FAMILY PHOTOS

their patrol over the shoreline. They flew all day without incident, but if they had seen U-boats, it would have been McLean's job to take the plane into a steep dive called an attack angle, so the two gunners could take aim.

"Mac is feeling justifiably happy about the flight," reported Robinson.

"One thousand hours and not a damaged aircraft. Guess I better knock on wood," he joked to the reporter.

McLean's ability to keep a clear head made him well suited to military combat and he is remembered for remaining calm in a crisis.



Malcolm McLean was honourably discharged June 12, 1945. Medals awarded include: Star Ribbon, 1939-43; Volunteer Medal and Clasp; War Medal, 1939-44; Star, 1939-45; Atlantic Star; France-Germany Clasp; Flying/Farming medal, 1945-76

In 1942, he was posted to England with the Squadron 407, nicknamed the Demons. His orders entailed hunting U-boats offshore from the Bay of Biscay to Gibraltar.

In a letter to McLean's sister, crew member and wireless air gunner Ross Hamilton described a life-threatening event in which McLean is remembered for saving both crew and plane.

"We were detailed for a NFE (night flying experience) out over the Solway Firth (a bay in England) to practise homing in on a mine sweeper and feinting a low-level bombing attack.

The navigator had little to do, and hadn't bothered to keep a plot due to

our proximity to base. The radar operator picked up our target ship, which we (identified) with the aldis lamp (a signal lamp), then Mac put the plane into a steep dive and when he pulled out at wave-top height to begin a simulated bomb run, there was a huge explosion in the starboard engine and it was out of action.

"With a lesser pilot at the controls, I am sure we would not have survived. McLean ordered all bombs, depth charges and extra fuel to be jettisoned to lighten the aircraft.

"Our diving momentum provided sufficient airspeed to begin a careful climb on one engine, trying to stay above stalling speed.

"Mac was so cool, calm and collected during all this, that it seemed uncanny, as the co-pilot was close to panic.

"Mac feathered the shattered engine and dowsed the fire with the in-engine extinguishers, and, having lost track of his position during all this, calmly asked the navigator for a course for base. Well, of course he didn't have one to give, as he hadn't kept a plot. I was on the radio at the time and Mac called me on the intercom and asked me to send a QDM (code for emergency route home).

"I gave him the course, which the ground station boomed back to me immediately, and we were on our

way home. I recall the co-pilot pointing out that the temperature on the one good engine was heating up beyond the red danger indicator. Mac was quite aware of this, and told him he had no choice but to maintain maximum power if we wanted to stay airborne and he would have to take the chance of it blowing up.

"After what seemed an eternity, the lights came on below (usually off during blackout hours). Our emergency was given priority and they gave us clearance to come straight in and belly land on the grass alongside the runway. Mac didn't dare try to put the wheels down as the drag could surely have stalled the aircraft and he was barely able to coax enough air speed out of it as it was.

"Mac always pulled off lovely smooth landings and this one was no exception. He sat the old Wimpie (Wellington) down beautifully and only the propellers were damaged as they dug into the grass.

"Mac ordered everyone out and to run like hell in case she blew up from leaking fuel. This we did and I recall stopping to count noses, and there were only five of us — Mac was missing.

"Back to the crash site we ran, got up on the wing, and there was Mac calmly undoing his shoulder harness and getting ready to climb out of the top escape hatch above the pilot's seat. What had he been doing? He had followed procedure to the letter, shutting down all the many switches and knobs so as to avoid any fire that might have started up from a spark or otherwise.

"Later in the mess hall, we hugged the poor guy half to death.

He had saved all our lives and we knew it. We bought him a beer (Mac didn't drink very much).

"Mac had some paperwork to do with the certified flight instructor the next day, but the CFI also awarded him a nice endorsement in his logbook, detailing Mac's pilot skills and his coolness and leadership in getting his aircraft back.

"Personally, I think he should have gotten the DFC (Distinguished Flying Cross). Had it happened on an operational mission. ... I am sure he would have been so honoured and rightly so.

"It is very easy to write things about Mac McLean. He was an extraordinary individual and I don't know of anyone in the entire RCAF who wouldn't have good things to say about him.

"Most pilots would have feathered the engine, but Mac elected to try to get something of use to him out of it and was able to keep the props turning sporadically, but never fully stopped. In this way, and while the engine wasn't providing much power, it did serve to help keep that wing up and this spared the good engine from having to do it all.

"He was good at this nursing procedure but it took a hell of a good pilot to be able to use it. But Mac was one hell of a great pilot. He had few peers."

He returned to Canada in 1946 with his new wife, Marjorie Simmons, a war bride from England. He continued farming at Dewberry, interspersed with flying for the Dew Line at Walnut Creek, California, and Slave Lake, Alta.

He passed away at age 62 Oct. 7, 1976, while travelling to an air force reunion in Winnipeg. He is buried in the Lloydminster Cemetery.

ON THE FARM

Couple finds farm life exciting

Manufacturing business, cattle and family keep couple busy

BY ED WHITE
WINNIPEG BUREAU

WINKLER, Man. — As they sit in the small office of a new assembly plant in an industrial district with their two eldest children playing with the furniture and their baby happily snoozing, the Penners seem the image of a composed and relaxed young couple.

But Tim admits it often doesn't feel that way on the inside.

"There are some days where you're pulling your hair — short nights," said Tim, a 25-year-old farmer who splits his time between his busy family, his cow herd and his new manufacturing business.

"He can be a little stressed sometimes, getting this going and the farm and everything," acknowledged Lena, a 24-year-old mother of three who is new to farming but native to the Winkler area.

However, the couple seems happy and satisfied with their busy life and enjoying the ride they're on as they balance multiple demands and handle new opportunities.

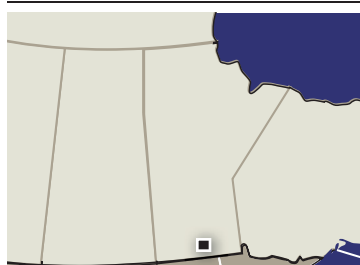
Tim, who has been developing, manufacturing and marketing an innovative swinging drive-over auger system, is excited by the prospects for his business, and on this October morning was thrilled that he'll soon be able to show his machinery in the Innovation Showcase at Manitoba Ag Days in January.

If Soaring Eagle Grain Equipment's soon-to-be-patented grain unloading device is successful, the family will have a good business to help build their future upon.

On the other hand, he really likes the look of his father's nearly 200 head cow herd and would like to expand his 31 head cow herd in that direction too.

"That looks like fun, but what if this (manufacturing business) takes off?" pondered Tim, as one of his five brothers worked on a piece

ON THE FARM



TIM & LENA PENNER
Winkler, Man.

of equipment on the floor of the Soaring Eagle plant.

Juggling opportunities and demands is also something Lena is constantly doing. She's a stay-at-home mom but has ended up having to mother more than just her own kids: the family's 31 cow-calf pairs still need to be tended when Tim is off in town at the plant or travelling. That was a bit of a jolt at first.

"I had to go out and check the cows, and I had never been around cows much," said Lena, who was raised in the village of Hochfeld, just outside of Winkler, by non-farmers.

"They scared me a bit at first, but I had to get used to that."

Lena loves farm life and was happy to move out to the 10-acre yard they bought five years ago after getting married. Country life is good, especially for her children.

"I love the big yard. They have a big place to play in," said Lena.

She admits Tim's increasing time in town was hard to get used to.

"I would like to see him more at home, farming," she said.

"But after having three kids I'm quite busy, so I don't think much about it any more."

Tim's leap into manufacturing and innovation has been dramatic. He was working for local entrepreneur Henry Elias when Elias presented him with an idea.

"He asked me if I wanted to start a business together," said Tim, who had just greeted Elias as he popped by the office to check on a part of the implement they were trying to perfect.

"I put my ideas and his ideas together and put that to metal."

Lena might not have begun as a farm girl, but one element of Tim's farmer persona drew her attention before they started dating: his horse.

"That's what caught your eye," said Tim, laughing.

"I wanted to find out who he was," said Lena, remembering the days when they just knew each other through mutual friends.

Their son Justin, four years old, loves visiting the manufacturing shop and playing on the farm, as does his three-year-old sister Cheyanne. Both seem comfortable around the banging and scraping of metal that's a constant in farm implement work but make sure to stay out of the way.

Tyrell is only three months old, but all the metal-working noises don't seem to rattle him either. He snoozes through most of the interview.

Adapting to busy and complicated situations is something the Penners are now used to with each partner taking on new roles as circumstances demand.

Lena is happy she got used to dealing with enormous, pregnant cows because when she first took on that job, she wasn't too sure she could handle it.

"I was expecting then, so I was quite big," she says, smiling about the memory of the intimidating situation. "Now it's just part of life at home as a farmer. Calving is fun. It was pretty exciting."

That's the attitude that keeps the Penners happily juggling their busy and fulfilling lives.

ed.white@producer.com



Tim and Lena Penner and their children, Justin, left, Cheyanne and Tyrell, are at home with noise in the manufacturing shop, where Tim produces a drive-over grain auger system. | ED WHITE PHOTOS



Visit us online at www.producer.com to see a video of Penner's grain unloading device in action.

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RURAL ENTREPRENEURS

Alberta foodies satisfied with being small and local

Couple enjoys sharing the agricultural experience and produce with customers

BY MARIA JOHNSON
FREELANCE WRITER

GULL LAKE, Alta. — The conversation is easy and relaxed like friends catching up.

Laura Siebenga chats with a long-time customer who stops for eggs at Small Circle Foods and Retail, the store located on her and husband Cal's 17-acre Brown Eggs and Lamb farm.

"That's a huge part of what this store is," says Laura. "It's about people building relationships."

That includes connecting with producers who supply dozens of food and artisan items for sale at the store.

Laura worked in commercial real estate for a decade and liked working with people.

She also cited the connections, relationships and sense of community that small businesses often foster.

In 2011, they found, moved and refurbished a garage building.

Laura says her role in the business has evolved over the years from sole producer to a broker for other farm families.

"My mandate is that everything be local," she says.

Laura once viewed buying local as a trend.

"But it isn't. People seek me out."

The store is two kilometres from the village of Gull Lake, which swells in size each summer.

In addition to the brown eggs and lamb the Siebengas supply from their 270 chickens and 12 ewes, products include trout, beef, pork, chicken, dairy products, fresh produce, preserves, pies, soaps, wool and woven fabric items, stone milled flour and honey.

Cal's World Famous Pancake Mix is also available periodically, says Cal, who grinds it in his stone mill with hullless barley and food grade wheat.

Laura says being a small enter-

prise makes it easy to adjust to changes in the economy as well as evolving customer needs and requests, which she communicates to producers.

She finds it challenging at times to put a fair price on items, particularly in instances where she does a lot of the transporting.

Cal and Laura sold their dairy farm in 1991. They also subdivided and sold land and currently live on a 17-acre piece.

"We wanted the kids to have the agricultural experience," Laura says.

They bought ISA Brown laying chickens and began to sell eggs. They subsequently added six Suffolk Dorset cross sheep, one for each member of the family.

Sales of the big brown eggs from the free-range chickens had increased and customers were also asking for lamb. The sheep herd grew to as many as 100 ewes.

Laura said the kids learned much about responsibility, business and money.

After their children left, the couple, who are now in their early 60s, sold the entire flock in 2014.

"I was really devastated over the loss of my friends," says Laura, who bought 12 bred ewes in 2015.

Cal, who would like to scale back his plumbing business, planted barley and oats this year. He would like to do more of that but renting land is often expensive and hard to find.

While the Siebengas plan to continue as is, they did seed a small plot near the store to barley last spring. It is currently up for rent but could end up being a market garden in future.

Laura quotes Canadian radio broadcaster Stuart McLean's *Vinyl Cafe* motto to express her satisfaction with Small Circle Foods and Retail.

"We may not be big, but we're small."



TOP LEFT, CLOCKWISE: Laura and Cal Siebenga of Gull Lake, Alta., stock their store, Small Circle Foods and Retail, with locally produced food and crafts.

The couple raises about 70 ISA brown chickens. The breed is known to be prolific layers giving large brown eggs.

The Siebengas raise Suffolk Dorset cross sheep. They sell their meat and also have two other producers who supply the same breed and quality of lamb. A protective llama keeps the flock safe from coyotes.

The Siebengas sell food and artisan items from more than a dozen producers around central Alberta. | MARIA JOHNSON PHOTOS

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SUPPORTING PRODUCERS

Embrace fall in the kitchen with locally sourced ingredients

TEAM RESOURCES



SARAH GALVIN, BSHEC

Knowing the source of ingredients is one way to support local agriculture. Sharing the story of food is as important as sharing the meal because food connects urban residents with farmers and creates mutual respect.

Good ingredients are honoured with simple applications at Alice Water's Chez Panisse in Berkeley, California, a restaurant I visited on a recent trip.

Water has built her reputation by serving local and in-season meals that are not fancy but true to the region.

That includes California olives marinated with fennel, Rancho Llano Seco pork slow roasted on a spit over an oak fire and black Mission figs.

Water, who is vice-president of Slow Food International, has been a champion of local sustainable agriculture for more than four decades.

In 1995, she created the Edible Schoolyard Project in the U.S. It advocates for a free school lunch for all children and a sustainable food curriculum in all public schools.



My recipes this week are adapted to use local in-season ingredients.

APPLE CAKE WITH MAPLE FROSTING

This is a heavy cake so be sure it is cooked in the middle. I found it needed more than an hour in my oven.

2/3 c.	golden raisins	150 mL
1 c.	water	250 mL
2 2/3 c.	all-purpose flour	650 mL
1/2 tsp.	ground cinnamon	2 mL
1 1/2 tsp.	baking soda	7 mL
1 1/2 tsp.	baking powder	7 mL
1/2 tsp.	salt	2 mL
3-4 large	Granny Smith or McIntosh apples, or a combination	
1 c.	sugar	250 mL

2/3 c.	canola oil	150 mL
2 large	eggs, lightly beaten	
2	egg whites	
1 tsp.	pure vanilla extract	5 mL
1 tsp.	grated lemon peel	5 mL

MAPLE FROSTING

1/2 c.	unsalted butter	125 mL
1/2 c.	packed brown sugar	125 mL
1/3 c.	maple syrup	75 mL
1 c.	cream cheese	250 mL

Preheat oven to 350 F (180 C). Butter bottom and sides of a nine-inch (22 cm) springform pan. Line bottom and sides of pan with parchment paper. Paper should rise one inch (2.5 cm) above sides of pan.

Place raisins and 2/3 cup (150 mL) water in a saucepan. Simmer



ABOVE: Chicken pot pie is comfort food on a cool autumn day. LEFT: Use local fruit for apple cake with maple frosting.

| SARAH GALVIN PHOTOS

gently eight to 12 minutes or until water has been absorbed. Set aside. Sift flour, cinnamon, baking soda, baking powder and salt together. Stir well and set aside.

Peel and core apples. Cut into one-inch (1.2-2.5 cm) pieces. Set aside.

Place sugar, canola oil, whole eggs, vanilla and lemon in bowl of a stand mixer fitted with the paddle attachment. Beat on medium speed six minutes or until mixture is light in colour, doubled in volume and slightly thicker.

Remove from mixer, fold in apples, raisins and remaining 1/3 cup (75 mL) water. Fold in flour mixture gently just until combined.

Beat egg whites to soft peaks and fold into batter gently but thoroughly. Scrape batter into pan and level the top.

Bake 55 to 65 minutes or until a skewer inserted into centre of cake comes out clean. Cool completely in the pan.

For frosting, place butter, brown sugar and maple syrup in bowl of stand mixer and beat with the paddle attachment until light and airy. Add cream cheese, a quarter at a time and beat about two minutes or until smooth and thick.

Remove cooled cake from pan. Cut in half horizontally with a serrated knife. Spread half frosting over the bottom layer. Place second layer on top. Spoon the remaining frosting on top of cake, leaving sides unfrosted.

Source: Adapted from *Sweet by Ottolenghi and Gho*.

HUTTERITE CHICKEN POT PIE

Pate brisee

1 1/2 c.	flour	375 mL
1/2 tsp.	salt	2 mL
1/2 c.	butter	125 mL
1/4 c.	cold water	60 mL

Mix flour and salt in a bowl. Cut cold butter into small cubes and add to flour. With a pastry cutter or your fingers work the butter in until the mixture resembles coarse meal. Add ice water and toss with a fork until combined. Knead lightly until a dough is formed. Pat into a flat circle and refrigerate until needed.

FILLING

4 whole	boneless, skinless chicken breasts	
1 c.	whipping cream	250 mL
4	carrots, peeled and cut into 1/2 inch pieces	1.25 cm
2	zucchini, unpeeled, cut into 1/2 inch pieces	1.25 cm

1 c.	cooked wild rice	250 mL
5 tbsp.	unsalted butter	75 mL
2	small yellow onions, coarsely chopped	
1 c.	chicken stock	250 mL
1/4 c.	cognac or dry white wine, optional	60 mL
1 tbsp.	dried tarragon	15 mL
1 1/2 tsp.	salt	7 mL
1/2 tsp.	freshly ground black pepper	2 mL
1	egg	
1 tbsp.	water	15 mL

Make the pate brisee and refrigerate while making the filling.

Heat oven to 350 F (180 C).

Place chicken breasts in a single layer in a baking pan. Pour the cream over and bake 20 to 25 minutes.

Remove the chicken from the cream. Reserve the cream and cooking juices. Let the chicken cool and cut into one-inch (2.5 cm) pieces.

Blanch the carrots in boiling salted water for three minutes. Add the zucchini and cook another minute. Drain and cool under cold running water, then drain thoroughly.

Melt the butter in a large saucepan over medium heat. Add the onions and saute until translucent, about three minutes. Add the flour and cook, stirring constantly. Do not let the flour brown.

Add stock and cook, stirring constantly, until thickened. Stir in reserved cream and cooking juices and Cognac. Cook over low heat until thick.

Stir in tarragon, salt and pepper and simmer one minute. Add chicken, wild rice and vegetables and mix gently into cream sauce. Remove from heat.

Heat oven to 425 F (220 C).

Mix egg and water in small bowl. Pour the chicken filling into a deep two quart (2 L) casserole or soufflé dish. Roll out the pastry and place on the dish.

Trim the pastry, leaving a one-inch (2.5 cm) border. Brush the edge of the dish with egg wash and press the overhanging dough onto the dish.

Crimp the pastry decoratively and brush the top with egg wash and cut a steam vent in the centre.

Place the dish on a baking sheet and bake on the middle rack until the crust is golden, 20 to 25 minutes. Serve immediately.

Source: Adapted from *The Silver Palate* cookbook.

Sarah Galvin is a home economist, teacher and farmers' market vendor at Swift Current, Sask., and a member of Team Resources. She writes a blog at allourfingersinthepie.blogspot.ca. Contact: team@producer.com.

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PHYSICIAN ASSISTED SUICIDE

Family needs to understand, accept decision to end life

SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

Q: Last night, my mother and I had a disturbing heart-to-heart conversation. She believes that she is in the early stages of Alzheimer's disease. She does not know how rapidly it might overtake her and is uncertain how much it will ultimately affect her. But she is clear that if she is getting disabled quickly, she would like to talk to her

physician about terminating her life. She does not want to risk living through dementia and would rather die. My mom has been the most consistent support system for all of my life. I cannot imagine life without her. Neither am I sure what I should be saying to her? The question that is haunting me is whether or not my mom or our family are ready. Do you have any thoughts that would help all of us?

A: I think that you need to have a better appreciation of what physician-assisted suicide is all about. This is not a question of living or dying. It is giving some people the option to die before they might otherwise do so.

Whether your mother dies with

the help of her family physician or whether your mother dies sometime later through more natural causes, the result is still the same for you.

You will miss her terribly and you will likely have significant grief.

If your family is going to consider physician-assisted suicide as an alternative for your mom, all of you will do better if you accept a number of responsibilities.

The first is that all of you need to absorb as much medical information about your mother's condition as you can by talking to her doctor. The more information you can find, the more likely you will agree on the pros and cons of physician-assisted suicide.

You and your family also need to

talk to each other. Physician-assisted suicide is more than a choice that your mother might consider on her own. This is a family thing.

Each of you will engage in your own piece of hell when you think about it and the more that you can share the despondency, the less likely it will be that your mother's death will tear your family apart. You need each other.

And, finally, your mother needs to have the opportunity to prepare for death on her own terms. Wills, bank accounts, investments, and whatever properties she has need to be properly resolved. It is a natural closure to her affairs.

People are important too. How often is it that friends forget to say

goodbye to the arches of support that have carried them through the good and bad times?

Your mom needs to say goodbye to each of you while she is still capable of doing so. And you need to say goodbye to her.

It might also be nice if she could have a few visits with those in and about your town, maybe through the church.

Saying goodbye is the equivalent of saying "I love you". Expressing that makes the whole process of dying, either through physician-assisted suicide or natural means, easier for all.

Jacklin Andrews is a family counsellor from Saskatchewan. Contact: jandrews@producer.com.

HANDWASHING

Safe handling of chickens

HEALTH CLINIC



CLARE ROWSON, MD

Q: I notice that more and more acreage owners and even people in small towns are raising small flocks of chickens, ducks etc. I have also seen children cuddle chickens as if they were cats and dogs. Is this healthy? What are the risks of bird flu and also salmonella? Also, are brown eggs better for you than white eggs?

A: Raising a few backyard chickens is getting increasingly popular as some people feel the eggs are fresher and healthier than those in the supermarket.

It is legal in most rural places and farms to raise them for your own use, but not always to sell the eggs to the public due to egg marketing board regulations regarding grading and other concerns.

In the U.S., the Centre for Disease Control and Prevention has reported eight separate salmonella outbreaks linked to contact with pet poultry. More than 370 people became ill in 47 states, and 71 of these were bad enough to require hospitalization. Ohio was the hardest hit with 31 reported cases.

The CDC report suggested that elderly people and young children, who have poor immune systems, stay away from touching poultry. For others, hand washing and sanitizing after touching chickens or collecting eggs is recommended.

Chickens, geese and ducks should not be allowed in kitchens or other areas where food is prepared. They also suggest brushing or wiping rather than washing because water can push the salmonella bacteria inside the egg.

Brown and white eggs contain the same amount of nutrients. Brown eggs are produced by dark or black colored chickens and white eggs come from lighter ones.

Clare Rowson is a retired medical doctor in Belleville, Ont. Contact: health@producer.com.

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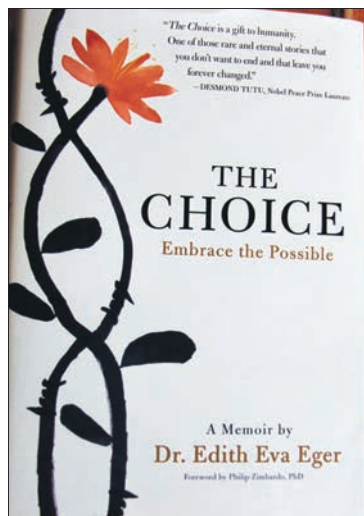
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BOOK REVIEW

Holocaust remembrance compassionate and cruel



The Choice is a tale of cruelty and survival. | CHRISTALEE FROESE PHOTO

PRAIRIE CHAPTERS



CHRISTALEE FROESE

In heartbreaking waves of inconceivable human cruelty, Dr. Edith Eva Eger winds us through her teenage life in Second World War Czechoslovakia.

In *The Choice: Embrace the Possible*, she takes us on a cattle car to her barracks at Auschwitz. We watch as her parents disappear into the gas chambers. We see the

smoke rise from the human incinerators, spewing ash and despair on the concentration camp survivors.

We walk with her and her starving sister on death marches through Germany and Austria where only 100 of 2,000 will survive.

We finally arrive in Gunsirken Lager, Austria, where the flame of their young lives is almost extinguished.

The writing in this memoir is fierce and unflinching. It's as compassionate as it is cruel and as hopeful as it is mournful. It is barbaric and poetic all in one fell swoop.

"It is already hard to tell who is living and who is dead. Disease passes into and between our bodies. Typhus. Dysentery. White lice.

I must eat or I will die. Out of the trampled mud grows grass. I stare at the blades, I see their different lengths and shades. I will eat grass. I will choose this blade of grass over that one. I will occupy my mind with the choice. This is what it means to choose. To eat or not eat. To eat grass or to eat flesh.

EDITH EVA EGER, AUTHOR

Open sores. Flesh upon flesh. Living and rotting."

The writing mimics Eger's story, which is as tragic as it is uplifting. We are taken time and again into horrific circumstances in which no human should survive.

At times, I have to remind myself that this book is a true story and

that it was someone's reality.

While entangled with dead bodies in a pile of corpses, Eger sees someone eating another human and takes the reader into the moment with horrific grace, reliving her nearly unconscious state in short haggard sentences that sear, and save.

"I must eat or I will die. Out of the trampled mud grows grass. I stare at the blades, I see their different lengths and shades. I will eat grass. I will choose this blade of grass over that one. I will occupy my mind with the choice. This is what it means to choose. To eat or not eat. To eat grass or to eat flesh."

Despite the deathly and dehumanizing brutality Eger endures, a spark of hope lies at the center of her, a spark that saves her as an American soldier finds her and her sister lying lifelessly in a pile of dead people when troops liberate death camp survivors in 1945.

This must-read memoir from the 90-year-old Holocaust survivor is so much more than the story of her survival. It's about finding the key to living fully for everyone.

The psychologist takes us to her current private practice in California to intertwine stories of the resilient nature of all humans, whether in the grips of war or in the vice of everyday life.

She tells of prisons imposed by both the Nazis and by people themselves who are trapped in an unconscious stream of self-criticism. While it's hard for me to make the leap from the death camps to the modern-day world, Eger makes it possible by showing that suffering is suffering.

After reading this book, I was simply changed at some base level, both by the inconceivable human cruelty in Nazi Germany and by the way in which Eger was able to survive it and go on to save others.

This is the Holocaust book for our times, showing what hate, prejudice and racism can do. It also shows what love, compassion and the resilient human spirit can overcome.

The Choice: Embrace the Possible is written by Dr. Edith Eva Eger and published by Simon and Schuster (2017).

Christalee Froese is a freelance journalist from Montmartre, Sask. Contact: chapters@producer.com.

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INVASIVE SPECIES

Pink may be the panther in future mussel tussle

Researchers test the logistics of using potash in irrigation systems should mussels invade

BY BARB GLEN
LETHBRIDGE BUREAU

MEDICINE HAT — Invasive zebra and quagga mussels have not reached Alberta's waters yet, but the nasty species' steady spread north from the United States and west from Lake Winnipeg has Alberta's water users on edge.

The mussels propagate quickly and can clog water systems, destroy lake and river ecosystems and cause millions in damage. They are difficult to control and kill and no chemicals are registered in Canada to treat them.

Enter The Pink.

Potash, known for its pink colour, is being tested by Alberta Agriculture and the Eastern Irrigation District as a treatment for invasive mussels in irrigation infrastructure.

It has been used on mussels in Lake Winnipeg with limited effect. However, researchers want to see if a formulation held in a pipeline for several hours would kill mussels.

Brad Calder, a research specialist with Alberta Agriculture's water quality section, gave an overview Oct. 26 of studies to see how potassium chloride could be administered in pipelines and how the solution would affect farmland once expelled.

"To prepare in the event that mussels find their way into our province, we are currently looking into chemical control options to treat the pipelines."

Calder said potash works as an anesthetic on mussels, causing them to drown. It is also a naturally occurring fertilizer that is easily accessible in Saskatchewan.

However, neither potash nor any other treatment against mussels has been registered in Canada.

Alberta field trials have tested a potassium chloride solution in irrigation pivot systems with a target of 100 milligrams per litre of water. In a 2016 field trial using a single pivot with a low-pressure drop-tube system southwest of Brooks, the mixture was held in the pipeline for 48 hours and then applied on 12 acres of land seeded to canola.

Soil nutrients and salts were measured before and after. Calder said there was minimal change in soil pH, electrical conductivity, potassium and chloride at the zero to 15 centimetre soil depth.

Complexity of the study increased this year with several studies in the Eastern, Taber and St. Mary's irrigation districts involving larger projects, said Calder. Results from those are pending.

Zebra and quagga mussels prefer water pH in the 7.6 to 8.6 range, so southern Alberta conditions would suit them, Calder told those at the Farming Smarter Cypress Conference.

They were introduced to the Great Lakes in the late 1980s, likely by ocean vessels, and since then have moved down the U.S. eastern seaboard and westward as far as Lake Mead.

Last year they were found in Montana's Tiber Reservoir, east of Shelby, which is only 80 kilometres

from Alberta's waterways.

The province has implemented mandatory boat inspection at border crossings and monitors 22 reservoirs that see high boat traffic.

If the mussels enter the irrigation system, it will be expensive, said Calder.

The southern Alberta system is valued at \$3.7 billion. It includes 57 reservoirs, 3,900 km of canals and 40,000 km of pipelines and supports 1.6 million acres of farmland.

barb.glen@producer.com



Experts are testing potassium chloride to kill quagga and zebra mussels, above, before they cause damage to water systems and pipelines. | FILE PHOTO

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50 YEARS AGO

Producers urged to vaccinate for blackleg

FROM THE ARCHIVES



BRUCE DYCK

The Western Producer takes a weekly look at some of the stories that made headlines in issues of the paper from 75, 50, 25 and 10 years ago.

75 YEARS AGO: NOV. 5, 1942

The Wartime Prices and Trade Board announced that the amount of butter stored in warehouses and creameries as of Nov. 30 could not be more than five percent of the amount held on the same date of the previous year. The board said butter consumption was up from the previous year but added "with co-operation on the part of consumers it will be possible to maintain an adequate supply to meet normal demands."

The dominion government was urged to develop a food production plan for Canadian farmers so that they knew what was expected of them. "We as farmers are justified in fighting for a little gravy," said M.M. Robinson, Ontario director of the Canadian Food Distribution Council. "There isn't anyone who will do a better job if there's a dollar at the end of it."

50 YEARS AGO: NOV. 9, 1967

Outbreaks of blackleg disease in Saskatchewan cattle herds were reported in the Regina and Yorkton areas, and livestock authorities urged producers to immediately vaccinate calves. At least 13 cattle had died from the disease.

A drop in grain sales to Japan and China were behind a sharp reduction in the number of ships loading at the West Coast, putting 200 grain handlers out of work. Grain shipments had boomed since 1961, but U.S. price-cutting was eating into Japanese sales, while Chinese sales were off because of that country's cultural revolution.

25 YEARS AGO: NOV. 5, 1992

Saskatchewan Wheat Pool said the province's farmers each lost \$109,220 over the last nine years because of the international grain war. An analysis done by the pool found a total loss to the provincial farm economy of \$6.7 billion.

A special binational panel set up under the Canada-U.S. Free Trade Agreement threw out a 9.9 cent a kilogram countervail tariff that the United States had slapped on Canadian hogs in 1988-89. It was considered a major victory for Canadian hog producers in their long-standing fight for grain access to Canadian markets.



Irrigation was well underway in this undated photo. | FILE PHOTO

10 YEARS AGO: NOV. 8, 2007

Analysts were arguing that world petroleum production had peaked and that a bidding war would soon erupt over what was left.

Many were predicting that crude oil prices could hit \$100 a barrel by winter and even \$150 in

the coming year.

Matthew Simmons, a well-known U.S. oil industry financier, was even saying that \$300 per barrel was possible. "Some of the people I've been listening to say we will have an absolute decrease in the amount of oil produced in the

world starting in about 2011 or '12," said Larry Martin of the George Morris Centre.

Viterra, James Richardson International and Cargill sided with the Canadian National Railway in its dispute with small grain shippers, which were opposing CN's plan to

set up a car awards program to encourage the weekly shipment of 100-car unit trains. The grain companies said such a plan would make the handling and transportation system more efficient, flexible and cost-effective.

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NORTH DAKOTA

Grower fired up over hemp despite U.S. regulations

Goal is to become a certified seed supplier

BY ROBERT ARNASON
BRANDON BUREAU

When Neil Reiten grew hemp this year for the first time on his North Dakota farm, he knew the crop would get his neighbours talking.

He also knew it would attract the attention of the U.S. government, specifically the FBI.

Reiten and his employees were fingerprinted and put through background checks and FBI officers gave them a direct warning.

"They straight out told us, 'we will be watching you very closely.'"

Reiten was one of about 35 North Dakota farmers who participated in a pilot project to grow industrial hemp in 2017. Those farmers seeded more than 3,000 acres of hempseed, up dramatically from the five North Dakota farmers who were limited to 15 acres each in 2016, the first year of the pilot.

Reiten applied to grow 400 acres, and state officials gave him permission to seed a more precise amount: 312.5 acres.

"I didn't even question it. I was granted the opportunity and took what I could," said Reiten, who farms 10,000 acres in Petersburg, N.D., growing corn, soybeans, canola, wheat and other crops.

The North Dakota farmers in the pilot project had to jump through extensive regulatory hoops because hemp is still treated like a controlled substance in the United States, thanks to its association with cannabis.

In Reiten's case, the hassle was worth it because he wants to add another crop to his rotation and explore other ways to add value to his farm business.

"The world is full of corn and beans and wheat," he said. "I personally was ... seeking something new and sustainable, and hemp is just really exciting."

Hemp may be an experiment for other North Dakota producers but Reiten has already turned his crop into a new business called Legacy Hemp.

He imported the hempseed variety X-59 from Terramax, a crop research and development company in Qu'Appelle, Sask.

After harvesting a crop this fall, Reiten is now a seed dealer for industrial hemp in North Dakota.

"My sole purpose (of production) is for certified seed for sale for spring of 2018."

Reiten is clear about why he is growing hemp: for crop diversity and to develop a value-added business. Nonetheless, he still gets plenty of questions.

His least favourite is also the most common.

"What are you going to do with it? Make rope?"

Reiten sees a bright future for hemp in North Dakota and across the U.S., in spite of the ignorance.

"Is the mindset changing? I believe the world is changing. Young-

er minds are more open to newer ideas."

Reiten's business partner in Legacy Hemp is Ken Anderson, who lives near Minneapolis but across the state border in Wisconsin.

CONTINUED ON NEXT PAGE >>



North Dakota farmers taking part in a pilot project faced regulatory hoops because industrial hemp still falls under the Controlled Substances Act in the United States. | FILE PHOTO

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TOUGH TO BEAT IN THE LONG RUN

HEMP PROJECT

Hemp project includes marketing

North Dakota growers can't sell to other states, but can export to Canada

BY ROBERT ARNASON
BRANDON BUREAU

North Dakota farmers planted more than 3,000 acres of industrial hemp in 2017 as part of pilot project in the state.

The purpose of the project is research, to see if hemp is a viable crop, but those farmers are also allowed to sell the hempseed.

That's because marketing is part of the research mandate, said Ken Anderson, a businessperson and hemp entrepreneur in Prescott, Wisconsin.

"I helped Minnesota set up their pilot last year and one of things we

said was, 'look, if you're just doing research, keep it in the university,'" he said, adding if farmers are part of the pilot project, they have to sell the crop.

"Otherwise ... you're going to have a few hundred acres in the ground and (a farmer is) going to have to sit on it or destroy it? No one wants to do that."

So, hempseed produced in North Dakota, Minnesota and other states can be sold, although in North Dakota's case, not across state borders.

"North Dakota will not allow me to take live grain over the border into Minnesota, where we could

process it," Anderson said.

Strangely, there isn't a similar rule about shipping the hemp into Canada so a number of producers and dealers are selling North Dakota grown hempseed to processors in Manitoba.

The idea that hempseed can cross an international border but not a state line is complete madness, Anderson said.

"North Dakota will allow me to ship it into Canada, without any permits or anything."

Given the marketing uncertainty, a great deal of misinformation has spread through North Dakota's nascent hemp industry.

Growers hear rumours about a certain price, per pound of hemp, and assume their crop is worth that amount, Anderson said.

"It's not (worth it) if you don't have a buyer. And if those buyers have all of their acreage contracted that they need, they're not really buyers," he warned.

"If you don't have a contract, don't put acreage in the ground because the market is going to be flooded."

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» CONTINUED FROM PREVIOUS PAGE

Anderson is a well-known advocate for hemp in the U.S. and this year he lobbied Wisconsin lawmakers to allow the cultivation of industrial hemp in that state. In October, Wisconsin's agricultural committee in the state senate voted unanimously to approve the bill.

Fifteen states had hemp pilot programs or research programs in 2016, and 31 states have removed barriers to its production, says Vote Hemp, a lobby group.

Those pilot programs are now possible because the 2014 U.S. Farm Bill had a provision that permitted the cultivation of hemp for research purposes, to see if hemp farming would be beneficial for American farmers.

Canadian farmers have been growing hemp, under the jurisdiction of Health Canada since the late 1990s.

Anderson is convinced that hemp will soon be treated like any other crop in the U.S.

Legislation is moving through the U.S. Congress that will remove industrial hemp from the Controlled Substances Act, he said.

"(It will) take the DEA (Drug Enforcement Agency) out of the equation and move it into the U.S. Department of Agriculture jurisdiction."

If the legislation does pass, U.S. hemp acres could explode, but Canadian farmers shouldn't worry, Anderson said.

Only .5 percent of Americans consume hemp foods so there's a massive opportunity for market growth.

"If we take that to two percent, all of us could be producing, (more)" he said.

"The fact that more and more Americans are being turned on to the benefits of eating hemp ... I think that both countries' acreage could increase."

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Ken Anderson, a Wisconsin businessperson, is public about his support for industrial hemp production in the United States. | SUBMITTED PHOTO

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2007 MACK, 10 speed Eaton auto., new 20' CIM B&H, 940,000 kms., fresh Sask. safeties. Call 306-270-6399, Saskatoon, SK. www.78truxsales.com DL #316542.

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BALE TRUCKS: NEW 2017 Dodge Ram 3500 4x4 Dually 5.7L dsl. auto., reg. cab, c/w new CB 9'10" Hydra-Dec bale handler and Rancher grill guard, \$69,995; 2011 Dodge Ram 2500 4x4 5.7L Hemi auto., reg. cab, 195,000 kms, c/w new CB 8'8" Hydra-Dec bale handler, \$27,995; 2007 Dodge Ram 2500 4x4, 5.7L Hemi auto., 265,000 kms, c/w Jiffy bale handler on a 9' flatdeck. Jiffy has electric in-cab hand-held hydraulic controller, \$12,495; 1998 Chevrolet 3500 4x4 Dually, 9.5L dsl., 6 spd. std., reg. cab, 189,000 kms c/w CB 11'8" Hydra-Dec bale handler, gone over in shop, good condition, \$12,995. Centennial Garage, 403-378-4331, Duchess, AB.

2006 FORD F-650 XL Superduty Dump Truck, V8 diesel engine, 6 spd. manual, hydraulic brakes, 65,384 kms., \$32,000 OBO. Call 306-537-5248, 306-501-8264, Regina, SK. mkuzma@taigabuilding.com

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2010 NEW HOLLAND CX8080
1927HRS, 350BU, 24' AUGER, AXLE DIFF LOCK, CONCAVE STD DR & HD UNIVERSAL CONCAVE, 900/50R32 TIRES, YIELD & MOISTURE MON, CR SPRDR, NH CHOPPER, INTELLIVIEW II

\$45K (K)
N22892C

1999 CASE IH 2388
3086 SHRS, 280HP, 210 BU, HOPPER TOP, AUGER EXTENSION, STRAW & CHAFF SPRDR, 30.5L-32 FRONT TIRES, 14.9-24 REAR TIRES

\$475K (PA)
PN3517A

2015 NEW HOLLAND CR9.90
798HRS, 790CP 15FT HEADER, 372 RECEIVER HP/XP, ABR CONCAVE, ABR WEAR AUGER, AXLE EXT, ELEC GRAIN TANK CVR, LEATHER, HYD FLOATION, LOADED - Call For Full Details!

\$33.9K (H)
HS3718A

2010 UNVERFERTH 7250
TARP, PTO DRIVE, 30.5L X 32 TIRES FINANCING AVAILBLE, TRADES WELCOME

\$295K (PA)
N22725C

2013 JOHN DEERE S680
1208hrs, 847shrs, SCD0755915, N22725C Lightning HID, PWRCAST Powered Tailboard PWR Fold Grain Tank CVR, 520/85R42 Duals, 23 1R26 Rear Tires

\$289K (PA)
PN3556B

2012 NEW HOLLAND CR9090
1223 HRS, 355 BU, 523HP, STD HYD TRANS, 22" ROTOR PLANETARY, AUTO LOCK HITCH, AXLE EXT, AXLE DIFF LOCK, EXT WEAR ELEVATOR, MAV CHOPPER, LEATHER, 790 PU

\$315K (K)
N22863A

2013 NEW HOLLAND CR8090
905HRS, 2013 MACDON PW7 W/SWMASTR 16' DUALS 520/85R42 W/ EXT, DLX CHOP, CALMAR SPOUT, STADIUM LIGHTING, S3 ROTORS

\$325K (PA)
PN3488A

2013 JOHN DEERE S690
962hrs, 0shrs, 1H0S690SAD0755347, PN3488A 650/85R38 Duals, Greenstar 3, Lighting HID Powercast Powered Tailboard, PWR Fold Tank CVRS 615 P-UP HDR

\$269K (H)
HN3683A

2012 NEW HOLLAND CX8090
1211hrs, 903shrs, 591860005, HN3683A, 490HP 350 BU., Cast Threshing Drum, 520/85R42 Dual Front, 600/65R28 Rear, 24' Auger, Autoguidance, NAV II / Autosteer and more!

\$259K (PA)
PB3518B

2011 NEW HOLLAND CR9080
1221 SHRS, 790CP PUP, 483 HP, 350 BU, TRANS STD HYDRO, ABR HANDLING & UNLDG, AUTOGUID NAV/III W/GPS, AXLE DIFF LOCK, DUALS, LONG AUGER, LEATHER, RED CHOPPER

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QUAD TRAC**

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**2005 CIH
AFX 8010**

1865 hrs, lat tilt, unload extension, AFS Pro 600, big rears, headers & pickups available.. **\$69,800**



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2014 CHALLENGER MT765D
620 hrs, 350 HP, Trimble Autopilot, 18" tracks, PTO, 3PH, 30" track avail. **\$229,800**
exc. cond. Lease avail....

2007 GLEANER A75
1426 hrs, RWA, GTA monitor, Redekop chopper, AHHC, pickups & duals available **\$89,800**



2003 NH CR940
2588 hrs, chopper, spreader, unload auger extension, 900/60R32 fronts. **\$49,800**
headers/pickups available....

1991 JD 9501
914 pickup, 1300 hrs, 2 spd cyl, chopper, shedded, w/monitor..... **\$14,980**

AGRICULTURE



2010 JD 640D
40' Hydrfloat, transport, DKD, hyd. header tilt, excellent condition..... **\$38,800**

2015 MD FD75-D
45' FlexDraper, pea auger, DKD, transport AHHC, tilt, not much use, for CNH, others available..... **\$83,800**



2003 FRONTIER GC1108 GRAIN CART
875 Bushel, PTO drive, 30.5x32 radials, roll tarp, field ready **\$25,900**

2012 BRENT 882 GRAIN CART
850 bu, 1000 PTO, hyd. spout, 500 bu/minute, very good condition **\$37,800**

CONSTRUCTION



1997 CAT D6M LGP DOZER
Undercarriage 80%, 28" pads, 3 shank hyd ripper, ROPS with cage, 19,274 hrs **\$74,800**

2006 JD 270C LC
Hydraulic excavator, 10,464 hrs, 12' stick Q/C bucket **\$69,800**



2013 JD 210K EP
Skip Loader, 1336 hrs, 4WD, forks, canopy, personnel carrier, excellent condition..... **\$39,800**

2005 VOLVO BL70
6764 hrs, 4wd, cab, diff lock, 6,953 lb lift capacity..... **\$19,900**

CONSTRUCTION



2013 FARESIN FH700-10F
Telehandler, 10m reach, 7,000 Kg lift, 4WD, 4 wheel steer, 6,354 hrs..... **\$44,800**

2013 CAT TL943C
Telehandler, 1417 hrs, 9000 lb, 43' reach, 4WD, 4W steer, aux hyds, excellent condition **\$89,800**



2008 GENIE S45 BOOM LIFT
4048 hrs, 45' lift, Deutz diesel, 8' platform, 500lb capacity **\$19,800**

IDAHO-NORLAND SNOW BLOWER
15,888 miles, 4 wheel steer, air brakes, Detroit V8 blower engine, Detroit V6 drive engine **\$18,900**

TRUCK & TRAILER



1994 WESTERN STAR 4964F
Crane truck, 584,000 Km, T/A, Cat 3406, Eaton 18 spd, Ferrari 8300 Kg crane, fresh safety..... **\$19,800**

2005 STERLING L9500 T/A DUMP TRUCK
Cat C15, 10 speed Eaton 15' gravel box, fresh SK safety **\$39,800**



2006 DOEPKER
Super B grain trailers, steel, A/R, scales, 11R24.5, 2018 safety **\$39,800**

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7,000 lb axles, 6' ramps, max cargo 17,204 lbs..... **\$8,900**

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3.25"x6' Rd Treated Post \$4⁸⁹
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4.25"x6' Rd Treated Post \$6⁹⁹
4.25"x7' Rd Treated Post \$8⁶⁹
4.25"x8' Rd Treated Post \$9⁴⁹
5.25"x7' Rd Treated Post \$10⁹⁹
5.25"x8' Rd Treated Post \$13⁴⁹



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FARM TRACTORS

2013 JOHN DEERE 9360R ART. 4WD, PS, GREENSTAR, DLX CAB
 2013 JOHN DEERE 9360R ART. 4WD, PS, GREENSTAR, DLX CAB
 2012 JOHN DEERE 8285R PREMIUM 4WD, CAB, AIR
 2012 JOHN DEERE 8285R MFWD, IVT, CAB
 2015 JOHN DEERE 5085M MFWD, 540HRS, LDR, ROPS, P.REV
 2014 JOHN DEERE 6170R MFWD, H380 LDR, CAB
 2014 JOHN DEERE 6170R 4WD, LDR, CAB, AIR
 2012 JOHN DEERE 5085M MFWD, H260 LDR
 2012 JOHN DEERE 6115R MFWD, CAB
 2012 JOHN DEERE 6125R MFWD, CAB
 2012 JOHN DEERE 7230 MFWD, CAB SUSP
 2012 JOHN DEERE 6115R 4WD, CAB, AIR
 2012 JOHN DEERE 6125R 4WD, CAB, AIR
 2012 JOHN DEERE 7230 PREMIUM MFWD/TLS, CAB, AIR
 2012 JOHN DEERE 5075M MFWD, 2117 HRS, ROPS
 2012 JOHN DEERE 5085M 4WD, LDR
 2011 JOHN DEERE 5065E 2WD
 2011 JOHN DEERE 7330 MFWD, IVT, CAB
 2011 JOHN DEERE 7330 PREMIUM 4WD, CAB, AIR
 2010 JOHN DEERE 7230 MFWD, CAB
 2010 JOHN DEERE 7230 PREMIUM MFWD, CAB, AIR
 2008 JOHN DEERE 6430 MFWD, CAB
 2008 JOHN DEERE 6430 PREMIUM 4WD, CAB, AIR
 2007 JOHN DEERE 7520 MFWD, IVT, CAB
 2007 JOHN DEERE 7520 4WD, CAB, AIR
 2006 JOHN DEERE 6320M MFWD, FRNT HITCH, CAB
 2006 JOHN DEERE 6320L 4WD, CAB
 2005 JOHN DEERE 6420 MFWD, IVT 40K, CAB
 2004 JOHN DEERE 7820 MFWD, 3393 HRS, CAB, 42" DUALS
 2003 JOHN DEERE 8520 4WD, CAB, DUALS, SUSP, 4450 HRS
 2003 JOHN DEERE 7520 741 LDR, CAB, AIR
 2002 JOHN DEERE 7410 4WD, CAB, AIR
 2000 JOHN DEERE 9200 ARTICULATING 4WD, CAB, AIR, 620/42 DUALS
 1998 JOHN DEERE 8300 4WD, CAB, AIR
 1994 JOHN DEERE 7800 4WD, CAB
 1992 JOHN DEERE 3255 4WD
 JOHN DEERE 8770 CAB, 620/42 DUALS
 JOHN DEERE 8300 MFWD, CAB
 JOHN DEERE 7410 MFWD, CAB
 JOHN DEERE 7220 MFWD, 980 LDR, CAB
 JOHN DEERE 7520 MFWD, 741SL LDR, IVT
 JOHN DEERE 7810 4WD
 JOHN DEERE 8430 ARTICULATING 4WD, PTO, 3PT HITCH
 JOHN DEERE 4230 4WD, CAB, AIR
 JOHN DEERE 7210 4WD, LDR, CAB, AIR
 JOHN DEERE 6430 2WD, CAB, AIR
 JOHN DEERE 2355 2WD, CAB, AIR
 JOHN DEERE 2355 2WD, CAB, AIR
 JOHN DEERE 2750 2WD
 JOHN DEERE 2750 2WD, CAB, AIR
 JOHN DEERE 2950 2WD
 JOHN DEERE 2950 4WD, LDR, CAB
 JOHN DEERE 301A 2WD
 JOHN DEERE 4020 2WD
 JOHN DEERE 4030 2WD
 JOHN DEERE 7810 4WD, CAB, AIR
 JOHN DEERE 7810 4WD, 4 REMOTES
 JOHN DEERE 8100 4WD, CAB, AIR
 JOHN DEERE 3155 4WD, LDR, CAB
 JOHN DEERE 3525 4WD, LDR, CAB, AIR
 JOHN DEERE 6410 4WD, LDR, CAB, AIR
 JOHN DEERE 6420 4WD, LDR, CAB, AIR
 JOHN DEERE 6320 MFWD, LDR, CAB, AIR
 JOHN DEERE 5510 MFWD, LDR, ROPS
 JOHN DEERE 4630 2WD, CAB, AIR
 JOHN DEERE 2950 MFWD, CAB, AIR
 JOHN DEERE 6200 MFWD, LDR, CAB, AIR
 JOHN DEERE 1030 2WD
 AGCO LT70 4WD, LDR, CAB
 ALLIS CHALMERS 190 XT SERIES III 2WD, CAB
 ALLIS CHALMERS 6060 2WD, LDR, CAB, AIR
 CASE 430 2WD
 2014 CASE IH STIEGER 420HD 737 HRS, PTO
 2010 CASE IH 385 STEIGER ARTICULATING 4WD, CAB, AIR
 2014 CASE IH 235 MAGNUM 4WD, CAB, AIR, DUALS
 2006 CASE IH MX305 MAGNUM 4WD, CAB, AIR, DUALS
 2011 CASE IH 210 MAGNUM 4WD, CAB, DUALS, AIR, 2100 HRS
 2009 CASE IH 180 PUMA LDR, CAB, AIR
 2015 CASE IH FARMALL 115U LDR, CAB
 2014 CASE IH 130 PUMA 4WD, CAB, AIR
 2013 CASE IH 160 PUMA 4WD, CAB, AIR, DUALS
 2012 CASE IH FARMALL 65 4WD, LDR
 2010 CASE IH FARMALL 95 4WD, LDR

2008 CASE IH FARMALL 105U LDR, CAB, AIR
 CASE IH 5088 DUALS
 CASE IH FARMALL 90C 4WD, LDR
 CASE IH MXU 125 4WD, LDR
 CASE IH FARMALL 50B 4WD, L350LDR, CAB
 CASE IH MXU 110 4WD, CAB, LDR
 CASE IH 4230 XL 2WD, CAB, AIR
 CASE IH 5230 2WD, CAB
 CASE IH 7120 4WD, CAB, AIR
 CASE IH JX95 GINSENG 4WD, CANOPY
 CASE IH 5220 LDR, CAB, AIR
 CASE IH 685 4WD, LDR, CAB
 CASE IH FARMALL 95 LDR, CAB, AIR
 CASE IH JX1100U LDR, CAB, AIR
 COCKSHUTT 1650 2WD, 2728 HRS
 COCKSHUTT 1655 2WD, LDR, CANOPY
 2009 DEUTZ 100F AGRO PLUS ORCHARD 4WD, NARROW, CAB, 2452 HRS
 2009 DEUTZ 100F AGRO PLUS ORCHARD 4WD, NARROW, CAB, 4978 HRS
 2009 DEUTZ 100F AGRO PLUS ORCHARD 4WD, NARROW, CAB, 5609 HRS
 2009 DEUTZ 100F AGRO PLUS ORCHARD 4WD, NARROW, CAB, 6035 HRS
 2009 DEUTZ 100F AGRO PLUS ORCHARD 4WD, NARROW, CAB, 6500 HRS
 2009 DEUTZ 75F AGRO PLUS ORCHARD 4WD, NARROW, 5955 HRS
 2009 DEUTZ 75F AGRO PLUS ORCHARD 4WD, NARROW, 6072 HRS
 DEUTZ 7085 LDR, CAB, AIR
 1976 FORD 7600 2WD, CAB, 3626 HRS
 FORD 6700 2WD, CAB, AIR
 INTERNATIONAL 884 2WD
 2014 KUBOTA M7040 MFWD, LDR, CAB
 2014 KUBOTA M7040 LDR, CAB, AIR
 KUBOTA M9540 4WD, CAB, HEAT
 KUBOTA M6040 4WD, LDR, CAB, AIR
 LANDINI 6830 2WD, 2 REMOTES
 LANDINI 8880 4WD, CAB, AIR
 MAHINDRA 6010 4WD, ML156 LDR, CAB, AIR, 150 HRS
 2012 MASSEY FERGUSON 7485 4WD, LDR, CAB, AIR
 2009 MASSEY FERGUSON 6497 4WD, CAB, AIR, DUALS
 2008 MASSEY FERGUSON 5445 4WD, CAB, LDR
 1995 MASSEY FERGUSON 8120 4WD, CAB, AIR, DUALS
 MASSEY FERGUSON 3125 MFWD, Q55 SL LDR, CAB
 MASSEY FERGUSON 8120 MFWD CAB
 MASSEY FERGUSON 5613 4WD, CAB, AIR
 MASSEY FERGUSON 1085 2WD, CAB
 MASSEY FERGUSON 265 2200 HRS
 MASSEY FERGUSON 235
 MASSEY FERGUSON 245 2WD
 MASSEY FERGUSON 6475 4WD, LDR
 MASSEY FERGUSON 230 2WD, LDR
 MASSEY FERGUSON 390 4WD, LDR, CAB, AIR
 2007 MCCORMICK ZTX280 4WD, CAB, AIR, DUALS, 350 HRS
 2004 NEW HOLLAND TM190 4WD, CAB
 1998 NEW HOLLAND 8160 4WD, CAB, AIR
 1996 NEW HOLLAND 8160 4WD, CAB, AIR
 NEW HOLLAND TV140 BI-DIRECTIONAL, 7614 LDR
 NEW HOLLAND TM190 MFWD, FRNT HITCH, CAB
 NEW HOLLAND TL100A 4WD, OPEN, QUICKIE 240 LDR
 NEW HOLLAND TL80 4WD, LDR
 NEW HOLLAND TN75A 4WD, LDR
 NEW HOLLAND TM165 4WD, CAB, AIR
 NEW HOLLAND T4.115 4WD, LDR
 NEW HOLLAND TV140 4WD, LDR, CAB, AIR
 RENAULT TX 78712 4WD, CAB, HEAT
 ZETOR 5211 2WD, CAB, AIR
 ZETOR 9540 4WD, CAB, AIR
 WHITE 2-105 2WD

COMPACT TRACTORS
 2014 JOHN DEERE 1023E MFWD, HYDRO, LDR
 2013 JOHN DEERE 3520 MFWD, HYDRO, CAB
 2013 JOHN DEERE 1025R 60" MOWER
 2009 JOHN DEERE 2320 MFWD, 200CX LDR
 2002 JOHN DEERE 4010 MFWD, HYDRO, 54" DECK, 410 LDR
 CUB CADET 7264 4WD, 60" MOWER DECK, 86 HRS
 2000 KUBOTA L3010 MFWD, HYDRO
 KUBOTA B2400 4WD, R62 MOWER DECK
 NEW HOLLAND TC40 4WD
 YANMAR YM226D 4WD, KWIK BLADE
 KIOTI DK65 4WD, LDR, BACKHOE

COMBINES
 2014 JOHN DEERE S680 STS PRWD
 2014 JOHN DEERE S680 STS PRWD
 2014 JOHN DEERE S670 PRWD
 2012 JOHN DEERE S660 2WD
 2006 JOHN DEERE 9660 2WD

2003 JOHN DEERE 9660 PRWD
 2003 JOHN DEERE 9650 STS 4WD
 2002 JOHN DEERE 9650 STS PRWD
 1999 JOHN DEERE 9610 MAXIMIZER 4WD
 1999 JOHN DEERE 9610 MAXIMIZER 4WD
 1989 JOHN DEERE 9500 4WD
 JOHN DEERE 6620 HYDRO
 1994 CASE IH 2166 4WD, HYDRO
 1989 GLEANER R50
 1989 GLEANER R50
 INTERNATIONAL 82 PICKUP HEAD
 2009 MASSEY FERGUSON 9695 FIELDSTAR II 4WD

COMBINE HEADS
 2010 JOHN DEERE 635F 35' FLEX
 2010 JOHN DEERE 635F 35' FLEX
 2009 JOHN DEERE 630F 30' FLEX
 2009 JOHN DEERE 635F 35' FLEX
 2004 JOHN DEERE 635F 35' FLEX
 2005 JOHN DEERE 1293 12R/30", KNIFE ROLL
 2006 JOHN DEERE 630F 30' FLEX
 2006 JOHN DEERE 635F 35' FLEX
 CASE IH 1020 22.5' FLEX
 CASE IH 1063 6R NARROW HEAD
 2010 HARVEST TEC 5308
 HORST CHC HEADER CART
 HORST CHC HEADER CART
 2008 MASSEY FERGUSON 8200-30F 30' FLEX
 NEW HOLLAND 6R NARROW HEAD
 HORST HEADER CART (QTYOF15) UNUSED

LARRY HAYES EQUIPMENT
 CASE IH MX270 4WD, DUALS
 CASE IH MX255 4WD, DUALS
 CASE IH MX255 4WD, DUALS
 CASE IH PUMA 210 LDR, 4WD, CAB
 CASE IH 2388, CH 30' GRAIN & 8R CORN
 CASE IH 1240 PLANTER 10X23" ROWS
 CASE IH 12 ROW 3PT PLANTER
 CASE IH 6500 SOIL SAVER
 CASE IH 8435 BALER
 CASE IH 330 TURBO TILL DISC
 5 BRUN GRAIN BOXES & WAGONS
 MASSEY FERGUSON 265 2200 HRS
 WHITE 6700 6 ROW PLANTER - C/W UNVERFERTH NO-TILL
 UNVERFERTH 7250 GRAIN BUGGY
 TWO HEAVY WAGONS - C/W TANKS
 WHITE 281 OFFSET DISCS

ROB & BILL VAN BOMMEL
 JOHN DEERE 8100 -4WD, CAB, AIR, AXLE, DUALS 4372 HRS
 JOHN DEERE 7420 -2WD, CAB, AIR, WEIGHTS, 4200 HRS
 JOHN DEERE 750 NO TILL DRILL - C/W MARKET LOADING AUGER
 PRECISION 750 GALLON SPRAYER - C/W 90' BOOMS, LOADED
 JOHN DEERE 2810 FURROW VARI WIDTH PLOW
 WHITE 253 21" WHEEL DISC
 JOHN DEERE 7000 6 ROW 30" CORN PLANTER - C/W KEARNEY UNITS
 110 LITRE TANK, TRAILER & PUMP
 (2) MARKET 400 BUSHELL GRAVITY BOXES - C/W HORST, 12 TON
 NUHN 3600 TANDEM LIQUID MANURE TANK
 GLENCOE SS 7400 9 SHANK SOIL SAVER
 PARKER 4000 GRAVITY BOX & HORST 12 TON WAGON

SECURED CREDITOR PACKAGE
 2004 MASSEY 6475 TRACTOR 4WD, CAB, Q1080 LDR
 WHITE 2-105 TRACTOR 2WD, CAB
 COCKSHUTT 1655 TRACTOR 2WD, CAB
 GLEANER N7 COMBINE
 HESSTON 4755 SQUARE BALER
 2008 MASSEY 1745 BALER
 2010 GMC PICKUP
 2004 PONTIAC GRAND AM
 2001 WESTERN STAR LOG TRUCK
 1998 WESTERN STAR TRUCK TRACTOR
 1996 WESTERN STAR TRUCK TRACTOR
 1998 DELOUPE TRAILER
 CASE IH 5100 SEED DRILL

TRACTOR/LOADER/BACKHOES & WHEEL LOADER
 2000 JOHN DEERE 710D 4WD, LDR, BACKHOE, CAB, AIR
 JOHN DEERE 310SJ LDR, BACKHOE, CAB, HEAT
 JOHN DEERE 310C 4WD, EXTENDA-HOE, CAB

JOHN DEERE 410G 4WD, EXTENDA-HOE, CAB, AIR
 CASE 580M SERIES II 4WD, LDR, BACKHOE
 CASE 580 SUPER M BACKHOE
 2002 NEW HOLLAND LB90 4WD LDR, BACKHOE
 2014 JOHN DEERE 244J 4WD, CAB, AIR
 2017 CATERPILLAR 906M LDR CAB, AIR **UNUSED**
 2008 THOMAS B205 STAND ON WHEEL LDR

HYDRAULIC EXCAVATORS
 2013 JOHN DEERE 17D EXCAVATOR ROPS, RUBBER TRACKS
 2013 JOHN DEERE 17D EXCAVATOR 800 HRS
 2012 HITACHI ZX85USBL3-C
 UNUSED HITACHI ZX55 CAB, BLADE, AUX HYDRAULICS
 UNUSED HITACHI ZX55 CAB, BLADE, AUX HYDRAULICS
 2014 CATERPILLAR 305E CAB, AUX HYDRAULICS
 2014 CATERPILLAR 308E CAB, AUX HYDRAULICS
 2011 CATERPILLAR 312D CAB, AUX HYDRAULICS
 2011 CATERPILLAR 320DL CAB, AIR, AUX HYDRAULICS
 2012 KOMATSU PC138US CAB, AIR, AUX HYDRAULICS

SKID STEERS
 2002 JOHN DEERE 240 SKID STEER
 2014 JOHN DEERE 333E TRACKED SKID STEER CAB
 2008 JOHN DEERE 317 SKID STEER
 2011 BOBCAT T190 TRACKED
 2007 BOBCAT A300 CAB, AIR, AUX HYDRAULICS, SKID STEER
 BOBCAT 463 AUX HYDRAULICS, SKIDSTEER
 CASE 75XT SKID STEER
 CASE XT40 SKID STEER
 2003 CASE IH 40XT SKID STEER
 2012 CATERPILLAR 232B 975HRS, SKID STEER
 2005 CATERPILLAR 252B AUX HYDRAULICS, SKID STEER
 2004 NEW HOLLAND LS120 CAB, SKID STEER
 NEW HOLLAND LS170 AUX HYDRAULICS, CAB, HEAT, SKID STEER

COLLECTIBLE FARM TRACTORS
 CASE VA COLLECTOR 2WD
 FARMALL 400 ANTIQUE 2WD
 FARMALL 560 ANTIQUE 2WD
 FARMALL L560 ANTIQUE 2WD
 FARMALL A ANTIQUE 2WD
 FARMALL SUPER AA ANTIQUE 2WD, CULTIVATOR, WATER TANK
 FORD 8N ANTIQUE 2WD
 FORD 801 SELECT-O-SPEED 2WD

GENERATORS
 MQ POWER 25 DIESEL GENERATOR SET -10621 HRS
 MQ POWER 25 DIESEL GENERATOR SET -10924 HRS
 MQ POWER 25 DIESEL GENERATOR SET -15854 HRS
 MQ POWER 25 DIESEL GENERATOR SET -16897 HRS
 MQ POWER 25 DIESEL GENERATOR SET -17693 HRS
 MQ POWER 25 DIESEL GENERATOR SET -18748 HRS
 MQ POWER 25 DIESEL GENERATOR SET -7814 HRS
 MQ POWER 45 DIESEL GENERATOR SET -18019 HRS

GRAIN HANDLING
 BRENT 472 GRAIN BUGGY
 2014 BUHLER FARM KING 1394 13"X95" SWING AUGER
 KILLBROS 350 GRAVITY BOX
 KILLBROS 385 GRAVITY BOX, STEEL EXT.
 KILLBROS 385 GRAVITY BOX, WOOD EXT.
 MARKET 2900 GRAVITY BOX
 UNVERFERTH 275 GRAIN BOX, KILLBROS 1072 10 TON WAGON

HAY EQUIPMENT
 2014 JOHN DEERE 388 REAR MOWER CONDITIONER **UNUSED**
 2015 JOHN DEERE 131 FRONT MOWER CONDITIONER **UNUSED**
 2012 JOHN DEERE 946 MOCO 13', V-TINES, CENT. PIVOT, 2PTH
 2001 JOHN DEERE 446 ROUND BALER
 JOHN DEERE 435 NET BALER
 CASE IH RBX 453 ROUND BALER, NET WRAP
 CASE IH 8590 SQUARE BALER
 1992 GEHL 1465 ROUND BALER
 GEHL 1580 FORAGE BLOWER
 2009 KEVERNLAND 3532T & 5090MT TRIPLE MOWER
 COMBO, 29.5 FT WIDE, V-TINES, MONITOR
 KUHN 1034 BALE ACCUMULATOR
 KUHN F3536C DISCBINE
 MASSEY FERGUSON 1734 4WD BALER
 2002 NEW HOLLAND 488 9', RUBBER ROLLS, 540 PTO
 2000 NEW HOLLAND 1431 DISC MOWER
 NEW HOLLAND BR780 BALER
 NEW HOLLAND 4845 BALER
 NEW HOLLAND BK7060 ROTO CUT, NET WRAP, ONLY 3000 BALES
 NEW HOLLAND 492 9' SIDE PULL, SICKLE, RUBBER ROLLS, HYD TONGUE

NEW HOLLAND BR7060 ROUND BALER
 NEW HOLLAND BR740 ROUND BALER
 NEW HOLLAND BR740A ROUND BALER
 NEW HOLLAND 575 SQUARE BALER
 NEW HOLLAND 472 7' HAYBINE
 NEW HOLLAND 489 HAYBINE
 NEW HOLLAND 492 9' HAYBINE
 NEW HOLLAND 256 HAY RAKE
 NEW HOLLAND 1411 10' DISCBINE
 NEW HOLLAND 1432 DISCBINE
 TANUTTY 8 WHEEL RAKE

LAWN & GARDEN
 JOHN DEERE X540 54" CUT, 860 HRS
 JOHN DEERE B01600 BATTING MOWER
 HJP260CT 3PTH WOOD CHIPPER
 2013 KUBOTA ZD331 ZERO TURN DIESEL
 2010 KUBOTA BX1860 4WD, 54" MOWER DECK, 420 HRS
 2009 KUBOTA BX1860 4WD, 60" FRONT BLADE, 470 HRS
 1984 KUBOTA B6100 4WD, 48" MOWER DECK, 1450 HRS

PLANTING & EQUIPMENT
 GREAT PLAINS 13 21 RUN SEED DRILL
 INTERNATIONAL HARVESTER 510 21 RUN GRAIN DRILL
 MASSEY FERGUSON 2 ROW CORN PLANTER
 2011 VADERSTAD TEMPO F 7 ROW SEED DRILL **UNUSED**
 2017 VADERSTAD TEMPO F 8 ROW AIR SEED DRILL **UNUSED**
 2013 VADERSTAD TEMPO F 8 ROW AIR SEED DRILL -FERTILIZER
 DEMO

SPRAYERS
 HARDI NAVIGATOR 1000 GAL, 80' BOOM
 PRECISION 1000 GAL, 90' BOOM
 PRECISION 750 GAL, 90' BOOM
 AGROTREND AT0500T 45' BOOM
 GREGSON 1300 90' BOOM
 HARDI E5C500
 RITTENHOUSE 200 GAL

TANKER & TRAILERS
 ALMAC ALUMINIUM (B-TRAIN) TRI-AXLE 20,000 LITRE TRAILER
 ALMAC ALUMINIUM (B-TRAIN) TRI-AXLE 17,000 LITRE TRAILER

TELEHANDLERS
 2013 JCB536-60 AGRI PLUS TELEHANDLER
 2006 MANITOU MLT627 TELEHANDLER
 2005 NEW HOLLAND MLM435A TELEHANDLER
 JCB541-70 AGRI XTRA LOAD TELEHANDLER

TILLAGE
 JOHN DEERE 940 CULTIVATOR 33'
 JOHN DEERE 220 WHEEL DISC 21'
 AERWAY AWV3-A7-4-CCT 48" AERATOR
 AERWAY AWXT100-AG-3-CCT 10' AERATOR
 BIG JIM 20' CROW FOOT PACKER
 BUSH HOG 445 24' DISC
 CASE IH 4600 CULTIVATOR 30"
 CASE IH 6500 9 SHANK SOIL SAVER
 CASE IH 3900 24" WHEEL DISC
 CASE IH 3950 30" WHEEL DISC
 DMI LAND CRUMBLER 25"
 HUTCHMASTER RPW 16" DISC
 KEWANEE TINE CULTIVATOR 30"
 2010 LEMKEN RUBIN DISC & ROLLING HARROWS
 RJ 32' CROW FOOT PACKER
 SOIL MASTER 9 SHANK DISC CHISEL
 2003 SUNFLOWER 4411 -5 DISC CHISEL
 TURNCO 15' PACKER
 WILRICH 4411 7 SHANK CUTTER CHISEL SOIL SAVER
 WILRICH 52" "C" TYNE DBLE FOLD CULTIVATOR
 25" HYDRAULIC FOLD CROW FOOT PACKER

UTILITY VEHICLES/ATV
 2015 JOHN DEERE TH 6X4 GAS, PWR LIFT, FRNT BRUSH & FENDER
 2015 JOHN DEERE TH 6X4 GAS, PWR LIFT, 432 HRS
 2014 JOHN DEERE XUV 550 G&Y GAS, BIG HORN, MAN DUMP
 2014 JOHN DEERE XUV 550 G&Y GAS, BIG HORN, MAN LIFT
 2014 JOHN DEERE XUV 855D G&Y, DSL, PWR STEER, BIG HORN
 2011 JOHN DEERE 825I G&Y GAS, MAN. LIFT, WINDSHIELD
 2008 JOHN DEERE 620I G&Y 4WD GAS, PWR LIFT, BRUSH GUARD
 2011 ARCTIC CAT 550TRV 4WD ATV
 2015 SCOUT DSL, 2 SEATER, HYD. DUMP
 KAWASAKI KFX90 GAS MINI ATV
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SNOWBLOWERS/ SNOWPLOWS 4226

FARMKING 96" 3 PTH snowblower, hyd. chute, used 1 hour, \$3300. 306-561-7733, Blandworth, SK.

SCHULTE 9600FM front mount snowblower, low hrs., orig. cutting blade, JD models \$8900 firm. 780-853-4888, Vermilion, AB

SPRAYING EQUIPMENT

PT SPRAYERS 4238

2011 NH S1070, 120', susp. boom, 1600 US gal. poly tank, AutoBoom, Autorate, triple nozzle bodies, rinse tank with Trimble 750 w/field IQ sect control, good tires, \$31,000. 306-648-2768, Gravelbourg, SK.

SP SPRAYERS 4241



HEAVY DUTY WHEEL DOLLY. Change your sprayer tires in less than an hour! Over 250 units sold. Perfect tool for safely and quickly moving or changing large wheels and tires, \$1499. Phone 403-892-3303, Carmangay, AB., www.hdwheeldolly.com

2014 NH SP 240F-XP 275 HP 120', 1600 stainless, fully loaded incl. AIM Command, both sets tires, \$225,000. 306-948-7223.

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AGCO EAGLE 8500, 2001, 1844 hrs., 90', SS plumbing, 800 gal., new Trimble 750 EZ-Steer c/w 3 sec. controls, Raven Auto-Boom, newish 520/85R46 floaters, 320/90 R54 skinnies in good shape, fenders, front fill, very nice overall condition, \$79,000. Agriterra Equipment High River, AB., 403-652-2414 or 403-336-5106.

SPRAYING VARIOUS 4244

SKINNY TIRES: Four (4) High Clearance sprayer tires off Patriot 4-12.4x42, \$3800. Call 306-563-8765, Canora, SK.

FLOATER TIRES: Factory rims and tires: JD 4045, 710/60R46; 800/55R46; JD 4038, Case 4420, 650/65R38 Michelin tires and rims. Sprayer duals available. Phone 306-697-2856, Grenfell, SK.

TILLAGE/SEEDING

AIR DRILLS 4250

2010 BOURGAULT 3310 65', Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$135,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2001 BOURGAULT 5710 series II w/3170 tank, 29.5', single shoot, 9.8" sp., 3.5" steel packers, 3' openers, 277 monitor, \$26,500 OBO. Call 306-539-3083, Balgonie, SK.

FLEXI-COIL 51', 9", w/2320, 4" rubber packers, in-row liquid phos., exc. cond., \$20,000. 306-690-8105, Moose Jaw, 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 SEED HAWK 60' Toolbar, 12" sp., w/Seed Hawk 400 cart, 2 fans, seed & fertilizer distributing kit auger. Also NH kit & winch \$175,000. 306-449-2255, A.E. Chicoine Farm Equipment Ltd., Storthoaks, SK.

AIR SEEDERS 4253

2009 SEEDMASTER, 4 product VR, 50', 12' 8370XL 440 bu. Morris TBH, 1600 liq. cart, Raven monitor, \$180,000. Lemberg, SK. For more info, call Arne at 306-335-7494.

54' 2008 BOURGAULT 5710, good shape, new points, c/w 2013 6550 tank, X30 monitor, \$125,000 OBO. 306-567-7703 or 306-567-7184, Davidson, SK.

SEEDING VARIOUS 4259



2014 MERIDIAN 375RT Seed Tender, mint. all options, always stored inside. Asking \$27,500. 204-825-0173, Crystal City, MB.

IHC 310 DISCER, 3x12', good condition, \$2000 OBO. 306-536-5475, Regina, SK. dstrauch@accesscomm.ca

TILLAGE EQUIPMENT 4262

EZEE-ON 6650 TANDEM disc 32', 10" space, 24" front notched blades, \$46,000. Call 306-620-2218, Ituna, SK.

42' BOURGAULT 9800 chisel plow, HD double spring, w/4-bar heavy harrow, \$29,500 Cdn OBO. 218-779-1710 Delivery available

2015 DEGELMAN PRO-TILL, 33', notch discs front & back w/rubber rollers; 2012 Degelman 70' Strawmaster, ext. wear tips, 3255 Valmar w/tarp, Valmar platform, only seeded 60 ac. canola. Odessa Rock-picker Sales, 306-957-4403, 306-536-5097

JOHN DEERE MODEL 637 tandem disc, 35', very good cond, \$32,500. 306-643-2763, 306-648-7595, Gravelbourg, SK.

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

53' FRIGGSTAD CULTIVATOR, harrows, \$8000. Phone 306-459-7604, Ogema, SK. mdmellon@sasktel.net

2012 KELLO-BILT 225 TSW, 26" front and rear serrated blades. Oilbath bearings. Excellent cond. \$106-529-2871, Southey, SK

FLEXI-COIL SYSTEM 95 40' harrow packer bar, good cond., new tires 1500 ac. ago. 306-873-2208, 306-873-0077, Tisdale, AB.

31' KRAUSE 4990 tandem disc, 1998 model disc scrapers, 19 1/4" front disc, 22 1/4" back disc, nice condition, \$15,000, 306-297-7949, Shaunavon, SK.

16' MORRIS DOUBLE DISC, notched front blades, \$5500. Call 306-395-2668 or 306-681-7610, Chaplin, SK.

WANTED: STEIGER OR HESSTON V-disc. Call Robert 780-870-1407 or 780-745-2574, Lloydminster, AB.

ROME BREAKING DISC, extra heavy duty, 48" blades, 23" spacing, 9' wide, hard to find, \$35,000. 780-821-0767, LaCrete, AB.

BREAKING DISCS: KEWANEE, 15' and 12'; Rome 12' and 9'; Townler 18'-40' blades; Wishek 14' 18', and 30'; DMI 5, and 7 shank rippers.; 1-866-938-8537.

TRACTORS

CASE/IH 4286

UNRESERVED FARM & INDUSTRIAL 2 Day Auction, November 20th & 21st, 2017. CIH MX270 4WD. 519-424-1562. Preview & bid on-line: www.sunrise-equipment.com

UNRESERVED FARM & INDUSTRIAL 2 Day Auction, November 20th & 21st, 2017. 2010 CIH Steiger 519-424-1562 Preview & bid on-line: www.sunrise-equipment.com

1998 CASE/IH 9370 QuadTrac, 9700 hrs., new tracks, PS. For sale or trade on tractor with tires. 780-821-0767 LaCrete, AB.

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

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

2294 CASE FWA w/Allied 894 loader, needs powershift work, \$15,000 OBO. Chaplin, SK. 306-395-2668 or 306-681-7610.

2015 CASE 580 QT, 1029 hrs., full load, ext. warranty, PTO, eng. break, \$440,000 OBO. 403-575-5491, Brownfield, AB.

UNRESERVED FARM & INDUSTRIAL 2 Day Auction, November 20th & 21st, 2017. 2013 JD 9360R. 519-424-1562. Preview & bid on-line: www.sunrise-equipment.com

2014 JD 9460R, 4 WD, Pre DEF, 1087 hrs., Premium cab, HID lighting package, 800 metrics, 5 hyd., rear wheel weights, PTO. Tractor loaded as you could get at the time. Always shedded, exc. cond., \$307,500 OBO. 306-631-9210, 306-681-8444, Drinkwater, SK. Tysonthul@gmail.com

2013 JD 9410R, 4WD, PS, 1480 hrs., 1000 PTO, high flow hyd. w/5 remotes, leather trim, premium HID lights, 620/70R42's, \$199,500 USD. www.ms-diversified.com Call 320-848-2496 or 320-894-6560.

JD 7810, FWA, only 4500 hrs., duals, shedded; Also JD 6310 w/loader, only 1900 hrs. 780-990-8412, Edmonton, AB.

2003 JD 6920 MFWLD, 160 HP front susp., IVT trans., 5700 hours, \$47,500 OBO. 204-648-7129, Grandview, MB.

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

2008 JD 7230 Premium, MFWLD, 3 PTH, 3 hyd., w/JD 741 FEL, bucket, grapple, 2677 hrs vg. 306-625-7277, Stewart Valley, SK.

UTILITY TRACTOR: JD 6200, 2 WD, open station with loader. Call 204-522-6333, Melita, MB.

1980 JD 4440, duals, dual hyd., PTO, 9800 hrs., good cond., \$21,000. Call/text Terry at 306-554-8220, Raymore, SK.

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

CASE/IH 4286

WANTED: CASE 4 WD tractor with crab steering and PTO, in good condition. Phone 780-305-4106, Barrhead, AB.

UNRESERVED FARM & INDUSTRIAL 2 Day Auction, November 20th & 21st, 2017. 2014 CIH 420HD 519-424-1562 Preview & bid on-line: www.sunrise-equipment.com



2012 CIH 500HD, 1915 hrs., 4 remotes, tow cable, luxury cab, red leather heated seats, 16 spd. PS, 57 GPM hyd. pump, 710 tires, buddy seat, gd cond., \$248,500 OBO. Ph/tx Brandon 306-577-5678, Carlyle, SK.

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LIZARD CREEK REPAIR and Tractor. We buy 90 and 94 Series Case, 2 WD, FWA tractors for parts and rebuilding. Also have rebuilt tractors and parts for sale. 306-784-7841, Herbert, SK.

2001 MX120 w/loader; 2000 MX135; and 2008 Maxim 140 w/loader. 204-522-6333, Melita, MB.

CIH 970, 2 WD, 10,800 hrs., PS, good tires, good on fuel, AC, good cond., \$4500. Mortlach, SK., 306-631-0416, 306-355-2255.

CASE 2090, 4200 hrs., w/Case 70L loader, powershift, \$15,500 OBO. 204-278-3317 late evenings, Inwood, MB.

STEIGER 4289

STEIGER TRACTOR PARTS. New and used, from radiator to drawpin, 1969 to 1999. Give us a call 1-800-982-1769 or www.bigtractorparts.com

JOHN DEERE 4295

2000 JD 7710, 5130 hrs; 2000 JD 8310; 2001 JD 7810; 2008 JD 7830, 5200 hrs. All MFWLD, can be equipped with loaders. 204-522-6333, Melita, MB.

1975 7520 JOHN DEERE, 4wd, 7,228 hrs., new inside tires, PTO, nice condition. Call 204-867-5363, Minnedosa, MB.

2008 JOHN DEERE 9530, 4WD, 2664 hrs., Active seat, HID lights front and back, high flow hyd., 800 rubber, mint cond. Brand new engine at 2200 hrs. done by SCE Moose Jaw, \$230,000. Caron, SK. Email: camphaugfarms@gmail.com

STEVE'S TRACTOR REBUILDER specializing in rebuilding JD tractors. Want Series 20s, 30s, 40s, 50s, 7000s to rebuild or for parts. pay top \$. Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

2005 JD 7220, IVT trans., 3 PTH, 741 loader/grapple; JD 7710, FWD, LHR, 3 PTH, JD 740 loader/grapple available. 780-674-5516, 780-305-7152 Barrhead AB

UNRESERVED FARM & INDUSTRIAL 2 Day Auction, November 20th & 21st, 2017. 2012 JD 8285R. 519-424-1562. Preview & bid on-line: www.sunrise-equipment.com

1983 JD 4450 MFWLD w/Ezee-On FEL 2130 grapple, 15 spd. PS, 3 hyd., 7925 hrs showing, 14.9-26F, 20.8R32, duals avail. 306-283-4747, 306-291-9395 Langham SK

2014 JD 9460R, 4 WD, Pre DEF, 1087 hrs., Premium cab, HID lighting package, 800 metrics, 5 hyd., rear wheel weights, PTO. Tractor loaded as you could get at the time. Always shedded, exc. cond., \$307,500 OBO. 306-631-9210, 306-681-8444, Drinkwater, SK. Tysonthul@gmail.com

2013 JD 9410R, 4WD, PS, 1480 hrs., 1000 PTO, high flow hyd. w/5 remotes, leather trim, premium HID lights, 620/70R42's, \$199,500 USD. www.ms-diversified.com Call 320-848-2496 or 320-894-6560.

JD 7810, FWA, only 4500 hrs., duals, shedded; Also JD 6310 w/loader, only 1900 hrs. 780-990-8412, Edmonton, AB.

2003 JD 6920 MFWLD, 160 HP front susp., IVT trans., 5700 hours, \$47,500 OBO. 204-648-7129, Grandview, MB.

UNRESERVED FARM & INDUSTRIAL 2 Day Auction, November 20th & 21st, 2017. 2013 JD 9360R. 519-424-1562. Preview & bid on-line: www.sunrise-equipment.com

2014 JD 9460R, 4 WD, Pre DEF, 1087 hrs., Premium cab, HID lighting package, 800 metrics, 5 hyd., rear wheel weights, PTO. Tractor loaded as you could get at the time. Always shedded, exc. cond., \$307,500 OBO. 306-631-9210, 306-681-8444, Drinkwater, SK. Tysonthul@gmail.com

2013 JD 9410R, 4WD, PS, 1480 hrs., 1000 PTO, high flow hyd. w/5 remotes, leather trim, premium HID lights, 620/70R42's, \$199,500 USD. www.ms-diversified.com Call 320-848-2496 or 320-894-6560.

JD 7810, FWA, only 4500 hrs., duals, shedded; Also JD 6310 w/loader, only 1900 hrs. 780-990-8412, Edmonton, AB.

2003 JD 6920 MFWLD, 160 HP front susp., IVT trans., 5700 hours, \$47,500 OBO. 204-648-7129, Grandview, MB.

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

2008 JD 7230 Premium, MFWLD, 3 PTH, 3 hyd., w/JD 741 FEL, bucket, grapple, 2677 hrs vg. 306-625-7277, Stewart Valley, SK.

LOADERS/DOZERS 4322

ESTATE SALE: 1989 JD 245 loader, 1 owner. Will remove self leveling. All cab controls included, excellent condition, \$4500. Please call 780-312-4629, Bittern Lake, AB. ian.stewart@telus.net

2009 CIH L760 FRONT END LOADER



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MISCELLANEOUS 4325

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

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

FEED MIX CARTS w/scales: Knight 280 bu., \$5000; Gehl 500 bu., \$10,000; Kelly Ryan and Roorde feeder cart, \$2000; JD 785 spreader, \$11,000; New Idea 362 spreader, \$6500. 1-866-938-8537, Portage

RETIRING - SMALLER FARM EQUIPMENT: 1999 MX220 Case/IH tractor; 27' Flexi-Coil air drill w/7120 tank; 1995 Ford S/A dsl., grain truck; Plus more! 306-842-5036, 306-861-6466, Weyburn, SK.

CCIL MANURE SPREADER, \$600; Vermeer round baler; Two- 12'x36" culverts, cheap! 3- 16'x15" culverts; IHC side delivery rake w/steel wheels; 1000 gal. steel water tank. 204-825-8354, Pilot Mound, MB.

SUNFLOWER HARVEST SYSTEMS. Call for literature. 1-800-735-5848. Lucke Mfg., www.luckemanufacturing.com

WANTED 4328

WANTED

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

LOADER TO FIT TV140 New Holland bi-directional tractor. 780-625-5227 or 780-625-1674. Peace River, AB.

WANTED MF 36 & 360 Discers

All sizes, any condition, also parts discers, Premium Price paid for 12ft with 19" blades.
SK Farm Boys - Honest Prompt Service: Call Anytime 306.946.9669 or 306.946.7923

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

FENCING 4400

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

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

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

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WITH YOUR HELP A CURE WILL BE FOUND FOR CROHN'S DISEASE AND ULCERATIVE COLITIS

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FENCING 4400



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

FIREWOOD 4475

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



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

SEASONED SPRUCE SLAB firewood, one cord bundles, \$99, half cord bundles, \$65. Volume discounts. Call V&R Sawing, 306-232-5488, Rosthern, SK.

FORK LIFTS/ PALLET TRUCKS 4600



1976 CASE 586 rough terrain forklift, 4 speed hydro, 6000 lbs. 15' lift, 4 cylinder diesel, 5760 hrs., nice condition, \$7980. 1-800-667-4515. www.combineworld.com

GENERATORS 4725

NEW AND USED GENERATORS: 500KW Caterpillar, Perkins, Cummins, Magnum - In stock. Call 250-554-6661, Kamloops, BC. Email: denis@bcdieselgenerators.com www.bcdieselgenerators.com

NEW AND USED generators, all sizes from 5 kw to 3000 kw, gas, LPG or diesel. Phone for availability and prices. Many used in stock. 204-643-5441, Fraserwood, MB.

GENERATORS BUY DIRECT!

Generator Sets for your farm available with low monthly payments.

Free help with sizing.
Call **800-687-6879** and use discount code **WESTERN**
Diesel and Natural Gas



HEATING/ AIR CONDITIONING 4850

WWW.NOUTILITYBILLS.COM - Indoor & outdoor - coal, grain, multi-fuel, gas, oil, pellet, propane and wood fired boilers, cook stoves, fireplaces, furnaces, heaters and stoves. Athabasca, AB, 780-628-4835.

ALL CANADIAN HEATERS efficient, long-lasting coal/bio fuel boilers. 780 662-4867, Kingman, AB. www.allcanadianheaters.com

IRON/STEEL 4960

TUBING FROM 1-1/4" to 3-1/2". Sucker rod 3/4", 7/8" and 1". Line pipe and Casing also available. Phone 1-800-661-7858 or 780-842-5705, Wainwright, AB.

IRON/STEEL 4960

USED PIPE AND SUCKER RODS: 2-3/8", 2-7/8", 3-1/2" used pipe, \$36 ea; 7/8", 1" sucker rods, \$12 each. 306-460-7966, 306-460-4166, Kindersley, SK.

DRILL STEM for sale: 200 3-1/2", \$45/ea; 300 2-7/8", \$40/ea. Call 306-768-8555, Carrot River, SK.

2 & 7/8" OILFIELD TUBING, cement and plastic lined, \$25. Call 306-861-1280, Weyburn, SK.

IRRIGATION EQUIPMENT 4980

BLUE WATER IRRIGATION DEV. LTD. Reinke pivots, lateral, minigators, pump and used mainline, new Bauer travelers dealer. 25 yrs. experience. 306-858-7351, Lucky Lake, SK. www.phillsirrigation.ca

649 Allis diesel motors with pump, all sizes of alum. pipe. Call Dennis to discuss your needs! 403-308-1400, Taber, AB.

LANDSCAPING

LAWN/GARDEN 4988

WANTED: SINGLE ROW potato picker. 780-663-2201, 780-679-5606. Ryley, AB.

NURSERY/GARDENING SUPPLIES 4990



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



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

LIVESTOCK

BISON/BUFFALO 5001

BISON WANTED - Canadian Prairie Bison is looking to contract grain finished bison, as well as calves and yearlings for growing markets. Contact Roger Provencher at 306-468-2316, roger@cdnbison.com

HARMONY NATURAL BISON buying feeder, finished and cull bison. Call or text 306-736-3454, SE Sask.

QUILL CREEK BISON is looking for finished, and all other types of bison. COD, paying market prices. "Producers working with Producers." Delivery points in SK. and MB. Call 306-231-9110, Quill Lake, SK.

NILSSON BROS INC. buying finished bison on the rail, also cull cows at Lacombe, AB. For winter delivery and beyond. Smaller groups welcome. Fair, competitive and assured payment. Contact Richard Bintner 306-873-3184.

NORTHFORK - INDUSTRY LEADER for over 15 years, is looking for finished bison, grain or grass fed. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

WANTED ALL CLASSES of bison: calves, yearlings, cows, bulls. Willing to purchase any amount. dreyelts1@rap.midco.net Call 605-391-4646.

WANT TO PURCHASE cull bison bulls and cows, \$5/lb. HHW. Finished beef steers and heifers for slaughter. We are also buying compromised cattle that can't make a long trip. Oak Ridge Meats, McCreary, 204-835-2365, 204-476-0147.

60 PLAINS BISON CALVES for sale by Tender. Sale will also include 2 yearlings. Free range and grass fed. Please submit tender bids by November 4, 2017. Email to: kylie.garchinski@natureconservancy.ca or phone 306-551-3425, Claydon, SK.

KEEP JOBS IN CANADA. Elk Valley Ranches a Canadian Co. finishes bison in Canada. We are now buying cull cows, cull bulls, yearlings and calves. Paying top \$\$ with prompt payment. Kitscoty, AB, Frank at 780-846-2980. elkvalley@xplornet.com www.elkvalleyranches.com

BISON/BUFFALO 5001

HAGMAN'S TRUCKING for all your bison transport. Local and long distance. Humane and ease of loading/unloading. Can haul up to 50,000 lbs. to the USA. Call 306-773-5909, Swift Current, SK.



CANADIAN BISON ASSOCIATION'S 24TH ANNUAL CONVENTION

November 19 - 21, 2017
Delta Regina, Regina Saskatchewan

"Centuries of Bison - 150 Years as a Country"

Join the Excitement, Learn about the Industry, Meet Producers Celebrate

Bison Sale November 21st, 2017
11:00 AM John Deere Sale Arena

To Register or Obtain More Information
Call 1-306-522-4766

BUYING: CULL COWS, herd sire bulls, yearlings and calves. Now dealer for Redmond Bison mineral. Call Elk Valley Ranches, 780-846-2980, Kitscoty, AB.

farmzilla
CANADA'S AG-ONLY LISTINGS GIANT

CATTLE

AUCTION SALES 5005



MONDAY DECEMBER 11, 2017 1PM CST

***New Location**
BIRCHAM RANCH LTD.***
8 miles south of Piapot, SK.

530 TOP CUT HEIFERS

- Black Angus • Black Baldies • Red Angus
- Red Baldies • Black Simm X Black Angus
- Tan • Red Angus Simm

Video Sale - Broadcast/Bid Live on DLMS
Videos of sale lots available a week prior on DLMS

For More Information Call:
Wayne Bircham 306-662-7940
Donnie Peacock 306-662-8288
or visit our Website:
rocksolidbredheifer.com

DISPERSALS, BRED HEIFERS and more Saturday, November 18th, 1:00 PM at Johnstone Auction Mart, Moose Jaw, SK. Schmidt, Clubbe, Hill 22 and Henderson bred heifers; Andrews and Duff dispersals. View details and pictures online at: www.johnstoneauction.ca PL #914447.

Acadia Colony Charolais & Angus Bull Sale

NOVEMBER 29, 1:00 PM ON THE FARM, OYEN, AB.

Offering 40 Charolais, 40 Black Angus and 25 Red Angus Bulls. Also selling purebred commercial heifers.

Wintering and delivery available on all bulls.

For a catalogue or more information contact **Simon 403-664-8593, or T Bar C Cattle Co. 306-220-5006** (PL #116061)
View the catalogue online at www.buyagro.com



Y COULEE LAND & Cattle You Be the Judge Bull and Bred Heifer Sale, Dec. 11, 2017, 1:00 PM, NCL, Vermilion, AB. 60-2 year old Red Angus bulls. 180 traditional Simmental heifers bred to start calving Feb. 15th. 450 Red Angus/Simm. heifers bred to start calving March 15th. 120 Red Angus/Simm. heifers bred to start calving Apr. 1st. Bulls pulled after 45 days. All heifers preg. checked. Heifers on a full health program. Call 780-205-8269, 780-205-2680, thougham@littleloon.ca

AUCTION SALES 5005



BRED SALES

TUESDAY NOV 21 - 200 Head

TUESDAY NOV 28 - 100 Head

MONDAY DEC 4 - 400 Head
Six Mile & Customer

400 Red & Black Angus Influence Fancy

THURSDAY DEC 7 - 500 Head
Feature:
Denis & Arlene Unvoas Dispersal
140 Sim Angus Cross Cows
Closed herd, no brands, special rare opportunity includes 5 herd bulls which were sale toppers when bought.

Maurice Bartzens Dispersal
50 Char Cross Cows, Bred Char.
10 Hfns, bred easy calving Red Char.
July 1st turnout.

John & Ruth Magee Purebred Red Angus Production Sale,
50 head includes 20 bred hfns and all the X and Y year cows bull turn out July 22. Sold in groups for commercial people but papers available.

Darwin Dueck & Marcy Thoresen Dispersal.
16 young Black & Red Cows.

Colin & Dottie Greenwald
30 home raised powerful black brockle hfns. No brands. Turn out June 15.

Wittman Farm
30 Black Hfns - Turn out June 1st.

Wayne Flaherty
40 Red 3-4 yr old cows.

MONDAY DEC 11

13th Annual Rock Solid Bred Hfr Sale
550 head Canada's Finest
*New Location at Bircham Ranch

THURSDAY DEC 14 - 600 Head

Feature:
Tom Graham Production Sale - 80 Black Hfns

Steve Gillis - 100 Black Hfns

Gary Chamberlan - 120 Red Cow Dispersal

Peak Dot Ranch - 35 Cows

Trevor Platt Reduction - 40 Black Cows

THURSDAY DEC. 21 - 600 Head

Feature:
Norman Amthor (Poverty Valley Farms) Dispersal

150 Black Cows & 5 Rising 3 yr. Old Herd bulls.

Lawrence & Kathryn Olson Dispersal
200 Fancy Black Cows + 2 herd Bulls

Todd Dunham
40 home raised red hfns - 1200 lbs.
Turn out June 10. Pulled Aug. 15.

Donnie 306-662-8288
Lee 306-741-5701

"Canada's Source for Quality Bred Cattle"
FOR MORE INFO CALL
(306) 773-3174

BLACK ANGUS 5010

RIGHT CROSS RANCH Commercial Bred Heifer & Long Yearling Bull Sale December 4, 1:30, Right Cross Ranch sale facility, Kisbey, SK. Offering 20 long yearling Red & Black Angus bulls and 100+ commercial Black & Red Angus cross Simmental heifers, bred to calving ease Angus bulls. For catalogue or more info. contact Jim at 306-575-7608 or T Bar C Cattle Co. at 306-220-5006. View the catalogue online at: www.buyagro.com PL# 116061

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

5th ANNUAL ANGUS Harvest Classic Sale, Nov. 12th, 2:00PM at Johnstone Auction Market, Moose Jaw, SK. Offering: 50 outstanding heifer calves, bred heifers, select cow/calf pairs & embryos. For more info. or a catalogue contact Glen Gabel 306-536-1927 or T Bar C Cattle Co. 306-220-5006. View the catalogue online at: www.buyagro.com Watch and bid live at: www.liveauctions.tv (PL#116061)

CROOKED CREEK ANGUS Production Sale, Tuesday December 19th, 1:00PM at Innisfail Auction Mart, Innisfail, AB. Guest consignor K & L Angus, Linda Weins. Offering: 40 top end bred heifers, 20 bred cows, 15 yearling bulls, 15 Red Angus bred cows, 10 Red Angus bull calves. Contact: Rick & Sharon Gabert 780-998-1963, Valentina Gabert 780-916-7218, Linda Weins 780-678-6547 or Mark Holowaychuk OBI 403-896-4990. View online catalogue at: www.cattlemangement.ca On-line bidding at: www.dlms.ca

BLACK ANGUS 5010

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

RIVERBEND DISPERSAL SALE on Friday December 15th, 2:00 at Innisfail Auction Mart, Innisfail, AB. Offering over 200 PB Angus consisting of: 70 cow/calf pairs, 37 bred heifers, 37 bred cows, 14 long yearling bulls and 25 commercial bred females. Contacts: John McBride 403-505-6607, Bud McBride 403-304-2762 or Mark Holowaychuk OBI 403-896-4990. View online catalogue at: www.cattlemangement.ca On-line bidding: www.dlms.ca



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PUREBRED BLACK ANGUS long yearling bulls, replacement heifers. AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

29TH ANNUAL Keystone Classic Black & Red Angus Sale, Saturday December 2nd, 2017 at 1:00 PM, Keystone Centre, Brandon, MB. Offering 75+ females, including an elite selection of foundation bred heifers and fancy heifer calves, herd prospects and cow calf pairs. Junior discounts available. For a catalogue or more info. contact T Bar C Cattle Co. Ltd. at 306-933-4200. View the catalogue online at: www.buyagro.com PL# 116061

20 FANCY HEIFERS, bred Black Angus, bull turned out June 20, polled in 45 d., preg. checked, \$2000. 306-281-8224 Delisle, SK.

RED ANGUS 5015

RETIREMENT DISPERSAL of Angus genetics. 305 straws of semen from 7 Angus sires. 45 embryos from 4 high profile Angus cows. Ph/text for list 780-216-0220.

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

29TH ANNUAL Keystone Classic Black & Red Angus Sale, Saturday December 2nd, 2017 at 1:00 PM, Keystone Centre, Brandon, MB. Offering 75+ females, including an elite selection of foundation bred heifers and fancy heifer calves, herd prospects and cow calf pairs. Junior discounts available. For a catalogue or more info. contact T Bar C Cattle Co. Ltd. at 306-933-4200. View the catalogue online at: www.buyagro.com PL# 116061

CHAROLAIS 5055

38TH STERLING COLLECTION Charolais Female Sale, Friday, December 1st, 1:30 PM, at Saskatoon (SK) Livestock Sales. Over 54 head of quality breeding stock. Fancy show prospects to proven producers. For catalogue or info., contact Helge By 306-536-4261, or view the catalogue online at: www.bylivestock.com

NO BORDERS CHAROLAIS SALE, Tuesday Dec.

HOLSTEIN 5100

BREED HOLSTEIN HEIFER, and some jerseys for sale. Call 519-323-3074, Heifer Ville Holstein Inc., Holstein, Ont.

RED POLL 5175

TWO PUREBRED RED Polled bull calves off the cow for sale. Call 306-675-4884, 306-795-7117, Kelliher, SK.

SALERS 5185

PUREBRED SALERS HERD DISPERSAL. Details at: www.sweetlandsalers.com Ken Sweetland, Lundar, MB., 204-762-5512.

POLLED PB THICK Butt Salers long yearling bulls, excellent disposition, tested. DynaRich Salers. Richard Andersen, 403-746-2919, Eckville, AB.

SHORTHORN 5200

20TH ANNUAL SHORTHORN ALLIANCE SALE, Thursday December 14th at 1:00 PM, Saskatoon Livestock Sales. On offer will be bull calves, heifer calves and bred females. Top genetics from Western Canadian Breeders. NEW this year will be Commercial open and bred heifers from some of Saskatchewan's leading commercial breeders. For more info. contact Richard Moellenbeck 306-287-7904 or view catalogue on line at www.saskshorthorn.com

Crohn's and Colitis Canada
Crohn et Colite Canada
306-664-4420
 www.crohnsandcolitis.ca

SIMMENTAL 5205

SIMMENTAL BLACK ANGUS cross 150 cow/calf pairs bred Black Angus. Phone Brandon at 204-402-0780, Brandon, MB.

PUREBRED REGISTERED TWO-YEAR-OLD polled Simmental bull. Ran with herd of 25 females. Reason to sell: Keeping his heifers as replacements. Paid \$6500, asking \$5000. 306-484-4621, Govan, SK.

PIZZEY SIMMENTAL Private Sale of complete herd. PB Simmental cows. 80 cows plus calves. Red, Black & Fleckvieh. Preg. checked and ready to go! Donna or Calvin 204-847-2055, Fox Warren, MB.

JEWELS & DIAMONDS Simmental Production Sale, Friday November 17, 1:00 PM Ponoka Ag Events Center, Ponoka, AB. Selling Red PB, Fleckvieh, Fullblood, bred cows & heifers, open heifer calves, embryos, plus pens of commercial bred heifers. For catalogue or information, contact T Bar C Cattle Co., 306-220-5006. View the catalogue online at www.buyagro.com PL#116061.

SPECKLE PARK 5215

CWA SPECKLE PARK SALE, Wednesday November 22 at 4:30 PM. Featuring fancy heifer calves, bred heifers, herd sire prospects, embryos & semen. For more info. or a catalogue, contact T Bar C Cattle Co. Ltd. at 306-220-5006. View the catalogue online at www.BuyAgro.com PL#116061.

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

TEXAS LONGHORN 5225

HERD DISPERSAL: TEXAS Longhorn Purebred Herd Dispersal by Bon's Texas Longhorns. In purebreds since 1990, 22 cows with calves born in August and Sept. 14 yearling heifers and 2 red herd sires. Lots of solid black and red. Will turn bulls out November 10-15th unless buyer wishes to hold breeding until spring. All papers are TLBA and will transfer that way. 403-566-2232, 403-363-5732, Sunnynook, AB. Email: lstringer@xplornet.com

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

TEXAS LONGHORN & RANCH HORSE Fall Select Sale, Saturday, Nov. 18th year th, 1:00 PM, Crossroads Centre, Oyen, AB. On offer: Reg. cattle including heifer calves, bred heifers and cows, bull calves, 2 yr. old bulls. Crossbred Longhorn heifers bred Longhorn. Also good ranch broke and team roping horses. For more information, or catalogs contact: Ron Walker 403-548-6684 or 403-528-0200. Email: walkersu7texaslonghorns@gmail.com Website: www.walkerslonghorns.com

WELSH BLACK 5235

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

CATTLE VARIOUS 5240

21 BRED HEIFERS: 8 true F-1 RA cross Simm.; Also 13 straight bred Red Angus. Bred to proven calving ease bulls, with 68 & 72 lbs. birth weights. Heifers weigh 1000-1100 lbs. These are a great set of heifers. Call Harv Verishine 306-283-4666 or 306-281-5424, Langham, SK.

CATTLEMENS FINANCIAL CORP Programs for cow/calf operators and feedlots, proceeds as you sell and equity draws. 780-448-0033 or www.cattlefinance.com

3J SIMMENTAL FARMS has for sale 200 plus Simmental and Simm./Red Angus cross bred heifers, bred to Red or Black Angus. All one iron, excellent quality. They don't come any better! Call Gordon 306-327-8005, 306-327-9211, Lintlaw, SK

BURNETT 4TH ANNUAL Bred Heifer Sale, Sunday December 3, 2017 at 2:30 PM at the Ranch, 12 miles south west of Swift Current, SK. Featuring 70 Heifers bred to Black Angus and Red Angus calving ease bulls; 10 purebred Black Angus; 30 commercial Black Angus; 17 F1 Black Angus cross Tarentaise; 10 Red Angus cross Hereford; 3 Black Angus cross Shorthorn. Pregnancy tested, sound and quiet. For more info: Wyatt 306-750-7822 or Bryce 306-773-7065, wburnett@xplornet.ca

29 RED ANGUS Simmental Cross Heifers, bred Red Angus, calving ease bull, due April 1st. 306-283-9276, Langham, SK.

21 BRED HEIFERS, RWF, BWF, black. Bred Polled Hereford Red Angus, very quiet. Erwin Lehmann 306-232-4712 Rosthern SK

CATTLE VARIOUS 5240



H. S. KNILL TRANSPORT, est. 1933, specializing in purebred livestock transportation. Providing weekly pick up and delivery service across Canada/USA and Mexico. Gooseneck service available in Ontario, Quebec and USA. US and Canada customs bonded carrier. Call 1-877-442-3106, fax 519-442-1122, hsknill@pppoe.ca or www.hsknilltransport.com 155 King Edward St., Paris, ON. N3L 0A1.

CATTLE WANTED 5245

WANTED: RED OR BLACK Angus cross younger cows, lease to own. References available. 306-542-7007, Veregin, SK.

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

HORSES

HARNESS/VEHICLES 5470

HORSE COLLARS, all sizes, steel and aluminum horseshoes. We ship anywhere. Keddie's, 1-800-390-6924 or keddies.com

SET OF BRASS spotted work harness, lines, bridles and collars; Other horse related items. 306-845-2624, Spruce Lake, SK.

SWINE

SWINE VARIOUS 5670

11 WEEK OLD Mixed Pigs, some uncastrated, \$60/ea.; Butcher Sows, live pick-up, \$200 OBO. 306-540-6216, Hazel Dell, SK.

SELLING: SERVICEABLE AGE BOARS, York and York cross; Also butcher sows. Phone 306-336-2763, Lipton, SK.

PIGS VARIETY ETC. Butcher and Weaners, range fed, no hormones. 306-342-4662, Glaslyn, SK.

SPECIALTY

ELK 5760

ELK WANTED! If you have elk to supply to market let AWAPCO be your first choice. \$11.50/kg. Call our office at 780-980-7589, info@wapitiriver.com

NORTHFORK - INDUSTRY LEADER for over 15 years, is looking for Elk. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

LIVESTOCK EQUIPMENT 5790

FREESTANDING PANELS: 30' windbreak panels; 6-bar 24' and 30' panels; 10', 20' and 30' feed troughs; Bale shredder bunks; Silage bunks; Feeder panels; HD bale feeders; All metal 16' and 24' calf shelters. Will custom build. 306-424-2094, Kendal, SK.

RENN 12' 10 HP roller mill, large rolls, new style, vg cond., half price of new, \$6500, can deliver; FarmKing PTO roller mill vg cond, \$2950. 204-729-5162, Brandon, MB.

NH 357 MIX MILL, always shedded, excellent working condition. Willmott Ranch, Pense, SK. Call 306-345-2046.

CATTLE SHELTER PACKAGES or built on site. For early booking call 1-800-667-4990 or visit our website: www.warmanhomecentre.com

STEEL VIEW MFG. Self-standing panels, windbreaks, silage/hay bunks, feeder panels, sucker rod fence posts. Custom orders. Call Shane 306-493-2300, Delisle, SK. www.steelviewmfg.com

VARIOUS BALE PROCESSORS: Highline and Bale King. Call Willie 204-750-2384, St. Claude, MB. www.gmdurmoforms.com

SVEN ROLLER MILLS. Built for over 40 years. PTO/elec. drive, 40 to 1000 bu./hr. Example: 300 bu./hr. unit costs \$1/hr. to run. Rolls peas and all grains. We regroove and repair all makes of mills. Call Apollo Machine 306-242-9884, 1-877-255-0187. www.apollomachineandproducts.com

PAYSAN LIVESTOCK EQUIPMENT INC. We manufacture an extensive line of cattle handling and feeding equipment including squeeze chutes, adj. width alleys, crowding tubs, calf tip tables, maternity pens, gates and panels, bale feeders, Bison equipment, Texas gates, steel water troughs, rodeo equipment and garbage incinerators. Distributors for El-Toro electric branders and twine cutters. Our squeeze chutes and headgates are now avail. with a neck extender. Ph 306-796-4508, email: ple@sasktel.net Web: www.paysen.com

FROSTFREE NOSEPUMPS: Fully sustainable livestock watering. No power required to heat or pump. Prevents contamination. Grants available. 1-866-843-6744. www.frostfreenosepumps.com

FFS- FUCHS FARM SUPPLY is proud announce that we are the new Farm Aid Manufacturing Dealer for Sask. Stocking mix wagons and a full supply of parts. 306-762-2125, Vibank, SK. www.fuchs.ca

NEW HOLLAND 358 mix mill, 1000 PTO, excellent condition, like new, \$8700. 306-827-2180, Radisson, SK.

354 NEW HOLLAND mix mill, always shedded, Call 306-840-7533, Redvers, SK.

GREG'S WELDING: Freestanding 30' 5 bar panels, all 2-7/8" drill stem construction, \$470; 24x5.5' panels, 2-7/8" pipe w/5-1" sucker rods, \$340; 24x6' panels, 2-7/8" pipe with 6-1" rods, \$375; 30' 2 or 3 bar windbreak panels c/w lumber. Gates and double hinges avail. on all panels. Belting troughs for grain or silage. Calf shelters. Del. avail. 306-768-8555, Carrot River, SK.

MISC. ARTICLES 5850

NEW 8' TRUCK cap, white in colour; Wheelchair new; Scooter; Treadmill, like new. 306-233-5241, Wakaw, SK.

ORGANIC PRODUCTS

CERTIFICATION SERVICES 5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agriologist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or info@pro-cert.org

GRAINS 5947

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehege Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

farmzilla
 CANADA'S AG-ONLY LISTINGS GIANT
 PRINT | MOBILE | ONLINE

PERSONAL 5950

PERSONAL ADS
 Personal Advertisements will not be accepted over the telephone. Only those advertisements carrying the written signature of the advertiser will be published. (Although name and address will not appear in one's ad, we must have this information for our files.) Full payment must also accompany Personal Ads. Replies to Western Producer box numbers will be forwarded for two months.

SINGLE MALE, 44, would like to meet single female 35 to 50 years for friendship and companionship. Someone who likes the farm and country life. Reply w/photo to: Box 5609, c/o The Western Producer, Saskatoon, SK S7K 2C4

PERSONAL VARIOUS 5952

ARE YOU SINGLE and would rather be in love? Camelot Introductions has been successfully matching people for over 23 years. In-person interviews by Intuitive Matchmaker in MB and SK. Call 306-978-LOVE (5683), 204-257-LOVE (5683) www.camelotintroductions.com

PETS

THE ANIMAL PEDIGREE ACT No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

WORKING DOGS 5973

IRISH WOLFHOUND & GREYHOUND'S for sale. Call 306-290-8806, Dundurn, SK.

PUREBRED BLUE HEELER PUPS, from good working parents, ready to go, have raised Blue Heelers for 45 years. 204-365-0066, Shoal Lake, MB.

TRUE BLUE HEELERS last litter of 2017 is here! With 1st shots, de-wormed, \$400. 306-492-2447, 306-290-3339, Clavet, SK.

COLLIE AUSTRALIAN SHEPHERD cross 10 month female pup, \$50. Call 306-532-4843, Wapella, SK.

10-WEEK-OLD AUSTRALIAN HERD Pups, \$500/each, allowance for longer distance pickup. 204-827-2805, Glenboro, MB.

BORDER COLLIE PUPS from working parents, ready to go Dec 6th, vet check & 1st shots, \$500. 587-219-0562, Consort, AB.

COLLIE AUSTRALIAN SHEPHERD cross puppies, ready to go Nov. 10th, \$50 each. Call 306-532-4843, Wapella, SK.

REAL ESTATE

B.C. PROPERTIES 6110

SOOKE, BC.: 1 hour west of Victoria. 4200 sq. ft., 4 bdrm., 3 bath, 1/2 acre, ocean view; Plus adjoining 1/3 acre C3 commercial with buildings. MLS® 378889 & MLS® 381189. Call 250-642-5172.

COMMERCIAL BUILDINGS/LAND 6115

2 ACRES COMMERCIAL property w/20'x70' trailer: Trailer is 1/2 office space, 1/2 residential space. Includes 20'x20' workshed & twenty 20 amp plug-ins on rack w/yard lights, \$500,000. Will sell trailer separate. All structures only 5 yrs. old. Phone 780-691-9552, 867-536-7718, Fort Nelson, BC. E-mail: presunset@yahoo.ca

COMMERCIAL BUILDINGS/LAND 6115

INCREDIBLE DEVELOPMENT OPPORTUNITY IN DOWNTOWN NELSON!



There is no other property like this in Nelson BC!
 Flat 120' x 120' lot with C1 Commercial Core Zoning. This property can accommodate up to 40 residential units on four stories above a small 1 story ground level commercial space (5 stories total). This property does not require any City Variances to proceed with development. Architectural Design Analysis and conceptual drawings are available for prospective buyers. This property consists of 5 separate lots, C1 zoning offers a multitude of opportunities from hotels to residential units and many things in-between.

This is your chance to build the future on this historic property in Downtown Nelson!

RE/MAX BOB BURKE 250-505-3929

COTTAGE/LOTS 6125

LOG SIDING, LOG cabin logs, Fir timbers, Fir flooring, Cedar. Special orders. Check out more info. at: ruckbros.com Lumby, BC., 1-800-960-3388.

RESIDENTIAL LOT, ELBOW, SK for sale. Lot 7, Blk 2, Plan 88MJ16836, 125 Putters Lane. One block from golf course. 24.5 Meter frontage. Serviced by town. Will consider trade of RV, boat, truck, car, etc. \$29,500. Call Gerry 403-389-4858.

HOUSES/LOTS 6126

LIST YOUR PROPERTY to MLS for a flat fee Check it out at: choicerealtysystems.ca or call 306-975-1206.

LOG AND TIMBER HOMES, Saskatoon, SK. Visit www.backcountryloghomes.ca or call 306-222-6558.

MOBILE HOMES 6127

SELLING
 WWW.MEDALLION-HOMES.CA modular homes/lake houses/RTM's. Visit our sales lot, or check online for stock, homes and all other plans. Factory direct orders built to your specs! Trade-ins welcome, buy and sell used homes. Hwy 2 South, Prince Albert, SK. Call 306-764-2121 or toll free 1-800-249-3969.

READY TO MOVE 6128

HOME HARDWARE RTM Homes and Cottages. Phone 1-800-663-3350 or go online for floor plans and specs at: www.northbattlefordhomehardware.com

RTMS AND SITE built homes. Call 1-866-933-9595, or go online for pictures and pricing at: www.warmanhomes.ca



J&H HOMES: Save \$10,000-\$17,000 off RTM showhomes. Trusted builders since 1969. www.jhhomes.com 306-652-5322

RESORTS 6129

VEGAS TIMESHARE: INT'L exchanges, 2 bedroom, 2 bath, full kitchen, laundry, fireplace, pools, selling due to health. 306-453-2958, Carlyle, SK.

DELUXE, MOVE-IN READY, Park Model, Yuma, AZ, 55+ gated park. One owner. 9' ceilings, 17x34' screened/covered patio, 8x15' finished shed. Hardy board ext. 40x55' lot, completely landscaped. \$54,500 CAD. Phone 587-416-7289.

WINTER GETAWAY IN Arizona for Sale. Park Model & Lot in 55+ gated community. Access to pools, golf course, all recreation, craft & hobby facilities. 520-868-4134, winterfun@juno.com

RECREATIONAL PROPERTY 6130

PARK MODEL for sale, friendly smaller park Yuma, AZ. Includes Arizona room, carpet, fully furnished, 2 pools, rec hall, \$25,000. 780-467-1915, Sherwood Park, AB.

2002 CAVCO MANUFACTURED Home. Tuscany MH Park, Yuma, AZ., 1066 sq. ft., 2 bed, 2 bath, new AC and heat unit (Nov. 2016). Unique park w/only mobile homes. All offers considered. Call 306-325-4450.

FARMS & RANCHES

BRITISH COLUMBIA 6131

5 ACRE FARM, fenced, 4 bdrm home, cabin, barns, fruit trees, Slocan River frontage, \$430,000. 250-304-4669, Castlegar.

ALBERTA 6132

QUALITY QUARTER SECTION of land located 4.5 miles south of Sperling, MB. on Prov. Rd. #336. Legal: SE 1/4-31-5-2. Ph Golden Plains Realty Ltd, 204-745-3677.

1/4 SECTION NORTH of Halkirk, AB. Cropland, grass and trees. Natural watercourse. 9 miles from Big Knife Prov. Park. In WMU 204 - one of the most desired big game hunting areas in AB. Phone 403-633-2421.

COUNTY OF VERMILION RIVER for sale by tender with bids closing Dec. 5, 2017. 130.70 titled acres. Current use is pasture. Revenue from one natural gas surface lease of \$2700. Vern McClelland, RE/MAX of Lloydminster, 780-808-2700. Details at: www.forbeslandtender.ca

WATER PROBLEMS? ELIMINATE rust, smell, bad taste, hardness, sodium odor. The Water Clinic, 1-800-664-2561, www.thewaterclinic.com

WOOD COUNTRY READY TO MOVE HOMES
 1548 sq ft RTM - 3 bedroom, 3 baths
\$175,000 plus taxes.
 Are you planning to build a home in 2017. Wood Country will build you a RTM or a custom built home on site to meet your requirements. Wood Country prides itself on building top quality homes with a high level of customer satisfaction since its inception in 1980.
 Call Leigh at 306-699-7284 McLean, SK.
 Certified Home Builder

IronPlanet Public Real Estate Auction
Moose Horn Lodge – Margaret Sunkel
6 Parcels of Real Estate – Little Bear Lake, SK
 Lodge, Store & Campground
 3 Cabins & 2 Vacant Lots
Bidding Opens November 22
Bidding Closes December 13
 Moose Horn Lodge & campground is a lakefront revenue producing paradise in the heart of Saskatchewan's north. It features everything from sandy beaches, crystal clear water, excellent scenery to fishing, ATV trails and more.
 In past years, the Moose Horn Lodge has been operated from mid-May to mid-September, however could be operated all year around. Moose Horn Lodge is an excellent opportunity for anyone who enjoys the northern outdoors. It is ideal for semi-retired folks who travel south in the winter months but love to be at the lake in the summer months, and best of all – earning revenue. Moose Horn Lodge requires little overhead and limited staff to operate. With the high percentage of returning "seasonal site" users each year, this property is a ready-made revenue producing paradise just waiting for a new owner to enjoy.
 For more information, contact: Margaret Sunkel – Owner 306.426.2700, holiday@sasktel.net Ritchie Bros. Territory Manager – Brendan Kramer 306.441.6519 | bkramer@ritchiebros.com Ritchie Bros. Real Estate – Broker – Ed Truelove 306.441.0525 | etruelove@rbauction.com Brokerage: Ritchie Bros. Real Estate Services Ltd.
 View from the north
 Parcel 1 – Store
 Parcel 4 – Cabin #4

For property details and to bid visit:
IronPlanet.com/realestate
IRON PLANET

ALBERTA 6132

HALF SECTION OF PRIME IRRIGATED Crop Land ID#1100612, Bassano: Up for sale is a 1/2 sec. of premium irrigated crop land located in the County of Newell, 5 miles East of Bassano and North of Hwy. 550. Approx. 300.32 acres in total with approx. 256 acres irrigated by two 2016 Pierce pivots. Annual surface lease revenue of \$23,532. **465 Acres of Prime Irrigated Row Crop Land, ID#1100614, Rolling Hills:** 3 quarters are all in 1 block and located between Rolling Hills and Tiley. 465 acres of nice row crop land w/426 acres of EID water rights, 3 pivots, UG mainlines and 3-phase power. A 1200 sq. ft. home and various outbuildings are included. **Real Estate Centre, 1-866-345-3414.** For all our listings visit: www.farmrealestate.com

FOR SALE BY TENDER: NW 4-44-15-W4, Strome, AB. 155 acres prime crop land. Owner reserves the right to reject any or all Tenders. Deadline Nov. 24/17. Submit bid to: MLeeb200@gmail.com

SASKATCHEWAN 6133

Thinking of Selling your Farm? Are you unsure of market prices? Do you need help in developing an exit strategy on your farm sale? Do you want to attract the widest selection of local and national buyers? Give us a call— profitable farm sales take experience, knowledge, planning and time. Farm Boy Realty will advise and guide you in achieving a successful sale. Guy Shepherd 1-306-434-8857 www.farmboyrealty.com



TOM@SASKFARMLAND.COM Interested in the value of your farmland and considering selling? Up to date market evaluations done at your farm. Coldwell Banker Signature. Tom Neufeld 306-260-7838.

TOM@SASKFARMLAND.COM For sale RM of Mariposa SW-7-36-20-W3, SE 7-36-20-W3. \$355,000 MLS. Coldwell Banker Signature. Tom Neufeld 306-260-7838.

RM OF FOAM LAKE #276 for sale SE-35-28-12-W2 160 acres (approx. 102 cultivated). Call 780-724-3735 for info.

FOR RENT: 4 Quarters in the RM of Blucher Phone 306-374-0339. Cash offers only.

TOM@SASKFARMLAND.COM Kenaston, 958 acres. Individual 1/4's available. Tenant available. \$930,000 MLS. Coldwell Banker Signature. Tom 306-260-7838.

BY TENDER: RM of Three Lakes, No. 400. NE 14-42-12-W2, SE 14-42-22-W2. 316 acres, approx. 230 cultivated acres. Owner reserves the right to reject highest or any tenders. Deadline is November 30, 2017. Send tenders to: Leo Briens, 33 Huntington Place, Saskatoon SK, S7H 4L7. For inquiries, call 306-373-4371.

WANTED: 4000-4500 ac. (+/-) for young farmer, east of Luseland or Unity area. Assess: \$100,000. Call 780-625-6767.

SASKATCHEWAN 6133

BY TENDER: The Sale of Lands by BKS Trucking Ltd., Shaun & Katie Bassett, Remege Rehabilitation Inc., and Derek Kurpjuweit. The owners of farmlands will accept offers to purchase, as a block, the following deeded lands briefly described as SW 13-7-6 W3, SE 14-8-6 W3, NE 14-8-6 W3, SW 35-7-6 W3, NW 14-8-6 W3, SW 14-8-6 W3, NW 7-7-5 W3, SW 7-7-5 W3, SE 19-7-5 W3, SW 19-7-5 W3, SE 12-7-6 W3, SW 12-7-6 W3, NW 13-7-6 W3, NW 26-7-6 W3, NE 31-7-5 W3, SE 31-7-5 W3, NW 29-7-5 W3, NW 13-8-6 W3, NE 11-8-6 W3 and SE 11-8-6 W3 as well as certain bins all of which are located in the RM of Wood River No. 074 and detailed in the Tender Package. The Owner reserves the right to reject any or all Tenders, and to waive formalities as the interest of the Owner may require without stating reasons. The highest or any Tender may not necessarily be accepted. The Owner shall not be liable for any costs, expenses, loss or damage incurred, sustained or suffered by any bidder prior, or subsequent to, or by any reason of the acceptance or the non-acceptance by the Owner of any Tender. The bidders whose Tenders have not been accepted by the Owner will be notified within a reasonable time after Tender opening. The successful bidder shall pay a non-refundable deposit of 5% of the Tender price to Stringam LLP in trust by way of bank draft or solicitor's trust cheque with the tender submission. The closing date shall be January 2, 2018, the balance of the tender price shall be due and payable on said closing date. The taxes shall be adjusted at the closing date. The Owners shall retain all surface lease rentals up to and including the closing date without adjustment and any subsequent payments will be provided to the Purchaser. Tenders shall be marked "BKS Trucking Tender" and delivered on or before 12:00 noon MDT on December 1, 2017 to: Stringam LLP, 35 7th Street SE, Medicine Hat, AB., T1A 1J2, Attention: Kipling B. Wiese. P: 403-488-8200. F: 403-488-8215. Email: kbwiese@stringam.ca and/or colleen@stringam.ca Only tenders for the entire block of parcels for the above lands will be accepted. Separate tenders will be considered for the blocks of bins specified above. In the event that a successful tender is accepted on all parcels. Tenders which are submitted to Stringam LLP may be opened by the owners and accepted by the owners prior to December 1, 2017 at the Owners' option. The successful bidder will be notified as such time as stated below. If the owner shall not open or accept tenders prior to December 1, 2017, the owners will notify the successful bidder by email, phone, or fax when the tender has been accepted.

SASKATCHEWAN 6133

ESTATE LAND SALE November 18/2017
Manitou Spring Hotel, Manitou Beach, SK
Continuous Tenders: Registration @ 1:00 pm
Tendering: 2:00 pm - 4:30 pm

RM of WREFOORD #280	2017 Assessment	Acres	2017 taxes paid
SE 18-29-24 W2	GRAIN 206,800	160	783.11
NW 20-29-24 W2	GRAIN 173,300	157	680.55
SW 20-29-24 W2	GRAIN 192,000	160	753.99
NE 23-29-24 W2	GRAIN 155,000	151	608.69
NW 26-29-24 W2	GRAIN 160,700	159	631.07
SW 12-30-24 W2	PASTURE 92,800	158	364.43
SW 13-30-24 W2	PASTURE 80,600	160	258.97
SE 22-30-24 W2	GRAIN 170,800	158	670.73
SW-22-30-24 W2	GRAIN 159,400	159	625.97
SW 27-30-24 W2	GRAIN 142,900	159	561.16

Tenders accepted on each parcel subject to executors acceptance. Highest accepted tender will sign agreement for sale, with a 5% deposit, balance due in 30 days.
Abe Warkentin, Executor
306-946-2193 (after 6 pm)

TENDER: KINDERSLEY/EATONIA Farm Land For Rent - 2 section/8 quarter block. RM 261 Chesterfield: Section 29-27-25 & Section 32-27-25. Land located approx. 12 miles SW of Kindersley; 7 miles North of Eatonia. Rental tenders invited on the above land (preference given to tenders involving all lands); Tenders close at 5:00 PM November 30, 2017. Successful tender(s) to complete rental agreement with vendor/landlord by December 14, 2017. Rent tenders to specify \$/acre cash rent. Highest or any tender not necessarily accepted. 5 year term offered. Respondents must rely on their own research and inspection. For more info, contact Chris Selness at 306-539-1972. Tenders to be submitted to: Chris Selness /Topsoil Land Tender, 1925 Victoria Avenue, Regina, SK, S4P 0R3.

313 ACRE FARMLAND for sale by online auction on: <http://www.bidwin.org> Qing Zhang, Landmart Realty, 306-684-0136, Foam Lake, SK. qing.canada@gmail.com <http://www.bidwin.org>

115 CULTIVATED ACRES and remainder in hay and pasture near City of Humboldt in RM of Humboldt No. 370. SW 12-38-23 W2. Highest or any offer not necessarily accepted. Mail bids by November 30, 2017 to Box 686, Humboldt, SK. S0K 2A0.

RM OF LIVINGSTON: Pelly, SK., 6 miles N. SW and SE 26-34-32-W1. 320 acres, 265 cultivated, \$399,000. Phone 778-848-2535.

SASKATCHEWAN 6133

NE-7-52-21-W2 & NW-8-52-21-W2 crop land for rent in RM Torch River No.488
Call: 306-230-1588 or Email: Justin.yin.ca@gmail.com

FARMLAND WANTED NO FEES NO COMMISSIONS PURCHASING: SINGLE TO LARGE BLOCKS OF LAND. PREMIUM PRICES PAID WITH QUICK PAYMENT. Many References Available

A TOTAL OF 590 QUARTER SECTIONS SOLD ACROSS SASKATCHEWAN! RENT BACK AVAILABLE Call DOUG 306-955-2266 Email: saskfarms@shaw.ca

NEAR KRONAU SK, 1/2 hr. from Regina 80 acres w/character home and outbuildings; Near Pilot Butte 68 acres with yardsite; Near Pilot Butte 80 acres with yardsite. Brian Tiefenbach, 306-536-3269, Colliers Int. Regina, SK. www.collierscanada.com

RM OF BLUCHER 343: 2 quarters. SW-29-35-01-W3M, NW-29-35-01-W3M, 310 acres cult. 3 hopper bins totaling 17,000 bus. Call Bob 306-717-1987.

NEVER...HAUL OR purchase those heavy bags of water softening salt or expensive bottle water again! The Water Clinic, www.thewaterclinic.com 1-800-664-2561.

TOM@SASKFARMLAND.COM Meadow Lake hunting land. Pines, heavy big game, trails. 160 acres, \$84,500 MLS. Coldwell Banker Signature. Tom 306-260-7838.

TAKING OFFERS ON section of land in RM 129: 33-14-19 W2. Looking to lease back. Phone 306-596-4231.

FARMLAND WANTED
112 Reindeer Road
Saskatoon, SK S7K 4R3
306.230.1588
306.361.8926
justin.yin.ca@gmail.com



LAND FOR LEASE AT WWW.ANDJELIC.CA
20 Qtrs Chesterfield 261 | 17 Qtrs Willow Bunch 42 | 14 Qtrs Golden West 95
9 Qtrs Brokenshell 68 | 3 Qtrs Paddockwood 520
Scott Simpson | 204-770-0911 | scott@andjelic.ca

SASKATCHEWAN 6133

NE-7-52-21-W2 & NW-8-52-21-W2 crop land for rent in RM Torch River No.488
Call: 306-230-1588 or Email: Justin.yin.ca@gmail.com

LOOKING FOR LAND w/Aggregate Potential In Saskatchewan Call POTZUS LTD. Phone: 306-782-7423 Fax: 306-786-6909 Email: info@potzus.com

LAND FOR SALE by tender. Approx. 480 acres, RM of Willner #253. N1/2 11-25-3-W3, SW 11-25-3-W3. Grass and pastureland with dugout and some fencing. Tenders accepted until December 15, 2017. Highest or any tender not necessarily accepted. Submit written tenders to: Box 134, Loreburn, SK. S0H 2S0

WANTED
GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

Great Plains Realty
Land in RM of Blaine Lake 2 1/2 Quarters. Call for details
FARMLAND WANTED
Proud to Sell Saskatchewan's Finest Farms
Mike Janostin (306) 481-5574
greatplainsrealty.ca

NEAR KRONAU SK, 1/2 hr. from Regina 80 acres w/character home and outbuildings; Near Pilot Butte 68 acres with yardsite; Near Pilot Butte 80 acres with yardsite. Brian Tiefenbach, 306-536-3269, Colliers Int. Regina, SK. www.collierscanada.com

RM OF BLUCHER 343: 2 quarters. SW-29-35-01-W3M, NW-29-35-01-W3M, 310 acres cult. 3 hopper bins totaling 17,000 bus. Call Bob 306-717-1987.

NEVER...HAUL OR purchase those heavy bags of water softening salt or expensive bottle water again! The Water Clinic, www.thewaterclinic.com 1-800-664-2561.

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TAKING OFFERS ON section of land in RM 129: 33-14-19 W2. Looking to lease back. Phone 306-596-4231.

SASKATCHEWAN 6133

Acres of Expertise.
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Kevin Jarrett
(306) 441-4152
kevin.jarrett@HammondRealty.ca
HammondRealty.ca

WANTED 5,000 to 20,000 ACRES OF GOOD CROP PRODUCTION LAND IN SASKATCHEWAN AND ALBERTA
Please call Marcel at 1-403-350-6868
Marcel LeBlanc Real Estate Inc.

5900 ACRE RANCH SW SASK. ID#1100582, Govenlock, SK: 5900 acre ranch in Sask., 15 kms from AB-SK border and 40 kms from USA border. There are 4892 acres deeded and 1012 acres government lease w/61 acres flood irrigated alfalfa. Property c/w a 4 bedroom home, corrals, heated barn and a massive steel shop. MLS@ Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com

LAND FOR SALE by Tender: RM of Hoodoo, NE 14-43-26-W2. Approx. 150 cult. acres. Approx. 6 miles NE of Wakaw. Title clear, taxes paid 2017, currently rented. Highest or any tender not necessarily accepted. Send tenders to: PO Box 302, Wakaw, SK. S0K 4P0. makowskym@gmail.com

RM FOAM LAKE #276: NE-18-29-11-W2, 160 acres (145 cult.), along Hwy. #310. Mostly oats and barley grown on it. Summer-fallow - 2017. Info. call 306-272-4704.

FOR SALE BY TENDER: Tenders are being accepted on the following farmland: SE 03-41-20 W2, RM of Lake Lenore, No. 399. Approx. 145 cultivated acres. Forward your marked and sealed Tender, together with a certified cheque deposit of 5% of your bid to: Eisner Mahon Forsyth, 101 MacLeod Ave. W, PO Box 2680, Melfort, SK., S0E 1A0, Attention: Tender 2017-11. Deadline: November 15th, 2017, 5:00 PM. Highest or any offer not necessarily accepted. Offers not accepted will be returned week of November 20th, 2017.



MACK AUCTION CO. presents a land and oil revenue auction for the Estate of Elizabeth Debusschere. Thursday Dec. 7, 2017 at the Stoughton Legion Hall, Stoughton, SK, 7:00 PM. Up for auction are 5 quarters of farm land and pasture in the heart of the oil patch near Stoughton, SK. 1) NE 26-08-08 W2, RM of Tecumseh No.65: 160 titled ac., approx. 110 cult. ac., FVA 77715, 2017 taxes \$331.45, 2017 crop canola, 2 Westeal 1650 bu. bins on wood floors, surface lease revenue \$23,250; 2) SE 26-08-08 W2, RM of Tecumseh No.65: 157 titled ac., approx. 120 cult. ac., FVA 77385, 2017 taxes \$330.05, dugout, surface lease revenue \$6750; 3) NW 06-09-06 W2, RM of Brock No.64: 160 titled ac., FVA 30420, 2017 taxes \$171.26, pasture, partially fenced, surface lease revenue \$6800; 4) NE 06-09-06 W2, RM of Brock No.64: 160 titled ac., FVA 54450, 2017 taxes \$306.55, pasture, partially fenced; 5) SW 06-09-06 W2, RM of Brock No.64: 160 titled ac., FVA 34200, 2017 taxes \$192.55, pasture, partially fenced, surface lease revenue \$6400. 10% non-refundable down on sale day, balance due in 30 days. For sale bill & pics visit www.mackauctioncompany.com Join us on Facebook and Twitter. 306-421-2928 or 306-487-7815. Mack Auction Company, PL#311962.

FARMLAND NE SK (Clemenceau) 4 qtrs plus 36 acre riverside parcel with 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, exc. elk hunting and other big game and goose. 580 acres wheat, mustard, barley and peas. Full line of farm and sawmill equipment also available. Will separate. Reg Hertz, 306-865-7469.

LAND FOR SALE By Tender, 472 acres in RM of Maple Bush No. 224: SW-2-23-4-W3 and S1/2-3-23-4-W3. Highest or any bid may not be accepted. Bids may be submitted to: crystal0722@hotmail.com (due by Nov. 22, 2017). For details call 306-796-7317.

MANITOBA 6134
RM NORTH CYPRESS-LANGFORD 4.5 qtrs prime land in a complete block near Sidney, MB. 510 acres in crop. Avail. for 2018 crop year. \$1,200,000 OBO. Elesmerefarm.com

EXCELLENT LIVESTOCK FARMS: 1) Horse ranch in Erickson, MB. Riding arena & buildings in fantastic cond. 2) Modern house & 160 acres of pasture, 15 mins. to Brandon. 3) 320 acre farm, Carnduff, SK. Jim McLachlan 204-724-7753, Re/Max Valley Realty Inc., Brandon, MB.

2 HALF SECTIONS pasture for sale in RM of St. Laurent. Treated posts, high tensile barbwire, crossed fenced, good water and some trees. For info. call 204-981-9378.

MANITOBA 6134

CANADIAN FARM REALTY
GRAIN FARMS FOR SALE
1400 acre grain farm, 1000 acres workable. Excellent grain & beef operation in the RM of Riding Mountain.
3290 acre grain farm with seed plant near Killarney, MB. 2000 bushel grain storage. Rented land available.
Sheldon Froese 204-371-5131
Stacey Hiebert 204-371-5930
Dolf Feddes 204-745-0451
Junior Thevenot 204-825-8378
Henry Carels 204-573-5396
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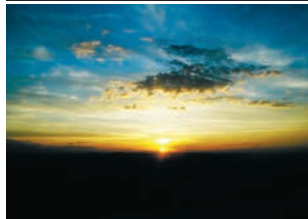
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ALBERTA DISCOVERY

New midge with an appetite for canola not serious yet

Insect specialist says the unnamed species that attacks the flowers has only been confirmed in central Alberta

BY BARB GLEN
LETHBRIDGE BUREAU

MEDICINE HAT, Alta. — Alberta canola had a smidge of new midge this season.

The new species of midge was first identified in 2016 and is still so new that it doesn't have an official name. Although it has a liking for canola flowers, it doesn't seem to be doing much damage.

Alberta Agriculture insect specialist Scott Meers said the new midge species was found mostly in central Alberta this year and none have been spotted south of Highway 12, which runs from

Stettler to Altario.

"It's a good news, bad news story I guess. The bad news, we have a new insect. The good news is that it's not that serious. At least not yet," said Meers.

The midge lays eggs in the flower, which hatch into maggots. The result is an orangey-looking, bottle-shaped flower. The flower never produces a pod, but the petals will cling to the plant and are not easily shaken off, as they would be if the flower had merely dried out.

"It only attacks the flowers and if you haven't heard this before, I'll be shocked, but flowers are somewhat expendable in canola. You can lose



SCOTT MEERS
ALBERTA AGRICULTURE

some flowers. You don't lose a lot of yield. So we're not that concerned at this point, unless it starts taking out all our flowers."

Meers said a four-day survey in central Alberta this summer

uncovered very low numbers of damaged flowers from the new midge.

He said there have been rumours for several years about Swede midge in Saskatchewan canola, but now he and other insect surveillance people think this recently identified midge is the species now seen in that province.

Meers noted the species might have been around for a while, despite remaining undiscovered by entomologists. He bases that on the existence of parasitoids that attack the midge. Those don't usually arrive or develop unless they have sufficient prey.

Agriculture Canada scientists say the midge belongs to the Contarinia genus and looks similar to Swede midge, Contarinia nasturtii, but its species has yet to be determined.

Boyd Mori, a chemical ecologist at the Saskatchewan Research and Development Centre, first confirmed that the midges in that province were a new species. Midge expert Bradley Sinclair of the Canadian Food Inspection Agency also confirmed the findings based on various physical differences and DNA sequencing.

barb.glen@producer.com

SOUTHERN ALBERTA

Diamondback moth numbers extreme in some areas

Larvae feed on canola pods

BY BARB GLEN
LETHBRIDGE BUREAU

MEDICINE HAT — Diamondback moths didn't look like a problem in the early part of this year's growing season.

Then they became a big problem. "Diamondback moth really was a massive issue for canola growers in southern Alberta and a little bit of a surprise because we've never, ever seen anything like that in Alberta," said provincial insect management specialist Scott Meers.

"This was unprecedented in southern Alberta this year. We had some cases where the numbers were extreme."

Meers told the Farming Smarter Cypress Conference Oct. 26 that his department doesn't do forecasts on diamondback moths because they do not typically overwinter on the Prairies.

Instead, it monitors the spring flight during the insect's migration on winds from the south.

"The numbers of adult catch in our pheromone traps was quite normal, but they built up through the summer and we started to get calls from guys who were doing their sweeps for cabbage seedpod weevil," he said.

Farmers reported few weevils but many diamondbacks in their sweeps.

"In retrospect, we should have taken it a little bit more seriously," said Meers.

The moths themselves don't do a lot of damage, but the larvae feed on canola pods and cause dry-down and shattering.

The hot, dry summer favoured several generations of the insect, and those conditions also reduced the number of parasitoids that would normally provide control.

"The other thing that we have been ignoring in this whole system is fungal activity," said Meers.

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INSECT FORECAST

Alberta's irrigation growers warned to watch for wheat midge

Wheat stem sawfly may also pose a problem, says insect specialist

BY BARB GLEN
LETHBRIDGE BUREAU

MEDICINE HAT — Alberta's insect management team is still compiling data for the 2018 forecasts, but specialist Scott Meers revealed his early predictions Oct. 26 at the Farming Smarter Cypress Conference.

Forecast maps for wheat midge and wheat stem sawfly are expected to be posted in December, and maps for the other five insects regularly monitored will be posted in January.

Meers said wheat midge seems to be increasing in central Alberta but hasn't been an issue in the south,



Wheat midge numbers are increasing in central Alberta.

| FILE PHOTOS

except for a few pockets several years ago around Willow Creek. However, farmers growing wheat

on wheat under irrigation should pay close attention.

"We've had substantial losses in Newell County on irrigated wheat in the past," he said.

"If you're rotating well, probably not an issue, but just be warned that if you're growing a lot of wheat on irrigation, you need to pay attention to this. It may not be reflected in the forecast."

Wheat stem sawfly populations saw higher numbers this year, so it will have to be watched next year. Meers said the Willow Creek region and areas north of Lethbridge and south of Vulcan could be hot spots, as well as the County of Forty Mile and Municipal District of Acadia.

"Grasshoppers and sawfly, lock step in dry conditions," said Meers, noting that grasshopper numbers have been slowly edging upward in

those areas.

The Peace region grasshopper forecast seems to peak every other year, and Meers said his department is trying to figure out why.

"It's safe to say that we've been wrong with the grasshopper forecast in that part of the world (Peace region) for 10 years now, so whatever the grasshopper forecast says for the Peace, do the opposite," he said.

"Down here (in the south), it's pretty reliable."

Bertha armyworm hasn't been an issue in the province since 2015, though Meers said he is expecting a resurgence.

Cold and bare ground kills the pest in chinook country, but other

regions don't often experience that over winter.

"I think we're going to see more bertha armyworm next year," he said.

"Where, is the question. Probably Stettler might be the centre of it."

Cereal leaf beetle was present in only low numbers this year, and beneficial insects are helping keep them under control, said Meers.

Cutworms, mainly the redback and pale western types, could do damage in the coming year, and Meers encouraged growers to pay attention to crop establishment this spring and investigate if they see anomalies.

barb.glen@producer.com

» CONTINUED FROM PREVIOUS PAGE

Fungal growth can kill larvae, but heat and drought reduced it this summer.

Farmers with diamondback infestations had many questions about spraying thresholds, and Meers agreed they are likely inadequate. However, a new figure is hard to determine when crops are poor because of drought.

"We had very poor crops, so how do you determine whether or not it's worth spraying a 10 bushel canola crop when you've got way over the numbers of diamondback moth?" he said.

A low bushel crop has fewer pods, and the insect affects the pods, so spray thresholds might be lower in poor crops.

The Canola Council of Canada says the nominal threshold for larvae is 20 to 30 per sq. foot in crops, but acknowledges that plants with lower leaf surface might demand a lower threshold.

As for the economics of spraying a low-yielding crop, the council



Growers at the Farming Smarter conference were given advice on when to spray for diamondback moth.

says that "at \$15 to \$25 per acre to spray — depending on product and application method — a spray that saves two to three bu. per acre should be at or slightly above the economic threshold.... If yield potential for all canola on a farm is well under its crop insurance coverage point, spending more on the crop doesn't make financial sense."

Meers said one lesson learned this year is to pay more attention to diamondbacks while sweeping for cabbage seedpod weevil.

Another lesson is that synthetic pyrethroids, which are the treatment for diamondback moths, do not work when temperatures exceed 25 C.

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Kevin was born and raised in Vernon, BC. He received a BSc in Natural Resources from Thompson Rivers University in BC, and an MSc in Rangeland Ecology and Management from Oregon State University in Oregon, US. Kevin has previous work experience with crown land management in AB, and as a Provincial Forage Specialist and Manager of the SK Pasture Program with the SK Ministry of Agriculture.



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Brandy grew up in Moosomin, SK and now farms alongside her family in the area. She has a Bachelor of Applied Science with a major in Agribusiness from Olds College, Alberta. Brandy has previous experience in watershed management before joining Matrix Solutions in 2012.

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Kelly Smith-Fraser, the finance chair with Alberta Beef Producers, says gender parity isn't an issue and that the right person should be hired for the right job. | JEREMY SIMES PHOTO



SPECIAL REPORT

GETTING ON BOARD



Why are there so few women on agriculture boards, and what is being done to change that?

BY JEREMY SIMES
EDMONTON BUREAU

WHEN ALLISON Ammeter discusses the future of pulse crops with her fellow board members, she doesn't feel like she's giving the "woman's point of view."

Instead, she says she's asking questions that her male colleagues aren't asking, and that's a good thing.

"The men ask certain types of questions and us women ask certain types of questions," said Ammeter, who farms near Sylvan Lake, Alta. "In the end, we get more information that way, and that's critical when we have to make important decisions."

However, when it comes to numbers, the men far outnumber the women on the Alberta Pulse Grower Commission's 12-member board. The only women are Ammeter and Caroline Sekulic.

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But the Alberta pulse group isn't an anomaly.

Men dominate agriculture boards across the Prairies, and make important decisions with producers' check-off dollars. Only 12 percent of all board members on agriculture commissions in Alberta, Saskatchewan and Manitoba are women, according to data compiled by *The Western Producer*.

In total, there are 438 board members on organizations with check-off programs on the Prairies. Of that, 386 are men and 52 are women.

Those numbers are a problem for some because they say decisions are better if made by a diverse crowd.

Norine Moore, chair of the Alberta Agricultural Products Marketing Council, which regulates the province's agriculture boards, said she would like to see more female representation.

"If everyone comes from the same background and thinks the same, you don't generate a good discussion," said Moore, who runs a sheep and goat operation with her husband. "I really see this as an opportunity to make changes."

However, some don't view the lack of women on boards as a problem.

Kelly Smith-Fraser, who ranches near Pine Lake, Alta., and is the finance chair with the Alberta Beef Producers, said all that should matter is whether the right person is hired for the right job.

"For me, it's more about having a group of diverse opinions than making sure we have a group of gender," she said.

"I have no desire to see stronger gender equality, because our board is diverse, and it doesn't matter to me, man or woman, as long as they have knowledge or experience."

As well, statistics play a huge role in why there may be so few women on boards, said Kevin Bender, chair of the Alberta Wheat Commission, which has no women on its board.

He noted recent Statistics Canada data that reported 29 percent of Canada's 271,935 farm operators are women.

"When I look at my neighbours that I farm with, very few that I farm with are women or actively involved," he said. "They support or help out, but from what I see, the majority of active farmers are males."

However, women still play huge roles on the farm, even if they aren't considered the primary operator, said Moore.

"In a lot of farms, I think the husband and wife are partners," she said. "My husband and I are equal partners, so I think that it's not totally correct saying it's totally men, because women are taking a lot more roles."

Despite this, many women might still view themselves as the "farm wife," rather than as active farm members, said Lisa Skierka, who was the former general manager of the Alberta Barley Commission.

Skierka is now the southern Alberta chair of Equal Voice, an organization dedicated to getting more women elected in political offices.

"A lot of families still remain under this traditional dynamic," she said. "We see that on social media in how they describe themselves, even by women who maintain the farm books and provide physical labour."

As well, women are usually working other jobs to support the farm and are largely considered the primary caregivers, according to



Allison Ammeter with the Alberta Pulse Growers Commission is one of two women on the organization's board. | JEREMY SIMES PHOTO



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farm operators
in Canada.

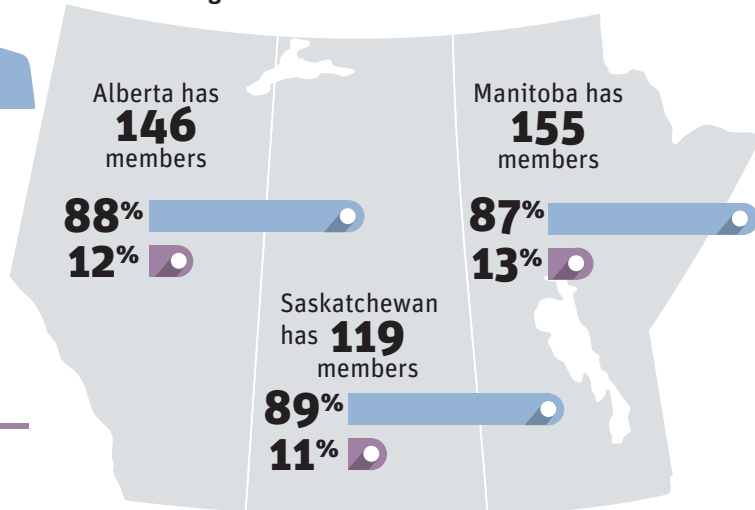


> **71%**
were male



> **29%**
were female

Yet on agricultural boards ...



Source: Staff research | MICHELLE HOULDEN GRAPHIC

» CONTINUED FROM PREVIOUS PAGE

Smith-Fraser, so they may not have enough time to sit on boards.

"Women are involved in other organizations that are just as important in their community," she said. "I think men who are specifically working on the farm have that ability to become actively engaged in agriculture."

But there's more to it, argued Skierka, and it has to do with the culture inside the boards.

Old boys' club

When Laurie Disney was first elected to the Saskatchewan Cattlemen's Association, no one seemed to ask for her opinion during board meetings.

"Without a good chairperson, you just think the women might not be asked their opinion," she said. "It could partly be my shyness, but as a



LAURIE DISNEY
BOARD MEMBER,
SASKATCHEWAN CATTLEMEN'S ASSOC.

new person, you should be asked for your input so you can get comfortable."

Disney said she eventually got comfortable, and now has no problem speaking up during meetings.

But had there been training in place initially, she said, there may have not been issues in the first place.

"We need to do stuff for people," she said. "On my board in particular, it's still an old boys' club. I'm over 50 years old and I think it's still that way, and it's hard for men to give any kind of power to some women."

JoAnne Buth, executive director with the Canadian International Grains Institute and formerly with the Canola Council of Canada, said there have been times where men have said inappropriate things during board meetings.

"When inappropriate things are said, I use humour or I'm direct, where I say to them, 'I don't think that's appropriate or I don't think you mean what I hear you saying,'" said Buth, who has also served as a Canadian senator.

"I have seen instances where it's harder when you're a younger woman, where it's very uncomfortable for them to be in a situation in an all-men board. Some people get out of hand in social situations where there is alcohol involved.

"So, when you see anything or hear comments that are inappropriate, you try and correct it in a way that's not personal."

But not all women on agriculture boards have felt as if they're lesser than their male colleagues.

Smith-Fraser said she has been treated as an equal at Alberta Beef Producers.

"I don't feel like my opinions have ever been looked at differently than my fellow boards members," she said.

"We are all treated with respect and we respect each other's opinions. We may not always agree, but we have a good board and staff to ensure our opinions are respected and that our opinions are heard."

However, Skierka noted that the few women who are elected to these boards are often intimidated because they are usually entering a group that's already tightly knit.

"You can see that the boards are closed because it's the same people on multiple boards and the succession planning is within the internal group," she said.

The "succession planning" Skierka refers to is the system in which board members seek out people they know to run in their place once their term limits are up.

"It's human nature in general to encourage the people we're with," Skierka said. "So they are recruiting from a friend group or colleagues locally who are the same as them, so there's a lack of diversity overall."

Buth echoed this sentiment. "If you have a group of men on a board they tend to think of men that would fit in terms of the board,

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CONTINUED ON NEXT PAGE »

and will ask them to run or be nominated," she said.

Ammeter agreed that she actively looks for people she knows would be a good fit for the Alberta Pulse Growers board, but said the system is wide-open for any producer who's dedicated and interested.

"I tend to find someone I know to replace me because I feel this responsibility to make sure we get good board members going forward," she said. "It's not that I'm trying to only get my friends on or anything like that, it's just that I'm trying to make sure the board keeps going with people who are service-minded."

Even so, lots of commissions are thinking ahead and have launched programs to get younger producers interested in joining boards.

In some cases, they require that at least half of the members be women, while the other half be men.

Changing the face of agriculture

The Alberta Canola Producers Commission requires that half of the farmers who are part of its young leaders program be women.

Greg Sears, chair of the canola board, said the commission believes having diversity is integral to moving the industry forward.

"This is something you're not going to change overnight," he said. "But it's something you're going to have to build, and building up young competencies is a good place to start, so that's where we've chosen to focus our efforts."

While gender balance isn't mandated for the Cattlemen's Young Leaders program, lots of the ranchers with the initiative are women.

Bob Lowe, chair of Alberta Beef Producers, said it's an opportunity to build a younger, and therefore more diverse board in the future.

"The average age of our board is going down and there's a lot of pretty active young producers," he said.

"I think I'm dead-set against a board that's 50-50 because you want the best people not based on gender. We're in a good spot right now, where our board has already changed drastically."

Still, there's more that commissions could do to encourage more women to run for the board, said Moore.

"We can't force them, however," she said. "We can't force pressure, and I think that's what will make it a slow process."

Skierka agreed that forcing women to run isn't the way to go, but said it usually takes a lot of asking before they want to seek election.

"Women need to be asked more times than men do, because there are preconceived ideas that they

have different levels of responsibility at home, the office or the family," she said. "Therefore, they need to be approached differently. It's just a matter of overcoming societal expectations."

As well, she said the commissions will have to advocate and show they want more diversity on their boards.

"I can't help but wonder, if you had more diversity, does it change the conversation around farm safety legislation? Does it broaden our discussions around biotechnology, GMOs, community building, or relationships to consumers?" she asked.

"Having diversity strengthens a board, and creates one that's more answerable so we have these broader conversations."

As well, a cultural shift will be required, added Moore.

"It's about re-enforcing that women are really important in

agriculture," she said. "I think coaching is the best way to approach it. We do some of that, but we can introduce the subject in a way that isn't threatening. It's something that's positive and would be a good thing."

For Ammeter, she'd like to see all agriculture boards become more diverse.

"I say yes to more females, yes to more young people and yes to diversity because you get the very best decisions," she said.

"It's just easier said than done. I remember I was home-schooling, chauffeuring kids all over — you are just very busy when your kids are little."

"Adding one more thing just makes it that much more difficult but, in the end, I'd love to find a way to help those people who have great opinions to offer."

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4-H Saskatchewan is celebrating a century!

2017 has marked an opportunity to celebrate all that 4-H has become by commemorating a century of history and connection to our rural communities and heritage.

Since 1917, 4-H Saskatchewan has provided opportunities for our members to develop the skills needed in an ever-changing future. After one hundred years, 4-H has remained true to our roots and to the pledge that gives us our name – by providing opportunities and encouraging our youth to “Learn To Do By Doing” and pledging our head, heart, hands and health to the service of their communities.

The 4-H movement continues our fine work of developing leadership and communication skills, as well as confidence in our youth, preparing them to be caring, contributing citizens of not just our great country, but the world.



CANADA
4-H Saskatchewan

100 Years Strong
1917  2017

The Secrets to Our Success:

Our Members:

Thousands of youth have shared the 4-H experience and had the opportunity to “Learn To Do By Doing.” Today, as in the past 10 decades, our 4-H members make new friends and learn new skills through club involvement and a project of their choice. 4-H continues to provide a venue for youth to learn about and connect with agriculture, however we’ve also expanded from our rural roots to all areas of hands-on experiential learning. It is exciting to see our members grow, learn and become caring and contributing members of their communities.

Our Leaders:

Our 4-H leaders are the backbone of the 4-H family. These caring volunteers dedicate their time, enthusiasm and expertise to create an environment where members can learn and thrive. In addition to organizing club activities and guiding members through their project work, leaders are mentors, role models, and positive influences for our members. Their impact on youth is immeasurable!

Any adult can join 4-H as a volunteer leader and begin making a difference in their communities.

Our Supporters:

Our supporters have helped shape our organization and without them, 4-H Saskatchewan wouldn’t be what it is today! Our supporters come in many forms but are connected by our passion for and connection to the 4-H program.

From club volunteers to regional show committees and from chaperones to the donors that choose to support the Saskatchewan 4-H Foundation, all of the people and organizations that support 4-H make what we do possible and are ensuring that 4-H will continue for years to come.

A Year of Celebrations



Regional Rallies

The Centennial Celebrations kicked off in August 2016 with the Regional Rallies, which were held in four locations in the province – North Battleford, Prince Albert, Weyburn and Swift Current. There were fun games, a barbecue, a short program and then the night concluded with a fireworks display at each location.



Centennial Gala

The second event hosted was the 4-H Centennial Gala on March 25, 2017, held in conjunction with the Annual General Meeting. All past and current 4-H’ers were welcome to join in the celebrations. More than 500 people joined us for the evening festivities. There were special displays, presentations and draws, and guest speaker Temple Grandin. The evening finished with member and leader socials.



Club Celebrations

In addition to the events hosted by the provincial office, many clubs and districts have been getting in on the fun! There have been many events hosted throughout the province, from suppers and barbecues to fun games days. Many clubs even made interesting displays at their local fairs and put floats in parades to show their 4-H spirit.

Come celebrate a century of building the leaders of tomorrow, while reminiscing about the past! All are welcome to join us! Some of the exciting features of the day will include:

- presentations
- displays
- a photo booth
- meeting location for 4-H alumni
- walk through history
- guest book
- door prizes
- fun zone for youth

Come by at 5:30 p.m. for a closing program, ending with sealing the time capsule!

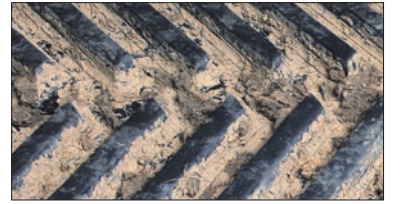
JOIN US!

**Celebrating Our History
Come And Go Event**
Saturday, November 25, 2017
10 a.m. to 6 p.m.
Agribition
Queensbury Convention Centre - Rm 3

PRODUCTION

TECHS AND SPECS: TRACTORS THE BIGGEST OF THE BIG

Check out this week's Around the Farm feature with the market's largest tractors. | **Page 53**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM



Recent fires in Saskatchewan and Alberta have created a great deal of damage for grain and livestock operations, as well as rural homeowners. As communities and individuals rebuild, the costs beyond the infrastructure and lives lost eventually lead to the soil. Pastures and eroded fields need special consideration after a fire. | WILLIAM DEKAY PHOTO

AGRONOMY

Prairie soil after a fire

How long until scorched prairie grassland can support cattle again?

BY RON LYSENG
WINNIPEG BUREAU

Some mainstream news outlets tend to sensationalize their coverage of prairie wildfires by emphasizing how many “acres of land were destroyed,” leaving Canadians with the impression that the land is gone.

Grassland specialists such as Barry Adams counter those reports by explaining that fire cannot destroy land.

“But it can destroy people’s lives,” said Adams, who recently retired after a 38-year career in rangeland management with the province of Alberta.

“The land always recovers. People sometimes do not. That’s the cost we should focus on in dealing with wildfire. There’s always human impact, human losses.”

Grasslands take care of themselves, he added.

“We’re talking about native rangeland and native grasses that evolved for thousands of years under a regime of fire, grazing and stress,” he said.

“They’re designed to bounce back every time. Fire burns the vegetation. It doesn’t burn soil.”

History shows that before settlement and modern firefighting technology, Mother Nature conducted a major grassland burn on virtually every area of the

CAUGHT IN THE CROSSOVER

The relationship between temperature and relative humidity has a major impact on wildfire probability.

When air temperature readings rise and relative humidity readings drop during the day, conditions for a major fire intensify. It becomes a dangerous crossover when it reaches a point that air temperature and relative humidity readings are the same.

For example, if the temperature is 30 C and relative humidity is 30 percent, you are in a crossover condition. A grass fire in this situation exhibits extreme behaviour.

This crossover may continue through the night and even become worse if the relative humidity continues to drop.

Source: Environment Canada, staff research

Prairies approximately once per decade.

In the winter of 1792-93, Hudson Bay Company surveyor Peter Fidler travelled from the Saskatoon area to the Calgary area.

His journals describe a totally black landscape throughout the whole area, the result of a massive wildfire.

Adams said the 1987 prairie fire

west of Nanton, Alta., was an eye-opener for grassland specialists and the public in general, even though we’ve observed prairie fires since the first days of settlement.

The Nanton situation was exacerbated by a unique condition called crossover, meaning the relative humidity is lower than the ambient temperature.

The fire gave researchers an opportunity to hone their skills. By measuring the speed at which the fire front moves and estimating flame height, they’re able to calculate how much heat the fire creates. This, in turn, lets them determine the degree of damage to the grassland cover.

“It wasn’t until late 1980s and the Nanton fire that people began to understand how dangerous and how powerful a grass fire could be,” Adams said.

“Our equipment just wasn’t adequate to control a fire like that.”

When the Granum fire broke out in Alberta in mid-December 1997, it shocked people again.

The fire burned 54,000 acres of grass and travelled 32 kilometres before being brought under control. Approximately 250 cattle were lost, five homes destroyed and more than 1,000 kilometres of fence line burned. There was one human fatality.

“Even if there’s no human injury,

RISK AND REWARD AFTER A PRAIRIE FIRE

Risks

- forage loss
- livestock loss
- infrastructure loss
- farmer stress
- financial loss
- soil erosion
- weed invasion

Rewards:

- ecosystem renewal
- forage improvement in quality and availability
- improved wildlife habitat
- removal of decadent vegetation

• nutrient cycling
there’s still a human cost, in terms of productivity and in terms of how many years before the plant community can be grazed again. That human cost depends on how severely those components in the plant community have been damaged,” he said.

“After the Granum fire, the ranchers who’d been burned out came to see us. They were like shipwrecked sailors. They didn’t know what to do or what to expect from their grasslands.”

Adams said ranchers can assess their losses and predict when the burned areas can be grazed again.

Moist areas, such as the parkland region and foothills, have a distinct organic layer right at the soil surface called thatch.

Just above the thatch is a duff or mulch layer, and on top there’s standing litter and litter that’s breaking down. The effect of fire depends mainly on the extent of damage to the growing perennial plants as well as damage to the litter, mulch and thatch layers.

“This is how we summed it up for them (the ranchers),” Adams said.

“In lightly damaged areas you can still see the bunchgrass, and the surface is still well covered with organic material. In moderate damage, you can see the fire has burned into some of the crowns of the bunchgrass and you see openings in the organic cover.

“In a severe or extreme burn, you see that the organic cover has been burned away, and the fire has burned away the living perennial plant material. Recovery from an extreme burn is much slower.

“We’ve studied the recovery period in a number of fires, and we can say it’s common to expect a period of four or five years before an area is back to full productivity. In a severe burn, it can take longer. If you’re a cattleman and you depend on that grass, a fire can put you right out of business.”

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It's not natural for a prairie ecosystem to live without some form of vegetation disturbance through grazing or fire, Adams said.

If a plot of land is not used, and a lot of litter and excess material accumulates, it becomes a scene for a bad fire. On the other hand, a certain amount of organic litter is necessary to prevent erosion, cool the soil and conserve moisture.

"If you get rid of the litter through over-grazing, you create what we call a man-made drought," he said. "The worst damage we saw in the Granum fire was on the knolls and hilltops where there hadn't been any grazing at all. Tons and tons of litter had accumulated and it was like a torch.

"I realize it's a challenge to get your animals to graze up there, but you're inviting disaster if you don't. Ranchers use water and salt and supplements and extra feed to coax their animals up there. It can be done, and it is necessary, but you wouldn't want to use fire to remove litter. You'd only do it with grazing."

Prairie residents — in the nearly two centuries that cattle have been grazing the region — have had a fair degree of success in preventing the giant fires that previously had controlled forest encroachment. As a result, trees and scrub brush thrive in areas that had once been pure grassland.

"We now have a lot of prairie landscapes that have a lot of woody cover, and that impedes grazing by cattle," he said.

"If you go up to the top of the Cypress Hills, for example, you can see the pine is moving into the grasslands and expanding its grasp on the prairie. So fire does have a role in controlling scrub brush.

"You have to be fully aware of what type of soil you're on. One

thing we've noticed is that extreme fire on sandy soils can allow wind erosion."

Adams said there's not much a rancher can do to hasten the recovery. He cautioned against the temptation to fertilize or seed the burned area.

People have previously cultivated and even plowed burned prairie, but he said that's the worst thing to do because it buries millions of seeds too deeply to ever come to life. As a result, the makeup of the natural plant community will be forever lost.

"The question rangeland managers hear the most is, 'when can we graze this land again?'" he said.

"It's important to study the area to assess the extent of damage. Is it slight, moderate or extreme? You may have to wait until the start of the next growing season to determine what's happened.

"If the plant community hasn't changed, the recovery, of course, is quicker. You can start to put animals back on the grassland very gradually as you see significant fresh growth. We actually measure the re-accumulation of litter. As litter increases, you can put more animals on the land. But don't rush it. There's no silver bullets."

Some worry that a hot fire can harm helpful soil-borne biological agents, but Adams said he doubts it. All biologicals that are present in the soil today are members of families that have developed with fire for thousands of years.

In accordance with Charles Darwin's theory of evolution, the weak genetic lines that were susceptible to fire kill would have been eliminated long ago.

For more information, contact Adams at 403-394-5899 or email bwadams1@telus.net.

ron.lyseng@producer.com



In lightly burned prairie grassland, like this after the 1997 Granum, Alta., fire, there is still bunch grass and the surface is well covered with organic material.



In moderately damaged prairie, like this after the 1997 Granum, Alta., blaze, fire has burned into some of the crowns of bunch grass and there are openings in the organic cover.



In a severe or extreme burn, after the 1997 Granum, Alta., nearly all organic material and living plant material has been burned away. Recovery can take up to ten years. | BARRY ADAMS PHOTOS



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AROUND THE FARM TECHS & SPECS

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OPINION

Higher power = greater efficiency

But future machines might not hold onto that trend

BY ROBIN BOOKER
SASKATOON NEWSROOM

There are active farmers who can remember a time when a 200 horsepower tractor was considered big. When it comes to planting a crop today, most broad-acre growers are sitting on machines that have two or three times that amount of power.

As farms added acres over the past decades, the pressure to cover more acres per hour increased, and the dance intensified between implement manufacturers producing wider tools and tractor manufacturers providing the power to handle them.

But is there a limit on how big tractors will grow?

Mining and industrial equipment can grow larger because they don't have to share space on municipal roads the way farmers do on a daily basis when planting.

However, implement manufacturers have been creative in designing big tool bars that are able to fold down for transport like Bourgault's 100-foot drill, which folds down to 18-foot wide and includes rear wheel steering in transport position to help navigate between fields.

Another concern about rolling the big iron is soil compaction, which experts say can cause long-term damage to fields.

Tire manufactures are producing stronger tires that can run on lower pressures and increase their foot-



At the Ag In Motion show site near Langham, Sask., high-powered tractors are lined up for the daily field demonstrations. The 2017 show had tillage, combines and the DOT Technologies autonomous field tool. | MICHAEL RAINE PHOTO

print, which reduces the amount of pressure tractors apply on ground. As well, the tracked offerings of the high-horsepower tractors are easing some farmers' concerns, whether justified or not, when it comes to compaction.

The trendline shows a continuing increase in horsepower, which suggests these beasts will continue to get bigger, and more expensive.

There has been progress in the development of electric tractors, such as the Autonomous Tractor Corp. offering, and they have the potential to reduce the overall operational cost for fielded horsepower.

However, the electric tractor has a long road to travel before it competes with the high-horsepower offerings of the major equipment manufacturers in terms of not only power efficiency but also market share.

With the recent release of the DOT robotic systems, growers can begin to imagine a time when a fleet of many smaller robots perform tasks that are now firmly in the realm of the high-horsepower tractor.

On most farms however, it will be many years until robotic systems can come close to matching the productivity enabled by the sheer power and efficiencies of modern

high-horsepower tractors.

There doesn't seem to be a limit in the ability of tractor manufacturers to produce ever more powerful engines and resilient transmissions.

There may, however, be an economic threshold where it becomes unviable for growers to keep buying the biggest and most advanced technology because their margins can't handle the payments.

With the current commodity price slump caused by a global glut of grain, a low Canadian dollar that significantly increases the purchase cost of tractors and debt wary producers concerned about rising interest rates, many grow-

ers have recently been hesitant to pull the trigger and purchase the latest and greatest high-horsepower tractor.

But there are always costs to running big iron, and as a tractor's hour clock gets long in the tooth, many growers would rather make payments on new equipment than have to deal with downtime and repair bills.

Farmers have always sought to have the biggest and best, not for its own sake but because the big iron usually creates enough production efficiencies to justify their costs.

robin.booker@producer.com

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Engine	AGCO Power 16.8L	AGCO Power 16.8L	Case IH FTP 12.9 L two-stage turbo	Case IH FTP 12.9 L two-stage turbo	Cummins QSX15	FPT Cursor 13 two-stage turbo, 12.9 L	Cummins QSX15	Cummins QSX 15L	Mercedes-Benz OM 471 LA	Cummins QSX 15L	Tier 3a, Mercedes-Benz, OM460LA, E3A/3
Horsepower Nominal	600 hp	600 hp	620 hp	620 hp	620 hp	660 hp	620 hp	570 hp	520 hp	575 hp	
Horsepower Maximum	646 hp	646 hp	682 hp	682 hp	670 hp	682 hp	670 hp	628 hp	530 hp	620 hp	428 hp
Fuel Capacity	1514 litres	1250 litres	1722 litres	1779 litres	1514 litres	1722 litres	1514 litres	1325 litres	930 litres	1,514 litres	800 litres
DEF Capacity	198 litres	115 litres	250 litres	322 litres	83 litres	250 litres	83 litres	83 litres	90 litres	90 litres	n.a.
Transmission	Caterpillar Powershift 16F/4R	Caterpillar Powershift 16F/4R	16F x 2R Full Powershift	16F x 2R Full Powershift	e18 Powershift, 18 forward, 6 reverse	16 x 2 Ultra Command Full-Powershift	e18 PowerShift, 6 reverse	e18 PowerShift. 18 forward, 6 reverse	ZF Eccom 4.5, hydro-mechanical CVT	Caterpillar TA22 full powershift, 16 Forward Speeds, 4 Reverse	Semi Powershift, 16F (in 4 Ranges) / 8R (in 2 Ranges)
Hydraulic litres/min - Standard	220 litres	220 litres	216 lpm	216 lpm	220 lpm	159 lpm	220 lpm	220 lpm	120 lpm	200 lpm	180 lpm
Hydraulic litres/min - Optional	321.8 litres	321.8 litres	428 lpm	428 lpm	435 lpm	216 lpm	435 lpm	435 lpm		400 lpm	300 lpm
Three point hitch lift	8,845 kg	8,845 kg	8,900 kg	8,949 kg	6,804 kh, optional 9,072 kg	8900 kg	6,804 kg, optional 9,072 kg	6804 kg, optional 9,072 kg	Rear lift 10,196 kg. Front lift 8,260 kg	Cat 4 3-point hitch option	9,000 kg
PTO	425 hp	425 hp	473 hp	473 hp	335 hp	530 hp	335 hp	329 hp	472 hp	PTO option	PTO optional
Drawbar Capacity	CAT 5 5,670 kg	CAT 5 5,670 kg	Cat 4, Option Cat 5	Cat 4, Option Cat 5	Cat 4, Option Cat 5	Cat 4, option Cat 5	Cat 5	Cat 4 or 5		Cat 4	11,000 lbs
Standard Wheel/Tires	710/70R42 duals	457mm, 698.5mm, 762mm, 914mm Rubber tracks	710/70 R42 Duals	30 to 36 (762 to 914) Rubber Track		710/70 R42, or 36 inch front and rear Smart Tracks	30-36 inch front and rear tracks	30 inch tracks, optional 36 inch	800/70 R38, 710/75 R42, 900/60 R42	30 inch rubber tracks, front and back.	30.5R32 (800/65R32), tracked version available
Shipping Weight	21,546 kg	19,321 kg	21,839 kg	21,126 kg	18,970 kg	19,979 kg	25,410 kg	20,412 kg	16,570 kg	19,050 kg	19,200 kg

CANADIAN WESTERN Agribition

2017 SCHEDULE OF EVENTS

MONDAY, NOVEMBER 20

8:00 AM
Canadian National 4-H & Youth Judging Competition presented by TD and Federated Co-op - *Chevrolet GMC Arena*
9:00 AM
Agribition High School Rodeo presented by A&W - *Brandt Centre*
9:30 AM, 10:30 AM, 11:30 AM, 1:30 PM, 2:30 PM, 4:00 PM, 5:00 PM
Goat Yoga - *Canada Centre Show Sale Arena*
10:00 AM
Commercial Trade Show Exhibits Open
10:00 AM
Burning of the Brand - *ITC Atrium*
10:15 AM, 12:15 PM, 2:15 PM
Milking Demonstrations - *Canada Centre Show Sale Arena*
1:00 PM
Youth Showmanship presented by TD and Merck Animal Health - *Chevrolet GMC Arena*
1:00 PM
Youth Team Grooming presented by TD and Weaver Leather - *Chevrolet GMC Arena*
5:00 PM
International Business Centre Open House - *2nd floor ITC*
6:00 PM
Equine Extravaganza - *Brandt Centre*
7:00 PM
Winners Circle Auctioneer Competition & Horse Pull Auction presented by Ritchie Bros. Auctioneers - *Chevrolet GMC Arena*

12:00 PM
Tommie Turvey - *Brandt Centre*
1:00 PM
International Stock Dog Championship Finals - *Brandt Centre*
1:30 PM
Red Angus Show - *Chevrolet GMC Arena*
2:00 PM
Shorthorn National Sale - *John Deere Sale Arena*
3:30 PM
Charolais Sale - *John Deere Sale Arena*
4:00 PM
Commercial Sheep/Market Lamb Shows - *Canada Centre Show Sale Arena*
5:00 PM
Hereford Sale - *John Deere Sale Arena*
7:00 PM
Limousin Sale - *John Deere Sale Arena*
7:00 PM
Agribition Pro Rodeo presented by Ford - *Brandt Centre*

FRIDAY, NOVEMBER 24

9:00 AM
Agribition Select Horse Sale Demonstration - *Brandt Centre*
9:00 AM
Shorthorn National Show - *Chevrolet GMC Arena*
9:00 AM
Hereford Shows (Polled and Horned) - *Chevrolet GMC Arena*
9:00 AM
Commercial Cattle Show presented by Saskatchewan Credit Unions and Blair's Family of Companies - *John Deere Sale Arena*
9:30 AM
Purebred Sheep Breeds Show - *Canada Centre Show Sale Arena*
10:00 AM
Commercial Trade Show Exhibits Open
10:15 AM, 12:15 PM, 2:15 PM
Milking Demonstrations - *Canada Centre Show Sale Arena*
12:00 PM
Tommie Turvey - *Brandt Centre*
2:30 PM
Charolais Show - *Chevrolet GMC Arena*
2:30 PM
Agribition Select Horse Sale - *Brandt Centre*
5:00 PM
Prospect Steer & Heifer Show - *Chevrolet GMC Arena*
7:00 PM
Angus Power and Perfection Sale - *John Deere Sale Arena*
7:00 PM
Agribition Pro Rodeo presented by Ford - *Brandt Centre*

SATURDAY, NOVEMBER 25

8:00 AM
Bull Pen Alley Show presented by Saskatchewan Credit Unions and Blair's Family of Companies - *John Deere Sale Arena*
9:00 AM
Canadian Junior Beef Extreme presented by BMO - *Chevrolet GMC Arena*
9:00 AM
Cowboy Mounted Shooting Jackpot - *Brandt Centre*
9:30 AM
Junior Sheep Shows - *Canada Centre Show Sale Arena*
10:00 AM
Commercial Cattle Sale presented by Saskatchewan Credit Unions and Blair's Family of Companies - *John Deere Sale Arena*
10:00 AM
Commercial Trade Show Exhibits Open
10:15 AM, 12:15 PM, 2:15 PM
Milking Demonstrations - *Canada Centre Show Sale Arena*
11:00 AM
Face Painting - *Co-operators Centre Entrance*
11:30 AM
Tommie Turvey - *Brandt Centre*
12:30 PM
Sheep Shearing & Hoof Trimming Demonstrations - *Canada Centre Show Sale Arena*
12:30 PM
Wild Wool Ride - *Brandt Centre*
1:00 PM
Sheep Sale - *Canada Centre Arena*
1:00 PM
Steer Riding Rodeo School - *Brandt Centre*
1:30 PM
CWA Show Calf Genetics Sale - *John Deere Sale Arena*
2:00 PM
Prospect Steer & Heifer Sale - *John Deere Sale Arena*
2:30 PM
Wild Wool Ride - *Brandt Centre*
3:00 PM
Mini-Chuckwagon Racing - *Brandt Centre*
4:00 PM
Running with the Bulls - *Brandt Centre*
4:00 PM
RBC Beef Supreme Challenge - *Chevrolet GMC Arena*
7:00 PM
Agribition Pro Rodeo presented by Ford - *Brandt Centre*

Pavilion Hours 10:00 AM - 6:00 PM
Indigenous Pavilion presented by FHQTC - *The Co-operators Centre Arena 1*
Family Ag Pavilion presented by the Saskatchewan Ministry of Agriculture - *The Co-operators Centre Arena 1*
Food Pavilion presented by The Mosaic Company - *The Co-operators Centre Arena 2*
Living Sky Winery Garden - *The Co-operators Centre Arena 2*

TUESDAY, NOVEMBER 21

9:00 AM
Chore Team Competition presented by Young's Equipment - *Brandt Centre*
9:00 AM, 10:00 AM, 11:00 AM, 12:30 PM
Goat Yoga - *Canada Centre Show Sale Arena*
10:00 AM
Commercial Trade Show Exhibits Open
10:15 AM, 12:15 PM, 2:15 PM
Milking Demonstrations - *Canada Centre Show Sale Arena*
11:00 AM
First Lady Classic & Futurity presented by Merck Animal Health - *Chevrolet GMC Arena*
11:00 AM
President's Classic presented by Semex Beef - *Chevrolet GMC Arena*
11:00 AM
Canadian National Bison Sale - *John Deere Sale Arena*
12:00 PM
Tommie Turvey - *Brandt Centre*
1:15 PM
Lightweight & Middleweight Canadian Horse Pull Finals - *Brandt Centre*
2:00 PM
Clipping Demonstration - *John Deere Sale Arena*
4:00 PM
Water Barrel and Feed Team Races presented by Young's Equipment - *Brandt Centre*
7:00 PM
Full Contact Jousting - *Brandt Centre*

WEDNESDAY, NOVEMBER 22

8:30 AM
Canadian National Speckle Park Show - *Chevrolet GMC Arena*
9:00 AM
Chore Team Competition presented by Young's Equipment - *Brandt Centre*
9:00 AM
National Simmental Show - *Chevrolet GMC Arena*
10:00 AM
Commercial Trade Show Exhibits Open
10:15 AM, 12:15 PM, 2:15 PM
Milking Demonstrations - *Canada Centre Show Sale Arena*
12:00 PM
Gelbvieh Show - *Chevrolet GMC Arena*
12:00 PM
Tommie Turvey - *Brandt Centre*
1:00 PM
Angus Masterpiece Sale - *John Deere Sale Arena*
1:30 PM
Heavyweight Canadian Horse Pull Finals - *Brandt Centre*
3:30 PM
Water Barrel and Feed Team Races presented by Young's Equipment - *Brandt Centre*
4:00 PM
National Maine-Anjou Show - *Chevrolet GMC Arena*
4:30 PM
National Speckle Park Sale - *John Deere Sale Arena*
7:00 PM
National Simmental Sale - *John Deere Sale Arena*
7:00 PM
Agribition Pro Rodeo presented by Ford (Indigenous Theme Night) - FREE ADMISSION courtesy of The Mosaic Company - *Brandt Centre*

THURSDAY, NOVEMBER 23

7:00 AM
International Stock Dog Championship Trials - *Brandt Centre*
9:00 AM
Black Angus Show - *Chevrolet GMC Arena*
9:30 AM
Limousin Show - *Chevrolet GMC Arena*
10:00 AM
Commercial Trade Show Exhibits Open
10:15 AM, 12:15 PM, 2:15 PM
Milking Demonstrations - *Canada Centre Show Sale Arena*
12:00 PM
Gelbvieh Sale - *John Deere Sale Arena*

www.agribition.com

FIXED FRAME MODELS

	CLAAS AXION 960	Challenger 1050, Fendt 1000 has similar specs	Massey Ferguson 8737	New Holland Genesis T8.435	JCB Fastrac 8330
Engine	8.7 litre FPT Cursor 9	12.4L MAN engine	8.4 litres	FPT Cursor 9	8.4 L
Horsepower maximum	445 hp	517 hp	400 hp	435 hp	348 hp
Fuel capacity		800 litres	628 litres	617 litres	600 litres
Transmission	CMATIC, continuously variable transmission	Stepless Accu-VT transmission	Dyna-VT	auto command continuously variable transmission	
Hydraulic standard litres/min	150 lpm	220 lpm	204 lpm	161 lpm	137 lpm
Hydraulic optional litres/min	220 lpm	430 lpm	204 lpm	274 lpm	178 lpm
Three point hitch lift	11,000 kg	8,450 kg	12,000 kg	9026 kg	Rear, 10,000 kg. Front linkage lift capacity, 3,500 kg
p.t.o.	351 hp	453 hp	290 hp	315 hp	310 hp
Track availability	n.a.	Rear tracks available	n.a.	Rear tracks optional	n.a.
Wheelbase	3.15 metre	3,300mm	309 cm	355 cm	3.12 m

TRACTORS

Delta Track takes the Versatile reputation even further

BY ROBIN BOOKER
SASKATOON NEWSROOM

Versatile tractors are known to be straightforward and easy to work on, and many 1970s-era machines are still in the field covering acres. "We have a tractor that is easy to service, easy to operate and durable," said Del Fast of Versatile. "If you look in at some of the older tractors in the field, you will see a much bigger percentage of Versatile tractors than you will of any other brand."

Fast said Versatile has always focused on building tough and heavy machines that hold up to decades of use. "We've always been a machine where we have a lot of horsepower to the ground," he said. "With our heavy frames and our heavy tractors, very little ballasting needs to be done." High-horsepower Versatile tractors come equipped with a Cummins engine and the Cat power shift transmission, and Fast said the company has no reason to look at alterna-



Versatile's global articulated platform, the Delta Track. | MICHAEL RAINE PHOTO

...tive power train configurations. "It's a very good selling feature for us because both of those products are very well known in the industry," he said. "Part of the reason people buy our tractors is for those two reasons."

CONTINUED ON NEXT PAGE >>



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HISTORY

Book chronicles development of high-horsepower four-wheel-drive tractors

BY ROBIN BOOKER

SASKATOON NEWSROOM

A new book by publishing house Octane Press chronicles the development of high-horsepower four-wheel drive tractors from International Harvester, Steiger, J.I. Case and Case IH.

Lee Klancher, lead author of *Red 4WD Tractors* and owner of Octane Press, said the book describes how four-wheel drive tractors evolve from three very different perspectives.

"You have International Harvester, which was one of the biggest companies in the world at the time, and their approach to 4WD was frankly kind of a mess," Klancher said.

"They kept outsourcing it, and it kept not working," he said.

"They eventually did bring to bear all of their technological might in the '70s and created the 2+2, but that's a corporate approach to a four wheel drive tractor."

J.I. Case was a smaller player in the market and didn't have a lot of money or staff, but it figured out how to deliver a crab steer tractor that was economical while still being an efficient, very powerful and useful, Klancher said.

"They were actually number one in the industry in the early '70s for a brief time in that four wheel drive segment," he said.

Klancher said the story of how the Steiger tractor developed is one of the best stories in agriculture.

In 1958, three northern Minnesota farmers — two brothers and their father — decided to build their own tractors in their dairy barn.

"To go to that to becoming a world leader is unbelievable," he said.

"It's unbelievable enough to build your own tractor, but then the path to making it in the heavy equipment industry — there were probably five points in their history where they really should have failed, and something happened."

More than 50 interviews were conducted with the people who built the Steiger tractor company, which allowed the stories behind the development of Steiger tractors to be told in a dramatic fashion.

"The Steiger guys were amazing," Klancher said.

"We spoke to most the principles in the company who were still living about what happened."

Red 4WD Tractors uses vivid



Lee Klancher is the author of *Red 4WD Tractors*. | OCTANE PRESS PHOTO

images and illustrations to chronicle the technological development of the tractors, and many of the images were taken by Klancher.

He said one of the reasons he started Octane Press was a desire to produce technical stories in more detail with a larger focus on images than other publishers typically use.

Red 4WD Tractors was produced by the same team that wrote *Red Tractors 1958-2013* and *Red Combines 1915-2015*.

Octane Press publishes books within the transportation niche with a focus on how machines are built, designed and, in some cases, raced.

"I divide our company into four areas: we have agriculture machinery, motor sports, we have adventure motorcycling and we have custom motorcycles," he said.

"That's the core of what we do."

Klancher said he and his wife started Octane Press with \$500 and an on-demand book and then used its sales to expand the business.

Octane Press now has approximately 60 published books.

"Every year we do one or two or three things by me, depending on what we have in the hopper, and five or six or eight by other people," he said.

"I also work with collaborators, like with the red books. This helps spread out the workload, and it makes the book that much stronger."

Klancher said he's noticed that people tend to have a deeper connection with tractors than they do with the other machines he writes about.

"These are the machines that make these guys a living, so this isn't what I do on the weekend or in

my free time. This is day in day out kind of bonding with that machine. I think that is a big part of it."

He said nostalgia also plays a role in farmers' connection to old tractors.

"These machines can take you back to a time, so for some of them, it might be that when they look at that old Steiger it takes them back to when they were a kid, or it makes them think of their dad or

uncle," Klancher said.

There is also the utilitarian aspect of big, rugged, pre-electronic, older tractors that farmers who respect the technology appreciate.

"I also think that these machines are really kind of unique, in that they are still very effective tools, especially those late '70s Steigers," he said.

"There's a good percentage of

them that are out working."

Klancher started writing about farm machinery in the 1990s with a small paperback called *Farmall Tractors*.

"The history of the farm tractor is really the history of the mechanism of agriculture, which is the transformation of our society," he said.

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» CONTINUED FROM PAGE 54

Ease of operation and maintenance has been built into the design of Versatile tractors.

"A guy can go to our tractor, if he's got a grease gun in his hand, in 10 to 15 minutes he can have it serviced and ready for another day," Fast said.

"You can put a hired hand into them, and he can understand the basics of it very easily."

A scraper package can be ordered with a heavy horsepower tractor if it is intended for commercial operations.

"There are higher specs as far as the cab protection is concerned," Fast said.

"Some options come standard when it goes to a scraper application. For instance, the hitch is different because you want to come as close to the tires as possible."

Delta Track tractors come in three track options: the 30 or 36-inch track and a scraper track. The basic series track is the 3500. The 6500 series track comes with bigger lugs and has an extra belt for added protection. The dry lugs are lower but wider with the scraper track, which puts less pressure on them when on hard surfaces.

Fast said tracks allow the tractor to achieve slightly less than five pounds per sq. inch.

Tractors will continue to get bigger and more powerful as implement manufacturers produce wider tools, Fast said.

"It's really more the guys that are building the implements," he said.

"As they build bigger and bigger implements, then we have to supply enough horsepower to run them."

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Agco's Challenger MT875EX was a popular stop for farmers at the Farm Progress Show in Decatur, Illinois, when it was released. The all-black version was loaded and limited to just 50 machines. | MICHAEL RAINE PHOTO

TRACTORS

Twin tracks brought tracks back to ag

Caterpillar pioneered tracked farm implements with its Challenger tractor in 1989; the industry was never the same after that

BY ROBIN BOOKER
SASKATOON NEWSROOM

Caterpillar started selling a tracked offering of its Challenger tractor in 1987, and this first tracked tractor on the market proved to be a game changer.

Never before were producers able to get that much power to the ground and maintain traction, forcing other tractor manufacturers to the drawing table to draft a response to Challenger's innovation.

Agco bought Challenger from Caterpillar in 2001, and Ash Alt from Agco said the tracked system continues to help the company be an industry leader because of how the tracks minimize compaction and maximize traction and power to the ground.

"The benefit to the grower is that they are able to pull larger machinery across the field at faster speeds or deeper depths and minimize their input costs, so obviously time and labour is an input cost, the machine itself and fuel," he said.

"Our machines are actually able to perform and do more work than the competition and be more efficient."

Caterpillar is well known for producing heavy-duty industrial machinery, and the Agco Challenger remains true to its roots.

"Our frame is the biggest heaviest frame in the industry," Alt said.

"What that means is that its structural strength is where it needs to be."

He said the Challenger frame is not only strong but also balanced so that adding additional ballast weight is unnecessary.

"With a wheel tractor, the weight is split front to rear, and as you engage a tool in the ground, be it a ripper or disk or whatever it might be, that weight shifts as the load pulls the machine backwards," he said.

"So our machine has a better weight split out of the factory to be more efficient."

Agco also offers a high horsepower four-wheel drive tractor, the 900, which Alt claims has the heaviest frame, biggest drive line and

If you're thinking about pulling in Canada those 80 or 100 foot air seeders, and large tillage tools that are 60 or 80 feet wide as well, you want to make sure your tractor is robust enough to handle those demands.

ASH ALT
AGCO

biggest bar axles in the industry.

"So if you're thinking about pulling in Canada those 80 or 100 foot air seeders, and large tillage tools that are 60 or 80 feet wide as well, you want to make sure your tractor is robust enough to handle those demands," Alt said.

When it comes to high horsepower tractors, it's not just the horsepower that gets the job done. It's also the engine's torque that gets operators through the tough spots.

"It's what pulls up that hill or through that hard spot, and you don't have to sacrifice a ground speed change," he said.

Having a robust torque rise allows producers to run the Challenger tractors at a lower r.p.m., which helps reduce fuel consumption.

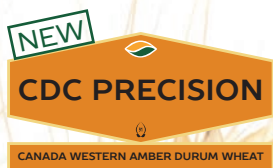
"What the Agco power engine is able to do is because our torque rise and our torque curve is so good, we can actually run our engine at a lower r.p.m., let's say on average between 1,400 and 1,500 r.p.m., and still do a great job," Alt said.

He said he believes that tractors will continue to get bigger and more powerful as small farms disappear and larger operators absorb that ground.

"The need for efficiency, speed and size, I think, are going to keep increasing," he said. "The demand for larger tillage tools and air seeders are going to keep increasing."

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TRACTORS

Deere's RX fulfills requests for tracks

BY ROBIN BOOKER
SASKATOON NEWSROOM

Few brands inspire the loyalty that John Deere does.

Even in the face of fierce competition from rivals with solid equipment lineups, it would be blasphemous on some multi-generational farms to park anything other than a green machine in the yard.

"The quality of our machines is what our customers have come to love and respect from John Deere, that's why they buy John Deere," said Lyle McMillan, the company's product marketing manager.

"All these machines, whether if they have the 13.5 litre Deere engine, or if they have the 15L Cummins QSX15 engine in the higher horsepower machines, they are all serviced by our... technicians at the dealerships," McMillan said.

Fans of John Deere high horsepower tractors cite premium options such as an auto track guidance system and the comfort of the integrated technology in the cab as reasons why they go green.

"We have the command arm in these cabs with all of the controls within fingertip reach," McMillan said.

"We have a 10-inch command centre display that provides a touch screen user interface for an operator"

Just as important as the constant march to more powerful machines, McMillan said, is fitting the tractor machine form to best match a farm operator's needs.

"That's why we strategically have three different machine forms available from John Deere in the four-wheel drive market," he said.

"We are the only North American manufacturer of agriculture machinery that produces the 9R series in three machine forms. We have the wheel version, we have the two-track version and we have the four-track 9RX version."

There were long-time John Deere fans who crossed over to other tractor manufacturers that offered four-tracked systems, but now with John Deere's offering in the four-track high-horsepower market, McMillan is confident they will get back into a green machine.

Four-tracked machines allow producers to get into the field earlier and in wet conditions because there are four powered undercarriages that work in unison yet independently, allowing them to hug the ground and maintain ground contact even when pulling around obstacles.

"The idea and the concept of the four-track machines are two things: turning under load, and flotation and compaction," McMillan said.

"With a four-track machine you're going to have a much larger footprint than you would on a wheel tractor. Also, you're going to get less slip, greater flotation."

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John Deere debuted its 9RX series of tractors, with the 620 h.p. 9620RX as its largest model. | MICHAEL RAINE PHOTO



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AG NOTES

REMOVE SNOW ON TREES

It's that time of year when a sudden heavy snowfall can damage new trees and shrubs.

Most spruces, pines and firs have flexible branches and shed snow relatively easily, but coniferous trees often have their tops broken by heavy snow.

Trees with a narrow vertical crown, like Swedish poplar, junipers and many shrubs, and with narrow upright branching, are susceptible to damage from wet snow. Pruning is the only option for damaged trees and shrubs. Here are several do's and don'ts when pruning:

- Safety — inspect trees for power line contact from a safe distance. If problems are evident, stay away and call the power company.
- Call a certified arborist to deal with heavy broken branches or large trees.
- Do not try to use a ladder to remove snow or broken branches.
- Do a proper pruning that includes three-way cuts of larger branches to remove the heavy weight of the branch.
- Small branches less than two inches in diameter can be removed with one cut.
- Putting wound paint or dressing on the cut has no effect.
- Do not leave any stubs when pruning.
- Make cuts with sharp tools.

APPLE PACKING TECHNOLOGY

The federal government is expected to invest up to \$1.75 million to Scotian Gold Cooperative Ltd. to help fund an apple packing facility in Coldbrook, N.S., the largest apple packing and storage operation in Eastern Canada.

The funding will enable the cooperative to expand its Coldbrook facility and buy two upgraded high efficiency production lines.

The company expects sales of Nova Scotia-grown apples to increase in Canada and the U.S.

The Canadian apple industry generated \$51 million in exports and more than \$220 million in farm gate receipts last year.

B.C. DAIRY CONVENTION PLANNED

The British Columbia Dairy Association plans to hold its annual conference in early December.

Trevor Hargreaves, director of communications with the B.C. Dairy Association, said the conference is about gathering producers together and building a sense of belonging.

A full agenda of relevant topics is also in the works, including a pre-conference meeting on finding fairness in farm transitions.

Industry-focused topics are also planned, such as breeding and managing for healthy, drug free cows and tradition versus innovation in the dairy industry.

The conference runs from Dec. 6-8 in Vancouver.

HARVEST OF LETTER LAUNCHED

The Canadian Foodgrains Bank has launched its Harvest of Letter campaign to help end global poverty and hunger by influencing public policies.

Canadians are invited to send a personal letter or emails to their members of Parliament to let the federal government know they care about Canada's role in ending global poverty and enabling people around the world to improve

their access to basic needs, such as nutritious food, health and education.

Canada contributes .26 percent of its gross national income to helping the world's poorest citizens, which is below what similar countries give (.54 percent) and the global target of .7 percent.

FEEDLOT OF THE YEAR AWARD

Kolk Farms of Iron Springs, Alta., recently received the 2017 Western Feedlot of the Year Award.

The four-generation, family-owned and operated feedlot has three feeding yards, more than 4,000 acres of dry and irrigated farmland, and a feeding capacity of 18,000 head.

They are one of five feedlots that joined to feed 100,000 cattle designated for the Certified Angus Beef program, which is providing 20 million pounds of beef each year.

WINTER ON THE HORIZON



Lowell Cuthbert helps haul hay Oct. 21 in the Hughenden, Alta., area. | STERLING CUTHBERT PHOTO

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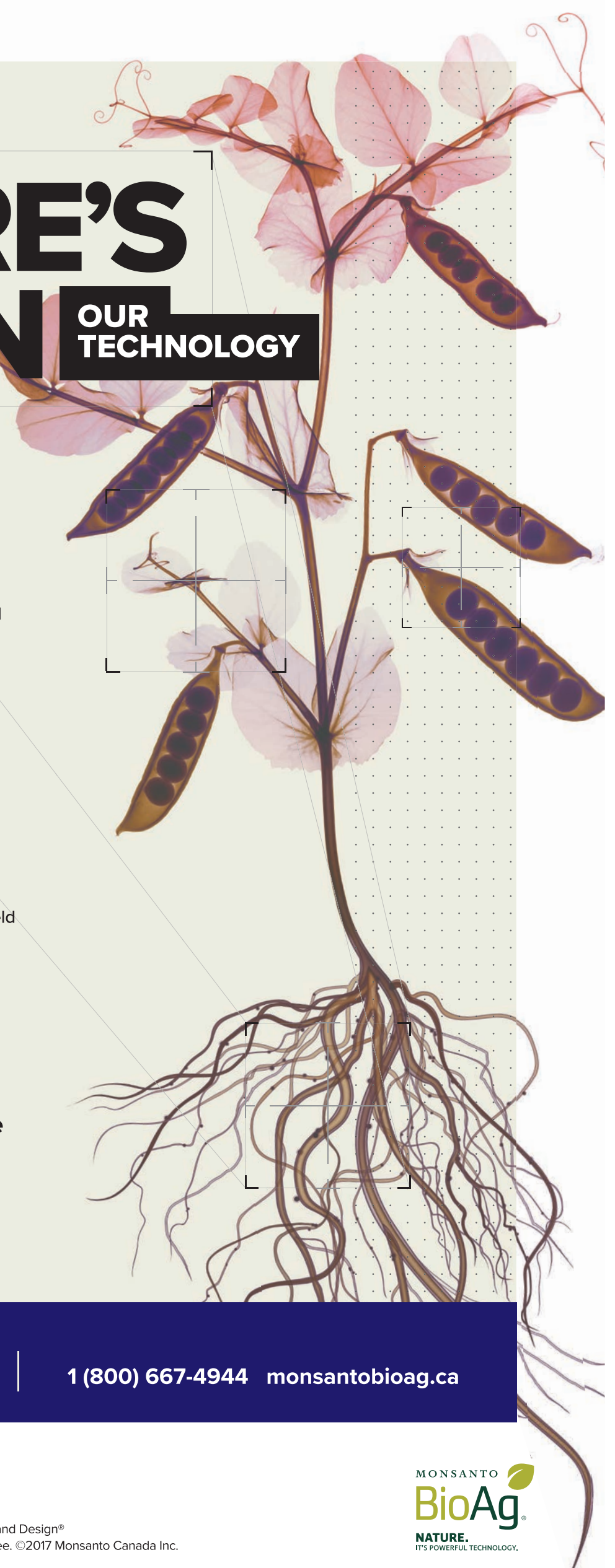
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FUTURE PRODUCERS

Charolais sector sees youthful addition

The number of Charolais breeders in Manitoba is down but herds are getting bigger and owners are younger

BY ROBERT ARNASON
BRANDON BUREAU

It's a question that comes up frequently in Canada's cattle industry: who will be the next generation of cattle producers?

That question may have been answered in Manitoba, at least when it comes to purebred Charolais breeders.

"We're seeing less breeders but younger breeders in the province of Manitoba," said Darwin Rosso, Canadian Charolais Association president.

"Manitoba is in that transition where they've gone from the old generation to the second generation.... It's happening (in Alberta and Saskatchewan) but you don't see quite as many second generations taking over yet."

Two members of the new generation in Manitoba are Shawn and Tanya Airey, who run HTA Charolais near Rivers, Man.

They assumed control of the purebred operation about five years ago, taking over from Shawn's parents, Harry and Joan.

Once in charge, the young couple decided, almost immediately, that they needed to get bigger to take



Shawn and Tanya Airey showed four members of their Charolais herd at Manitoba Ag Ex and the National Charolais Show and Sale, held in late October in Brandon. The Aireys are purebred cattle breeders and run HTA Charolais near Rivers, Man. | ROBERT ARNASON PHOTO

advantage of economies of scale. "In the last four years, we went from calving out around that 95 to 100 head and now we're breeding up to 175," Tanya said at Manitoba Ag Ex, a cattle show and sale held in late October in Brandon.

"We've seen some other (breeders) in the province do the same thing."

Having increased their herd, the Aireys are now one of the larger Charolais breeders in the province.

But they're not the largest. Stepler Farms of Miami, Man., breeds about 400 Charolais cows, Shawn said.

Overall, the number of Charolais breeders in Manitoba has declined in recent years but the size of the herd is on the rise.

That trend will likely persist in the Charolais trade.

"It will be bigger farmers getting (larger) with some smaller ones dropping off," said Shawn, 40, who

is past-president of the Manitoba Charolais Association.

The association has a number of members younger than Shawn and Tanya: a sign that the transition to the next generation is underway.

In addition to raising cattle, the new generation of Charolais breeders is also raising the next generation of cattle producers.

"There aren't a lot of junior Charolais kids right now," Shawn said at Ag Ex, where the Aireys

With all the (youthful) enthusiasm here, it's going to be good for a long time.

SHAWN AIREY
CHAROLAIS PRODUCER

were showing four animals from their herd. "But there's a lot in the under 10-year-old age.... In five years, there's going to be a lot of junior Charolais kids again."

Tanya and Shawn have two kids in that age group: son, Chase, is seven and daughter, Blake, is four. The kids are part of the 4-H Pee Wee Beef Club in Rivers and they're also involved in the day-to-day operations at the Aireys farm.

Shawn said their kids' involvement is 25 percent about cows, 25 percent about learning and 50 percent fun.

"They associate fun with cows and they meet other kids with similar interests. That's what gets them hooked."

With younger producers expanding their herds and their children learning to love cattle, Shawn is feeling positive about the future of the Charolais breed in Manitoba and in Canada.

"With all the (youthful) enthusiasm here, it's going to be good for a long time."

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RESTOCKING ASSISTANCE

Feds give ranch operations hit by TB added tax deferrals

BY BARB GLEN
LETHBRIDGE BUREAU

MEDICINE HAT — Alberta and Saskatchewan ranchers affected by the discovery and investigation of bovine tuberculosis last year will see an improved set of income tax deferrals.

Federal agriculture minister Lawrence MacAulay announced Nov. 6 that no tax need be paid in 2016 and 2017 on compensation received for animals destroyed in the tuberculosis investigation.

In 2018, 83 percent of compensation received will be included in income and will be taxable. In 2019, 11 percent will be included and in 2020 six percent will be included in income.

About 11,500 cattle were destroyed as part of the Canadian Food Inspection Agency's investigation and control measures, and owners of those cattle received compensation.

About \$40 million has been distributed to date, according to ABP data. Depending on the number of cattle involved, payouts resulted in fairly large amounts of money subject to taxation for some of the affected ranchers.



KARIN SCHMID
ALBERTA BEEF PRODUCERS

"In a lot of these cases, we're looking at pretty big numbers, and it would take some of these guys some time to restock back to the level that they were at," said Alberta Beef Producers beef production

specialist Karin Schmid.

In addition to compensation for cattle, ranchers also had access to \$7.1 million in funds from the Canada-Alberta Bovine Tuberculosis Assistance Initiative through the federal Agri-Recovery program.

That money covered such things as extra feed or improved facilities needed to hold cattle in quarantine, extra wells or livestock water access and some cleaning and disinfection.

"Any extraordinary cost that wouldn't have been incurred as part of normal business, due to the extended quarantines," Schmid said.

Bovine TB was discovered in one Alberta cow when it was slaughtered at an American plant in 2016. It triggered a full investigation by CFIA, in which five more infected animals were found, all from the same herd and carrying the same strain of the illness.

As of Oct. 26, 17,500 cattle had been released from quarantine and all but five affected premises had undergone cleaning, disinfection and a fallow period. That allows them to restock.

Some have done so and have already been tested to ensure freedom from bovine TB, said Schmid. A second test will be required next fall.

The trace-out of animals that may have come in contact with infected ones is also largely complete. Three trace-out herds remain in quarantine and are scheduled for testing this fall.

Checking the trace-in herds, those that may have entered the TB index herd in the past five years, is still underway, said Schmid. Initially, 170 producers were contacted but 67 herds will be tested.

Among the trace-in herds, 29 are in Alberta, 35 in Saskatchewan and three in Manitoba.

Schmid said the CFIA improved

its communication about the investigation after early issues, but "however much (ABP) tried to communicate ... we never managed to stay quite in front of the rumour mill."

However, each affected producer now has a dedicated case officer to answer questions and schedule testing dates.

The CFIA plans to change its policy as a result of this investigation, including future presumption that cats, dogs and horses are free of TB unless there's some pressing reason to think otherwise.

MacAulay also announced livestock tax deferral provisions for 2017 in various regions of the country affected by drought, flood or excess moisture.

Producers can defer a portion of their 2017 proceeds from breeding stock until 2018 to help replenish herds.

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SHEEP SYMPOSIUM

Study evaluates ergot levels in lamb rations

A three-year study looked at alkaloid concentrations and the effect on lamb performance and behaviour

BY BARBARA DUCKWORTH
CALGARY BUREAU

RED DEER — Toxins in ergot infected grains can seriously affect sheep productivity.

“If the concentration and the duration is high enough, you can have death. There are a huge variety of symptoms to make it tough to tell if it is ergot,” said researcher Kim Sandford of Alberta Agriculture.

“Because ergot has such really bad implications for breeding stock, it is just best if you can avoid having ergot in your feed for breeding stock.”

Sandford is part of a research team investigating the effects on growing lambs when they were fed different concentrations of ergot-infected rations.

Early results were presented at the Alberta Sheep Symposium held in Red Deer Oct. 20-21.

Ergot is a fungus affecting grasses and cereal grain when the plants are in flower.

Ergot does not stay in the bloodstream for more than about six hours and so is hard to detect. The symptoms of infection are variable but can be damaging.

Alkaloids are the troublesome part of ergot.

Each alkaloid has two forms called



CFIA feed guidelines put the maximum alkaloid content in feed for cattle, sheep and horses at two to three milligrams per kilogram

epimers in the form of S and R. The S epimers are less toxic than the R epimers, but they are able to change from one to the other, which makes it difficult to tell how toxic a sample might be. Other alkaloids may also be present.

There are no rapid tests for ergot alkaloids so feed companies may have to rely on visual observation and may refuse grain if there are more than four to six ergot bodies

per litre of grain.

The current standard for laboratories is to use high performance liquid chromatography in combination with mass spectrography.

The Canadian Food Inspection Agency feed guidelines say the maximum alkaloid content in feed for cattle, sheep and horses is two to three milligrams per kilogram. Swine can handle up to four to six mg per kg.

There is limited research on cereal ergot and the effects on livestock. Nor is there much information on how alkaloids work together or against each other.

Researchers also want to know if the alkaloid profiles are confined to different regions of the country.

The feeder lamb study fed different concentrations of ergot to see how weight gain, feed intake and digestibility were affected.

They also measured for the hormone prolactin in the blood. It is known ergot fed in sufficient concentrations blocks prolactin and ultimately affects reproduction problems and an ewe's ability to make milk.

Ergot also causes blood vessels to constrict and can lead to tissue necrosis. Eventually, animals could lose their hoofs if they are badly affected.

Year one of the study used low alkaloid concentrations. There were no significant production problems but the lambs that received a pelleted diet grew better than those on a mash diet even with the presence of ergot.

Researchers also theorized pelleted feed may be better all around. “Pelleting, rather than being bad had protective effects to reduce the negative impacts of the alkaloids,” she said.

Feed intake was not a problem. “There was absolutely no reduction in feed intake for the lambs fed the ergot diets compared to the control diets,” she said.

In other species, the first symptom of contamination is when animals go off feed.

There were no differences in carcass traits, but ergot can change how the fat is deposited and causes a crumbly appearance. Researchers did not detect that.

In year two, the alkaloid concentration was boosted and showed more of an effect on lamb performance.

This was six times higher than the diet used in year one, but there were no significant differences in feed intake, digestibility or feed conversion but prolactin levels and rectal temperature differed.

Lambs receiving higher levels of infected feed also displayed some behavior changes due to the alkaloids.

Further inspection showed there was more of one kind of alkaloid that led to psychedelic effects.

In the third year, an alkaloid binder product was used and appeared to have positive effects in preventing ergot-related problems but results are still being evaluated.

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FEED EFFICIENCY

Reducing feed waste lowers production costs

BY BARBARA DUCKWORTH
CALGARY BUREAU

RED DEER — When feed supplies are short, it is time to sharpen the pencil and do some tough calculations.

Lamb producers need to figure out what it costs to keep a ewe, said Dr. Paul Luimes of the University of Guelph in Ontario.

“This time of year, if you are short on feed, you have to be ruthless in your culling,” he said at the Alberta sheep symposium held in Red Deer Oct. 20-21.

Luimes advised using a feed calculation program like Sheep Bytes to conduct an inventory of harvested feed, stored pasture, residues and the potential of stubble fields.

He advised producers to look at feed waste.

Sheep pull hay out of a feeder and eat the parts they like and then waste the rest. If hay is chopped there is less waste.

Another way to reduce waste is to properly store hay. Storing hay outside must be considered a last resort because the outer layers can spoil or become weather damaged. “If you lose three inches around the outside of a bale, that is 25 percent of a bale,” he said.

“You are burning every fourth bale.”

About five to seven percent is lost when wrapping bales or enclosing hay in plastic tubes.

“Anytime there is spoilage going on, the bacteria are actually removing nutrients from the hay,” he said.

Other alternatives must be considered.

To stretch the hay supply, mature animals can also do well with added straw in the ration.

Straw is a tough fibre and sheep do not need much to start rumination.

A lamb needs eight percent effective fibre to have a healthy rumen. A ewe needs 20 percent effective fibre.

Corn silage can be offered at about 25 percent of the ration, but also consider grazing standing corn.

“If you have standing corn and the yield is poor, turn the sheep into it because there is lots of grazing capacity in standing corn,” he said.

Corn needs to be strip grazed and the sheep should have enough for one day at a time.

Sheep will pull off all the cobs, followed by the leaves and then the stalks.

Stalks have the least amount of nutrition and if ewes are thin, they should be moved on more quickly so they can graze the richer parts of the plant.

However, this practice needs to be monitored because if sheep get too much energy, rumen acidosis could set in.

CONTINUED ON NEXT PAGE >>

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If sheep are in the late gestation period, they may need some added protein.

Producers can consider supplements such as distillers grains, but there is a risk of high sulfur that can cause a thiamine deficiency.

Vitamin and mineral supplements may be required as well when winter feeding.

Alternative feeds include beet pulp, canola meal, corn gluten feed, cotton seed, dried distillers grain, oat hulls, soy hulls and wheat shorts derived from the bakery sector.

Screenings from grain cleanings are an option but buyers must be wary of mycotoxins and ergot that can be found in screenings.

Most importantly, producers should have their feed analyzed.

For example, a producer may think alfalfa hay is 18 percent protein, but if it tests at 21 percent crude protein, then more is being fed than needed. If the protein levels are too low, slower growth rates or reduced milk production can result.

Body condition scores should also be watched. On a scale of one to five, 2.5 is ideal.

If sheep are in good shape they have less disease, produce enough milk and eat less.

Underweight sheep might have a high parasite load or teeth problems so they cannot eat properly.

Also, producers were told to resist shearing when it is cold and consider shearing sooner so when it gets cold they have some wool cover and stay warm.

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EFFECTIVE FEEDING

Proper rations make flock healthy, not fat

BY BARBARA DUCKWORTH
CALGARY BUREAU

RED DEER— Feeding lambs the right stuff gets them off to a good start in life.

A nutrition program could include creep feeding and it must pay extra attention to protein and energy levels, said researcher Paul Luimes of the University of Guelph.

“What you do to that lamb will impact her for the rest of her life,” he said at the Alberta sheep symposium held in Red Deer Oct. 20-21.

More research is needed to make lambs more efficient and produce lean muscle rather than fat. Lean muscle comes from adequate protein consumption.

“If we oversupply energy in the early stages, that animal can’t convert that energy into protein and so that lamb is going to put on fat,” he said.

Fat replacement ewes are not good. The fat goes into their udders and decreases milk production.

One way to deliver more protein is through creep feeding, which encourages very young animals to start eating solid food and promote rumen development.

Lambs born as twins and triplets or those with mothers having poor

milk production can benefit from a high protein creep feed ration. They can eat about 230 grams or half a pound a day of creep feed. Once they are eating that much, producers can transition them off the creep feed and put them on a finishing diet.

It takes about a week to switch over from creep feed to a finishing diet, said Luimes.

Creep feed gets the young rumen working and when the lamb goes to finishing, the rumen is better developed and can absorb nutrients better.

It is critical to provide clean water as well as milk from their mothers because it will help with feed intake.

Replacement ewes may receive some hay because it helps develop a large, strong rumen whereas market lambs do not need it.

Lessons from swine showed young pigs that ate creep feed did not have heavier weaning weights but they were larger at the end of the nursery stage and a big difference in growth was noted at the end of the finishing period.

Luimes has also tested different types of feed.

Corn silage can be fed to lambs but no more than 25 percent should be included in the diet.

He has also looked at pelleting versus non-pelleting feeds.



The highest quality feed available should be given to growing lambs and lactating ewes. | FILE PHOTO

Lambs eat more feed in the pellet form but the costs need to be considered.

“There is no advantage to pelleting and there is no disadvantage but there are a lot of practical reasons for doing it,” he said.

Bunk management is easier with pellets. Lambs will eat it all so there is little or no waste.

Other work tested dried distillers grains from the ethanol sector, soybean meal and mixed grain rations of corn, barley and oats.

DDGs could be a profitable way to feed growing lambs to provide them with enough protein and energy. However, it needs to be mixed with other feeds because they do not find it palatable.

Corn cob meal, a high moisture product, is another good alternative.

The cobs can be ground at 25 percent moisture and ensiled. It is a cheap feed and lambs will eat it,

especially when mixed with DDGs.

Luimes’ research showed corn cob meal cost 48 cents per pound of gain compared to straight corn costing 69 cents per pound of gain.

The feed was supplemented with standard minerals.

Besides a well-balanced ration, a solid health program is needed.

Healthy animals require less feed for maintenance

It costs 23 cents a pound more to get the sick ones to market.

They need to be vaccinated and stocking densities need to be maintained. If lambs are overcrowded they struggle to get to feed and water.

Bunk management is another way to ensure they eat enough.

The throat height of a bunk for lambs should be 10 to 12 inches high whereas ewes need 12 to 15 inches.

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OLDS FALL CLASSIC RESULTS

The Olds Fall Classic was held Oct. 6-8.

BLACK ANGUS

Grand champion female: Lazy MC Angus, Bassano, Alta.

Reserve: Golden Oak Livestock, Olds, Alta.

Grand champion bull: Remittal Farms, Olds, Alta.

Reserve: Boss Lake Genetics, Parkland County, Alta.

CHAROLAIS

Grand champion female: McLeod Livestock, Cochrane, Alta.

Reserve: Daines Cattle/O'Neill Livestock, Red Deer County, Alta.

Grand champion bull: Johnson Charolais, Barrhead, Alta.

Reserve: Daines Cattle/O'Neill Livestock, Red Deer County

HEREFORD

Grand female: JM New Trend Cattle Co., Strathmore, Alta.

Reserve: Nelson Hirsche Purebreds, Del Bonita, Alta.

Grand champion bull: MJT Cattle Company, Edgerton, Alta.

Reserve: Harvie Ranching, Olds, Alta.

LIMOUSIN

Grand champion female: Boss Lake Genetics, Parkland County, Alta.

Reserve: Plains Limousin, Wainwright, Alta.

Grand champion bull: Boss Lake Genetics, Parkland County, Alta.

Reserve: Plains Limousin, Wainwright, Alta.

MAINE ANJOU

Grand champion and reserve female: Wise Maine-Anjou Ranch, Irricana, Alta.

Maine Influence grand champion female: GSB Stock Farm, Wrentham, Alta.

Reserve: Miller Show Cattle, Cremona, Alta.

Maine influence grand champion bull: GSB Stock Farm, Wrentham, Alta.

Reserve: Dun Rite Stock and Stables, Bentley, Alta.

RED ANGUS

Grand champion and reserve female: Ter-Ron Farms, Forestburg, Alta.

Grand champion bull: Lazy MC Angus, Bassano, Alta.

SIMMENTAL

Grand champion female: New Trend Cattle Co., Strathmore, Alta.

Reserve: Double Bar D Farms, Grenfell, Sask.

Grand champion bull: Double Bar D Farms, Grenfell, Sask

Reserve: Ultra Livestock, Carstairs, Alta.

SHORTHORN

Grand champion female: Lilac Lane Farm, Innisfail, Alta.

Reserve: Melba Stock Farm, Chaplin, Sask.

Grand champion bull: Saskvalley Stock Farm, Rosthern, Sask.

Reserve: Melba Stock Farm, Chaplin, Sask

Prospect and commercial division:

Purebred heifer champion: New Trend Cattle Co. of Strathmore, Alta.

Reserve: Triple A Herefords, Moose Jaw, Sask.

Commercial heifer calf champion: Lucky Springs Farms, Rocky Mountain House, Alta.

Reserve: Compass Ranch, Cochrane, Alta.

Bull calf champion: Boss Lake Genetics, Parkland County, Alta.

Reserve: Nelson Hirsche Purebreds

Prospect steer champion: JM New Trend Cattle Co., Strathmore, Alta.

Reserve: Triple A Herefords, Moose Jaw, Sask.

Reserve: Triple A Herefords, Moose Jaw, Sask.

Champion yearling commercial heifer: Miller Show Cattle, Cremona, Alta.

Reserve: Daines Cattle/O'Neill Livestock, Red Deer County

DISEASE CONTROL

Proper vaccination products, methods essential in effective disease control

ANIMAL HEALTH



ROY LEWIS, DVM

Common preventable problems crop up when investigating disease outbreaks in the cattle industry. This column will outline some of the common problems I see and hopefully help you prevent issues on your farm or ranch.

A number of clostridial disease outbreaks occur where booster doses of eight-way vaccines have not been given.

For example, clostridial disease will start to show up near the end of the grazing season in calves vaccinated with blackleg in pastures contaminated with clostridial (blackleg) spores.

If this is the case, vaccinating with a booster shot three to four weeks after the first shot and before turnout or vaccinating mid-summer may avoid this.

Producers dealing with clostridial diseases must make sure they have selected the right vaccine.

If tetanus or redwater coverage is required, they must buy a vaccine with these two antigens. Redwater (*Clostridium hemolyticum*) has a shorter length of protection than the other clostridial organisms.

Dairy cattle in Eastern Canada can get clostridial disease if they are injected with products such as prostaglandins that bring cattle into heat. These products cause slight bruising, and the cattle are exposed to spores in the dirt when they go outside or are fed hay. No cattle housed inside are protected from clostridial disease.

All bison herds should be vaccinated.

As well, producers should clean up dead stock as best they can. This is paramount with a disease such as anthrax, but it also applies to clostridial disease.

Leaving out carcasses attracts coyotes and other carnivores, and the spores are spread around, further contaminating the soil and putting other cattle at risk.

Vaccine reactions or lumps can be expected to varying degrees. This is the way vaccines work — creating an immune reaction. Some lumps are larger than others, and they seem to be worse in small ruminants such as sheep or goats.

More abscesses crop up when vaccinating in the rain or on wet

cattle, which I think is caused by dirt and manure getting washed into the needle hole.

Don't place separate vaccines close together.

As well, vaccinate show cattle behind the elbow on preferably the left side.

By always injecting vaccines in the same place, producers can determine which ones are causing the reactions when multiple vaccines are given.

Preventing outbreaks

Producers often think that vaccines are 100 percent protective. Some vaccines, such as the clostridials, may come close, but most vaccines are labelled as "aids in prevention," which means 80 percent or greater of the cattle have been protected in trials.

By vaccinating for most diseases, we are looking to get the majority protected so that no disease outbreak occurs.

Feedlot veterinarians know that in spite of doing everything right and vaccinating for the right things, we will still get some cases if exposure becomes high or concurrent disease situations are suppressing the immune system.

Allergic reactions are also reported, and although rare, they can come in multiples. The vast majority can be saved if producers

have their emergency kit available and stocked with epinephrine, antihistamines and potentially steroids.

It is important after vaccinating to keep cattle in a pen for about a half an hour so that a close visual examination can be done. Heavy breathing, puffy eyes or abnormal behaviour needs treatment.

You may not have had an issue for years, but the close examination may save a life.

The processing and handling facility may need to be checked if common injuries are detected. Signs of blood are a particular red flag. I always want to know where the blood came from, what injury was involved and whether it is preventable.

Veterinarians and ranchers must let the industry know about disease outbreaks, production losses and nutritional deficiencies so that they may be prevented on others farms. It can be communicated anonymously.

We must always be on the alert for emerging diseases and look after biosecurity on our farms. This co-operative spirit will make the cattle industry stronger and maintain our beef's strong global reputation.

Roy Lewis works as a technical services veterinarian part time with Merck Animal Health in Alberta.

WESTERN TALLY

Producers urged to complete cow-calf survey

BY BARBARA DUCKWORTH
CALGARY BUREAU

The second western Canadian cow-calf survey is slated to start this fall.

The survey collects information on herd sizes, pregnancies, weaning weights and other production statistics from British Columbia, Alberta, Saskatchewan and Manitoba.

A complementary report allows participants to compare their operation with benchmarks in a given region.

For example, results could show individual operators their calving rates and compare them with herds of a similar size.

All information is confidential and participants are eligible to receive up to \$50 in gift cards.

Further information is available from Barry Yaremicio at Alberta Agriculture at 403-742-7926, Kathy Larson at the Western Beef Development Centre at 306-930-9354, or Benjamin Hamm of Manitoba Agriculture at 204-425-5050.

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Cow-calf surveys are being distributed at farm meetings this fall or visit www.wcccs.ca. The deadline is Feb. 28, 2018.

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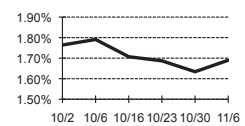
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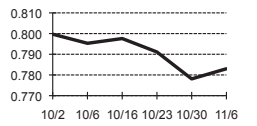
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Nov. 6

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After Alberta growers pulled funding for breeding research, Saskatchewan Pulse Growers sold licensing rights for Alberta and Manitoba to SeCan and SeedNet. | FILE PHOTO

SASKATCHEWAN PULSE GROWERS

CDC pulses now royalty free to Saskatchewan growers only

A licensing deal means growers outside the province will pay certified seed royalties

BY SEAN PRATT
SASKATOON NEWSROOM

Pulse growers in Alberta and Manitoba will no longer have royalty-free access to Crop Development Centre varieties.

Saskatchewan Pulse Growers has licensed the distribution rights for select CDC varieties in provinces outside Saskatchewan to SeCan and SeedNet for 10 years.

Saskatchewan farmers spend about \$4 million a year on the CDC's breeding program. Growers from Alberta and Manitoba made much smaller contributions to the program, amounting to less than \$100,000 each.

Those contributions allowed SPG to commercialize CDC varieties royalty free in the neighbouring provinces. However, Alberta pulled its funding in 2016 when the agreement came up for renewal.

SPG executive director Carl Potts received a lot of calls from seed growers and commercial farmers in Alberta who didn't want to lose access to CDC varieties.

SPG considered a lot of options but settled on licensing the distribution rights to seed companies

operating in the two provinces.

The organization ran a request for proposals in the summer and selected SeCan and SeedNet as its commercialization partners.

SeCan members have grown CDC varieties in the past, and we felt it was critical to ensure that our members continued to have access to the varieties.

TODD HYDRA
SECAN

"SeCan members have grown CDC varieties in the past, and we felt it was critical to ensure that our members continued to have access to the varieties," Todd Hyra, western Canadian business manager for SeCan, said in a news release.

Elizabeth Tokariuk, general manager for SeedNet, said in the same release: "SeedNet wants to provide growers with the best genetics to satisfy the increasing demand for

pulse crops in Alberta, Manitoba and the B.C. Peace."

Potts doesn't believe CDC varieties will lose market share outside Saskatchewan now that growers will be paying certified seed royalties.

He said CDC varieties account for 90 percent of Alberta's pea acres because they are strong performers in terms of yield and agronomy.

"I'm not expecting a lot of changes or reduction in market share because of this," said Potts.

D'Arcy Hilgartner, chair of Alberta Pulse Growers, said the board made the decision to stop funding the CDC's variety release program to level the playing field with other breeding programs.

The board decided to focus on the pre-commercialization stage of breeding, such as germplasm testing and variety trials, and to let the market decide what varieties to commercialize.

It also wanted more of an Alberta focus on its research and development expenditures.

"We tried to look at encouraging more varieties to come to market, maybe some more suitable and related to Alberta growing condi-

tions as opposed to maybe just the Saskatchewan growing conditions," said Hilgartner.

He said the new arrangement is similar to what growers see with other crops, and he believes the relationship with SeCan and SeedNet will result in better promotion and marketing of pulse varieties than when they were distributed directly to the province's seed growers.

Hilgartner agreed CDC varieties will continue to thrive in Alberta but now they will be on a level playing field with other varieties such as Agriculture Canada's Lacombe peas.

Potts said the licensing agreement could be a significant new source of revenue for SPG, depending on market share and how quickly new varieties are adopted.

The new distribution arrangement created challenges with issues such as interprovincial trade rules because the varieties are released royalty-free in one province but not in the others. However, those challenges have been overcome.

sean.pratt@producer.com

AG STOCKS OCT. 30-NOV. 3

Rising crude oil helped push the TSX over 16,000 and strong sales of Apple's new iPhone helped lift U.S. stock indexes to new record highs. For the week, the TSX composite rose 0.4 percent, the Dow rose 0.45 percent, the S&P gained 0.26 percent and the Nasdaq climbed 0.94 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	39.78	43.07
AGT Food	TSX	21.40	23.04
Bunge Ltd.	NY	67.86	69.82

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.58	0.62
Cervus Equip.	TSX	15.30	15.10
Input Capital	TSXV	1.65	1.61
Rocky Mtn D'ship	TSX	11.65	11.45

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	33.91	33.69
Hormel Foods	NY	31.32	30.38
Lamb Weston	NY	52.12	50.82
Maple Leaf	TSX	33.60	33.17
Premium Brands	TSX	105.20	104.79
Tyson Foods	NY	72.80	71.04

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	51.64	51.38
AGCO Corp.	NY	69.00	72.80
Buhler Ind.	TSX	4.50	4.45
Caterpillar Inc.	NY	136.63	137.81
CNH Industrial	NY	13.02	12.08
Deere and Co.	NY	135.03	133.25

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	137.98	137.61
BASF	OTC	28.21	27.32
Bayer Ag	OTC	33.74	32.40
DowDuPont Inc	NY	71.16	72.54
BioSynt Inc.	TSXV	10.12	10.74
Monsanto	NY	119.87	121.52
Mosaic	NY	22.38	20.94
PotashCorp	TSX	24.64	24.52
Syngenta	ADR	92.26	92.11

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	102.44	104.22
CPR	TSX	220.66	223.51

List courtesy of Ian Morrison, financial adviser with the Calgary office of Raymond James Ltd., member of the Canadian Investor Protection Fund. The listed equity prices included were obtained from Thomson Reuters. The data listed in this list has been obtained from sources believed to be reliable, but accuracy cannot be guaranteed. Within the last 12 months, Raymond James Ltd. has undertaken an underwriting liability or has provided advice for a fee with respect to the securities of AGT Food. For more information, Morrison can be reached at 403-221-0396 or 1-877-264-0333.

Saputo buys U.S. cheese maker

Saputo Inc. is buying Betin Inc., which makes the Montchevre brand of goat cheese in the United States.

Betin has one plant at Belmont, Wisconsin, that employs 319 people.

For the 12 months to June 30, Montchevre generated revenues of C\$150 million. The value of the transaction was not released.

Saputo also announced quarterly earnings of \$185.2 million to Sept 30, which is down \$6.6 million, or 3.4 percent. Revenue was \$2.884 billion, up about \$39 million, or 1.4 percent.

ACQUISITION

CHS Canada gets out of farm supply business

SASKATOON NEWSROOM

CHS Canada has sold its 10 retail crop input locations in Western Canada to Richardson International Ltd. and is also ending the Bridgeland joint venture with United Farmers of Alberta.

The transaction with Richardson is expected to close in November. The value of the deal was not released. The deals mark the exit of CHS, an American farmer-owned co-operative, as an owner of branded retail outlets in Western Canada.

Richardson will acquire nine crop inputs locations in Alberta — Alix, Beiseker, Bow Island, Carseland, Craddock, Lacombe,

Rolling Hills, Standard and Vauxhall — and one in Edenwold, Sask. CHS had bought some of the outlets from Agrium in 2014 and some from DynAgra Corp. in 2012.

All 10 locations are full-service crop input retailers, providing producers with chemical, fertilizer and seed services.

CHS is also selling its part of Bridgeland Ltd. Partnership to its partner in the joint venture United Farmers of Alberta.

UFA will fully own and operate the Bridgeland assets at LaCrete, Sexsmith, Baytree, Fairview, Falher, Eaglesham and Grande Prairie, all of which will be rebranded under the UFA banner.

CLARIFICATION REQUIRED

Interpreting tax changes

MONEY IN YOUR POCKET



GRANT DIAMOND

The government's proposed changes to the taxation of small business has heated up considerably.

Opposition by those small businesses most affected, including farmers, has forced the government into sober second thought.

Part of the opposition has been stimulated by a belief that the government was making unfair reversals of past tax policies designed to recognize the risks taken by small businesses in contributing to employment and additional tax streams to government.

Interpretation of the words the government is using throughout the proposed tax changes will become paramount to how the changes are deployed.

Income sprinkling and the taxation of passive investments are two examples.

Income sprinkling is really income splitting, which is allowed under the Tax Act in certain circumstances.

Another vague guideline relates to (directly or indirectly) salary, wages, remuneration and dividend payments, which must be distributed to children only if it is reasonable in the circumstances.

The government suggests the term "reasonable" is when children are either "actively engaged" or "involved" in the business, without defining what the terms mean. This leaves the interpretation to Canada Revenue Agency.

As to passive income, in some cases it is estimated that a recipient will pay a combined 73 percent tax after it flows from the tax paid at the corporate level to the personal tax on the dividends. This has not been clarified because no rates have been announced yet.

Placing passive income in a slightly different light, when do working capital or cash reserves become "excess"?

Farmers see good years and bad. To ensure the ongoing security of the farm, annual operating profits are accumulated in good times in anticipation of poor ones.

Who has the right to determine when working capital or cash flow becomes excess? Unfortunately, it will probably fall to the courts, at considerable cost and time to the farmer.

Working capital and/or cash reserves, while technically determined on a case by case basis, are generally limited to one operating cycle. Farmers have a longer view than one operating cycle, which means incidental income earned from working capital or cash reserves should not be subject to the holding of passive investment income under the new proposals.

When it comes to capital projects, farmers who have documented and planned capital projects that require more working capital or cash reserves beyond their annual operating cost should not be unduly taxed under this new proposed legislation.

This suggests, at the very least, that government isn't sympathetic to the business needs of this tax-paying community or just doesn't understand the nature of the business.

The government announced Oct. 18 it would allow a \$50,000 threshold on passive income. That would imply \$1 million in savings or cash reserves, based on a five percent rate of return.

This might be sufficient for some but not all.

Also fuelling opposition is the government's characterization that changes were necessary because taxpayers were abusing the system. With this flawed argument, the government is risking the trust of Canadians by blaming them for insufficient funding of government spending programs.

Grant Diamond is a tax analyst in Saskatoon, SK., with FBC, a company that specializes in farm tax. Contact: fbc@fbc.ca or 800-265-1002.

FINANCIAL RESULTS

Canadian National Railway costs up, profit down

BY BRIAN CROSS
SASKATOON NEWSROOM

Canadian National Railway released third quarter financial results last week, reporting net income of \$958 million on revenue of \$3.22 billion.

Net income was down from last year's \$972 million.

CN president Luc Jobin said

demand for CN services is growing, especially in key business segments such as fracksand, intermodal, coal and Canadian grain.

Third quarter operating expenses rose 10 percent to \$1.76 billion.

Jobin said CN is on track to exceed 2016 profit numbers despite rising costs.

"We are reaffirming our 2017 adjusted diluted earnings per share

(EPS) outlook of \$4.95 to \$5.10, compared to last year's adjusted diluted EPS of \$4.59," he said.

To meet growing demand for rail services, CN said it would spend an additional \$100 million this year on infrastructure and equipment, boosting total annual spending on that sector to \$2.7 billion.

CN also plans to boost its workforce in Western Canada.

NEW BRANDING

Seed Hawk's new name reflects Vaderstad integration

SASKATOON NEWSROOM

Seed Hawk Inc. is being rechristened Vaderstad Industries Inc., reflecting the fuller integration of the Seed Hawk brand within the Vaderstad Group.

Seed Hawk and Vaderstad have worked together since 2006, and

in 2013 the Swedish agricultural equipment manufacturer bought full ownership of Seed Hawk and invested in a major expansion of the plant in Langbank, Sask.

Earlier this year the paint on Seed Hawk seeding systems switched to the red on Vaderstad equipment.

"The joining of our businesses

will positively impact the advancement and availability of our equipment for farmers in North America and around the world," Nigel Jones, Vaderstad's chief executive officer said in a news release.

The Seed Hawk seeder will continue to carry that name and the marketing network will remain.

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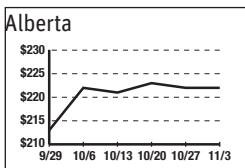
Certified Seed
YOU'RE PLANTING SUCCESS

91
Progress Through Research

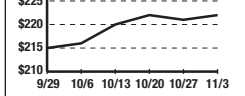
Developed by Crop Development Centre, University of Saskatchewan.
Genes that fit your farm® is a registered trademark of SeCan.

CATTLE & SHEEP

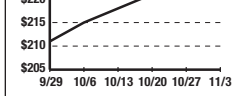
Steers 600-700 lb. (average \$/cwt)



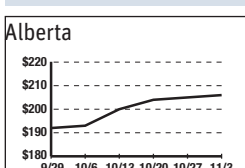
Saskatchewan



Manitoba



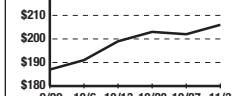
Heifers 500-600 lb. (average \$/cwt)



Saskatchewan



Manitoba



Canadian Beef Production

million lb.	YTD	% change
Fed	1,702.9	+1
Non-fed	271.6	+14
Total beef	1,974.5	+3

Canfax

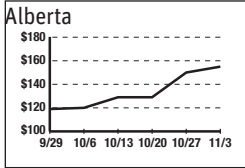
EXCHANGE RATE

NOV. 6
\$1 Cdn. = \$0.7834 U.S.
\$1 U.S. = \$1.2765 Cdn.

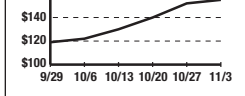
HOGS

Due to wide reporting and collection methods, it is misleading to compare hog prices between provinces.

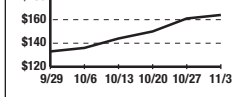
Index 100 Hog Price Trends (\$/c/kg)



Saskatchewan Sig. 5



Manitoba



ELEVATOR SHIPMENTS

Slaughter Cattle (\$/cwt)

Grade A	Live	Previous	Year ago	Rail	Previous
	Oct 27-Nov 2	Oct 20-Oct 26		Oct 27-Nov 2	Oct 20-Oct 26
Steers					
Alta.	n/a	n/a	138.43	244.00-248.50	233.50-235.75
Ont.	124.42-141.85	127.17-139.42	123.79	225.00-235.00	223.00-228.00
Heifers					
Alta.	148.00-148.25	143.25	138.19	246.50-248.50	233.50
Ont.	125.88-137.38	119.75-136.42	124.33	224.00-234.00	220.00-227.00

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.	Man.	Alta.	B.C.
Steers				
900-1000	182-195	177-193	191-203	174-194
800-900	195-209	193-210	198-212	180-206
700-800	207-218	207-223	207-220	200-221
600-700	216-230	210-232	215-231	206-221
500-600	223-244	224-245	224-246	215-241
400-500	243-273	240-272	243-271	235-265
Heifers				
800-900	176-186	181-195	180-194	178-191
700-800	184-199	182-197	185-199	184-196
600-700	191-204	190-209	191-205	188-200
500-600	197-217	194-216	198-218	190-205
400-500	202-231	207-232	206-234	202-227
300-400	223-250	218-244	223-248	216-237

Canfax

Average Carcass Weight

	Oct 28/17	Oct 29/16	YTD 17	YTD 16
Canfax				
Steers	924	923	890	918
Heifers	852	839	818	841
Cows	690	709	738	760
Bulls	977	1,003	1,036	1,016

U.S. Cash cattle (\$/cwt)

	Steers	Heifers
National	124.97	124.42
Kansas	124.91	124.77
Nebraska	125.00	123.00
Nebraska (dressed)	192.00	n/a

Feeders No. 1 (800-900 lb)

	Steers	Trend
South Dakota	153.50-167.50	+5/+10
Billings	156.00-158.50	n/a
Dodge City	143.00-155.00	n/a

USDA

Cattle / Beef Trade

	Exports	% from 2016
Sltr. cattle to U.S. (head)	420,583 (1)	-8.2
Feeder C&C to U.S. (head)	106,136 (1)	-36.1
Total beef to U.S. (tonnes)	182,929 (3)	+3.2
Total beef, all nations (tonnes)	248,387 (3)	+7.9

	Imports	% from 2016
Sltr. cattle from U.S. (head)	n/a (2)	n/a
Feeder C&C from U.S. (head)	31,582 (2)	+166.9
Total beef from U.S. (tonnes)	101,003 (4)	+1.9
Total beef, all nations (tonnes)	144,506 (4)	-8.1

(1) to Oct 21/17 (2) to Aug 31/17 (3) to Aug 31/17 (4) to Oct 28/17
Agriculture Canada

Exports % from 2016

	Exports	% from 2016
Sltr. hogs to/fm U.S. (head)	692,255 (1)	-12.0
Total pork to/fm U.S. (tonnes)	253,218 (2)	-4.0
Total pork, all nations (tonnes)	856,172 (2)	+5.5

Imports % from 2016

	Imports	% from 2016
n/a	n/a	n/a
152,042 (3)	152,042 (3)	+6.1
169,674 (3)	169,674 (3)	+3.7

(1) to Oct 21/17 (2) to Aug 31/17 (3) to Oct 28/17
Agriculture Canada

Chicago Hogs Lean (\$/cwt)

	Close	Close	Trend	Year ago	Close	Close	Trend	Year ago
	Nov 3	Oct 27			Nov 3	Oct 27		
Dec	65.10	64.45	+0.65	46.15	Jun	83.08	81.33	+1.75
Feb	71.98	70.25	+1.73	52.98	Jul	82.88	81.23	+1.65
Apr	75.45	74.25	+1.20	60.40	Aug	81.30	79.95	+1.35
May	80.13	78.18	+1.95	68.35	Oct	69.38	67.95	+1.43

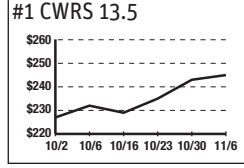
Chicago Hogs Lean (\$/cwt)

	Close	Close	Trend	Year ago	Close	Close	Trend	Year ago
	Nov 3	Oct 27			Nov 3	Oct 27		
Dec	65.10	64.45	+0.65	46.15	Jun	83.08	81.33	+1.75
Feb	71.98	70.25	+1.73	52.98	Jul	82.88	81.23	+1.65
Apr	75.45	74.25	+1.20	60.40	Aug	81.30	79.95	+1.35
May	80.13	78.18	+1.95	68.35	Oct	69.38	67.95	+1.43

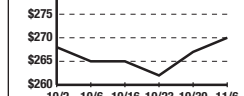
(000 tonnes)	Oct 29	Oct 22	YTD	Year Ago
Alta.	258.9	251.9	3,402.0	3,509.0
Sask.	494.5	375.9	5,456.0	5,607.1
Man.	207.7	223.2	2,764.3	2,206.7

GRAINS

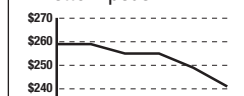
Cash Price for SE Sask PDQinfo.ca



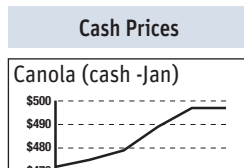
#1 Durum 13.0



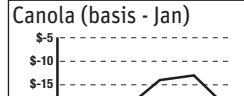
#2 Yellow peas



Cash Prices



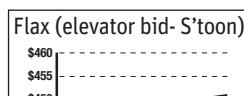
Canola (basis - Jan)



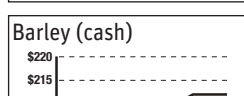
Feed Wheat (Lethbridge)



Flax (elevator bid- S'toon)



Barley (cash)

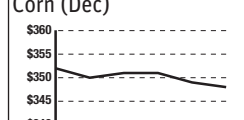


Chicago Nearby Futures (\$/100 bu.)

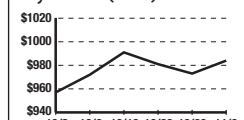
	Canada	U.S.
To date 2017	17,073,095	98,711,235
To date 2016	16,805,888	95,597,062
% change	+1.6	+3.3

17/16 Agriculture Canada

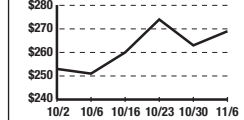
Corn (Dec)



Soybeans (Nov)



Oats (Dec)



Minneapolis Nearby Futures (\$/100bu.)



Spring Wheat (Dec)



Pulse and Special Crops

Source: STAT Publishing, which solicits bids from AGT Inc., Canpulse Foods, CGF Brokerage, Maviga NA, Parrish and Heimbecker, Scoular Canada and Simpson Seeds. Prices for dressed product at plant.

	Nov 3	Oct 27	Sept 29
Laird lentils, No. 1 (c/lb)	37.69	37.69	40.38
Laird lentils, No. 2 (c/lb)	32.88	32.88	37.00
Laird lentils, Xtra 3 (c/lb)	24.80	24.00	26.50
Richlea lentils, No. 1 (c/lb)	30.40	30.40	35.17
Eston lentils, No. 1 (c/lb)	31.14	31.14	34.00
Eston lentils, No. 2 (c/lb)	28.17	28.33	30.67
Eston lentils, Xtra 3 (c/lb)	22.73	22.73	26.68
Sm. Red lentils, No. 2 (c/lb)	19.28	19.28	21.16
Sm. Red lentils, Xtra 3 (c/lb)	17.08	17.08	17.67
Peas, green No. 1 (\$/bu)	8.10	8.10	8.20
Peas, medium, yellow No. 1 (\$/bu)	7.70	7.70	7.20
Peas, sm. yellow No. 2 (\$/bu)	6.98	6.98	6.85
Feed peas (\$/bu)	6.82	6.82	6.12
Maple peas (\$/bu)	15.25	15.25	13.20
Mustard, yellow, No. 1 (c/lb)	40.00	39.00	37.50
Mustard, Oriental, No. 1 (c/lb)	32.60	32.60	33.50
Mustard, Brown, No. 1 (c/lb)	39.33	39.33	39.33
Canaryseed (c/lb)	20.13	20.13	21.38
Desi chickpeas (c/lb)	29.67	29.67	35.67
Kabuli, 8mm, No. 1 (c/lb)	61.58	61.58	63.58
Kabuli, 7mm, No. 1 (c/lb)	41.58	40.58	41.58
B-90 cpeas, No. 1 (c/lb)	48.00	47.25	48.50

Cash Prices

	Nov 1	Oct 25	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	169.52	164.25	167.35
Snlflwr NuSun Enderlin ND (c/lb)	17.20	17.15	15.10

U.S. Grain Cash Prices (\$/bu.)

USDA	Nov 3
No. 1 DNS (14%) Montana elevator	5.90
No. 1 DNS (13%) Montana elevator	5.46
No. 1 Durum (13%) Montana elevator	6.10
No. 1 Malt barley Montana elevator	3.66
No. 2 Feed barley Montana elevator	2.52

Grain Futures

	Nov 6	Oct 30	Trend	Year ago
Wpg ICE Canola (\$/tonne)				
Nov	516.40	506.90	+9.50	497.30
Jan	518.90	516.90	+2.00	504.30
Mar	525.30	522.70	+2.60	509.80
May	529.40	525.60	+3.80	512.50

	Chicago Wheat (\$/bu.)	Trend	Year ago	
Dec	4.3075	4.2475	+0.0600	4.1000
Mar	4.4825	4.4300	+0.0525	4.2775
May	4.6075	4.5650	+0.0425	4.4350
Jul	4.7425	4.7075	+0.0350	4.5725

	Chicago Oats (\$/bu.)	Trend	Year ago	
Dec	2.6900	2.6325	+0.0575	2.2800
Mar	2.7225	2.6800	+0.0425	2.2625
May	2.7575	2.7225	+0.0350	2.2675

	Chicago Soybeans (\$/bu.)	Trend
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SUNSET SNACK | A small herd of mule deer found something to eat late last month in an alfalfa field near Marquis Sask. | MICKEY WATKINS PHOTO



THE WESTERN PRODUCER

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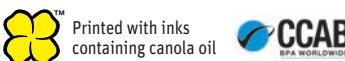
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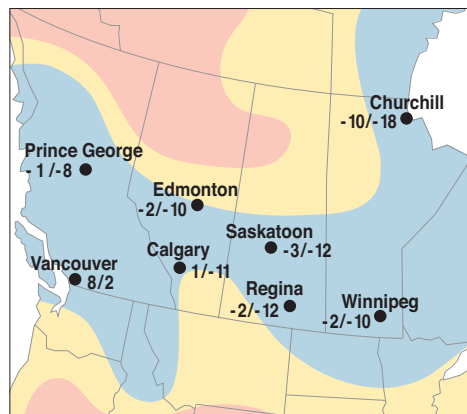
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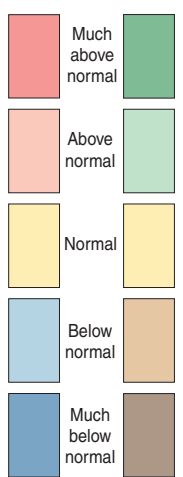
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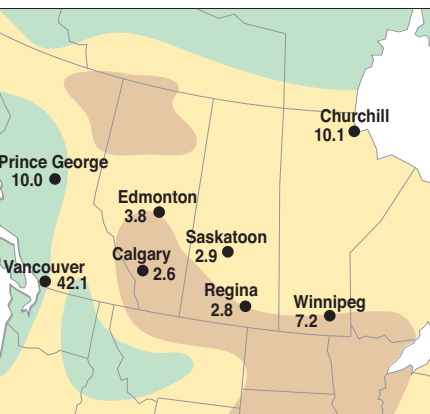
TEMPERATURE FORECAST
 Nov. 9 - 16 (in °C)



TEMP. MAP



PRECIPITATION FORECAST
 Nov. 9 - 16 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

LAST WEEK'S WEATHER SUMMARY ENDING NOV. 5

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	2.7	-20.7	8.1	7.7	481
Broadview	2.5	-16.9	9.5	9.5	238
Eastend	2.2	-18.1	8.5	8.5	370
Estevan	4.2	-17.6	6.4	6.1	145
Kindersley	2.8	-20.5	10.2	6.8	296
Maple Creek	6.5	-17.8	9.2	8.3	346
Meadow Lake	1.4	-18.5	3.9	3.0	71
Melfort	-1.0	-16.2	3.4	3.4	87
Nipawin	-1.1	-18.0	4.6	4.6	104
North Battleford	0.0	-20.8	6.3	5.8	142
Prince Albert	-0.7	-17.8	4.3	3.8	93
Regina	3.0	-19.6	8.6	8.4	350
Rockglen	1.7	-15.0	10.5	9.9	550
Saskatoon	1.2	-23.6	6.1	5.4	180
Swift Current	0.9	-17.3	8.9	8.9	445
Val Marie	2.4	-20.5	6.7	6.7	258
Wynyard	-0.3	-17.3	9.0	8.6	269
Yorkton	0.0	-14.8	10.8	10.8	360

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	6.6	-20.4	16.7	13.5	614
Calgary	7.7	-20.4	10.0	7.2	379
Cold Lake	2.7	-16.0	13.7	7.3	209
Coronation	4.2	-22.4	14.7	9.0	600
Edmonton	7.3	-26.8	13.0	4.9	182
Grande Prairie	9.1	-21.3	6.9	3.9	89
High Level	3.4	-26.0	2.7	0.0	0
Lethbridge	11.1	-19.1	6.3	5.2	186
Lloydminster	2.4	-18.6	6.9	2.4	77
Medicine Hat	7.5	-19.8	15.9	12.7	508
Milk River	12.1	-16.9	11.4	9.3	321
Peace River	7.2	-22.0	3.0	2.3	64
Pincher Creek	8.8	-22.5	19.9	19.6	356
Red Deer	5.2	-17.2	16.0	8.1	338
Stavely	11.6	-18.9	13.4	11.8	393
Vegreville	5.2	-23.4	11.5	5.3	230

All data provided by Agriculture and Agri-Food Canada's National Agroclimate Information Service: www.agr.gc.ca/drought. Data has undergone only preliminary quality checking. Maps provided by WeatherTec Services Inc.: www.weathertec.mb.ca

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brandon	-0.6	-14.6	14.2	13.9	421
Dauphin	-1.0	-11.7	5.1	4.8	155
Gimli	1.3	-18.4	6.8	6.6	161
Melita	2.6	-14.2	9.0	9.0	204
Morden	0.9	-11.5	11.5	10.6	230
Portage La Prairie	0.4	-10.7	8.8	7.5	167
Swan River	-2.0	-12.1	8.3	8.3	198
Winnipeg	1.4	-12.5	6.0	5.8	161

BRITISH COLUMBIA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	6.6	-13.4	27.4	27.4	370
Fort St. John	8.7	-20.6	11.9	7.7	143
Kamloops	10.1	-14.1	8.0	7.6	155
Kelowna	12.0	-11.6	2.8	2.8	44
Prince George	11.9	-15.8	3.7	0.5	4



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