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Water review alarms ranchers

Alberta gov't reviews Water Act applications in South Saskatchewan River watershed

BY BARB GLEN
LETHBRIDGE BUREAU

Sixteen years is a long time in which to resolve a licence application, even by government standards.

But it was the government, specifically Alberta Environment and Parks, that told southern Alberta rancher Aaron Brower in late December that water licence applications filed by Brower Ranching Co. Ltd. in 2001 were now being reviewed and at risk of cancellation.

He isn't the only one to receive such a notice.

The department is reviewing more than 1,000 Water Act applications in the South Saskatchewan River region, according to government spokesperson Matt Dykstra.

Brower, a fourth generation cattle rancher, was taken aback by a government letter that indicated the need for further information about several of the numerous wells and dams on his property, which he uses for the household and for livestock.

The letter said requests for information had been made but no response received so the files would be closed. Further diversion of water would be in contravention of the Water Act, the letter stated.

All of that was news to Brower, who said he never received requests for more information about his water use.

SEE WATER RIGHTS, PAGE 4 >>

COME ON, BABY, LET'S MOVE



Jaycee Hawk, right, of Hawk Ranching loads a newborn calf for transport while her mother, Pauline, watches the calf's mother on Feb. 13. They expect 440 new calves on their ranch west of Parkland, Alta. | MIKE STURK PHOTO

Plant protein supercluster wins the day

Proposal gets \$150 million to research protein potential

BY BRIAN CROSS
SASKATOON NEWSROOM

A western Canadian group that hopes to expand opportunities in the plant protein industry will receive \$150 million in federal funding under Ottawa's Innovation Superclusters Program.

Protein Industries Canada (PIC) is an industry-led alliance that consists of more than 120 private-sector companies, academic institutions, and industry stakeholders across the West.

PIC was one of five groups to submit a successful application under the federal superclusters program, which will distribute as much as \$950 million over the next five years.

PIC will explore opportunities aimed at unlocking the economic potential of plant-based proteins found in common agricultural crops such as canola, pulses, grains, hemp and flax.

"This is a great day for Protein Industries Canada and a great day for Western Canada and the Canadian food industry," said PIC chair Frank Hart.

SEE SUPERCLUSTER FUNDING, PAGE 5 >>



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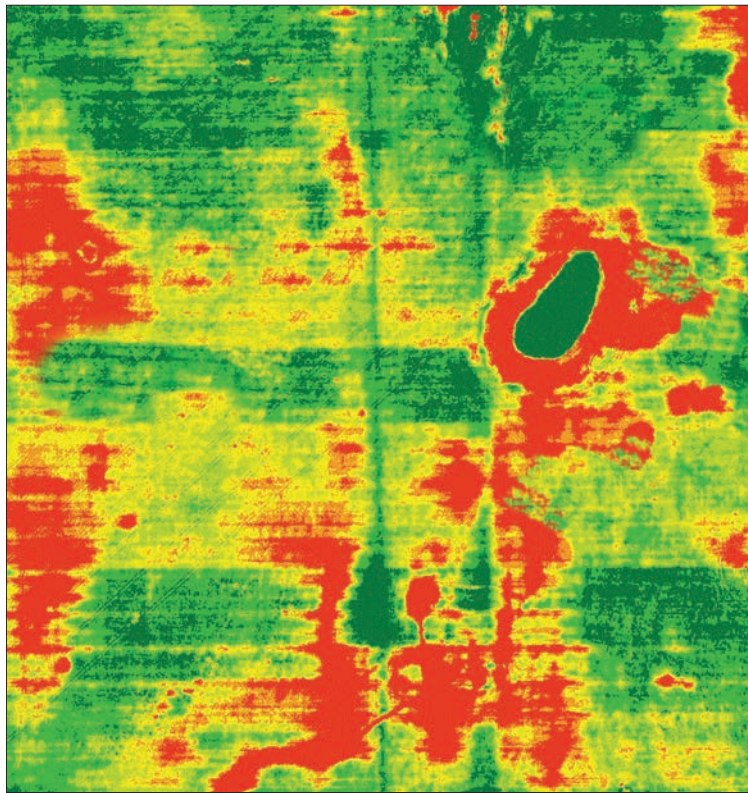
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Profitability maps: Big data equals bigger profits. Profitability maps are a simple way to do this. See page 60. | FILE PHOTO

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CONTACTS

- Subscriptions & Marketing**
Ph: 800-667-6929
- Advertising**
Ph: 800-667-7770
- Newsroom inquiries:** 306-665-3544
Newsroom fax: 306-934-2401
- Shaun Jessome, Publisher**
Ph: 306-665-9625
shaun.jessome@producer.com
- Brian MacLeod, Editor**
Ph: 306-665-3537
brian.macleod@producer.com
- Michael Raine, Managing Editor**
Ph: 306-665-3592
michael.raine@producer.com
- Bruce Dyck, News Editor**
Ph: 306-665-3507
newsroom@producer.com

Gov't launches new farm programs

Canadian Agricultural Partnership opens for business as governments seek ag initiatives

BY MICHAEL RAINE
SASKATOON NEWSROOM

Six federal programs designed to get new agriculture and food projects up and running and support the existing industry launched Feb. 13.

Federal Agriculture Minister Lawrence MacAulay chose Canada's national agriculture day to set the \$3 billion ball rolling down a five-year lane.

Included in MacAulay's Canadian Agricultural Partnership announcement were \$2 billion in federal and provincial cost-shared programs and \$1 billion in purely federal initiatives.

Agriculture Canada has broken the investment into six programs: marketing, scientific development and discovery, innovation of processes and products, diversifica-

tion of the participants, assurance of quality and buyer confidence and competitive advantages.

"Our government has identified agriculture and food as a key driver for our society," MacAulay told an Ottawa news conference.

The government refers to the new programming as a partnership "with a shared vision for our sector."

Ontario has signed on to the deal, and negotiations are ongoing with the rest of the provinces and territories.

Because the new programs also replace existing agricultural development systems, the government expects to sew up the arrangements by April 1.

"We didn't want any lapses in programming in Canada, so we will be ready to go by April 1," MacAulay said.

The new initiatives are open for

business now and accepting applications from farmers and industry looking to enter into partnership with the government to enhance the agriculture and food industries.

In its last budget, the federal government targeted \$75 billion in agriculture and food exports by 2025. Canada currently exports about \$56 billion, and seafood is about \$6.6 more.

MacAulay suggested that meeting the goal would require a lot of "new projects and thinking from the industry."

The new funding includes \$74 million for AgriAssurance, \$5 million for AgriDiversity, \$20.5 million for AgriCompetitiveness, \$338 million for AgriScience, \$128 million for AgriInnovate and \$121 million for AgriMarketing

The federal and provincial pro-

grams will include a \$297 million initiative to expand trade, a \$690 million innovation and sustainability program and a diversity project that has budgeted \$166.5 million to enhance the diversity of representation in the sector and create regional programs that increase public trust in the industry.

The five years of programming will target \$686.6 million toward federal programs, \$467 million for activities within the sector, \$950 million for innovation and scientific research and infrastructure development and a further \$1.2 billion from the government's Strategic Innovation Fund.

"Look online and see if these programs fit your business or organization," MacAulay said.

mike.raine@producer.com

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REALLY? YOU DON'T SAY



Casera, a pinto donkey, is all ears to her buddy, Peso, as the two exchange expressions on Burro Alley Ranch near Millarville, Alta. | WENDY DUDLEY PHOTO

Feds unveil clean fuel standards

BY SEAN PRATT
SASKATOON NEWSROOM

Jim Grey let out a huge sigh of relief when he saw the federal government's plan for its looming clean fuel standard.

"It could have been a lot worse," said the chair of Renewable Industries Canada, which represents ethanol and biodiesel manufacturers.

Environment Canada published the regulatory framework for the standard on its website Dec. 13 and in the *Canada Gazette*, Part 1, Dec. 23.

Grey was relieved that the framework kept the five percent national ethanol mandate and two percent biodiesel mandate intact until the next review in 2030.

"Given the opposition that we were facing from fuel producers, we're relatively positive with the outcome," he said.

Powerful organizations such as the Canadian Fuels Association were strongly against keeping the biofuel mandates in place.

"The CFS will likely increase the demand for both ethanol and biodiesel," association president Peter Boag said in an Oct. 18, 2017, commentary preceding publication of the framework.

"But it should be an option rather than a mandated requirement."

Renewable Industries Canada was pushing for a doubling of the mandates as one of the easiest ways to help meet the standard's objective of achieving 30 megatonnes of annual reductions in greenhouse gas emissions by 2030, the equivalent of taking seven million cars off the road.

It wanted a 10 percent ethanol mandate and a five percent biodiesel mandate.

"Would we have liked 10? Yes. Are we happy that they've maintained five? Absolutely," said Grey.

He believes maintaining the existing mandates will lead to new construction of biofuel plants as well as expansions of existing facilities because it is something tangible developers can use when arranging financing.

"If I go to a banker and say, 'there's a clean fuel standard, carbon credit trading and carbon intensity thresholds,' their eyes glaze over," said Grey.

"If I go to a bank and say, 'there's a national mandate that there has to be at least five percent ethanol in the gasoline pool,' they understand that."

One of the other biofuel-related victories in the framework is that the government will not be using the controversial indirect land use change factor when conducting a life cycle analysis of biofuel.

The factor is used in some jurisdictions to penalize biofuel for the destruction of environmentally sensitive land by promoting the expansion of cropland.

Grey was also pleased that the framework will help biofuel companies offset carbon taxes associated with being big users of natural gas by getting credit for reducing greenhouse gases in fuel emissions.

Written comments on the framework are now being accepted.

The objective is to publish draft standards by late 2018.

Expansion promises potato boom

Simplot announces \$460 million plan to expand french fry plant in Manitoba

BY ROBERT ARNASON
WINNIPEG BUREAU

Manitoba potato growers received an ideal Valentine's Day gift this year: strong spud demand for the next 15 years.

On Feb. 14, J.R. Simplot announced an investment of \$460 million to expand its potato processing plant in Portage la Prairie.

The expansion will more than double the capacity of the french fry plant, thus driving up demand for Manitoba potatoes.

"Simplot has been an outstanding corporate and community partner since establishing its operations in Manitoba," said provincial Agriculture Minister Ralph Eichler.

"This investment further cements their reputation as a pillar in Manitoba's agriculture and food processing sector. The plant's increase in capacity also presents a tremendous opportunity for Manitoba farmers to strengthen their partnership with a reliable local processor and increase potato production in Manitoba."

Simplot chose to expand in Manitoba because of a number of factors, including the quality of potatoes produced in the province.

"(There's a) strong grower community, availability of highly skilled employees and distribution routes that continue to expand our footprint," Mark

A PRIVATE COMPANY

J.R. Simplot is a privately held company based in Boise, Idaho, and one of the largest private companies in the U.S. It's evident that Simplot likes to keep its affairs private: the company's website doesn't even mention news of the \$460 million expansion of its Portage la Prairie french fry plant. In fact, from Jan. 1, 2016, until February 2018, the company issued a total of eight news releases, which is about one every three months.

McKellar, Simplot food group president, said in a statement.

"We are convinced Manitoba's business-friendly environment made this the right decision for the J.R. Simplot Company."

There may be another reason why Simplot chose to invest in Manitoba. The company operates two potato-processing plants in Washington state, and there have been reports of the private company building another facility there. However, Simplot may be backing away from those plans.

"There's more to the story as to why they're not going ahead with their original plan, with that one in the Columbia Basin," said Kevin MacIsaac, United Potato Growers of Canada general manager.

"(That) expansion was announced some time ago for the Columbia Basin, and they've now

postponed that.... Instead, Simplot has made this announcement to build a plant in Canada."

MacIsaac said the Simplot investment in Manitoba was a bit of a surprise. He regularly meets with U.S. potato industry representatives and the Portage la Prairie expansion wasn't on the radar.

"I'm in the industry (and) fairly close to a lot of people. I wouldn't have heard anything about this until very, very recently," he said.

Chris Voigt, Washington State Potato Commission executive director, said he hasn't heard that Simplot is cancelling its plans to build a new processing facility in the state.

"It would actually surprise me," he said.

"Washington state is ideally positioned to supply the growing markets in the Pacific Rim."

Regardless of how it happened, Simplot's investment in the Portage la Prairie plant is fantastic news for Canada's potato industry, MacIsaac said.

"We've had some years where the (industry) was pretty stagnant and pretty slow, but lately it's been straight up and ahead," he said.

"There's been a lot of expansions announced that have been going to the Pacific Northwest. This is our turn, again, today."

Last fall Cavendish Farms broke ground on its \$360 million potato processing plant in Lethbridge.

The Manitoba and Alberta investments are huge boosts for Western Canada's potato sector because they could spur strong demand for potatoes over the next 15 to 20 years.

A Manitoba government news release said the expansion would increase the size of the Portage plant from 180,000 to 460,000 sq. feet and require an additional 80 full-time employees.

When the construction is complete, scheduled for the fall of 2019, the plant will also need many more potatoes from Manitoba growers: likely double the current supply.

Companies such as Simplot and Cavendish Farms need to increase their processing capacity because potato plants across North America are running at full tilt.

"With the demand (for) french fries today and frozen product, they can't physically meet that with the current plant capacities, so they have to build more plants."

Much of the demand growth is coming from Asia, but North Americans are also consuming more french fries and frozen potato products.

That growth is likely related to the stronger economy because Americans and Canadians have more money to spend on restaurant meals than they did eight years ago, during the 2008-2010 recession.

robert.arnason@producer.com

sean.pratt@producer.com



Farmers in Alberta's Milk River Basin worry that the government plans to close the basin to new allocations of surface water. | FILE PHOTO

WATER RIGHTS REVIEW ALARMS ALBERTA RANCHERS

» CONTINUED FROM PAGE 1

He met in early January with Jeff Gutsell of Alberta Environment to sort out the matter.

"I'm not asking for a green light on the application by any means," Brower said he told Gutsell at that meeting.

"If there is a problem on this 16-year-old file that you guys have dusted off, we'll address the problem, but you have to tell me what your problem and concerns are. I thought that was pretty fair."

However, he was unable to resolve the matter with Gutsell or with other Alberta Environment officials whom he contacted later.

"This is probably going to get very loud and very ugly because nobody wants to deal with the problem," he said in an interview Feb. 7.

"I'm not going to be quiet about it because there's a lot of other people that could be affected by this. So as a citizen of this province, I'm going to make everything that happens here public."

Brower has filed an appeal with the Alberta Environment Appeals Board, a legal process handled by his lawyer, Keith Wilson.

"The effect of the government's action is to strip the Browsers, and anyone else who's received one of these letters, of their traditional agricultural user rights that many of us and livestock groups fought very hard for," said Wilson.

"And the government's bureaucrats, through their conduct, are defeating those protections that

were put into law."

Wilson said he can only speculate about the reasons for the government's recent actions but suggested they are due to either "gross incompetence" or a plan to close the Milk River basin to new allocations of surface water.

"That would mean that not only would these farmers not be able to apply for lesser rights, they would be able to apply for no rights. And that's troubling as well.

"One of the explanations as to what's happening here is that the bureaucrats and the environmentalists in the department wanted to maximize the amount of water in the basin that they could reallocate to environmental and conservation and other goals.

"And one way to do that would be to cancel all these applications because then all the water that's being used by those ranches and farms would then have to stay in the river. And then if they close the basin at the same time, they've then got a whole bunch of water that they control and farmers can't use.

"And that is deeply troubling, if that is going on. That is deeply, deeply troubling. In fact, it's illegal."

However, Dykstra said in his email that the Milk River basin is not closed to surface water allocations.

"We are still accepting and processing water licence applications for small stock watering and municipal purposes," he said.

"The department is not cancelling traditional agricultural registrations nor water licences in good standing"

This is really unbelievable that the government would be putting such a complex obstacle in front of farmers and ranchers for no good reason and in a manner that reveals (government) incompetence on such an extreme scale.

KEITH WILSON
LAWYER REPRESENTING AARON BROWER

That runs contrary to information in Gutsell's letter to Brower.

"Legislation is in process that will likely close the basin to all surface water sources, leaving true groundwater aquifer sources as potentially the only option," the letter said.

With respect to the Brower's case, Dykstra said the department is helping the ranch file a new and complete application.

In the meantime, temporary authority will allow the ranch to divert water needed for livestock.

Some of Brower's 35 water licences date back to 1910 when the North West Mounted Police used the property and the water. In 2001, after the Alberta government replaced the Water Resources Act with the Water Act, it had farmers and ranchers apply to have their traditional water rights recognized and entrenched in law as permanent rights.

Now the government said it is addressing "a backlog of water licence applications, some of which

are missing critical information."

Dykstra said the department has closed a small number of water allocation applications that had insufficient information that it had tried and failed to obtain.

Brower said the department could not provide him with any proof that it had asked for more information, nor has he been able to determine exactly what the department needs.

"At the end of the day, if they decide that I don't have a licence and I can't use the water and I can't divert the water coming into it to store, I'm out of business. If I don't have water, I don't have anything," he said.

"I don't know what's going on over there, but I can tell you, I don't have a good feeling. I know that much."

Wilson said others who have received the government letters might not be aware that they have 30 days from receipt to respond. Brower's letter did not contain that information.

"This is really unbelievable that the government would be putting such a complex obstacle in front of farmers and ranchers for no good reason and in a manner that reveals (government) incompetence on such an extreme scale," said Wilson.

"It's just bizarre that the government is comfortable with the fact that it's taken their bureaucrats over 16 years — 16 years — to process this application."

The Alberta Grazing Leaseholders Association posted a notice to

inform ranchers about the 30-day appeals period. It also expressed concern about the process and the potential reasons behind it.

"It would appear the underlying agenda is that government is trying to claw back some water allocations on the almost fully allocated Milk River by targeting rural home and agricultural use. This would represent a blatant disregard for the rights of these ranchers," the association said.

Tim Romanow, executive director of the Milk River Watershed Council, said he's heard from a number of ranchers in the region who are concerned about letters they've received regarding water licences.

"This is literally their livelihood," he said.

"These are sources of water that they've used for decades or longer, and it's a pretty difficult situation to be put into, I think."

He said dry conditions last year put a strain on the watershed, and in general it is becoming increasingly difficult to receive approval for water projects, including on-farm dugouts.

barb.glen@producer.com

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Russia will add an extra 30 million tonnes of grain export capacity by 2022, according to the country's agriculture minister. That's the equivalent of Canada's combined annual canola and wheat exports. | REUTERS PHOTO

Russia rattles wheat trade

Country steals grain markets around the world by undercutting competitors

BY SEAN PRATT
SASKATOON NEWSROOM

Russia is poised to become the world's leading wheat exporter for the first time since the tsarist era a century ago.

The U.S. Department of Agriculture forecasts 36 million tonnes of Russian wheat exports in 2017-18. The European Union will take second place with 26 million tonnes.

Russia is stealing grain markets around the world by undercutting competitors on price in what is likely just a taste of what's to come.

Russia's ports exported 42.6 million tonnes of grain in 2017, up 30 percent from the previous year.

By 2022, the country will add an extra 30 million tonnes of grain export capacity, according to Russia's agriculture minister. That is the equivalent of Canada's combined annual canola and wheat exports.

Bruce Burnett, director of markets and weather with Glacier Media's MarketsFarm, said Russia's expanding control of the wheat market is a threat to Eastern Canada's soft wheat but not so much for Western Canada's high protein wheat.

"It's essentially a market tussle between the lower-protein-producing countries," he said.

"We're in a slightly different ballgame."

The European Union faces the biggest threat because the wheat it sells is virtually identical to Russian wheat but more expensive. It is already losing market share around the world.

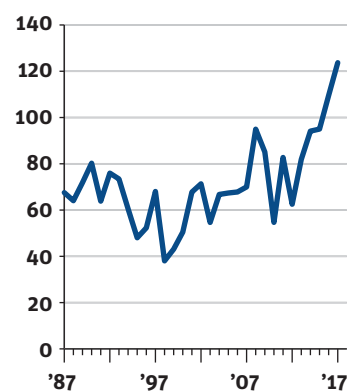
Argentina has recently been ramping up its wheat production just as Russia has been asserting itself on the world scene. The U.S. and Australia are also in jeopardy of losing markets.

The Australian Export Grains Innovation Centre released a report in late 2016 assessing the

RUSSIAN GRAIN PRODUCTION INCREASING

Russia is making improvements to its ports and grain terminals to accommodate a growing supply of wheat and other grains destined for export.

Total Russian grain production (million tonnes):



Source: USDA | WP GRAPHIC

threat posed by Russia.

The report projected a 60 percent increase in Russian grain exports between 2015 and 2030.

Wheat exports are forecast to climb to 32.5 million tonnes from 21.7 million tonnes over that same period. However, Russia is already forecast to surpass that total in 2017-18.

The big threat to Australia and other exporters is that the total cost of producing wheat, delivering it to port and loading the grain onto a ship is \$176 per tonne in Russia compared to \$299 per tonne in Australia.

"This gives Russia, along with its similarly competitive Black Sea neighbours, a powerful competitive advantage against Australia and North America when targeting price-driven markets," stated the report.

Burnett said almost all of the wheat that Russia exports is low protein winter wheat grown in

Russian grain production, by crop type (million tonnes):

	barley	soybeans	canola	wheat	corn
2000	14.08	0.32	0.13	34.46	1.49
2001	19.53	0.32	0.13	46.98	0.81
2002	18.74	0.39	0.10	50.61	1.50
2003	18.00	0.36	0.17	34.07	2.03
2004	17.18	0.51	0.25	45.43	3.37
2005	15.79	0.64	0.28	47.62	3.06
2006	18.16	0.75	0.47	44.93	3.51
2007	15.66	0.60	0.57	49.37	3.80
2008	23.15	0.69	0.68	63.77	6.68
2009	17.88	0.87	0.61	61.77	3.96
2010	8.35	1.13	0.61	41.51	3.08
2011	16.94	1.64	0.96	56.24	6.96
2012	13.95	1.68	0.95	37.72	8.21
2013	15.39	1.52	1.26	52.09	11.64
2014	20.03	2.36	1.32	59.08	11.33
2015	17.08	2.71	1.00	61.04	13.17
2016	17.55	3.13	1.00	72.53	15.31
2017	20.50	3.70	1.50	83.00	15.00

districts near the Black Sea.

It also produces spring wheat but that wheat is consumed domestically and is grown in districts like Siberia and the Urals, which are a long way from port position.

So growers in Western Canada are largely shielded from direct competition with Russian wheat, although it does pull down global wheat prices and that does have an impact on Canadian spring wheat.

Russia exports a lot of wheat in small vessels out of the Port of Rostov-on-Don, which is not a deep-water port.

"What their problem had been was lack of capacity on a deep port basis," said Burnett.

In the Soviet era, Russia used to ship most of its grain through ports located in Ukraine. It didn't have much in the way of deep-water ports of its own.

That is why the Russian government is spending up to \$500 million expanding and deepening

the Port of Novorossiysk on the Black Sea. When the project is complete the port will be capable of handling 10,000 TEU (20-foot equivalent unit) vessels, up from 6,000 TEUs.

"That's what they've expanded is their ability to load larger vessels in a timely manner. That's essentially what they've done to improve their logistics," he said.

To reach its goal of increasing grain export capacity by 30 million tonnes in five years, Russia is doubling capacity of a grain terminal in Novorossiysk, developing the Port of Taman, which is another Black Sea port, and is constructing a new grain terminal in the far east, according to a Reuters story.

Russia is also investing heavily in rail with a goal of adding up to 20,730 kilometres of new rail line by 2030.

sean.pratt@producer.com

SUPERCLUSTER FUNDING

» CONTINUED FROM PAGE 1

"Western Canada produces a lot of protein that's locked in the crops that are grown here... but a lot of that product is shipped... out as raw product.

"This is a really interesting opportunity to develop a lot of value added... by pulling those proteins out... selling them into the food ingredients business and incubating new food companies in Canada."

In a Feb. 15 conference call, Hart said global plant protein markets are growing rapidly, driven by rapid population growth in Asia and around the world.

Consumers are increasingly looking to plants as the main source of protein in their diets, he added.

Ottawa's \$150 million contribution will be augmented by another \$400 million worth of cash, in-kind contributions and venture capital, already committed by PIC members.

All told, the initiative is expected to create 4,700 jobs over the next decade and \$700 million in new commercial activity.

"... I truly believe (this) will be transformative for western Canadian agriculture," said Ray Bouchard, a Manitoba entrepreneur and PIC board member.

"It's going to allow us to help feed a hungry world. It's going to help grow our farm economies and it is going to create jobs and opportunities for people all over Manitoba and across the Prairies."

Although details of the funding agreement have yet to be ironed out, PIC officials said they have already identified several projects that will receive a share of federal funding.

Other projects are expected to be identified in the coming months.

"We'll probably have one or more symposia in Western Canada, with industry and academia, to (identify) the big problems that we're going to solve together," Hart said.

The PIC proposal also includes a \$150 million venture capital fund that will finance "small- to medium-sized enterprises with breakthrough innovations" that are consistent with PIC's mandate.

Funding that flows through the protein supercluster will be directed into four general areas:

- seed genetics and plant breeding
- enhanced farm production using precision agriculture, data and innovative technologies
- value-added processing
- branding and market development

"Each of those four buckets will get an allocation of funds and then there'll be projects within each of those areas," Hart said.

PIC officials said the protein supercluster will be a prairie-wide initiative, with investments in Manitoba, Saskatchewan and Alberta.

"We still have some work to do on where the headquarters are going to be located but it is a pan-prairie initiative," said Bouchard.

"We are going to have offices in all three provinces...."

Hart said all three prairie provinces have research capacity that will help PIC achieve its objectives.

"Some of these (projects) will be collaborating across provincial boundaries," he said.

brian.cross@producer.com

MARKETS



MARKETS EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MIKE.RAINE@PRODUCER.COM | TWITTER: @MIKEJRAINE

Pig disease runs amok, wild

Market door could open for Canada if African swine fever devastates Europe and Asia

BY ED WHITE
WINNIPEG BUREAU

A virus that is “probably the worst disease we have on this planet” for pigs is seeping into central Europe, spreading across Russia’s central Asian expanses and on the threshold of breaking into China.

African Swine Fever (ASF) could devastate some of the world’s most important pig herds and provide Canada’s industry with market opportunities.

“We’re not getting this under control,” said British swine veterinarian John Carr at the Manitoba Swine Seminar Feb. 8.

“This has the potential of seriously affecting the European ability to market their pigs.”

ASF has been spreading in Europe for a decade, since a load of infected African garbage was fed to pigs in Georgia in April 2007.

ASF can live inside meat for two years and is easily contracted if that meat is fed to pigs. It is not a human health concern but kills pigs with horrifying speed.

Countries hit by incidents are usually blocked from exporting pork and pigs, so it is a nightmare for export-based hog industries.

Previously the Netherlands and Spain have suffered cases but have managed to get control of the situation.

The disease spread within Georgia and then into Russia. Once in Russia, it spread in all directions and has grown within the zone of political instability along Russia’s borders. The disease is in Ukraine, Belarus, the Baltic states and Kazakhstan.

Cases have appeared along the sprawling Siberian border all the way out to eastern Mongolia, putting it just north of China, which has almost half the world’s pig herd.

“I have African swine fever within 500 kilometres of (a Chinese farm I manage),” said Carr.

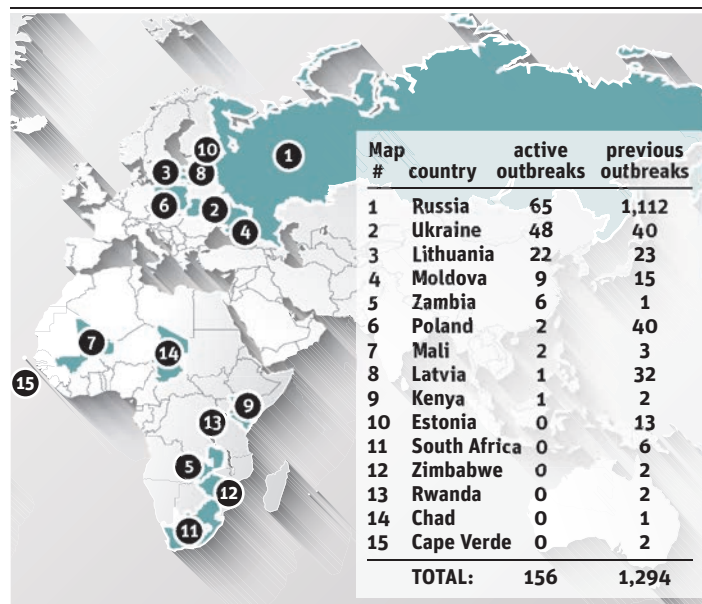
“If ASF moves into China, we have a serious problem.”

Anxiety is growing in central Europe as the disease moves toward Germany’s giant herd. The Poles have been fighting to stop the disease spreading beyond its border region with Belarus, but appear to be failing, with cases



The African swine fever began in the country of Georgia for 10 years and has been spreading in all directions ever since, risking wild herd infection. | REUTERS/KACPER PEMPEL PHOTO

SWINE FEVER OUTBREAKS, 2014-2018



Source: World Animal Health Information Database OIE | MICHELLE HOULDEN GRAPHIC

gradually moving west.

A case has also appeared in the Czech Republic, which signifies that ASF has moved into central Europe.

Carr said the greatest worry is what happens if the disease makes it out of farms and into the

wild pig population. If that happens, little can be done to permanently eradicate it.

Similarly in China, if the disease makes it down to the tropical region, it could end up in ticks, which are the source of its spread-

ing in Africa.

“If it gets into ticks, we’ll never get rid of it.”

The chance of the disease getting to Canada is low, Carr said. It can’t spread by wild pigs wandering, since they would have an ocean to cross.

If it does appear here, it would probably be due to people bringing in meat and allowing pigs to eat it. That could come through sandwiches or “on something like a pizza because the guys that make pizzas are going to use the least quality meat they can, and if the meat is cheap, they’ll put it onto pizza.”

Carr suggested Canadian farmers remind food safety officials to ensure they are restricting travellers trying to bring in food they shouldn’t.

And he encouraged barn operators to keep focusing on biosecurity.

“The nice thing about (porcine epidemic diarrhea virus) might be that it actually improves our biosecurity,” said Carr.

“That might protect us from diseases like African swine fever.”

ed.white@producer.com

U.S. soybean shipments sluggish

Situation expected to worsen if China pursues anti-dumping investigation against U.S.

BY SEAN PRATT
SASKATOON NEWSROOM

Now might be the time to put some soybean sales on the books while the market is temporarily distracted by Argentina’s troubles, says an analyst.

Rich Nelson, chief strategist with Allendale Inc., believes prices will fall when the market shifts from worrying about Argentina’s lingering dryness to focusing back on U.S. supply and demand fundamentals.

Those fundamentals do not look good at all because of a lacklustre 2017-18 export program.

“We’ll have to recognize the severe problems we do have on exports,” he said.

“We’re too far in the marketing year to ignore it any longer.”

U.S. grain companies shipped 1.626 billion bushels of soybeans through Feb. 1, down 12 percent from the previous year.

Part of the problem is the poor quality attributes of this year’s crop. The average protein content is 34.1 percent, tied for the lowest level since 1986.

The U.S. Department of Agriculture lowered its export forecast by 65 million bu. in its January report and then dropped it another 60 million bu. in February.

Nelson believes it needs to fall another 50 million bu. before the end of the year, which means larger carryout and lower prices.

He believes the November 2018 soybean contract will fall to \$8.60 per bu. by the time the summer rally is over and the fall lows set in. That is down from \$10.19 per bu. as of Feb. 13.

And that is without the recent disturbing news out of China.

Bloomberg is reporting that China’s ministry of commerce is considering launching an anti-dumping and anti-subsidy investigation of U.S. soybean imports.

It has already launched a similar

CONTINUED ON NEXT PAGE >>

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No bunch of flax, prices should soon rise

Exports are up, particularly to China and the United States, and carryout is shrinking

BY SEAN PRATT
SASKATOON NEWSROOM

Chuck Penner has been bullish flax for a long time, but the crop isn't co-operating.

"It hasn't listened to me. The flax prices have been just flat, maybe even softer a little bit the last few weeks," said the analyst from Left-Field Commodity Research.

However, he remains optimistic that prices are eventually going to get a lift from tightening supply fundamentals.

He is forecasting a 2017-18 carryout of less than 150,000 tonnes, which is well below Agriculture Canada's estimate of 230,000 tonnes.

Bulk flax exports were 195,000 tonnes through week 28 of the crop year, which is slightly ahead of last year's pace of 189,100 tonnes. That is despite having lower total supplies this year.

Statistics Canada reported flax stocks of 522,000 tonnes as of Dec. 31, 2017, which is 66,000 tonnes smaller than the previous year.

Those are some of the reasons he remains bullish flax.

Marlene Boersch, managing partner of Mercantile Consulting Venture, was deeply concerned about the flax market outlook earlier in the 2017-18 crop year because of sluggish exports, but the situation has turned around nicely.

"We have been catching up over the winter months into China. That's very, very good news," she said during her January presentation at CropSphere in Saskatoon.

It's probably not quite enough to get Canadian flax moving there yet but it's heading in the right direction anyway.

CHUCK PENNER
LEFTFIELD COMMODITY RESEARCH

"I was very, very worried about that."

Canada has lost market share in the European Union to big flax crops in Eastern Europe.

However, that has been offset by strong demand out of the United States, where growers produced 170,000 tonnes of the oilseed, down 23 percent from the previous year. That has created 50,000 tonnes of additional demand from that market.

She is forecasting total Canadian exports of 510,000 tonnes and 2017-18 carryout stocks of 153,000 tonnes, down from 209,000 tonnes the previous year.

"Prices should stay roughly flat," said Boersch.

Penner said Russia has started making inroads in China despite harvesting a crop that is 24 percent smaller than the previous year.

"Just in the last few months they seem to be taking a bigger share of what China is importing," he said.

Penner believes it might have something to do with a trade dispute between Russia and Turkey. Turkey used to buy Russian flax, process it and send the oil to China. Now Russia is bypassing the middleman.



Total Canadian flax exports are expected to be 510,000 tonnes this year. | FILE PHOTO

Greg Kostal, an analyst with Kostal Ag Consulting, estimates 100,000 tonnes of Russian flax will move to China this year.

In an article he wrote for the *FCC Express* newsletter, Kostal said Russia and China signed a phytosanitary protocol in November 2017 that paved the way for greater and faster Russian flax entry to China.

Kostal said the cheaper Russian flax entering the Chinese market-

place could force Canadian flax prices lower.

Penner noted that Russia moving more flax into China means there is less going to Europe, which is reflected in rising European flax prices.

"It's probably not quite enough to get Canadian flax moving there yet but it's heading in the right direction anyway," said Penner.

He disagrees with Boersch on the U.S. market. There is more Cana-

dian flax heading south of the border than last year, but not nearly as much as he was anticipating.

Penner is forecasting an increase in Canadian flax acres in 2018 at the expense of lentils.

Boersch also believes flax acres will be up slightly in 2018 because it pencils in as the third best crop in her margins per acre calculation.

sean.pratt@producer.com

» CONTINUED FROM PREVIOUS PAGE

investigation into U.S. sorghum imports in response to the U.S. putting duties on imported solar panels and washing machines from China. The news caused sorghum prices to drop 25 percent.

Chuck Penner, analyst with Left-Field Commodity Research, is not surprised China is talking retaliation with soybeans. It typically accounts for 60 to 65 percent of the U.S. export program.

"This is the time of year, though, when they typically shut off most of their purchases from the U.S. anyway," he said.

China typically switches around now to buying Brazilian soybeans as harvest progresses in that country. Just last week China cancelled 455,000 tonnes of U.S. soybean shipments.

He believes China is going to wait and see how Argentina's crop turns out before deciding whether to shut the U.S. out completely and rely on South American product.

"If the Argentine crop continues to shrink, they may back off that a little bit," said Penner.

If China does block U.S. imports, it will put further downward pressure on U.S. soybean prices

because while China is in the process of switching to sourcing Brazilian soybeans in a normal year, it would augment those sales with continued buying from the U.S.

"It will cause some ripples in the market if it happens, no doubt about that," he said.

That will in turn drive down Canadian soybean prices, but it could boost Canadian exports to China, which would help tighten up supplies.

He does not believe it will affect canola prices.

"Canola is moving to its own beat, largely," he said.

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Former PM urges Ottawa to take tough stance with NAFTA

HEDGE ROW



ED WHITE

Know what's in your grain contracts and make sure they protect and reward you as much as they protect and reward the buyer.

That was advice from a seasoned sunflower marketer, speaking at CropConnect, to farmers thinking about contracting the crop.

It makes a lot of sense because farmers can end up on the delivery hook with grain companies that can squeeze them ruthlessly unless their contract offers some protection.

That advice was also being given to Canada about the North American Free Trade Agreement by former Prime Minister Brian Mulroney, who agrees with the federal government's policy that no deal is better than a bad deal with the U.S. Any contract that lets the U.S. squeeze Canada at will isn't worth signing.

Mulroney almost let the 1988 Free Trade Agreement fail, he says, when the U.S. appeared to refuse to allow Canada to protect its interests. He's sure the present Liberal federal government has some items it's also committed to, and it has said that is the case.

Like a farmer dealing with a grain company, Canada is a much smaller and weaker entity than the Unit-



BRIAN MULRONEY
FORMER PRIME MINISTER

ed States. That could make somebody argue that the smaller player can't expect to force demands on the bigger player, and that any deal should be taken as better than no deal, especially if the small player is dependant on the bigger player.

It's heartening to see the Justin Trudeau government, fronted by Foreign Affairs Minister Chrystia Freeland, refusing to be panicked by the Donald Trump administration's belligerence and hectoring. It must be an anxious situation for Canada's trade politicians and negotiators to stand up to — and ignore — frequent attacks and insults and belittlements from Trump.

However, so far they seem to be sticking to their guns and refusing to be baited into tit-for-tat rhetoric, something journalist and former Republican White House aide David Frum has praised.

As well, Freeland and Trudeau have said they won't sign on to a bad deal: no deal is better than a deal that enshrines an unfair situation.

So they're playing for time and refusing to be buffaloed.

At CropConnect, I and a handful



Many Canadian trade observers agree that the country must ensure it doesn't sign a bad trade deal with the United States. | FILE PHOTO

of other journalists got to talk with Mulroney after his speech to farmers, and I asked him about what U.S. demands Canada can never accept.

He wouldn't tell the Trudeau government, to whom he is occasionally an adviser, what they can't do, but he told us a story about how he took the 1987 free trade negotiations to the point of failing over a demand he wouldn't drop, despite U.S. insistence.

According to Mulroney, he told the Americans he needed a dispute settlement mechanism that would prevent the dice being loaded

against Canada if a trade fight began. Former President Ronald Reagan's chief of staff, James Baker, told Mulroney he couldn't do it. Mulroney was willing to let the whole thing fail (Reagan's limited ability to approve the deal was expiring in a few hours), and threatened to use his shamrock power to move the president if Baker couldn't deliver the deal.

It got delivered.

It's good to see that the present Liberal government has a similar toughness when approaching the NAFTA renegotiations.

It's like being a farmer dealing

with a grain company: you're supposed to be partners, and if both sides can't protect themselves and prosper, there's no deal to be made.

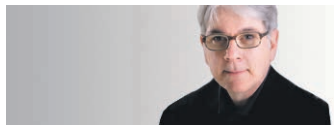
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South American weather will affect U.S. soy, corn seeding plans

MARKET WATCH



D'ARCE McMILLAN

Most analysts expect American farmers will reduce corn acres this spring and increase soybeans. The question is the magnitude of the shift.

The outcome will affect the prices of most crops, including canola and wheat. If soybean acreage turns out even bigger than expected, it could weigh down 2018-19

oilseed prices.

A key determinant to U.S. seeding plans will be the price relationship between the two crops. Traditionally, when the expected harvest-time price of soybeans is about 2.4 times the price of corn or more, American farmers increase plantings of the oilseed and cut corn.

You'll usually see this price relationship described as a ratio of 2.4.

As of mid-February, the ratio of the futures market price for new crop December corn to new crop November soybeans is 2.57. That means there is a strong incentive to plant soybeans.

Last year, American farmers increased their soybean acreage and lowered corn, and for the first time the two major crops were almost tied with corn at 90.17 million acres and soybeans at 90.14

million.

Most believe soybeans this year will top corn for the first time ever. Analytics firm Informa Economics in January forecast 91.2 million acres of soybeans and 89.18 million acres of corn.

Economists with the U.S. Department of Agriculture will make their forecast known late next week at its annual outlook conference. The prospective planting report, based on a farmer survey, will be released March 29.

The market will continue to watch the evolving price relationship between corn and soybeans.

The price of both is supported by dry weather in Argentina. If it remains dry in the next critical four weeks, then already reduced yield estimates could fall more.

The reductions in Argentina's

soybean outlook have been mostly offset by increases in Brazil's crop, but in corn, the South American production outlook is more negative.

Brazil's official forecaster, Conab, expects the country's two corn crops will total only 88 million tonnes, down from 92.34 million tonnes estimated in January and a record crop of 97.8 million last year.

Forecaster Michael Cordonnier has an even lower estimate of 86 million tonnes.

The USDA's current forecast of 95 million tonnes will likely have to be lowered.

Acreage of Brazil's first corn crop, seeded last fall, fell because of the better profitability of soybeans. The second crop, seeded after the current soybean harvest, is expected to be smaller, again because of

the profitability issue and also because rain in many areas is delaying the harvest and therefore pushing corn out of the ideal seeding window.

Could this cause corn futures to rise more than soybean futures and cause the corn-soybean ratio to be less favourable to increased soybean plantings?

Or will corn and soybeans rise in unison, maintaining the ratio leading to a huge U.S. soybean planted area, which would depress oilseed prices in the 2018-19 crop year?

Time and weather will tell, but it will be important to consider these factors as you plan your risk management for the 2018 crop year.

D'Arce McMillan can be contacted by emailing newsroom@producer.com



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CANFAX REPORT

FED PRICES UP SLIGHTLY

Alberta direct cattle sales were seasonally light last week, and average prices firmed \$1 per hundredweight higher than the previous week. A handful of live trade was reported at \$3 per cwt. higher than last week, and dressed sales of \$276 delivered were fully steady.

The cold and shifting weather moderated feeding performance, and market-ready supplies tightened. Some of last week's fed offering was carried over, and soft cattle could easily remain on feed three to four more weeks.

However, reduced chain speed has given packers some breathing room. Eastern Canadian steer carcass weights for the week ending Feb. 10 were 13 pounds heavier than the previous week, averaging 976 lb. In contrast, western Canadian steer carcass weights trended sideways and are 100 lb. lighter than the east, averaging 877 lb.

Western Canadian fed slaughter for the week ending Feb. 10 eased six percent lower than the previous week to 29,000 head. Year to date

western fed slaughter is nine percent larger, totalling 173,667 head. Canadian fed cattle exports to the United States for the week ending Feb. 3 totalled 4,373 and year to date is seven percent smaller at 22,154 head.

In its outlook, Canfax said a positive cash-to-cash basis over the past few weeks has discouraged U.S. buying interest in local Canadian cattle, but fed supplies are manageable on both sides of the border.

The Alberta cash-to-cash basis has steadily weakened from +14 at the start of January to now close to par.

Historically, beef demand strengthens from February to March and is price supportive. Leverage has shifted to favour the cattle feeder, and prices are expected to strengthen.

In the U.S., live prices in the south rallied US\$3-\$4 higher than the previous week to \$129-130. Dressed sales in the north were reported around \$5 higher than the previous week at \$205 delivered. Calf prices trended steady to higher

last week, and feeders traded mostly steady.

COWS ON THE RISE

Prices for D1 and D2 cows were up an average of \$1.31 last week to average \$88.39. Slaughter bulls were lower by \$1.61 to average \$99.89.

Butcher cow prices traded higher through commercial auction facilities, and rail bids appeared to be a couple dollars stronger as well.

Non-fed slaughter volumes have likely peaked for the first half of the year. With volumes seasonally tightening, butcher cow prices may have reached bottom and should trend higher into the spring. The Canadian-U.S. cow price spread has narrowed from the start of the year, going from a \$22 premium to more recently an \$11 premium.

Canadian trim prices are trading two percent higher than last year.

FEEDERS RALLY

From lows in late January, 550 pound steer calves have rallied 5.5 percent and are trading at the highest point since November. In seven out of the past nine years, first quarter highs have surpassed the previous year's fourth quarter high. The price of 550 lb. steers is only \$3 shy of overtaking the 2017 fourth quar-

ter high of \$233.22 posted in October.

Fourth quarter highs are expected to be overtaken in the next couple of weeks because demand for grass should remain strong. Last week the soft spot on the market seemed to be heavyweight heifers. On average, for the first two weeks of February, 900 lb. and heavier heifers traded slightly more than \$14 less than steers, right in line with the three-year average for the month of February.

It is not uncommon to see the steer-heifer price spread narrow from February to March. The price spread from February to March narrows by more than \$2 per cwt. from 2015-17.

On Feb. 15, the U.S. feeder index closed at \$147.70 based at 793 lb. Using an 80-cent Canadian dollar, this would equate to C\$184.62.

Western Canadian feeder prices are sitting at roughly a \$3 premium to the U.S. market because the western Canadian feeder index was reported at \$187.70 at 789 lb.

Barley prices show no sign of weakening, thanks to a colder than normal winter, more cattle on feed compared to last year and export demand for barley from Saudi Arabia and Kazakhstan. Some feedlots say they are having a tough time sourcing enough barley and are feeding more corn and wheat.

For spring delivery, feed barley prices are being reported as high as \$5 per bushel delivered into southern Alberta. Feeder prices are expected to be steady to lower while calves and lightweight stockers are expected to be steady to higher.

BEEF TRADE

Choice and Select cut-out values in the U.S. trended higher with Choice at \$209.04, up from \$208.53 the previous week, and Select at \$205.14, up from \$203.79. Moving into the second half of February, cutouts typically strengthen. Last year, the monthly increase from February to March was 13 percent for Choice and 11 percent for Select.

Canadian cut-out values for the week ending Feb. 3 traded higher with AAA up \$3.29 per cwt. to \$256.89 and AA up \$1 per cwt. to \$250.92. The Canadian cutouts were close to par with the U.S.

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.



Prices for D1 and D2 cows were up an average of \$1.31 last week to average \$88.39. | PAULA LARSON PHOTO

WP LIVESTOCK REPORT

HOGS RISE

The U.S. national live price average for barrows and gilts was US\$51.42 per hundredweight Feb. 16, down from \$54.81 Feb. 9.

U.S. hogs averaged \$64.82 on a carcass basis Feb. 16, down from \$69.72 Feb. 9.

The U.S. pork cutout was \$76.99 per cwt. Feb. 16, up from \$74.44 Feb. 9.

The estimated U.S. weekly slaughter to Feb. 17 was 2.384 million, down from 2.389 million the previous week.

Slaughter was 2.356 million last year at the same time.

In Canada, the Feb. 17 Signature Five price was C\$160.98 per 100 kilograms, down from \$165.93 the previous week.

On a per hundredweight basis, the price was \$73.02, down from \$75.27.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to C\$6 per pound hot hanging weight. U.S. buyers are offering US\$4.75 or more with returns dependent on exchange rates, quality and export costs.

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

Animals outside the desirable buyer specifications may be discounted.

LAMBS

Ontario Stockyards Inc. reported that 687 sheep and lambs and 49 goats sold Feb. 12. New crop lambs sold steady. Heavy lambs sold \$10 cwt higher. Good lean sheep sold steady with heavier types barely steady. Good goats sold at a premium.



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Plant protein supercluster will be game changer for ag

The success of the Protein Industries Canada supercluster in drawing federal funding should not be underestimated. It has the potential to be a game-changer for agriculture in Western Canada.

And it is the first tangible initiative in the federal government's goal to increase Canada's agriculture and agribusiness exports by more than 34 percent to \$75 billion by 2025. That kind of increase would translate into thousands of jobs in Canada and a lot more opportunity for the agriculture industry.

It would have been preferable to also see the other agricultural supercluster under consideration included in federal funding. The Alberta-based Smart-Agri-food Supercluster — which includes Nutrien, Olds College and satellite firm MDA Corp. — focuses on co-ordination to grow and process food in an environmentally suitable manner. It's a worthy effort that deserves support.

Still, with only five out of 50 superclusters approved to receive almost \$1 billion in federal funding, it's a big win for the PIC supercluster, which includes more than 120 private-sector companies, academic institutions and other agencies in Western Canada.

The idea is to improve co-operation among those companies and agencies in a way that will develop the industry, generating new technologies and better practices.

The PIC supercluster will have offices in Manitoba, Saskatchewan and Alberta, and it's likely that any expected growth will be generated across the Prairies.

PIC aims to find ways to extract protein from plants and then market the resulting products globally. It will focus on crop genetics, precision agriculture, new technologies and marketing and exporting.

Farmers can hope to see better yields and more markets for their crops after the fractionation of plant proteins create high-protein products that become more

widely available.

This matches well with the changing nature of food demand and Canada's export goals. Younger generations, which are becoming the dominant consumers of food, are moving toward plant proteins, and developing countries are consuming more meat, which will require more high-protein meal.

Opportunities exist across the industry: oilseeds, cereals and pulses — even hemp and flax. Recent success in fractionating pulses and creating new ingredients has already generated investment and jobs in such companies as Saskatoon-based POS Biosciences, which has clients around the world.

And as PIC supercluster officials pointed out, canola — a huge crop in Western Canada — has good potential for protein development if methods can be developed to extract it from seeds.

PIC officials expect technological advances, new businesses, new products and growth of existing business to generate \$700 million in new commercial activity and 4,700 jobs. Many of those jobs will be in rural areas as new fractionation plants are built near crop centres.

And industry is leading the way. Access to government funds may be in the range of \$150 million, but already some \$400 million of private funding has been committed in cash and venture capital.

All this sounds ambitious, but it is justifiable to be optimistic about the potential of the PIC supercluster. Plant-based protein is a \$13 billion market — which is bound to grow — and Canada has only a small share of it at the moment.

A co-operative effort between industry, academia and government has great potential to grab a bigger part of that market, and Canada has the economic and political climate to make that happen.

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

CRAIG'S VIEW



WATER LICENCE CONTROVERSY IN ALBERTA

At the end of the day, if they decide that I don't have a licence and I can't use the water and I can't divert the water coming into it to store, I'm out of business. If I don't have water, I don't have anything. I don't know what's going on over there, but I can tell you, I don't have a good feeling. I know that much.

AARON BROWER,
ALBERTA RANCHER, PAGE 1

Agriculture has reason to watch pending federal budget

CAPITAL LETTERS



KELSEY JOHNSON

The Liberals' 2018 budget will drop Feb. 27.

In what had become one of Ottawa's worst kept secrets, Finance Minister Bill Morneau's latest fiscal plan comes as the Trudeau government continues to try and change its political narrative.

For one thing, the pending budget certainly gives Morneau a chance to regain Canadians' confidence after a tough year.

While the visible public anger against him appears to have simmered down, it's safe to say Mor-

neau would like to stay out of the political hot seat.

The timing of this year's budget is also interesting.

Politically, it will drop just days before the House of Commons rises for its two-week-long March break, giving the Trudeau government a chance to take its budget on the road.

Budget 2018 also comes in the middle of the seventh round of North American Free Trade Agreement renegotiations in Mexico City, which begin Feb. 25.

Market uncertainty has increasingly become a reality as the NAFTA talks — and questions about the pact's future — drag on.

For now, the Canadian economy continues to plod on, despite rumblings about slowing investment thanks to the continuing uncertainty within North American markets.

It's a reality the Liberal government cannot ignore, particularly if the discussions drag on.

Mid-term budgets are tradition-

ally subject to less fanfare than their pre-election counterparts, which often serve as a party's election platform. As such, few expect the upcoming budget to include grandiose announcements.

That doesn't mean there aren't at least a few files worth watching.

The federal government has yet to respond to the tax changes made south of the border.

While it remains unclear whether those responses will be included in the Feb. 27 document, the Liberal government must ensure that Canadian companies — and their goods — remain competitive.

Ottawa must also continue to respond to growing protectionist sentiments globally — an area of particular concern for Canadian farmers, many of whom depend heavily on trade.

Budget 2017 challenged Canada's agriculture industry to expand its exports to \$75 billion by 2025. Prime Minister Justin Trudeau's

economic advisory council has repeatedly touted the industry as an area where notable economic gains can be made at a somewhat rapid pace.

Agriculture Minister Lawrence MacAulay has said that target remains attainable despite the shifting global trading environment. The Liberal government has also promised to diversify this country's trading markets.

MacAulay recently announced new details about promised federal funding included under the Canadian Agricultural Partnership. The five-year funding framework will take effect April 1 with bilateral agreements expected to be signed in the next few months.

The minister has said the framework will help the sector reach its new export target. MacAulay refused to say whether the upcoming budget will focus on the agriculture sector.

Liberal sources have said the

upcoming budget is expected to focus on science — an area MacAulay has repeatedly championed on behalf of the agriculture industry. The sector, he has said, must be on the "cutting edge" if it is to succeed.

The budget also comes on the heels of Innovation Minister Navdeep Bains' supercluster funding announcement in February. One of the five finalists includes a plant protein supercluster project based in Western Canada.

Closer to home, possible areas of interest include health care, affordable housing and infrastructure spending as communities and municipalities look for more details around how the money will flow.

The Liberals have also said their pending fiscal plan — like their previous fiscal guides — will focus on gender.

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

& OPEN FORUM

Farmers key players on mission

BY GREG POROZNI

The 2017 new crop missions visited Canada's top customers and provided technical data and support as part of Team Canada Wheat.

Who are Canada's top customers? Some of the answers, such as Japan, will be no surprise to anyone, but many would not expect to see one of our newest top customers, Nigeria, on the list.

Nigeria has become a top customer for Canadian wheat and this is the second year we have visited it as part of the new crop missions.

Nigeria has a young population of more than 200 million people with an annual population growth rate of three percent, meaning there will be more demand for wheat imports in the future.

Our commitment to providing technical support and data through new crop missions is essential to maintaining export relationships.

As an emerging country, Nigeria is concerned with food safety and getting consistent quality wheat.

The Canadian team included members from the entire value chain so we were able to work with customers to ensure they could access the Canadian quality they have come to expect while meeting their country's grain safety regulations.

Nigeria is also price sensitive. Purchasing Canadian Western Red Spring wheat, in place of U.S. exports, enables them to minimize costs while still delivering higher quality flour through a blend of Canadian and Black Sea wheat.

In 2007, Canada exported 24,600 tonnes of wheat to Nigeria, which grew to 728,419 tonnes in 2017.



Wheat growers play a crucial role in the industry's overseas trade missions. | FILE PHOTO

Canada's five-year-average for wheat exports to Nigeria is 623,125 tonnes.

Some farmers wonder if there is any value in having a producer along on these support missions. Before I was part of the missions, I was one of those people. But participating has made it clear to me that it is critical to have farmers as part of Team Canada Wheat.

When customers have questions on Canadian production practices, I was in the room to answer. I was there to talk about the sustainability of Canadian farming and to explain why we use crop protection products. I was able to deliver the message about Canadian clean air, clean water and clean land, an increasingly important part of the Canadian brand.

Most of our major competitors

carry out similar missions, but the Canadian approach to customer support is unique. We take the entire value chain with us to talk to customers. When there were questions on supply or logistics, an exporter was there to provide the right information.

The Canadian International Grains Institute and the Canada Grains Council provided unbiased technical information on the grade factors and the technical milling, baking, and noodle making properties.

This collaborative effort demonstrated Canadian commitment to supporting our customers.

The Canadian missions also provide an opportunity to listen directly to our customers' needs and concerns. Bringing these back to Canada is a key objective of the

missions. The feedback allows Canada to adjust its grading and classification systems to give buyers what they want and to focus research goals on the traits and qualities that will get the highest return from the market.

As a farmer who has sat on the boards of the Alberta Wheat Commission and Cereals Canada, I have seen first-hand the value of supporting my customers. I am proud to see that the reach for Canadian wheat is expanding.

Providing technical expertise and information on quality and functionality, the new crop missions facilitate new customer dependence on Canadian wheat.

Greg Porozni is a farmer from Alberta.

Legacy stories popular reads

EDITORIAL NOTEBOOK

BRIAN MACLEOD
EDITOR

It's interesting to see how many *Western Producer* readers are turning to producer.com to find information published years ago.

Many older stories are also among our perennial top-read items. Indeed, the readership numbers for some older stories rival some stories published recently.

By far the most popular legacy story in the *Producer* over the last few years is a column by retired Ontario doctor Clare Rowson. Her July 2008 column headlined, "Low alkaline phosphatase levels can indicate liver disease," has been a top-read item for the last few years. It concerns a 50-year-old male who asks about results in routine testing. It can be found at bit.ly/2nZgkE4.

Another years-old story that remains popular is headlined, "Cattle bloat: early diagnosis, treatment is essential," by columnist Roy Lewis, a veterinarian in Westlock, Alta. Published in October 2011, Lewis identifies causes and treatment for the condition. Find that story at bit.ly/2BZMzf1.

Older stories on cattle treatment are indeed popular on our website, and so goes an Animal Health column headlined, "Antibiotics best treatment for joint infections in calves," by British Columbia veterinarian Jeff Grognet. Published way back in January 2001, it explains the causes, effects and treatment for joint infections. Find that story at bit.ly/2EpyTr8.

Interestingly, a column published in March 2004 by former lawyer Don Purich headlined, "Public access to waterways on private property," picked up a lot of page views both in July 2016 and July 2017, and remains a well-read piece online. You can read it at bit.ly/2BsRi7Y.

This year, two stories in particular are capturing readers' attention.

One is only four months old but it has curiously re-emerged in a big way. "Study finds no firm glyphosate-cancer link," reports on a collaborative study between several health agencies that found that "glyphosate was not statistically significantly associated with cancer at any site." The study was published in the *Journal of the National Cancer Institute*. The story can be found at bit.ly/2GdudVY.

And a story headlined, "Murder suspects in court," about two people charged with first degree murder from November 1994 is also picking up a lot of steam.

The *Western Producer's* online archive has more than 94,000 items. It's worth checking out as an excellent research tool for agriculture.

brian.macleod@producer.com

It's time to reconsider farm income transfer programs

HURSH ON AG



KEVIN HURSH

Did you manage to get away for a winter vacation? We did. In fact, this is being written from sunny Mexico. Unfortunately, we have to go back home to the cold later today.

You meet a lot of Canadians at winter vacation spots, and a lot of them are farmers, particularly grain producers. Back home, you see many people at farm meetings sporting a vacation tan.

I don't feel guilty about having the financial resources to afford a short winter getaway, but I do feel a bit guilty about the government support I receive as a farmer that other Canadians do not.

Even in good times, there are

always some farm businesses struggling, and it's important to have farm safety nets that mitigate the downside risk. However, we also need to recognize that times have changed.

For generations, farmers were relatively poor, earning less on average than their city cousins. Any good times were relatively short lived, and the farm economy seemed to lurch from one financial crisis to the next. Farm safety nets weren't just about reducing risk; they were an intentional form of income transfer.

In the grain sector, economics changed abruptly about 10 years ago. Farm incomes improved dramatically and with escalating land values, net farm worth has soared.

While not every farmer is rich, and high asset values don't always translate into high net income levels, wealth has been generated over the past decade. And yet this hasn't shattered the notion that for some reason farmers need and deserve income transfer programs.

If you have net eligible sales of \$500,000 a year, and it doesn't take

a very big farm to do that anymore, AgriInvest sends you a cheque for \$5,000 each year. Sure, you need to put it in a financial institution along with a matching contribution, but it's still your money to use at any time.

If eligible net sales are \$1 million or more, you get the maximum AgriInvest contribution of \$10,000 a year.

You get this payment whether the farm is struggling or highly profitable. It's meant to help buffer income shortfalls, but you can use the money for a winter vacation. Or you can store it up to outbid your neighbour on the next parcel of land that comes up for sale.

Free money is of course popular, but is it a proper use of taxpayer money?

I would argue that crop insurance is a good program. Some producers don't enrol, believing they are better off to self-insure, but three-quarters or more of cropland is insured every year to guard against production shortfalls.

Governments share the premium cost and pay for all the administra-

tion. For sake of argument, let's assume the cost to the federal and provincial governments runs about \$7 an acre over most of the prairie region.

Unlike AgriInvest, there's no cap on how much crop insurance support a farm can receive. Using the assumption above, a 2,000-acre farm receives about \$14,000 in annual support to lower premiums and pay for administration, while a 10,000 acre farm receives \$70,000 and a 20,000 acre farm receives \$140,000.

Is it time to consider some sort of cap on the support received?

Don't get me wrong. I take all the support offered by business risk management programs, and I believe programs are important. However, we aren't all poor peasants anymore. Government investment in agriculture should be less about income transfer and more about moving the industry forward.

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

OPEN FORUM

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Email letters to newsroom@producer.com

GRAIN AT VANCOUVER

To the Editor,

Has grain performance at Vancouver improved?

There have been many changes in the industry configuration in terms of structure and policy, with the most dramatic being the consolidation of grain companies and facilities, the termination of the CWB in 2012 and recent record tonnages in production and shipments. The question remains as to how the system is performing over time based on comparable annual events.

Vancouver is the best proxy of industry port performance as it has the highest tonnage, with terminals owned and operated by many companies, along with rail service from both railways. The port level is the best measure of performance, as it encompasses all prior delivery activities from farm to terminal. It also is the point of transfer of product to customers' vessels.

Customer service should be the prime objective for the grain industry, something that has deteriorated over the past eight crop-years, beginning in 2009-10 when the customer service level (CSL)

dropped below 98 percent. This occurred three years before the end of the CWB involvement with port pooling and car allocation and the commencement of terminal specific ordering (TSO) in 2012-13 by the grain companies and railway car allocation.

With five TSO operations, now is a good time for comparison to 2004-05 to 2008-09. (The three crop years between these two periods represent a period of transition with its performance measures falling between the two five-year periods.)

VC Terminal shipments have increased 67 percent, influenced by increasing supply and demand, with record production in 2013.

Customer service levels have decreased from 98.1 percent to 95.9 percent (based on vessel fulfilment), while unsatisfied demand increased by 2.2 percent. While railways have increased tonnage a significant amount, service levels have actually decreased, as evidenced by the excessive number of vessels and time in port.

Vessel days in port per 50,000 tonnes have increased 52 percent from 11.0 to 16.7 days, while vessel days loading per 50,000 tonnes have increased 47 percent from 6.1 to 9.0 days. In the first five-year period, there was a 3.3-day benefit due to pooling and good stock levels. On the other hand, in the last five-year period, 2.4 days more than expected were due to order fulfilment deficiencies of inadequate supply (stock levels and under delivery of rail orders). While service time decreased seven percent to 4.7 days, total wait times doubled from 6.1 days to 12 days.

Similarly, vessel tonnage per days in port loading decreased from 8,221 tonnes to 5,600 tonnes. (This compares to 6,900 tonnes reported in the McKinsey Report of 1998 for a three-year period of 1995-96 to 1997-98, then a period of industry concern of poor perfor-

mance. This report also advocated for the return to terminal specific ordering, which existed prior to the 1970s when the railways did the car allocations.)

In comparison to theoretic TSO vessel tonnage per day in port loading, the first period showed a 52 percent benefit of 2,830 tonnes per day, while the last five years was below theoretic by 2,117 tonnes per day or 73 percent of expectation. Again, additional rail tonnage to increase stocks and throughput will improve performance, but TSO results will still be less than experienced with car and stock pooling and multi-terminal assignments of vessels.

Days inventory has decreased from 14.9 to 9.0 days, primarily due to throughput tonnage increase while stock levels have hardly changed. This compares to a decrease from 12.1 to 9.6 days from country car spot to terminal unload. Since replacement time is higher than days inventory in the

last five years, stock levels at port are now inadequate. (Unfortunately, the Canadian Grain Commission has not reported west coast terminal stocks separately by port since 2012-13, so stock estimates have to be pro-rated to total tonnage, which may affect stock-related measures.)

Average vessel size to average terminal stocks has increased from 40 percent to 66 percent, while weekly demand to port stocks has increased from 48 percent to 80 percent. Utilization has also increased from 54 percent to 72 percent. These values show that increasing vessel size along with constant stock levels places more emphasis on having the right product in store and enroute to terminals, and in sufficient quantities.

All of these performance measurements show the need for more precision in order fulfilment to increase stock levels and throughput tonnage to improve customer service to meet theoretic values.

More terminals and terminal capacity are needed and this is now being addressed to somewhat make up for lost benefits of port pooling and the increasing demand. While the railways have restricted their operations and rationed rail capacity to the grain industry for the last eight years as part of asset optimization, cost minimization and in competition with other industries for rail capacity, they are now making attempts to improve customer service. Individual company optimization does not necessarily make for system optimization.

In order to identify areas of system improvement, performance needs to be continually monitored from various perspectives since system changes and tonnage increases have masked underlying inefficiencies.

Bob Niemi (retired farmer and CWB transportation analyst)
Okotoks, Alta.

Sugar beet sector decides on ground rules for next contract

BY BARB GLEN
LETHBRIDGE BUREAU

There's no need for anyone to get beat up — or beet up — in contract negotiations between Alberta sugar beet growers and Lantic, the company that contracts beet acres and processes the crop.

With that acknowledgement, beet growers and Lantic have signed a memorandum of understanding designed to avoid the vitriol spewed during the last set of contract negotiations and in others of the more distant past.

"The last negotiation was fairly acrimonious and we wanted to sit down and make sure we have kind of a blueprint ... of how we're going to conduct ourselves during negotiations and try to prevent the situation we had last time around," said ASBG president Arnie Bergen-Henengouwen.

Negotiations over the 2015 contract put that year's crop in jeopardy and included threats by Lantic to close the Taber sugar factory and threats by growers to plant outside

the contract and circumvent the previous process.

Sugar beet planting typically begins in April but those negotiations extended from February through most of May 2015 before an agreement was reached.

Bergen-Henengouwen said threats are nothing new to the sugar beet contract negotiation process, but both sides want to avoid them in the future.

"By striking that agreement, that memorandum of understanding, we're hoping to avert any of those tactics," he said.

The MOU acknowledges that the two sides won't resort to "empty threats" and that each party has the right to be profitable. Ideally, Bergen-Henengouwen said growers would like to establish a long-term rolling contract.

"That's the ultimate goal of this thing, which will hopefully ... bring more stability to the industry and predictability for growers, processors and all our industry stakeholders."

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Manitoba's hog sector poised for growth

Expansion to be incremental rather than driven by large projects

BY ED WHITE
WINNIPEG BUREAU

Manitoba's hog industry is in the early stages of expansion, but don't expect to see anything dramatic in coming years, says Manitoba Pork Council general manager Andrew Dickson.

That's because expansion will be mostly incremental and add-on, rather than from massive green-field projects.

"It's not dramatic growth but it's significant when you add it up over everybody," said Dickson during the Manitoba Swine Seminar.

Achieving two to three percent annual growth would allow the provincial industry to feed the slaughter plants and return them to efficient levels of production, ensuring their futures.

Manitoba's hog industry survived a brutal period of economic pressure, U.S. government trade actions and provincial government

antagonism from the mid-2000s to the early 2010s. Many farms failed and the herd shrunk.

Numerous weaning farms feeding Iowa's hog industry closed and Manitoba's slaughter plants began falling short of pigs to kill.

But things began bouncing back when U.S. country-of-origin labeling laws were thrown out, profitable prices returned and the NDP provincial government began softening its approach.

The new PC provincial government replaced the NDP in 2016 and many regulatory restrictions on building or expanding hog barns were eased or eliminated.

Dickson said a small number of new barns are moving forward now, with two feeder barns approved and four more in the approval process, and many more farmers asking about the rules for new construction.

But Dickson said most producers are interested in rebuilding,

expanding or improving their present operations, rather than building large new complexes.

Most Manitoba barns were built in the 1990s and early 2000s, so they are not only wearing out, but also are not designed for today's pigs and systems.

For instance, fed pigs might have been an average of 240 pounds when a barn was built, but often end up at 280 lb. these days.

Dickson said "the capital is available," so most farmers won't have trouble finding the money to expand.

However, many approvals are still needed, from the municipal to provincial levels, so it's not easy being able to move forward with new or rebuilt barns.

The mood in the industry is much better than it was a decade ago, and that's a relief.

"We have an opportunity in front of us," said Dickson.

ed.white@producer.com



Mountain snowpack is an important water source for Alberta's irrigators. | FILE PHOTO

Plentiful mountain snowpack bodes well for Alta. irrigators

Mountain runoff expected to be average to above average in much of Alberta this year

BY BARB GLEN
LETHBRIDGE BUREAU

Snow accumulation along the eastern slopes of the Rocky Mountains appears to bode well for runoff and the coming irrigation season, Alberta Environment reports.

The mountain runoff forecast as of Feb. 7, posted by the department, indicates above average levels in the Oldman River Basin near Lethbridge and Brocket, as well as in the Bow River Basin at Banff, Calgary, Minnewanka and Spray River.

Above average mountain runoff is also predicted for the Red Deer River at Dickson Dam and in the North Saskatchewan River at Edmonton. Much above average runoff is predicted for the Bighorn Reservoir, also in the North Saskatchewan River basin.

The Milk River basin at Western Crossing is predicted to have above average runoff, while Milk River itself is predicted to be average.

St. Mary River and Waterton River, in the Oldman River basin, are also listed with an average forecast, as are the Kananaskis River, Elbow River and Highwood River in the Bow River basin.

The forecasts assume normal precipitation over the rest of the winter and through the summer, Alberta Environment said in its runoff report.

As for mountain snowpack, it varies considerably. In the Oldman basin, snowpack is below normal at Allison Pass and above normal at Lee Creek.

In the Bow River basin, snowpack is generally above average, as are levels in the North Saskatchewan

River basin.

Mountain snowpack is an important water source, the department said, and at this time of year it is at about two-thirds of the seasonal total. In southern Alberta, accumulations tend to peak in mid-April to early May.

Environment Canada, in its long lead precipitation outlook issued Jan. 31, said Alberta temperatures are forecast to be below normal for February through April except along the southern portion of the eastern slopes, where temperatures will be in the normal range.

"Precipitation is forecast to be above normal for the February through April 2018 period, except for northeastern Alberta, which is forecast to be normal," Environment Canada said.

Asked what would be the ideal scenario for the province's coming irrigation season, Alberta Environment listed the following:

- Waterton Reservoir at 1,185 metres (within 0.5 metres of full supply level) by the first week of June
- St. Mary Reservoir at 1,103.3 metres (within 0.5 - 0.7 metres of full supply) by the first week of June
- Oldman Reservoir at full supply (1,118.6 metres) by July 1
- Internal storage within the St. Mary River Irrigation District at above average volumes to meet summer demand going into July

The filling of those reservoirs will depend to a large degree on the level of mountain runoff this spring.

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Sugar beet growers keep eye on NAFTA

Industry wants current TRQ kept for beet sugar

BY BARB GLEN
LETHBRIDGE BUREAU

Current talks surrounding renegotiation of the North America Free Trade Agreement are lacking sweetness.

So far as the Alberta Sugar Beet Growers know, sugar and Canada's access to the U.S. market have not come up at all in the talks. At first blush, that might be considered a good thing, given the quixotic nature of U.S. President Donald Trump's position on NAFTA.

However, ASBG director Kelly Van Ham is worried about that absence. He told delegates at the association's annual meeting it might mean that sugar gets tacked on when talks conclude and it won't get the attention it deserves.

"Under the current NAFTA agreement, we have access to 10,400 tonnes under the TRQ (tariff rate quota), so we are allowed to sell 10,400 tonnes of beet sugar, only beet sugar, not cane sugar, from Canada into the U.S. market," Van Ham said after his report to growers.

"We're fearful that that might get pulled back or reduced. Right now the tariffs on sugar coming into Canada are very low ... and yet going into the U.S. they're at ... over \$300."

Van Ham said 10,400 tonnes might sound like a small amount, considering how much sugar the United States requires annually.

"We produce in Alberta here 125,000 to 130,000 tonnes (annually) so 10,400 is quite a large number for us," he said.

"It's significant." ASBG executive director Melody Garner-Skiba said a key goal for beet growers in NAFTA talks is that they "do no harm" to existing trade arrangements. Ideally, the ASBG would like increased access to the U.S. market for beet sugar.

Garner-Skiba said refiners agree with those goals, but because they also deal in cane sugar, they don't necessarily support increased access for beet sugar alone. As well, they want more access to the U.S. market for sugar-containing products.

Mexico, the other player in NAFTA, once had unrestricted access for its sugar into the U.S., but that was curtailed in 2014. Now it can supply only 13.5 percent of the U.S. stocks-to-use ratio.

Should Mexico be unable to supply that, it could be an opportunity for Canadian growers, said Garner-Skiba. On the other hand, the powerful U.S. sugar lobby may seek to limit Canadian beet sugar imports.

As for the new iteration of the Trans-Pacific Partnership, Garner-Skiba said it has limited scope for direct export increases of beet sugar, but there could be peripheral benefit through increased access of baked goods and sugar-containing products.

barb.glen@producer.com

FOR A RELATED STORY, SEE PAGE 16 >>

Weather radar services returning to Sask.

Environment Canada says farmers should benefit from radar upgrades, which include repairs at Bethune and a facelift at Radisson

BY WILLIAM DEKAY
SASKATOON NEWSROOM

Saskatchewan's two weather radars will soon be operational again after being decommissioned for repairs and improvements.

The Bethune radar experienced a major radome failure after a windstorm swept through the area in October.

The radome is the large white spherical housing protecting the radar equipment inside. It was dented from flying debris, and damage to the dome prevented the radar equipment inside from functioning properly.

According to Environment Canada, overall repair costs are estimated at \$50,000 and the radar will be functional again sometime this month.

The Radisson radar location has received a completely new infrastructure and updated system using new microwave technology.

It's part of a modernization of Canada's weather service infrastructure that the federal government announced a year ago.

The \$83 million contract was awarded to German-based Selex ES GmbH to install 20 new radars by March 31, 2023, including the Radisson radar. The cost repre-

sents about \$4 million per radar.

The new structures will continue to use an open lattice steel tower, with a radome on top.

Radisson was one of the first radar stations to receive the upgrade and the others will be replaced at a rate of four to seven per year.

The radar system will work in tandem with a new \$430 million super-computer built near Montreal that uses radar and other data to make weather and climate models.

"It has some really interesting features that make it an exciting radar for somebody like myself who's a forecaster," said John Paul Cragg of Environment Canada in Saskatoon.

He said the new radars will have an extended severe-weather detection range to cover more of Canada, increasing the Doppler range to 240 kilometres per radar from the current 120 km.

"So, it's double the range and Doppler radar is really important for picking out signatures in a severe thunderstorm that may indicate the tornadoes occurring," said Cragg.

The increased range will give residents more lead time to take action to protect themselves and their property from tornadoes and other severe weather. Extended



Environment Canada's radar station at Bethune, Sask., will soon be operating again. | MICHAEL RAINE PHOTO

coverage will also provide better overlap of neighbouring radars in case of an outage.

The new technology can conduct a full-circle scan of the atmosphere in six minutes compared to 10 minutes with the old radar.

"So, it's almost twice as fast getting that image to forecasters. And that's also very helpful, especially during summer severe weather thunderstorms that can develop very quickly. Having those extra scans can help a forecaster determine what's happening in that thunderstorm as it develops. And then that helps for putting out watches and warnings," he said.

Another key feature is use of dual-polarization technology, which enables forecasters to better distinguish between rain, snow, hail and freezing rain as well as better discern the size, shape and variety of precipitation particles.

It will also enable better identification and removal of non-meteorological targets such as birds, bugs and debris from the data.

"It doesn't just send out a signal in one direction. It sends it out in two directions and that allows us to get a better image of the type of precipitation that's falling," he said.

Farmers and rural residents will also benefit from the technology's

increased range and sensitivity.

"We can give watches and warnings about severe thunderstorms that bring hail, freezing rain, whether snow is going to fall, or if there's going to be rain at the beginning or end of a season. Also, the quicker scans will allow for a little bit better information about where the precipitation is, especially during summer severe weather when thunderstorms are quite small and very localized," he said.

Cragg said the Radisson radar is scheduled to be fully operational by March.

william.dekay@producer.com

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Sugar beet tonnage sets record in southern Alta.

Ideal weather, improved varieties and production management get the credit for stellar yields last year

BY BARB GLEN
LETHBRIDGE BUREAU

A “wow” year is how Alberta Sugar Beet Growers president Arnie Bergen Henengouwen summarized 2017.

“The combination of glorious southern Alberta sun, water, soil, improved seed varieties and pro-

ducer management has resulted in sugar beet yields this past year that no one ever thought possible in the great white north,” he told those at the Feb. 14 annual meeting.

The crop averaged 32.55 tonnes per acre and 19.35 percent sugar content. Some 26,900 acres were contracted.

Vice-president Gary Vucurevich

described a stellar beet growing year in which hot temperatures necessitated heavy irrigation to keep the crop going.

“The hot dry conditions, which can limit yields in many other southern Alberta crops, are ideal for sugar beet development as long as we can apply enough water,” he said.

Vucurevich described a tense

delay in the start of seeding due to negotiations between Lantic Sugar and UFCW Local 383, which delayed release of seed to growers.

However, seeding began April 28 and was fully concluded by May 10. Harvest started Sept. 22, was delayed by an Oct. 2 snowstorm and concluded Nov. 2.

A total of 876,929 tonnes of beets

were delivered to the processor and average tonnage at 32.55 was a new record.

Lantic Sugar continues to process the 2017 sugar beet crop, and Lantic agricultural superintendent Bryan Avison said it will likely be finished within the next two to three weeks.

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FARMLIVING

ON THE FARM

This Saskatchewan cattle operation recently won big at a major cattle show in Denver, but the owners measure true success by how their commercial program performs. | **Page 20**



FARM LIVING EDITOR: BRUCE DYCK | Ph: 306-665-3507 F: 306-934-2401 | E-MAIL: BRUCE.DYCK@PRODUCER.COM



The Rocky View Regional Handibus Society uses shuttles to move people in rural Alberta. | PHOTO COURTESY OF PAUL SILLER

Alta. to rev up rural transportation

The lack of rural transit in the province has been a long-standing issue, but now the government is taking action

BY JEREMY SIMES
EDMONTON BUREAU

The tide is changing for rural transportation in Alberta. More communities are set to offer new or improved regional transit systems, a service badly needed for people requiring medical care or others who don't drive.

The province is expected to announce a program in the next few months that will help fund municipalities to either bring in rural transit or enhance current systems. Municipalities must be collaborating with one another to be considered.

While Transportation Minister Brian Mason is tight-lipped about what's coming, he said the program would be a two-year pilot project for suitable candidates. If all goes well, it could become permanent.

"We're hoping to work with municipalities in certain areas to make connections for people in rural and smaller communities," Mason said in an interview.

"What we're trying to do is provide a service to connect those people who don't necessarily have access to their own vehicle to help them get to a medical appointment, do the shopping they need, or to visit family and friends."

The lack of rural transit in the province has been a long-standing issue with advocates and rural citizens. They argue that they, like their urban neighbours, have a right to receive accessible health care and other services, even if they



Jane and Jack Ross of the Association for Life-wide Living of Alberta have been advocating for better rural transit in the province since 2004. | JEREMY SIMES PHOTO

are long distances away.

Jane Ross, a rural transit advocate who lives near Camrose, has been pushing local and provincial governments to get on board with rural transit since 2004.

"Early on, we never thought transit systems like this were going to happen. Government just was never on side," said Ross, president of the Association for Life-Wide Living of Alberta. "But I think they get it now. They are much more

accessible to the idea than they were."

But it's not only the provincial government that's listening. Over time, Ross and other advocates have also convinced local governments to take transit seriously.

In Camrose, the city launched a community bus service last year. As well, organizers with the regional bus in Bashaw, Alta., are looking to expand service so it can once again go to nearby towns. Currently, it

just goes around Bashaw once a week or to Camrose once a month.

As well, Grande Prairie has launched a study with its rural neighbours to see if they can develop a transit system and, down south, the bus in Rocky View County has managed to expand service over time.

But while progress has been made, there are still many people in rural Alberta without accessible transit.

Advocates say the biggest hurdle is finances. Buses are expensive to operate and maintain and ridership can be low due to the fact that fewer people live in rural Alberta.

But it can be made to work, supporters say.

Paul Siller, executive director with the Rocky View Regional Handibus Society, knows what it's like to run a successful operation on a tight budget.

He said the key is collaboration, where all municipalities work together and pay their fair share. This ensures costs for passengers remain low and that the system can stay viable.

"Our secret is we don't have formal agreements in place but we act like we do," Siller said. "We faked it until we made it and, over time, with the municipalities we worked with, most of them have really realized how beneficial this is."

As well, he added that a robust transit system saves dollars for people and the provincial government.

"Right now, every dollar spent on our transit system saves rural Albertans from moving to the big city and taking up even more supports," he said. "Every dollar that's spent on our transportation service saves \$7 per capita in health care, another \$3.50 in seniors' care and, with the school board program we do, another \$3 in child and family services."

Mason said people can expect more details on the provincial program by the end of April.

jeremy.simes@producer.com

Alberta family makes environmental land donation

Nancy Ferrier left the 1,467 acre property in her will to the Nature Conservancy of Canada; her family had owned it since 1904



Sylvia and John Walters at the Ferrier property. | BRENT CALVER PHOTO

BY BARB GLEN
LETHBRIDGE BUREAU

A 1,467-acre property along Gough Lake in central Alberta is now a conservation site under the auspices of the Nature Conservancy of Canada.

The property was donated by the late Agnes Isabelle Ferrier, known as Nancy, who passed away in 2015 and willed it to the NCC. The donation was officially announced Feb. 2, coinciding with World Wetlands Day.

Gough Lake is 125 kilometres east of Red Deer, 40 km south of Stettler and about 100 km north of Drumheller, said NCC Alberta communications co-ordinator Carys Richards.

It is in an area known as the “prairie pothole region” because of its rolling terrain and wetland areas that form habitat for multiple species of birds, other animals and plants.

“The two species that have been observed on the property that are

considered species at risk are the Baird’s sparrow and the Sprague’s pipit, but there are a lot of species that live on this property,” said Richards.

“A lot of the waterfowl and shorebirds that either nest or migrate through this region use (the pothole area) as stopover areas or permanent habitat. There’s also a lot of small mammals and ungulates.”

One-third of the property is native grassland.

The site is also near the 23,620-acre Rumsey Ecological Reserve and Natural Area and near three other NCC conservation easements. Ducks Unlimited owns eight other quarter sections of land nearby.

“There’s lots of people in the area that are trying to protect the landscape,” Richards said.

Though all NCC properties are open to the public for foot access, this one has no trail infrastructure, so although visitors are welcome, high numbers are not encouraged. “The public, if they’re in the area

and they want to visit the property, they’re more than welcome to, so give us a call,” said Richards, noting other NCC properties near Red Deer and Edmonton are more conducive to nature walks.

The Ferrier family has owned the recently donated property since 1904, when Ferrier’s father, John, and uncle, Tom, emigrated from Scotland and homesteaded on the Gough Lake shore. More family members followed, and they gradually acquired more land, established a farmstead and raised families.

Ferrier was the last surviving child of John Ferrier and willed the land to the NCC.

“The family is absolutely delighted,” Ferrier family member Sylvia Walters said in an NCC news release.

“John and Nancy, the children of the John Ferrier that settled here from Scotland, never had any children of their own, so this was their wish. This property has come full circle, from being homesteaded in 1904 to going back to nature the way it was in 1904.”

Alberta Environment and Parks Minister Shannon Phillips said the donation is an “amazing act of kindness (that) will advance our shared goal of protecting and preserving natural habitats for future generations.”

Federal Environment Minister Catherine McKenna said conservation like this will protect biodiversity and improve the landscape’s resiliency to extreme weather events.

On the same day as the Ferrier announcement, NCC also announced a new wetland project in Spring Creek, Sask., and two others in Quebec and Nova Scotia.

In Alberta, NCC now controls more than 280,000 acres of land.

barb.glen@producer.com

OUTSTANDING YOUNG FARMERS



Craig and Jinel Ference of Kirriemuir were named Outstanding Young Farmers for 2018 representing Alberta and the Northwest Territories. A fourth generation farming family living in the Special Areas of southeastern Alberta, the Ferences farm 10,000 acres, run 4,000 cows and operate an 8,000 head feedlot. They will be travelling to Winnipeg for the national Outstanding Young Farmers competition in November. | BARBARA DUCKWORTH PHOTO

Winter means time to turn to comfort foods

TEAM RESOURCES



JODIE MIROSOVSKY, BSHEc

As we gently slide through our Canadian winter, tune in to your food cravings. Many of us adapt to the temperatures we are living in, and right now we want warm comfort food with lots of flavour and spice.

BACON PICKLE FRIES

An interesting “face cringing” appetizer.

12 pickle spears	12
12 strips of bacon	12
1/4 c. ranch dressing	60 mL

Preheat oven to 425°F (220 C).

Prepare a baking sheet with parchment paper to make for easy cleanup. Wrap each pickle with bacon. Place the wrapped pickles on a baking sheet, seam side down.

Bake until the bacon is cooked through and crispy, 12 to 15 minutes, turning halfway if needed.

Serve warm or at room temperature with ranch dressing, if desired. Serves six.

Source: www.delish.com.

ONE DISH CHEESY PASTA SKILLET

That’s right, only one pot. Easy preparation, delicious cheesy taste and quick cleanup. Serve a green salad on the side, if desired. For a real indulgence, serve with warm fresh bread for dipping.

2 lb. ground beef or turkey	1 kg
1 medium onion finely chopped	1
2 garlic cloves minced or equivalent of garlic seasoning (about 1/2 tsp.)	2 mL
1 pepper, any colour, finely chopped	1
1/4 c. chopped fresh mushrooms, chopped	60 mL
1/2 c. chopped fresh spinach, optional	125 mL
salt and pepper to personal taste	
dash cayenne pepper	1 mL
splash red wine, optional	
2-24 oz. jars pasta sauce of your choice	2-700 mL
2 c. water	500 mL
3 c. uncooked pasta of your choice	750 mL
2 c. mozzarella cheese, shredded, or cheese or cheese mix such as Tex Mex, of your choice	500 mL

Add oil to a large skillet and place on medium heat.

Add hamburger, onion, garlic, pepper, mushrooms, spinach if desired, salt, pepper, dash of cayenne and splash of wine.

Brown and drain.

To the large, drained skillet, add pasta sauce and water. Combine, stir in pasta.

Increase heat and stir often until the mix is gently bubbling.

Cover and turn down heat to low/medium. Simmer for about 20 minutes or until pasta is tender. Top with shredded cheese. Cover for about one minute until cheese is melted. Garnish with fresh chopped parsley and a sprinkle of freshly grated parmesan cheese.

Note: If you do not have a large skillet, use a regular-size skillet and

2 tbsp. oil

30 mL

CONTINUED ON NEXT PAGE >>



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Bacon pickle fries is an interesting “face cringing” appetizer. | JODIE MOROSOVSKY PHOTOS



TOP: This two-ingredient raspberry sauce is a family favourite meal ending. ABOVE: This versatile old-fashioned rice pudding works both for breakfast and as a snack.

» CONTINUED FROM PREVIOUS PAGE

halve the recipe ingredients.

After sharing a comforting cheesy main course, I would like to offer gluten-free desserts. Usually, I offer dessert at least 30 to 60 minutes after a main course. I think that we enjoy it more, after we have taken a break from eating.

OLD-FASHIONED RICE PUDDING

At this time of year, I often crave warm desserts to get through the chilly winter evenings. Almost always I take my dessert accompanied by a steamy cup of tea. I love this pudding for breakfast and for a snack as well. It’s so versatile.

- 3 1/2 c. 2% milk 875 mL
- 1/2 c. uncooked long grain rice 125 mL
- 1/4 c. sugar 60 mL
- 1/2 tsp. salt 2 mL
- 1/2 c. raisins 125 mL
- 1 tsp. vanilla extract 5 mL
- 1 tsp. ground cinnamon 5 mL
- dash nutmeg 1 mL

Preheat oven to 325°F(160 C)

In a saucepan, combine the milk, rice, sugar and salt. Bring to a gentle boil over medium heat, stirring constantly. Transfer to a greased 1 1/2-quart (1.5 L) baking dish.

Cover and bake for 45 minutes, stirring every 15 minutes. Stir in raisins, vanilla, cinnamon and nutmeg; bake, covered, until rice is tender, about another 15 minutes. Top with whipped or ice cream if desired, sprinkle with cinnamon. Serve warm or refrigerate and serve cold. Serves six.

Note: if you want a rich, creamier pudding, add one or two egg yolks to the pudding mix. Whisk and then blend in with the other ingredients. Source: www.tasteofhome.com.

RASPBERRY SAUCE

This two-ingredient sauce is a family favourite meal ending. At this time of year, or any time, fresh fruits are important to maintaining a nutritious diet. Unfortunately, fresh choices, especially berries, can be expensive when they are not in sea-

son, so use frozen.

Add 4 c./1 L frozen raspberries to a small saucepan. Sprinkle with 1/4 c./60 mL of sugar, stir and place over low to medium heat. Stir occasionally until berries are warm. Drizzle over vanilla ice cream, frozen or Greek yogurt or chocolate cake. Garnish with a chunk of dark chocolate, if desired.

PUMPKIN CRANBERRY MUFFINS

A spicy treat on a winter day. Not gluten free, this antioxidant rich muffin combines sweet and sour tastes.

- 3 c. flour 750 mL
- 4 tsp. pumpkin pie spice (or a combination of 2 1/2 tsp./12 mL cinnamon, 1 tsp./5 mL nutmeg, 1/2 tsp./2 mL cloves and 1/4 tsp./1 mL ginger) 20 mL
- 2 tsp. baking soda 10 mL
- 1 1/2 tsp. salt 7 mL
- 3 c. sugar 750 mL
- 2 c. canned pumpkin 500 mL
- 4 eggs 4
- 1 c. oil 250 mL
- 1/2 c. orange juice 125 mL
- 1 c. fresh or frozen cranberries 250 mL

Preheat the oven to 350 F (180 C). Grease and flour muffin pans.

Combine the flour, spice, soda and salt in a mixing bowl. In a separate bowl combine the sugar, pumpkin, eggs, oil and orange juice. Beat until well combined, then gradually add the flour mixture. Fold in the cranberries and fill muffin pans to about three-quarters full with batter. Bake for 20 to 30 minutes or until a toothpick comes out clean. Cool and remove from the pans.

*Variation: substitute dark chocolate chips for the cranberries if desired for a different taste experience. Makes 24 muffins. Source: www.allrecipes.com.

FLOURLESS CHOCOLATE CAKE

- 1/2 c. plus 2 tbsp. butter, chopped 155 mL
- 4 oz. (1/2 c.) semi-sweet chocolate, chopped 125 mL
- 1 c. sugar, divided 250 mL

- 2 tbsp. brewed coffee (or 2 tsp. of instant coffee, dissolved in 2 tbsp. hot water) 30 mL
- 3 eggs, separated 3
- 2 c. ground almonds, raw unsalted 500 mL
- 1 tbsp. icing sugar 15 mL
- 2 c. fresh berries, your choice (strawberries or raspberries) 500 mL

Prepare a nine-inch spring-form pan with parchment paper. Heat oven to 325 F (160 C).

In a microwave-safe bowl, microwave butter, chocolate, 3/4 c. granulated sugar and coffee on medium heat 2 to 2 1/2 minutes or until butter is melted and chocolate is almost melted. Stir mixture until smooth. Beat egg yolks. Add to chocolate mixture with nuts; mix well.

Beat egg whites in a small mixing bowl on high speed until bubbly. Gradually beat in remaining granulated sugar until stiff peaks form. Gently stir into chocolate mixture just until blended. Spoon into the pan. Bake one hour or until toothpick

inserted in centre comes out clean. Cool two hours. Sprinkle with icing sugar and top with berries just before serving. A dollop of whipped cream would also add to the chocolate slice.

Adapted from www.kraftcanada.com.

Jodie Mirosovsky is a home economist from Rosetown, Sask., and a member of Team Resources. Contact: team@producer.com.

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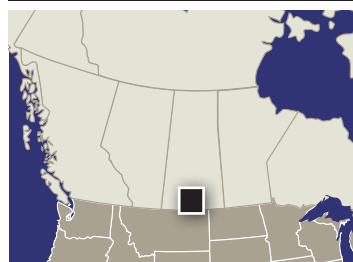
Limousin breeders build sound reputation

Kelly and Jeff Yorga won big recently at a major livestock show, but they say their commercial success is what counts



Kelly, left, and Jeff Yorga with their Division 3 champion Limousin bull, JYF Dead Head 296D, at the National Western Stock Show in Denver. | PHOTO SUPPLIED BY JEFF YORGA

ON THE FARM



KELLY AND JEFF YORGA
Flintoft, Sask.

BY KAREN BRIERE
REGINA BUREAU

FLINTOFT, Sask. — Success in the show ring is great, but success in the sale ring and ultimately calves on the ground are what drive Limousin breeders Kelly and Jeff Yorga.

The father and son team's most recent experience with the first came at the National Western Stock Show in Denver in January with their Division 3 champion bull, JYF Dead Head 296D, in the open breeding show, known as the show on the hill.

Jeff said the North American Limousin Foundation thinks he is the first Canadian bull to ever win a division in that event.

They also had the reserve champion pen of three bulls in the yards, the outdoor show, which is the first Canadian pen to win the reserve title.

Not bad for their second year at the show.

"We don't show to win banners but it's something they can't take away from you if you do," said Jeff. "It's a positive thing for us and for Canadian breeders."

But more importantly, J. Yorga Farms is gearing up for its annual production sale Feb. 26 at the farm.

The family has been selling bulls for decades; Yorga relatives were among the first to import Limousins in the 1970s.

Kelly and Jeff are the first and second generations to devote themselves to the cattle business, however. The farm at one time was a grain and hog operation but has focused on Limousin cattle since the early 1990s.

They began selling through an auction in Swift Current, Sask., but moved to their own sale barn in south-central Saskatchewan seven years ago.

They focus on selling Limousin bulls that offer muscle, marbling, yield and good weaning weights — traits for which the breed is known.

"People are starting to remember that they need to cross breed," said Jeff. "They need a terminal sire that provides calving ease. When you're running 500 to 1,000 cows, you don't have time to doctor calves when they're born."

"We don't sell the 1,000-pound weaning weights. We sell live calves."

The Yorgas sell two-year-olds and long yearlings and developed their own docility rating system, so they're confident they are selling what their customers want. Each time a bull is handled, it is rated, and because they sell aged bulls, they have been well culled.

Typically, the Yorgas sell about 70

We don't show to win banners but it's something they can't take away from you if you do. It's a positive thing for us and for Canadian breeders.

JEFF YORGA
LIMOUSIN PRODUCER

bulls annually and would like to increase that to 100. But three years ago, weather conditions caused feed shortages and they were forced to cull cows, resulting in a lower number in this year's sale.

They haven't sold a female in five years as they work to expand the herd, Jeff said. They plan to breed 300 cows this year. In 2017, they implanted 67 embryos, up from 32 the year before.

Calving occurs in April and May.

Kelly said they need to grow more of their own feed but are restricted by their land base. Grain farms lie to the north and cattle operations to the south with not much ability to work together on possible solutions like bale grazing because of a lack of infrastructure.

Dry conditions last year, which continue in their region this winter, also resulted in a lack of feed. Their cows are wintering in Carnduff, Sask., and the heifers and heiferettes are near Gull Lake, Sask.

Kelly said there are always challenges, and points to a photograph in the barn office of a bull he brought home from the United States just days before the Canadian border closed after BSE was discovered in Canada.

But both are bullish on the Limousin breed and the cattle business overall.

They also give back through their involvement in organizations. Kelly was a director of the former Beef Information Centre, finance chair of the Saskatchewan Stock Growers Association and on the Canadian Limousin Association board.

Jeff is the current SSGA finance chair, a graduate of the Canadian Cattlemen's Association young leaders program and currently on the boards of the Canadian Beef Grading Agency and the Saskatchewan Limousin Association.

Kelly said the operation would be far from what it is without Jeff. It also wouldn't function without his wife and Jeff's mom, Norma, who handles the office work.

Jeff, who played a season with the Toronto Argonauts, has degrees in finance and economics and worked in finance for five years. He now works as a broker with Global Ag Risk Solutions and said the seasonality of that work fits perfectly with the cattle business.

Asked why he returned to the farm, he said, "because there's an opportunity to do something big."

It's also an opportunity to work in an industry that, while competitive, breeds great friends and neighbours. Davidson Gelbvieh and Six Mile Red Angus are both perennial Denver exhibitors who helped show the Yorgas the ropes.

"They say it takes three years of going down (to Denver) before you really start to see a shift in your business," Jeff said. "We're excited."

karen.briere@producer.com



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There is no logic when it comes to understanding addiction

SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

Q: I am not sure what is going on with my brother. We grew up in the same household. We watched together the same alco-

holic dad get drunk and disorderly. We hid together in the same closet when both of our parents got drunk and started fighting with each other. We sat together in the same old beat-up jalopy when our mother was running for fear of her life away from our father. And together we sat on Sunday afternoons for short and supervised visiting hours in the same penitentiary where our father was incarcerated.

So why is it, after going through all of that together, am I watching my brother starting to drink too much and heading down the same road our father followed? You would think that he would know better.

A: The short answer to your question is that there is no logic to addictions. Let me change

that a bit. There is no logic to what is going on with your brother.

You are right. He is drinking too much. You would think that after seeing so much violence and hurt and anguish as a child that he would look the other way when offered a drink. But he doesn't, and most likely he is using the abuse he saw as a child as an excuse for his own irrational behaviour. Addicts are really good at squeezing excuses from their personal experiences to justify their irrational commitments to drugs and alcohol.

What they often forget is that most everyone has a story to tell. All of us have had tragedies we have had to endure. All of us have had hurts and disappointments and anguish. Maybe some of our experiences were not as devastating as those you

and your brother endured but they were there nonetheless, and not all of us have turned to addictions to resolve them.

You are a perfect example. You have the same life story as your brother, but you are obviously not into addictions.

People in programs such as Alcoholics Anonymous like to refer to addictions as diseases. That is their way of saying that addictions defy logic and you cannot justify them. But like diseases, they have to be treated in some form and those caught up in them need all the help and support they can get.

My guess is that you would do almost anything to help your brother overcome his addictions. I hope that you realize that you likely cannot do much on your own to

give him the help he needs. I would suggest that you try to forget about all of those horrible experiences you and your brother had as children and try to build supportive and encouraging relationships with your local addictions counselors, with your community's chapter of Alcoholics Anonymous and with whomever you know who subscribes to Alanon, a support program for the families of addicts.

If all of you can work toward sobriety together, your brother might be successful. But don't forget, he has to want it to, and if he is not ready to accept the help, you might have to wait until he is more desperate than he is at the moment.

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

What to expect at the ER

HEALTH CLINIC



CLARE ROWSON, MD

Q: I was recently in the hospital emergency department after I injured an eye. It was about 6 p.m. and my doctor's office was closed. There were no obvious cuts but there was bleeding into the whites of the eye. After waiting till about 3 a.m., I was told that as I had no impairment of vision, I should see my family doctor or eye doctor the next day. Should I have waited and visited an optometrist or eye doctor instead? I am fine now.

A: Patients who show up in emergency rooms are triaged by a nurse as soon as they arrive in the hospital and are divided into categories depending on the results of the brief assessment. If you are complaining of faintness, dizziness or chest pain, you are likely to be fast tracked, as you may have suffered a heart attack.

If you walk in unassisted, you will probably be put in the line for a longer wait. Arriving by ambulance will generally get you faster attention. Most hospitals do not have an eye specialist or an optometrist on staff, or even one on call, and emergency room physicians are only trained to treat minor eye injuries, such as a foreign body in the eye, or eye infections and allergies.

You would have to be referred to a specialist for anything else. The same applies to dental problems. Even if you have a raging toothache, you won't get an immediate tooth extraction or root canal. Most likely you will be given painkillers and perhaps antibiotics and told to contact your own dentist for further treatment.

Even if you are placed in an area where you have a long wait, a nurse or doctor will walk past from time to time to observe you and make sure that your condition has not taken a turn for the worse.

A 2008 U.S. Centers for Disease Control and Preventive study found that chest pain was one of the main non-accident reasons for an ER visit, followed by acute abdominal pain, toothache, and respiratory conditions such as flu, asthma and pneumonia.

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

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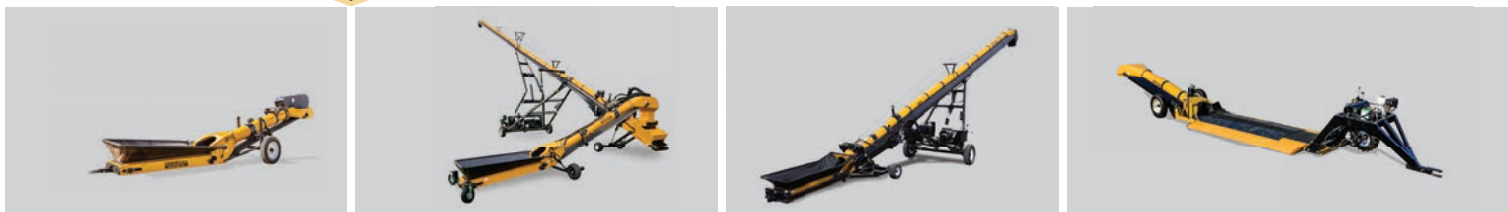
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AFTER THE FARM POST RETIREMENT

A SPECIAL FEATURE OF THE WESTERN PRODUCER | E-MAIL: NEWSROOM@PRODUCER.COM | 306-665-3544 | EDITOR: BRIAN MACLEOD

Is 60 really the new 40?

Greater longevity can be linked to public health advancements and improvements in medical technologies and living conditions

BY SHIRLEY BYERS
FREELANCE WRITER

Many people believe that a person who is 60 years old today is about equivalent in health to that of a 40-year-old 20 years ago.

Is that the product of wishful thinking, or is true?

It's common for many of us to automatically change our definitions of "old" to somebody 15 or 20 years older than our own current age.

Whether 60 really is the new 40 or not, one thing is certain: we are living longer. A Canadian born from 2007 to 2009 will live, on average, 79 years if he's a male, and 83 years if she's a female. And we're living healthier.

"Healthy life expectancy" refers to the number of years we will live in good health.

According to the World Health Organization's 2015 statistics, Canadians born in the years 2000 to 2015 can expect to live 72.3 years in good health.

That's ahead of the United Kingdom's 71.4 years, 69.1 years in the



Population experts argue that because people are living longer, 60 to 65 could be considered middle-aged. | GETTY IMAGE

United States, 71.9 years in Australia and Sweden's 72.

The greater longevity can be

linked to advancements in public health, such as decreased smoking rates. Other factors include improvements in medical technologies, along with improvements in living conditions.

According to population experts at the International Institute for Applied Systems Analysis in Austria and Stony Brook University in New York, because people are living longer, 60 to 65 and maybe even older could be considered middle-aged.

Some factors affecting life expectancy include diet, weight, genetics, lifestyle and socioeconomics. A study by IIAS found that when life expectancy rose more rapidly, these measures of aging increased more slowly.

That means that if life-expectancy rates keep growing, the older population is probably fairly healthy and overall much younger in terms of their health and life engagement than their parents and

grandparents were at the same age.

The work stems from prior research developed by IIAS, which looked at "prospective age."

The report posits measuring age not as the number of years since a person was born, but as a measure of time to expected death.

"Since life expectancies have increased over the past several decades, and are continuing to increase, people once considered old should actually be viewed as more middle aged," says the Stony Brook study's co-author Warren Sanderson, a professor of economics and history.

It's not about numbers, he says. It's about how your body and mind measure up, physically.

He said that the measurement of life maybe shouldn't be based on the time since birth, but rather the time remaining until an expected death.

Maybe 60 is not the new 40, but it could be the new 50.

KEEP MOVING

- » As little as 10 minutes a day of physical activity can be beneficial but to obtain maximum benefits, aim for 150 minutes per week.
- » If that sounds formidable, think about these words from the World Health Organization's global strategy on diet, physical activity and health:
- » "Physical activity is defined as any bodily movement produced by skeletal muscles that requires energy expenditure," and furthermore,
- » "The term 'physical activity' should not be mistaken with 'exercise.' Exercise is a subcategory of physical activity that is planned, structured, repetitive and purposeful in the sense that the improvement or maintenance of one or more components of physical fitness is the objective.
- » "Physical activity includes exercise as well as other activities which involve bodily movement and are done as part of playing, working, active transportation, house chores and recreational activities."
- » That could include gardening, mowing the lawn (not on the riding mower), dancing, even housework done at a brisk pace. If you think about physical activity rather than exercise, it's easier to incorporate it into your day.

EXERCISE COMES IN TWO FLAVOURS

- » It is important to remember that all exercise falls into one of two categories: aerobic and strength training. To gain maximum benefits, it is recommended we do both. But don't overdo it and remember to see your health-care practitioner before you begin any new exercise program.
- » Exercise is aerobic if your breathing speeds up, your blood flows faster and your heart beats faster. Walking, running, dancing, swimming and bicycling are some examples of aerobic exercise.
- » When it comes to strength training, to build muscle and strengthen bones, you really only need to use your body weight as resistance. Yoga, tai chi and Pilates are all forms of strength training, and they also promote flexibility, another element of fitness. Walking, running and dancing are also strength-training, but swimming and bicycling are not.

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Exercise can enrich, enhance and maybe extend your life

Exercise releases hormones that allow muscles to absorb amino acids, which helps them grow and reduces their breakdown

BY SHIRLEY BYERS
FREELANCE WRITER

Last July, Ruth Chorney underwent surgery to have her left hip replaced. About a month before, the retired educator and farmer began doing specific exercises recommended to her by her physiotherapist; exercises designed for the needs of a hip replacement candidate.

A life-long active woman, she welcomed the opportunity to participate in her health outcome. "The idea was to start training my muscles and training myself for after surgery," she said in a phone interview.

She is convinced that the exercises recommended by her physiotherapist helped ready her body for surgery, and helped and continue to help in her recovery. And the results speak for themselves.

Six months post-op, Chorney said she feels great. She's hiking 45 minutes to an hour most days. She can lift up to 40 pounds and contrary to pre-op predictions, she can still touch her toes.

In the months before surgery, the calf of her left leg had shrunk, through reduced use, to one inch smaller than her right. Just six months post-op, there is only a difference of one-eighth inch.

Even for those fortunate enough not to require hip replacement surgery, regular exercise can bestow benefits and Chorney feels she is an example that others could follow.

Weight-bearing and resistance training exercises can protect bone health in older adults, including those with low bone density.

As early as our 30s we begin to lose muscle mass and function. Regular physical activity can reduce muscle loss and allow people to maintain strength as they age. Exercise helps release hormones that promote the ability of muscles to absorb amino acids.



Regular physical activity can reduce muscle loss and allow people to maintain strength as they age. |

GETTY IMAGES

This helps them grow and reduces their breakdown.

Regular exercise can reduce risk of disease.

According to World Health Organization's global strategy on diet, physical activity and health:

"Physical inactivity has been identified as the fourth leading risk factor for global mortality (six percent of deaths globally). Moreover, physical inactivity is estimated to be the main cause for approximately 21 to 25 percent of breast and colon cancers, 27 percent of

diabetes and approximately 30 percent of ischaemic heart disease burden."

Exercise can mitigate the effects of chronic inflammation.

Not to be confused with acute inflammation, the redness and warmth around a cut or scrape, chronic inflammation is triggered by compounds from abdominal fat, gum disease and other factors. Chronic inflammation may increase the risk for heart disease, diabetes, dementia and some cancers.

A study at the University of Cali-

fornia's San Diego School of Medicine, led by Suzi Hong from the Department of Psychiatry and the Department of Family Medicine and Public Health Researchers, suggested that 20 minutes of exercise per day may help fight inflammation in the body.

Exercise increases the production of endorphins, hormone-like substances produced in the brain, which have been shown to reduce our perception of pain. Secretion of endorphins also leads to feelings of euphoria, and high endorphin lev-

els cause us to feel fewer negative effects of stress.

Aerobic exercise can help maintain the size and functioning of the brain as we age.

A collaborative study by Australian and English researchers found that aerobic exercise can help to maintain the size of the brain as we age, aiding in maintenance of brain health and memory function. The study was led by researchers from Australia's National Institute of Complementary Medicine at Western Sydney University, along with the Division of Psychology and Mental Health at the University of Manchester in the United Kingdom.

Brain scans of participants (average age 66) were examined before and after aerobic exercise programs or in control conditions. The study specifically was looking at the effects of exercise on the hippocampus, a region of the brain critical for memory and other brain functions.

The aerobic exercise included stationary cycling, walking and treadmill running, with the length of the interventions ranging from three to 24 months with a range of two to five sessions per week.

The results showed no effect on total hippocampal volume, but exercise did significantly increase the size of the left region of the hippocampus. (Our brains shrink over time, about five percent per decade after age 40.)

Exercise can help us live longer, say researchers. A study of 5,700 men aged 68 to 77 in Norway showed that those doing three hours of exercise a week lived about five years more than those who were sedentary.

Those logging the equivalent of six, 30-minute sessions of any intensity were 40 percent less likely to have died during the 11-year study. On the other hand, the study found that doing less than an hour a week of light exercise showed no effect.

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Gone glamping: roughing it with luxury in mind

Glamping opportunities are available in yurts, teepees, igloos and treehouses as well as the more traditional tents

BY SHIRLEY BYERS
FREELANCE WRITER

The word glamping, or glamorous camping, found its way into the Oxford English dictionary in 2016, but the concept of glamping has been around since the 16th century when the Scottish Earl of Atholl orchestrated an ultra-luxurious glamping experience in the Highlands for his guests, King James and his mother.

The earl, or more likely his servants, outfitted lavish tents with all the comforts of the home palace.

In that same century, a diplomatic summit in France in 1520 between Henry VIII of England and Francis I of France set the standard in political glamping with 2,800 tents and marquees, and fountains running with red wine.

Meanwhile, in the East, the Ottomans were transporting their palatial tents, richly decorated and embroidered with silk and metal thread, from one military mission to the next. Teams of artisans travelled with the army to pitch and maintain the imperial tents.

In the early 20th century, the African safari became the preferred glamping experience for moneyed Brits and Americans. Those forays into the wilds included electric generators, folding baths and cases of champagne.

Today glamping can give the vacationer the best of both worlds. Some suggest that baby boomers who have put in decades of traditional camping, who have pitched tents, battled bugs and coped with less than ideal wash-room facilities, yet still want to vacation in the great outdoors, deserve to glamp.

Glamping opportunities are available in yurts, teepees, igloos and treehouses, as well as the more traditional tents. Prices range from around \$100 per night to thousands of dollars per night, depending on amenities.

Tent glamping

For people who want to “live like the fanciest cowboy on Earth,” as it states in the resort’s literature, Paws-up in Montana might be just the thing.

The resort offers a variety of tents as well as ranch-style homes, electricity, heated floors and butlers. Guests can go horseback riding, fly-fishing, cattle herding and to the spa tent for a massage. Come suppertime, they can have a traditional outdoor chuckwagon grill or they can opt for a gourmet restaurant or even room/tent service.

Prices go to US\$2,225 per night for a two-bedroom suite. Learn more at pawsup.com/glamping.

High-end hut glamping

If an African safari appeals to you, the Greystoke Mahale camp in Tanzania “combines the amenities

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OPPOSITE PAGE: Some suggest that baby boomers who have put in decades of traditional camping deserve to glamp. | GETTY IMAGES

LEFT: Glamping can give vacationers the best of both worlds. | GETTY IMAGES

» CONTINUED FROM PREVIOUS PAGE

of glamping with the isolation and connection with nature of a safari. On a site reachable only by a several hour journey on boats and small planes, the camp offers a spectacular view of Lake Tanganyika, luxurious wooden bandas or huts and excellent food and drink.

But the main attraction is the chimpanzees. The area is rife with them. Each morning there's a chimp trek to observe the creatures as they go about their daily lives.

Prices start at \$4,583 per person for a four-night stay, including airfare from Arusha, Tanzania. For more information, check this glamping experience out at nomad-tanzania.com.

Historical glamping

Several locations such as Bodrifty Farms at Cornwall in the south of England offer a historical twist along with the glamping.

At Bodrifty Farms you can sleep in an Iron Age-style round house, complete with a thatched roof. You can stroll across moors scattered with ancient monuments.

You can dine on fresh veggies grown on the farm and it's on the coast so beautiful beaches are just an amble away.

"The lack of artificial light on the farm makes it perfect for stargazing," (a statement from the farm's website) sounds like a tactful way of saying there is no electricity.

A night at the roundhouse will cost up to \$436 per night. Their site is at canopyandstars.co.uk.

Yurt glamping

Back in Saskatchewan, you can head for Christopher Lake and one of Flora Bora's fully equipped yurts. No worries about the electrics here. You will also have a private bathroom, kitchenette and deck, and you will find nature trails and fruitful gardens just out the front door.

Flora Bora was chosen by the *Huffington Post* as one of the "seven best places to go glamping in Canada" and by *Readers Digest* as one of "10 great places to go glamping in Canada."

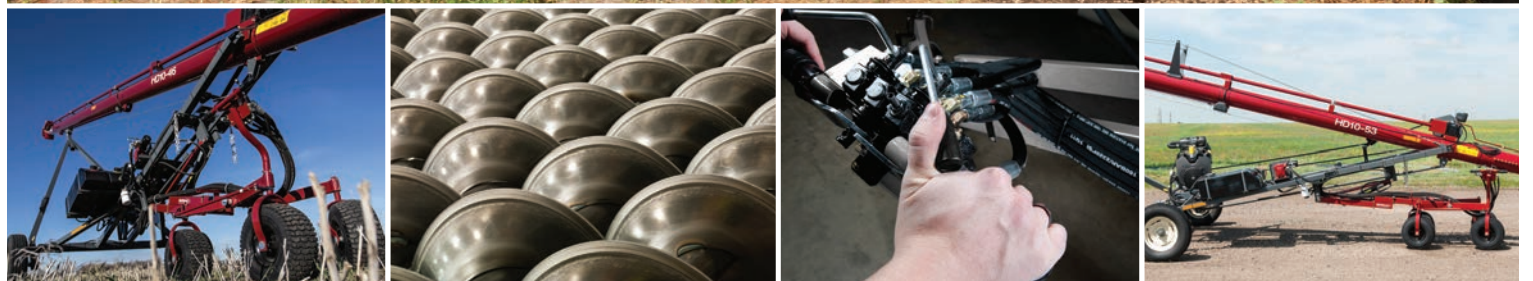
During the low season, you'll pay \$196 per night, per yurt. That rises to \$223 per night in high season, May through to Sept. 15.

For more information, visit florabora.ca.



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Peter and Lori Sereda retired late last year. | SHIRLEY BYERS PHOTO

Alta. couple not retired from life — just farming

The Seredas wanted stability, and didn't think they could find it if they continued to farm

BY SHIRLEY BYERS
FREELANCE WRITER

Peter and Lori Sereda harvested their last crop this fall and on Oct. 2 they left their grain farm, southeast of Bow Island, Alta.

They moved into their new home and a new life in the town of Coaldale, Alta., near Lethbridge, about 90 km from Bow Island.

For a period of their farming career they had an irrigated farm. At the time of their retirement, they were on a dryland farm.

"We owned 1,600 acres and rented another 1,000 acres and we grew cereals, mostly durum, and wheat and peas," says Peter. "We did try canola, but didn't seem to fare well with canola."

Do they miss their previous life?

"I miss the quietness of being out on the farm," says Lori and wonders if she might miss it more when the farming season starts up in the spring.

"I don't know if I'm going to miss the actual farming part or not," Peter says, "but I'm pretty sure I won't miss the administrative end of it."

At this point in his life, after more than 30 years in agriculture, he was expecting to be in a much less precarious position, he says.

"I was looking for some stability and I just don't see that stability. The whole grain marketplace can change in just about an instant. We saw this last fall with India putting extra duties on imports of pulses, which absolutely dropped the prices of our product, if you could even get somebody to quote you a price."

Those kinds of stresses were beginning to wear on him.

"I got to the point where I said, 'you know, I'm just not comfortable playing this game anymore.' I wasn't having any fun any more."

Also, the 2,600 acre operation was becoming almost too big for one person but not big enough to justify hiring outside help.

At about that time, someone approached him about renting his land and the Seredas eventually accepted an offer.

Looking back, they say they had mostly very good years on the farm. One year a hailstorm wiped out all 10 quarter sections, but that was the first and last time they experienced any kind of hail event.

Peter grew up on his parents' farm, obtained a bachelor's degree in agriculture and has farmed all his life.

Lori was a "town kid." She lived in Saskatchewan till about age eight, then in Summerland B.C., and finally in Lethbridge where she and Peter met through mutual friends. The couple celebrated their 32nd anniversary in November.

Of their four sons, only the oldest has expressed "a very small passing interest" in a career in farming.

"My feeling was that I was living my dream and we encouraged

them to live theirs. If their dreams happened to coincide with ours, that's great; if they didn't, it wasn't a problem," Peter says.

That same son now lives in the farmyard with his young family — a very satisfactory arrangement for all concerned. And because Peter and Lori have chosen to rent rather than sell the farmland, the door is open for him or their other sons if they change their mind about farming.

All four of their sons live within easy driving distance and there are three grandchildren. They're the main reason why Peter and Lori will never become snowbirds.

"We're too attached to our children, and our grandchildren, to be away for that long," says Lori. "We like to spend lots of time together."

Another is that the lifestyle doesn't appeal to them.

"My idea of a holiday," she says, "is to go away and not take our house with us, and to have somebody else cook and clean."

Peter agrees.

"We both feel the same way. We've had that in common from day one."

For now, both have found full-time jobs in Lethbridge: Peter at a John Deere dealership and Lori at a school.

"For the moment, we're just riding things out," says Peter. "We still have to wind down the farming operation. The bins are full out on the farm. And we've got the auction coming up in March."

Though they won't be planning any prolonged trips, the couple would like to do a family trip and also some short trips to catch up with extended family and friends.

Lori, who loves to sew and quilt, is getting her crafts room set up in the new house. Peter has his eye on some vintage vehicles he might restore. They're happy and healthy and looking forward to the future.

Lori sums up their feelings.

"We retired from farming but we haven't retired from life," she says. "We still have a lot of living that we'd like to do."

"Right now both our jobs are full-time. Hopefully we can get into some kind of part-time or seasonal jobs. That will allow us to do some travelling and some of the other things we like to do."

"More than anything, travel and get around to see friends and relatives we haven't seen for quite a while," said Lori.

Lori sews and quilts and does other crafts. She has a room designated in the house for her projects.

"Later on Peter will express regret that he didn't cultivate hobbies and interest while he was still farming," she said.

They are planning at least one family vacation for the entire family to go with them.

In their former life, Lori had two months vacation in summer because she worked at school but

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Time for a new look at staying in hostels

Know what you want in a hostel experience

BY SHIRLEY BYERS
FREELANCE WRITER

In 2004, Eric and Karen Olafson of Wynyard, Sask., were planning a trip to Iceland. Both descended from Icelanders and they were looking forward to seeing the homeland, connecting with relatives and making memories. They were not looking forward to what it was going to cost. Iceland is beautiful — and expensive.

Their daughter, Marea, suggested they economize by staying in hostels, and booked them into hostels in Reykjavik and other points. Karen admitted to having reservations about those reservations, but her mother, who was planning on going with them, was horrified at the idea of staying in a hostel.

“She thought hostels were for young people and they would be partying, and she probably didn’t realize that private rooms are available,” said Karen.

Her mother did come along on a later trip to Iceland and was very pleased with all of the hostel accommodations.

In their experiences — and the Olafsons have stayed in hostels in Montreal, London, Halifax, Regina and several points in Iceland — hostels come in various shapes, sizes and situations. In Reykjavik,

they stayed in a hostel well away from the city centre. It was next door to a large swimming pool, offered camping accommodations and it was quiet. It was quieter, Karen said, than their Saskatchewan farm home about 200 metres off Highway 16.

On the other hand, a new hostel in Reykjavik probably won’t be a haven for non-partyers, she said.

“It’s over a bar and on the main drag.”

It’s just a matter of knowing what you want in a hostel experience and making your preferences known when you look for a hostel, she said.

The Olafsons have been pleased with the cleanliness, comfort and security of all of the hostels they’ve stayed in. There is a choice of dormitory style accommodation or private rooms. Guests sometimes need to bring their own towels and bed linen, or those items may be provided free, or for a small fee. There are usually lockers in which to store your valuables. Cooking facilities are on-site and room rates include breakfast.

Hostels are not the same as hotels, they said. Rooms are small and basic, some don’t even have a chair, so you probably won’t spend

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that was Peter’s busy time and in the winter she was committed to her 9-to-5 job. It was hard to plan any kind of getaways when our schedules were opposite, Lori says.

“We still have a lot of living that we’d like to do,” she said.

Peter said his new employers are concerned “that maybe I’m trying to tackle something that might be a little too strenuous for somebody my age, but so far I haven’t had any issues.

“I think specifically they were looking for somebody with experience that I’ve got and that experience comes with age.

“They did express concern that I was way overqualified for the job with my experience as well as my education.

“It didn’t matter to me. What I was looking for was to have a reason to get up in the morning and a job that I could do and enjoy.”

Both volunteer at their church and hope to do even more of that in the future.

Peter says that between farming and custom grain hauling there was no time to cultivate any hobbies or outside interests and suggests that other producers consider planning for that as he feels it would have helped him transition to retirement.



Hostels come in various shapes, sizes and situations. | GETTY IMAGES

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much time there. You're expected to get out and visit in the common rooms. Meeting new people is part of the hostel experience.

Hostels originally were for youth. The first one was founded by a German teacher, Richard Schirrmann, around 1909. While he and a group of students sought shelter from a rainstorm in a school empty for the summer, the idea of using schools as guest houses for travelling young people came to him. The idea caught on and by the end of the 1920s there were more than 2,000 hostels in Germany.

The notion spread to the rest of Europe and eventually to other countries. Over time, the concept of hostel broadened and today they are open to travellers of all ages. Guests can choose from independent hostels or from hundreds of hostels under the auspices of Hostelling International.

It is a charity that manages a federation of not-for-profit youth hostel associations. They provide a network of hostels in more than 80 countries.

"We believe that exploration and travel lead to a better understanding of other cultures, and in turn that creates a peaceful, smarter, and more tolerant world. This is and has been our mission for almost 100 years," it suggests on its website.

It also maintains that it will "typically have the best prices."

It would appear that it might be the case. A US\$25 per year membership fee entitles the bearer to further discounts.

Diverse settings

Hostels offer similar basic services but the settings can be diverse. Point Montara Lighthouse, an HI hostel situated on the California coast, about 50 kilometres south of San Francisco, offers accommodations in a former lighthouse keeper's quarters. Guests can stay in shared accommodations or in private rooms, usually with their own bathrooms. They have access to lounges, a secluded beach cove with tide pools and landscaped native plant gardens. It has internet, free wi-fi, on-site laundry, free parking and an espresso bar. There are two self-service kitchens, complete with stove, oven, microwave, fridges, coffee maker and kettle.

Hotels in the area charge from \$136 to \$919 per night for a couple.

At Point Montara couples pay \$93.74 per night.

Other unusual hostel accommodations include a boat in Budapest and a jumbo jet in Stockholm. Learn more at hihostels.com

Karen and Eric Olafson might not travel to these destinations, but they will definitely be hosteling soon. Eric has applied to take a class in Rome this summer. When it's completed, he'll travel by train through France, Germany and Denmark staying in hostels and meeting Karen in Iceland in July.

The first hostel was founded by a German teacher around 1909. The idea caught on across the rest of Europe and eventually to other countries.



Hostels offer similar basic services, but the settings can be diverse. | GETTY IMAGES

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It's thought that the presence of more bison would help native youth better understand and connect with their culture. | FILE PHOTO

First Nations seek free-roaming bison herds

BY BARB GLEN
LETHBRIDGE BUREAU

Efforts are underway to increase the number of free-ranging bison in Western Canada and Montana.

Signatories to the 2014 bison treaty, which includes numerous First Nations, are working to establish regions where bison can roam and where native connections with the iconic species can be re-established.

Leroy Little Bear, a scholar integral to formation of the bison treaty, said such a region is close to establishment by the Blackfoot

Nation in northern Montana near the Canadian border at Chief Mountain.

As well, Banff National Park recently acknowledged the one-year anniversary of establishing a bison herd within its boundaries. That herd is expected to roam free in 2019.

Speaking at a Feb. 8 meeting of the Southern Alberta Council of Public Affairs, Little Bear said he thinks it's possible to establish other free-roaming bison herds. Small herds may work on native reserves but there is more space in national parks.



LEROY LITTLE BEAR
SCHOLAR

"There has never been any real law, legislation that really protects the buffalo, so it has always been considered domestic, so in other words not different from horses and cattle and so on," Little Bear said in an interview before his presentation.

"We're now working with the province to reclassify the status of the buffalo to be considered wild ... and that will bring about a whole different management scheme."

In Alberta, free-ranging bison outside of a bison management area in the province's northwestern corner are designated as livestock.

Little Bear said reclassification wouldn't affect existing bison ranchers.

"We think there's someplace for both — in other words, the cattle, the buffalo ranching and the wild herds," he said. "It's not a question of, 'hey, we want to push everybody out.' No, it's really a co-operative approach that we're taking with regard to the buffalo."

His view is supported by southern Alberta bison rancher Cody Spencer.

"Specific herds are designated as wildlife and then a bison ranching industry can thrive as well," said Spencer.

"I think that there's room in Alberta for us to immediately go ahead and designate our specific herds of wild bison as wild bison and still maintain that buffer between the two. Now with our industry expanding, population expanding, we need some protections for those wild herds and for the future herds that are coming, so I think that we can have both."

Little Bear said free-roaming bison could help repair environmental damage and improve biodiversity on the landscape.

He added that the presence of more bison would help native youth better understand and connect with their culture because the iconic species would be readily seen.

"If I don't see any churches around, if I don't see a cross around the place, I can still have all the beliefs but if there's no crosses around that symbolize the icon, I'm just a little bit less Christian. And so, it goes ... when the buffalo is not seen on a daily basis, then those connections are not being made."

A veterinarian asked Little Bear about bison containment and culling strategies.

Little Bear said the process of establishing wild bison herds would be transparent and done after dialogue with ranchers and government.

"We're not naive about having to deal with the existing establishment," he said.

barb.glen@producer.com



Navigating the tricky ranch-oil relationship

Producers say communication and collaboration are key to a successful relationship with oil and gas companies

BY WILLIAM DEKAY
SASKATOON NEWSROOM

Neil Wilson has learned that nothing talks louder than money.

As co-manager for the Antelope Creek Ranch Habitat Development Area near Brooks, Alta., Wilson described how he eventually found a way to communicate his frustrations directly to oil companies in 2006.

He said many company vehicles were destroying native prairie grasses as they drove outside their one-acre lease site.

“What we were finding was they didn’t care where their lease site was. They were out driving around



NEIL WILSON
ANTELOPE CREEK RANCH HABITAT
DEVELOPMENT

on the prairie,” he said during the sixth Native Prairie Restoration/Reclamation Workshop in Saskatoon Feb. 7-8.

Wilson spoke about balancing agriculture, wildlife and industry on the 5,500 acre ranch that he and his wife co-manage for its owners: Ducks Unlimited Canada, the Alberta government, Wildlife Habitat Canada and the Alberta Fish and Game Association. About 100 oil and natural gas leases operate on about 100 acres.

“I finally took offence to it and said, ‘no, you guys stay where you’re supposed to,’ and I started charging them for tracks out in the grass,” he said.

Wilson decided on \$200 per wheel track. A set of two tracks doubled the amount for the invoice

he sent to the company involved.

However, he soon learned that he needed to speak up louder.

“That didn’t seem to get their attention and it kept getting worse,” he said.

“It wasn’t a big enough bill. It was busy, and our bill was nothing to what they were making.”

Wilson decided to wait until he had three wells before sending a bill.

“So it ran into a few thousand dollars and then everybody started taking notice,” he said.

He said he was notified before the next well was dug and shown where corner posts were placed. The construction supervisor roped

off the lease’s perimeter so truckers knew where they could and could not drive.

Brian Weedon, who talked about his perspective as a producer and oil lessee during the workshop, said collaboration and communication are the main issues that can make or break the relationship between rancher, oil company and government departments.

The Weedon Ranch has been in operation for 44 years in southwestern Saskatchewan, and he said dealing with oil companies has been an evolutionary process in the regulations.

“In the beginning there was none,” he said.

“They (oil companies) did all kinds of things when I first went down there in 1974. It was not uncommon for equipment to have the oil changed right there and let drain on the ground.”

The Surface Rights Compensation and Acquisition Act was written in 1968 along with the formation of the Surface Rights Arbitration Board, which Weedon said acted as a type of police force.

By 2000, environmental protection plans were made mandatory in all classes of land.

“So that helped foster communication between landowners and oil companies,” he said.

Weedon said one of the larger monetary issues over the years has been repairing broken fences caused by oil activity.

“Some companies would pay you for doing it,” he said.

“Other companies would not, or they would hire another independent contractor to do the work — sometimes satisfactory, sometimes not.”

However, Weedon said communication hinges on an organization’s standards of care from the top down.

“It’s the quality and integrity of the people you’re dealing with through the chain ... but the parent company is the ultimate stop gap,” he said.

“Responsibilities filter down. Responsible companies look after their act and clean up things. Irresponsible companies will do things like saying, ‘well, it was the fault of the contractor.’

“I’ve got companies I’ve dealt with that I would give them a solid F, but they’re few and far between, and a lot of companies a B+, A for their communications and their due diligence.”

He said many oil companies continue to improve their environmental standards, but a lot more work remains to be done.

“There is very little outside help in assessing some of these situations — like who do you turn to other than say an independent environment company that you have to pay for at your own expense and hope maybe you might get something back,” he said.

“I think the other thing was government departments, both Lands Branch and Mines and Energy, don’t have enough staff to cover the acreage and the territory that they look after. So there’s kind of a lack of human resources really to monitor and police these situations.”

If the oil company doesn’t rectify



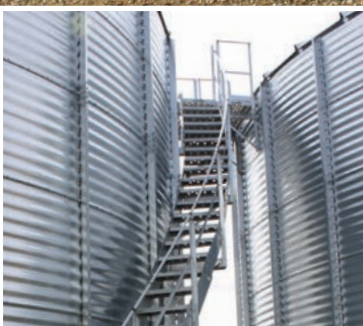
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an issue, Weedon said a producer generally contacts the Lands Branch concerning crown land leases.

"Anytime I thought I had something that was noteworthy, I'd always involve Lands Branch," he said.

"In a few cases they came out and said, 'no, this is not going to happen the way it's planned.' And yet a few days later I find a company out doing work with a Caterpillar and I approached the consultant and say, 'a few days ago, Regina said, this isn't going ahead.' And I've heard this more than once. They said, 'well, Calgary says it is.'

"From then on, if it's a concern and usually together you contact Mines and Energy and they could come out and assess the situation. If it's serious, they can do what's called work stop legislation. They

could shut down that facility 24 hours if they don't see any signs of compliance. That involves mostly the spills and clean up and things of that nature."

Fostering more dialogue improves communication and transparency between oil companies, producers and the government departments involved.

Wilson boils the problems down to a lack of communication with the oil company.

"What worked really well for us and got a lot done on the ranch with industry in general was having a contact person with each company," he said.

"Somebody you know, so if a problem arises you can phone them and they'll deal with it. That's the biggest thing. You've got to find somebody who will take ownership for the company."

william.dekay@producer.com



Producers recommend cultivating a contact with the oil company to make it easier to address problems. |

FILE PHOTO

ADM eyes tax rule options

CHICAGO, Ill. (Reuters) — Archer Daniels Midland Co. is developing plans to offset a provision in the new U.S. tax law that incentivizes farmers to sell crops to rival co-operatives, the grain merchant's chief said, highlighting the threat the law poses to privately held elevators and processors.

The provision allows farmers a 20 percent deduction on payments for sales of crops to farmer-owned co-operatives, but not for sales to private or investor-owned grain companies such as ADM and Cargill Inc.

That has driven fears among U.S. ethanol producers and private crop handlers that they could be squeezed out of the competition to buy farmers' crops.

Members of the U.S. Congress have assured ADM that the provision will be "fixed legislatively" soon, chief executive officer Juan Luciano told analysts on a conference call. However, the company has already suffered a minor commercial impact from the rule and is working on potential options to offset it, he said.

"Of course, the team has been looking at options," Luciano said, after ADM reported quarterly earnings.

"We're not going to sit idle and see ourselves losing share."

Luciano did not elaborate on the options or the impact of the provision on the company. A spokesperson later declined to provide details.

Republican leaders of Congress have been working with representatives of grain companies and co-operatives to address the issue since early January.

The grain sector is struggling with low crop prices following years of big harvests and is paying close attention to the tax law after support from rural communities helped propel U.S. President Donald Trump into office in 2016. The restructuring of the tax code, the biggest in 30 years, handed Trump his first major legislative victory since taking office.

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Food safety rules crucial for farmers markets

Vendors in Alta. are required to take and pass a home study course and post the certificate at their booths

BY BARB GLEN
LETHBRIDGE BUREAU

There are newcomers every year to Alberta farmers markets, and for many, it is their first experience with food product sales.

That's where the regulations governing farmers markets come into play.

A true farmers market is one that is approved by Alberta Agriculture and has been issued a food handling permit by Alberta Health Services.

As well, 80 percent of the vendors must be Albertans selling Alberta products that they, a family member or staff member have made, baked or grown. The other 20 per-

cent can be from out of province or can sell commercially available products.

Given the constant ebb and flow of new vendors to markets, regulations are useful, said Johanna Alleyne, president of the Alberta Farmers' Market Association.

"What you have are lots of new entries to the market in farmers markets, with a commercial kitchen exemption, which means that they may never have gone through any education or regulation in terms of food product delivery, ever," she said.

"So I think as a consumer, as fond as we are of farmers markets in Alberta, I think in terms of food

I love the creativity and the types of products that are coming out, but it's also challenging (in terms of) rule interpretation.

CHERYL GALBRAITH
ALBERTA HEALTH SERVICES

safety you would have to have some regulation or some way of pulling those kinds of entrepreneurial food people within regulation. It's usually their first introduction to any kind of food safety."

Alberta Health Services organized a webinar Feb. 7 for market

managers and vendors, and a workshop was planned Feb. 15 in Camrose, Alta.

Cheryl Galbraith, AHS team lead for Edmonton Rural, said food safety issues at farmers markets are rare.

The last known incident in Alberta occurred in 2002 involving E. coli in unpasteurized cheese.

Galbraith said farmers markets are good places to test new products, but vendors might want to check with the local public health inspector to ensure those products comply with regulations.

Farmers market vendors are also required to take and pass a home study course, said Eileen Koto- wicz, the farmers market specialist

with Alberta Agriculture.

"We do want to see the certificate posted in your booth," she said, noting it is also proof to consumers that vendors have done their due diligence regarding food safety and rules compliance.

The certificate is valid for three years.

Many products sold at farmers markets are prepared in home kitchens and on-farm facilities. Food deemed at higher risk include poultry, meats, eggs, milk and milk products, sauces, low-sugar fruit spreads, cream pies, cabbage rolls and perogies.

Such products must be kept at 4°C or colder, and frozen food must remain frozen while stored, displayed and transported, said Galbraith.

Unpasteurized milk cannot be sold, but whole, raw uninspected eggs are allowed if clean, free of cracks and kept at temperatures below 7°C.

In the home canning sphere, only jams, jellies and pickles can be sold, all of them canned with new approved lids.

There are specific rules surrounding free samples, packages and labels.

Market managers have to meet various requirements involving availability of hand-washing facilities, washrooms and general cleanliness of the market area.

Rules differ between markets that operate once a week versus those that run more often, with the latter requiring more facilities.

Galbraith said farmers markets can expect a visit from a health inspector at least once a year. Inspectors do not visit or inspect vendors' homes.

Questions during the webinar involved such things as micro-greens, flavoured honey, pre-seasoned frozen chicken, haskap and goat-milk lotions.

"I love the creativity and the types of products that are coming out, but it's also challenging (in terms of) rule interpretation," said Galbraith.

Farmers markets are big business in Alberta.

Alleyne said the AFMA has 800 members comprising about 200 managers and 600 active vendors, but the overall pool of vendors involved both past and present is likely closer to 2,000.

"I do think that there's also been a cultural shift in farmers markets," she said.

"Alberta loves their farmers markets. We have a really strong farmers market culture that is very grassroots, but I think in the current economy and the need for diversification, farmers market is big business in Alberta."

Alleyne said that given an ever-increasing urban population, "for a lot of people this is their intersection with their local food, the farmers market."

Regulations for farmers markets can be found at www.alberta-healthservices.ca/assets/wf/eph/wf-eh-guidelines-for-public-market-managers-and-vendors.pdf.

The home study course for vendors is online at www.alberta-healthservices.ca/assets/wf/eph/wf-eh-home-study-farmers-market.pdf.

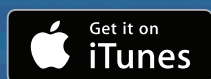
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Gloves-off approach demanded on trade issues

Trade supporters call for Ottawa to take action on cases such as an Italian campaign to denigrate Canadian wheat

BY ROBIN BOOKER
SASKATOON NEWSROOM

EDMONTON — Canada must respond quickly and sternly to preserve its export markets for agricultural goods in an increasingly protectionist environment.

Marlene Boersch of Mercantile Consulting Venture said protectionism has increased over the past five years and the changing United States approach to trade will not help.

"I have a feeling with the changing climate in the U.S. that other countries feel they can do the same and are becoming more protectionist and that is very, very bad for a country like ours that is dependent on the export markets," Boersch said during her presentation at FarmTech in Edmonton.

The protectionist rules India imposed last year, where it applies a 50 percent duty on peas and a 30 percent import duty on lentils and chickpeas, have slashed prices for those pulses in Canada.

She said India disregarded World Trade Organization guidelines when they imposed tariffs on pulses that were already sold, and that Canada has to be more assertive.

"Imposing tariffs on goods that were sold a month ago is not correct. If you impose a tariff, usually it's on the new sales, not on things that are already on the water," Boersch said.

She said it's also ridiculous that Canada has to fight with India over its fumigation rules, which is a blatant protectionist trade barrier.

"Phytosanitary agreements between countries are actually binding. We don't need to fumigate because we don't have the pests they're fumigating against. We should be negotiating much harder in my opinion," Boersch said.

Canadian officials have travelled to India to point out how important and reliable a supplier we are of high quality pulses, but this approach hasn't appeared to achieve results.

Boersch said it's time Canada starts using a bigger stick when dealing with Indian trade barriers.

WTO rules prevent Canada from retaliating with tariffs, such as on the fabrics Canada imports from India, she said.

"But we give aid to India. What if we said we will be a bit slow on that, if we can do it. Just something to get the attention that trade is a two-way street," Boersch said.

Prime Minister Justin Trudeau was scheduled to travel to India for a state visit Feb. 17 - 23.

Another market that's turning protectionist is Italy, where country-of-origin labelling requirements are being applied to durum.

Cam Dahl of Cereals Canada said this increases the cost of moving Canadian product into the market.

"That was the intent of the provisions, they are intended to be protectionist, they are intended to increase the price of Italian durum. At the same time, we've had Italian farm groups that have launched a year-long campaign to denigrate Canadian product," Dahl said during his presentation at FarmTech.



MARLENE BOERSCH
MERCANTILE CONSULTING VENTURE

He said an Italian pasta producer recently told him that during the past year, Canadian durum has gone from having a pristine reputation to now being considered

almost poisonous in Italy.

"They have attacked us on things like glyphosate residues, on the presence of DON, on the presence of ochratoxin A. They made up stuff, like, Italy didn't have celiac disease until they started importing Canadian durum," Dahl said.

He said this smear campaign against Canadian grain combined with the country-of-origin labelling rules the Italian government has implemented have been effective.

Canada is not exporting any durum into Italy now, even though the country was the top destination for Canadian durum in the past.

"Italian pasta producers are taking out advertisements on where they are sourcing their durum from, and Canada is not on any one of those lists," Dahl said.

He said protectionist pressures are rising around the world in countries that have negotiated away their tariffs and quotas, because they are looking for other ways to block trade.

Canada needs to worry about the precedent this sets for other members of the recently signed Comprehensive Economic and Trade Agreement between Canada and the European Union.

"If Italy gets away with this we're going to have other countries look-

ing at the same type of provisions to use as trade barriers. We need to challenge this quickly as a country," Dahl said.

Canada recently signed CETA on the premise that Europe is a single common market. However, if individual countries set up their own labelling regulations, CETA will be much less useful than touted.

"We very quickly are going to see that common market fragment, and the benefits that we were expected to come from CETA aren't necessarily going to materialize," Dahl said.

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Processing vegetable compromise reached

BY JOHN GREIG
GLACIER FARMEDIA

The Ontario Processing Vegetable Growers marketing board believes it has found a compromise to an imposed regulation that it fears would have gutted grower contract protection.

Farmers had previously had two years of contract security, but new regulations would have reduced it to none and processors could have dropped growers whenever they wished.

The matter was the biggest concern for farmers when Ontario Processing Vegetable Growers members recently met for their annual meeting in London, Ont.

Chair Suzanne Van Bommel said the board has heard the concerns of growers after Regulation 440 was released last fall. The board took

the concern to the Ontario Farm Products Marketing Commission, which is imposing new bylaws on the organization.

Commission chair Jim Clark said at the meeting that the commission, which regulates marketing boards in the province, agreed with the change.

"I know that changes to term contracts immediately caused some concern to the industry," he said.

"I have made it clear we are open to alternative solutions."

Van Bommel said the contract security changes in Regulation 440, which is the government regulation that sets out how the OPVG will be run, were a surprise.

Here's how the regulations worked:

- In previous regulations, a processor could terminate a grower with cause for such things as a

food safety or production issue. The grower could appeal to a local board, and the board would decide whether it was just cause to remove the grower.

- If the issue was because of a business relationship issue, the processor had to give the grower two crop years notice that it wouldn't renew a contract.

The new regulation said a processor could terminate without cause immediately, starting next December.

"That's when we started to hear a great deal from growers et cetera, and they said 'whoa,'" said Van Bommel.

Van Bommel said processors told the commission that having a local grower group decide whether cause was just wasn't fair. There were also concerns that it was difficult to establish cause based on



JIM CLARK
ONTARIO FARM PRODUCTS MARKETING
COMMISSION CHAIR

the grower board guidelines and that two years was too long to try to terminate a grower.

The vegetable growers group

offered a compromise that would see it adjust its own regulations to make cause for grower termination more exact and that the time before termination would be moved to one year.

Clark said the commission has accepted that compromise, but he couldn't say when it would be in effect.

Van Bommel said she expects the revised contract security language will be through the government process before next December, which was the original timeline for the use of the clause by processors. As a result, growers shouldn't be subject to the language that most concerned them.

Ont. vegetable growers face new regulatory reality

Industry must sort out new regulations in the aftermath of major shakeup

BY JOHN GREIG
GLACIER FARMEDIA

The only way is forward.

That's what Ontario's processing vegetable growers heard at their annual meeting from the chair of the group that regulates farm marketing in the province.

That doesn't mean some farmers didn't still question the province's move to fire the board of the Ontario Processing Vegetable Growers and its staff last year.

Jim Clark, chair of the Ontario Farm Products Marketing Commission, said changes to the industry were necessary to continue to break down silos between parts of the value chain and move the sector forward.

There remains challenges in sorting out the new regulations imposed on the organization, but most of the way forward has been set for the sector.

Arpad Pasztor spoke to the concerns of many growers in the industry over the past year when he addressed Clark during a question and answer session at the annual meeting.

"I've been trying to get my head around the whole situation since it started," says Pasztor, a cucumber grower.

"For the life of me, I don't understand why this is happening even now. I've been involved in other marketing boards. This is one of the best run and best for the growers' sake."

Pasztor challenged the marketing commission's record and suggested it favoured processors over producers.

That prompted Clark, whose

main job is executive director of the Ontario Cattle Feeders' Association, to defend his farming credentials.

"At the end of the day have to start moving this thing forward, people," he said.

"There's enough blame going around for everybody, trust me."

However, most of the annual meeting's comments were saved for details about the way forward, including clarification on contract security language in Regulation 440.

In the room were several of the province's leading growers and former board members, including Francis Dobbelaar, a Wallaceburg grower, former chair of the board and leader of a new organization formed for vegetable growers after the OPVG board was dismissed.

"I trust Jim and I trust his direction," said Dobbelaar.

"We're moving forward and that's what we should do, but we have to make sure we follow good governance practices."

The changes to the board practices were necessary to encourage processing to stay in the province, says Clark.

In 2016, the Ontario Farm Products Marketing Commission proposed opening up the marketing of processing vegetables in Ontario. Jeff Leal, the Ontario agriculture minister, stayed that process after a producer and industry outcry.

Last winter, after little progress on changing the sector, the provincial agriculture minister fired the board and installed a trustee when a major tomato buyer, Highbury Canco, refused to negotiate with the OPVG.

Most of the employees were dismissed and the trustee negotiated contracts for the 2017 growing season.

Half of a new board was appointed and half was elected last fall.

Suzanne Van Bommel was appointed board chair for two years.

The Ontario Farm Products Marketing Commission under Clark was given the task of managing the transition to a new reality for processing vegetable marketing.

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Milk ad awareness beating top brands

Dairy Farmers of Canada has been pushed to improve how it measures the effectiveness of its farmer-funded milk promotion

BY JOHN GREIG
FREELANCE WRITER

Dairy Farmers of Canada is trying harder to track how well its marketing efforts boost milk sales after Ontario members pulled promotion funding over a lack of information.

DFC's recent policy conference included a presentation by Don Mayo, global managing partner for IMI, an organization that measures media campaigns.

Mayo is part way through a multi-year project to measure how well DFC campaigns reach consumers.

The results for the 2017 campaign were exceptional in brand awareness, although Mayo will need more campaigns in 2018 before he will be able to report on return on investment.

Milk is a strange outlier in the beverage market because in Canada it doesn't have major commercial brands, compared to other large beverages like Coke.

Here is what Mayo found:

- Milk ranked third in unaided awareness of brand advertising in surveys of consumers. That's above Tim Hortons, Apple and McDonald's. Canadian Tire didn't make the top 10 and neither did any of the banks, says Mayo.
- "There is no doubt it (the milk brand) has broken through," says Mayo. "(But) there's no guarantee it will be there next year."
- Milk also comes in third in unaided memory of advertising in the beverage category after Coke and Pepsi.
- The 2017 milk campaigns included a cheese campaign about an animated father and daughter who make cheese, those that run on digital platforms, large national campaigns that feature sports players pouring a "tall cold one" of milk and several spots that play on the "crying over spilt milk" theme.
- There were also other initiatives that focused on nutrition, which performed well in surveys.
- DFC also introduced a new logo in 2017 that focused more on modern messaging, with a modern cow and new colouring that replaced an older logo with a cartoonish cow. Farmers were attached to what was known as the "little blue cow" but Mayo says the number of Canadians who remember seeing the logo rose from 45 percent in 2016 to 70 percent in 2017. The new logo and colour were heavily integrated into marketing campaigns and the number of companies using it has increased since the logo was modernized.
- Traditional advertising, especially on television, continues to perform significantly better than digital ads.

DFC board member David Janssens from British Columbia says promotion funds from his farm alone are \$100,000. He expressed concern that funding for promotion is increasingly fractioned across the country.

"It is truly a serious issue," he says.



DON MAYO
IMI



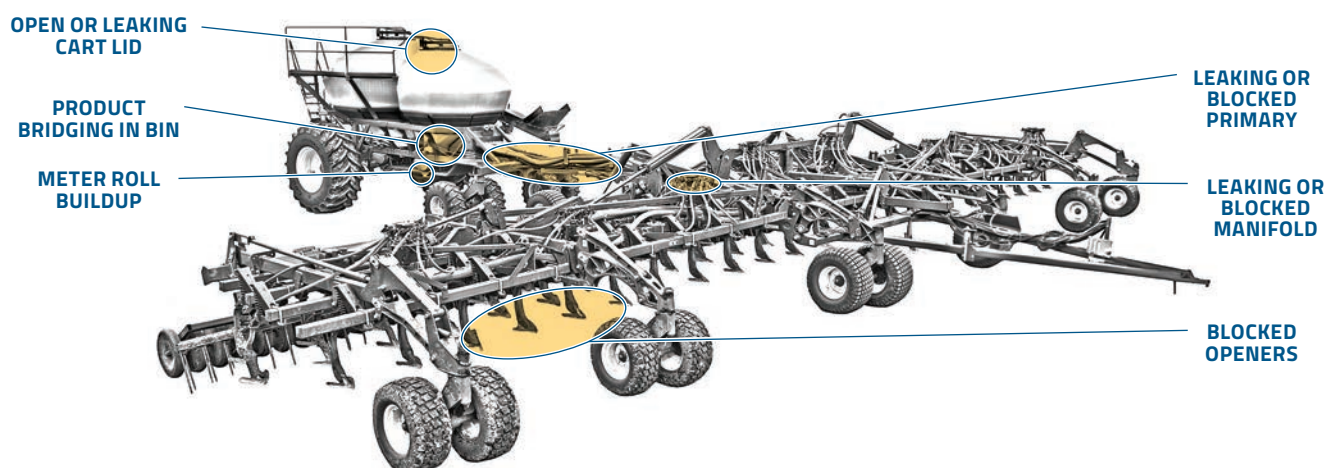
Milk lacks a major commercial brand in Canada, but consumer recognition is high. | FILE PHOTO

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Ag centre takes up urban agriculture among its projects

University of the Fraser Valley works with horticulture and livestock as well as agriculture innovation

SHELLEY TOMLINSON
FREELANCE WRITER

The Agriculture Centre of Excellence at the University of the Fraser Valley has three main functions, according to Garry Fehr, the director of the centre and professor in the department of geography and the environment.

"First of all, we have the barns and greenhouses in Chilliwack which serve for both education, especially September to the end of April each year in both horticulture and livestock, and then it is also used for research. The research is dominant in the May-to-August time," said Fehr.

The centre also works as the sec-

retariat of the B.C. Agriculture and Seafood Research, Education and Extension Network.

"There are 11 post-secondary institutions, federal and provincial ministry of agriculture representatives, as well as producer associations," he said.

"What we try and do is collaborate on research, making sure that education institutions are providing the training for agricultural workers of the future according to the needs of industry."

The third aspect of the centre is research.

One of the research streams is agriculture innovation on the technical side.

"We work with entrepreneurs,

We're at the point right now where we're trying to get permission for some of the images to be used in the publication.

GARRY FEHR
UNIVERSITY OF THE FRASER VALLEY

other scientists and we test their ideas," he said.

"Then we either say, we give them a report that says this is a great product and try and commercialize or we give them feedback and say these are some of the problems with your technology and you

should try and solve those challenges before commercialization."

There are a number of projects that the Centre of Excellence oversees. One area of research is in low tech urban agriculture.

"My background is working in less developed countries, such as India and Kenya, so I've worked on some urban agriculture projects," Fehr said.

"So then I came back and started talking to students and said, how can we develop urban agriculture infrastructure just using scrap materials that you can find in some of these slums and less developed parts of the city."

Students have been working on the project and are compiling a

digital resource to make that information freely available.

"We're at the point right now where we're trying to get permission for some of the images to be used in the publication," Fehr said.

"There are different things such as composters that can be made out of scrap materials," he said.

"There's different types of hanging gardens, even things like using water bottles."

Another example is creating shelters or areas to protect crops in areas where the temperature can get down to nearly zero.

"We've avoided identifying materials that someone would have to purchase," he said.

Yukon eyes local food strategy

BY SHELLEY TOMLINSON
FREELANCE WRITER

The Yukon government continues to work on a local food strategy.

"It's a five-year strategy. What we're doing with that is we're taking small steps to promote government purchase of local food. We're trying to get a government policy in place that if they have a special event, they have to consider local food and if not, provide a reason why they didn't purchase it," said Randy Lamb, an agrologist with the government of Yukon.

There are several initiatives outlined in the strategy, ranging from providing low-cost lease options for agricultural lands, improving access to food and researching cold climate food production.

"We have the different initiatives listed that we tied to food security: community food access, community food processing, community backyard food production and nothing wasted. But the rest is about our industry and helping it to grow and become more established and diversified," he said.

According to Lamb, there has been diversification with vegetable production and growth in the livestock industry.

"Twenty years ago, we would've had, maybe, one herd of cattle with 50 head and it was a remote homestead operation. In the last five years, we've seen one producer in the Whitehorse area, he had a field with about 100 head which, for us, is quite big."

Lamb added that the Yukon Agriculture Association has set up a website that includes a Yukon Farm Products and Services Guide.

"We're doing little steps like that that are helping to link all the producers together."

As well, a new page was created on the agriculture branch website to help producers in the region learn about selling to government.

The Yukon government also plans to soon develop a marketing campaign to work with farmers and grocery stores on how to better promote Yukon grown products, he said.



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AG NOTES

PERENNIAL CROP INSURANCE DEADLINE LOOMS

Perennial crop producers who wish to sign up for insurance for the 2018 crop year must do so by the end of February.

Perennial crop insurance options have been modified this year.

More information is at afsc.ca or call AFSC at 877-899-2372.

VIDEO TWEET WINS INNOVATORS CONTEST

Arinjay Banerjee, PhD candidate in the Western College of Veterinary Medicine at the University of Saskatchewan, has won the Canada Foundation for Innovation's (CFI) #IAMInnovation Twitter contest.

Banerjee is conducting research at the Vaccine and Infectious Disease Organization-International Vaccine Centre on the potentially high impact of emerging viruses on humans.

He submitted a video tweet showing how VIDO-InterVac facilities funded by CFI are helping him.

Banerjee will get a chance to take over CFI's Twitter account for up to four hours on a business day before March.

The account has more than 10,000 followers, including some of Canada's leading researchers, innovative companies and science media.

LEGACY FUND COMMEMORATES ALTA. FIRE VICTIM

The Western Stock Growers Association has established the James Hargrave Legacy Fund to promote intergenerational knowledge transfer to help improve grasslands and grassland management and to work on improving the marketplace for ecosystem services.

Hargrave of Walsh, Alta., was killed last autumn while fighting a wildfire in southeastern Alberta. He was active with the stock growers association as well the Alberta Grazing Lease Association.

The fund will award one recipient each year whose work in the beef and grazing industry exemplifies the philosophy Hargrave lived and worked by.

The recipient will also be entitled to a mentorship with James Hargrave Legacy Fund board members.

To donate to the fund, send cheques made out to James Hargrave Legacy Fund to:

James Hargrave Legacy Fund
c/o WSGA
Box 179, #14-900 Village Lane
Okotoks, Alta., T1S 1Z6

Donors can also send e-transfers to JHLegacyFund@gmail.com.

NEW SELF-ASSESSMENT TOOL AVAILABLE

Farm Management Canada, the Ontario agriculture ministry and the Prince Edward Island department of agriculture and fisheries have launched a farm business assessment tool called Growing your farm profits: planning for business success online farm business self-assessment tool.

The tool will provide producers with the first step in the business planning process.

Producers will have a comprehensive assessment of their farm business practices, priorities, goals and action plan.

Producers can complete the online assessment on their own or invite other members of the farm team to help.

Once completed, the action plan can be submitted for validation.

Producers may be eligible for cost-shared opportunities to hire a consultant or participate in training and learning events to improve their business practices.

For more information, visit oma-fra.gov.on.ca/English/busdev/gvfp/.

SNOW BLANKETS



A small hill sheltered these horses from the wind during the last snowfall in the Chamberlain, Sask., area. | MICKEY WATKINS PHOTO



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German coalition deal includes ending glyphosate use

HAMBURG, Germany (Reuters) — Germany's draft coalition deal includes a goal of ending the use of glyphosate but gives no time frame, after Berlin swung a vote in November extending its use across the European Union.

The timing of an end to glyphosate use has been controversial in Europe amid a heated debate over whether the chemical causes cancer.

"We will with a systematic minimalization strategy significantly restrict use of plant protection chemicals containing glyphosate, with the goal of fundamentally ending usage as fast as possible," the draft deal to establish a new German coalition government said.

The draft did not indicate a schedule for ending glyphosate use.

In November, German agricul-

ture minister Christian Schmidt caused international controversy and a major row in Germany's government by unexpectedly backing a European Commission proposal to permit use of glyphosate for the next five years.

The move by Schmidt, a conservative, effectively allowed the extension in glyphosate use within the EU, despite opposition from France and from the centre-left Social

Democrats (SPD) in Germany's current government coalition.

Germany's SPD environment minister, Barbara Hendricks, has called for an end to glyphosate use in the current four-year parliament. Both ministers are still in their jobs as caretakers but a new coalition cabinet will soon be named.

Other agricultural policies agreed for the new government include a formalization of the current ban on

growing crops containing genetically modified organisms in Germany and an expansion of organic farming, the draft deal said.

An animal welfare food label will also be introduced for meat produced using farming methods with high care standards.

The new government will oppose patents on animals or plants and will not accept cloning of animals for food production.

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TRIBUTES/MEMORIAMS 0100



COCKSHUTT, William Henry - With heavy hearts we announce the gentle passing of William Henry (Bill) Cockshutt on Wednesday, February 14th, 2018, at the age of 89. Bill leaves behind an adoring wife, Helen, his four married sons Tony (Jane), Dean (Connie), Franklin (Upama), Neal (Tania) and their families. He was an attentive husband and wonderful father and grandfather to Roger, Jan, Evan, Lisa, Bailey and April. He is also survived by his three sisters, Janice (Graham, deceased) Kneale, Barbara (Ken) Harper and Bette Ross.

Bill was a warm and thoughtful gentleman who treated those around him with respect. He was easily approachable and left a lasting impression on people of being "a great guy". Bill came from the family that developed Cockshutt Farm Equipment. He worked for the company, and in later years spent his time researching and writing several books about both the company and his family heritage. He found strength, support and companionship through the International Cockshutt Club which evolved from a club into something more like an extended family. The funeral was held on Tuesday, February 20, 2018 at WESTVIEW FUNERAL CHAPEL, 709 Wonderland Road North, London. In lieu of flowers or gifts, donations to the Parkinson Society Southwestern Ontario (www.parkinsonsociety.ca) would be greatly appreciated.

For information and online condolences, please visit www.westviewfuneralchapel.com

AIRPLANES 0400

1976 CITABRIA 7ECA, 1637 hrs., some assembly required, \$8000. 519-595-8580, Milverton, ON.

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1966 DODGE POLARA, 2 door hardtop, never been driven in winter or on gravel, all original, zero rust, exc. cond., \$9000 OBO. Call 403-548-2721, Redcliff, AB.

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BEEHIVE BOOK 1945; Planter jars; Heinz ketchup bottles; Polish & Hungarian reader books; Round window w/frame (24x24); Old CDN & US road maps; 8 Pepsi-Cola bottles; Old scratch 649 tickets; Air wave radio. 306-654-4802, Prud'Homme, SK.

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

2 SOLID MAPLE butcher blocks, (20x20x10) \$850 and (20x20x16) \$950; Round oak table, centre pedestal, \$1500; 420 piece old radio tubes, 1920's-1940's, most are new, unused, \$600 for all. Call Ron 780-603-3117, 8:00AM - 8:00PM, Vegreville, AB.

BORDER CITY COLLECTOR Show and Sale Lloydminster Stockade Convention Centre, SK-AB, Saturday March 10th, 9:00AM-5:00PM & Sunday, March 11, 10AM-4PM. Featuring: Antiques, farm toys, coins, dolls and much more! Contact Brad 780-846-2977 or Don 306-825-3584. www.bordercitycollectors.com

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ENVIRO FUEL TANK: Item to sell by auction in conjunction with Karla's Auction Sale in Springside, SK. Sunday February 25th, 2018. This item will sell at 1:00 PM sharp. 35,000 litre, double walled, split 1/3, 2/3. c/w two 3/4 HP STP pumps, a dual hose, Tokiem dispenser. Measures 23'9"x9'2" and is only 16,000 lbs. (described to the best of our knowledge). Tank is located on the east side of Karla's Auction House, 121 Railway Ave., Springside, SK. For more information please call Doug Ukrainetz, 306-647-2661 or Karla 306-621-8051.

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LORWAY DIESEL & CONSIGNORS Tool and Equipment Auction, Saturday March 3rd, 2018 at 10:00 AM. Live at 11:00 AM online. Lorway 2 post hoist; Compressors; Jacks; Tools; Machines, etc. Consignor Forklift; Salvage vehicles; Mowers; Snow-blower & more! Schmalz Auctions Center, Hwy #2 South, Prince Albert, SK. (PL 911509). Visit our website for details: www.schmalzauctions.com

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TRAILERS 1505



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2010 DAKOTA 38', all aluminum TA, \$29,800; 2010 Lode-King 28' tri-axle lead, \$24,000; A-Train wagon, \$2900, Saskatoon, SK., 306-222-2413. Pictures online www.trailerguy.ca

2008 CONVEY-ALL CST-32, 4 comp, farmer owned, 1 owner, exc. cond., air ride. semlerfarms.com 780-206-1234, Barrhead.

2010 DAKOTA 38', all aluminum TA, \$29,800; 2010 Lode-King 28' tri-axle lead, \$24,000; A-Train wagon, \$2900, Saskatoon, SK., 306-222-2413. Pictures online www.trailerguy.ca

NEW BERG'S 30' end dumps, Michels tarp, air ride, QT100 frame, 22.5 steel wheels & decal, \$39,100. 204-325-5677 Winkler, MB

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2010 DAKOTA 38', all aluminum TA, \$29,800; 2010 Lode-King 28' tri-axle lead, \$24,000; A-Train wagon, \$2900, Saskatoon, SK., 306-222-2413. Pictures online www.trailerguy.ca

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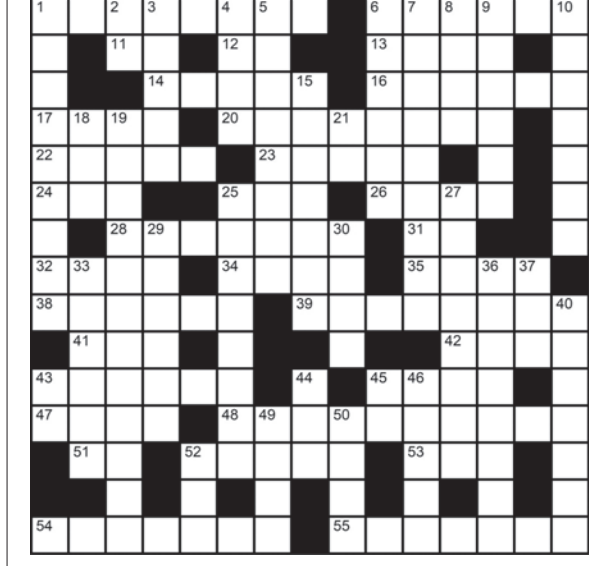
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Entertainment Crossword
 by Walter D. Feener



Last Weeks Answers

- ACROSS**
1. She starred on *Altered Carbon* on Netflix
 6. She plays Colleen on *Life in Pieces*
 11. *The Girl on the Train* (2016)
 12. Jet from *China*
 13. A *Walk in the Clouds* director
 14. *The Devil* *Prada* (2006)
 16. 1990 Stallone film (2 words)
 17. He wrote and directed *Selena* (1997)
 20. City where parts of the 1967 film *Billion Dollar Brain* was shot
 22. A *Room with a View* director
 23. She plays Penny on *The Big Bang Theory*
 24. *Kevin* *Wait* (sitcom)
 25. 2012 horror film starring Alice Eve
 26. Czech actor who played Adjutant in *The Fabulous Baron Munchausen* (1961)
 28. Television series unit
 31. Robert Downey
 32. Short-lived TV western series in 1960 starring David McLean
 34. 2004 film starring Brad Pitt and Eric Bana
 35. Detective Beckett on *Castle*
 38. *Heaven Only Knows* (1947) was her first film
 39. He played Kurt McVeigh on *The Good Wife* (2 words)
 41. *People* (1982)
 42. *Girls* (2017)
 43. 2005 film starring Keira Knightley and Mickey Rourke
 45. Esperanza who was the second wife of John Wayne
 47. *Morrow* and *Tayback*
 48. 1958 film starring Cary Grant and Ingrid Bergman
 51. Initials of the actress who starred in the 1960 Italian film *La Dolce Vita*
 52. *Our* *Brother* (2011)
 53. Doctor on a television sitcom
 54. 2008 Joshua Jackson film (2 words)
 55. Jean Harlow's real first name
- DOWN**
1. She played movie star Mavis Wald in *Marlowe* (1969)
 2. *Never Let Me* (1953)
 3. She played Fiona on *Burn Notice*
 4. *In the Valley of* (2007)
 5. She played Kim Diamond in *Book of Shadows: Blair Witch 2* (2000)
 6. Van Houten of *Game of Thrones*
 7. *Requiem for a Dream* director
 8. *Jack Reacher: Never Go* (2016)
 9. Canadian actress Bernard who stars on *Van Helsing*
 10. She played the fake Amanda Clarke/real Emily Thorne on *Revenge*
 15. *Millionaire* (2008)
 18. Humanoid robot in *Ex Machina* (2015)
 19. She played Jemima Brown in the 1975 film *The Eiger Sanction* (2 words)
 21. *And* *It Goes* (2014)
 25. 1997 TV miniseries
 27. 2007 film starring Anthony Hopkins and Ryan Gosling
 29. She played Peyton Kelly in *The Game Plan* (2007)
 30. Podell of *Defying Gravity*
 33. He plays Pastor Tim on *The Americans*
 36. He played Wade Bailey on *Hello Ladies*
 37. *The Book of* (2010)
 40. One of Kotter's Sweathogs
 43. Initials of the actress who was nominated for an Academy Award for the 1968 film *Wild in the Streets*
 44. He played Marcel in *Inglorious Basterds* (2009)
 45. Initials of the actress who was Hammer Horror's No. 1 female star
 46. Canadian who played Walker's wife, Lynne in *Point Blank* (1967)
 49. Actor Offerman
 50. *The Seven Year* (1955)
 52. *Loved You So Long* (2008)

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6 - 2006 53' Reefer Trailers, good condition, \$9500/each OBO; 2 converters, \$9000/each. 204-325-5264, Winkler MB

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1981 NEIL'S 61' double drop flat deck, snap-off neck, 36' working deck, \$7000; 1998 Trailtech tandem 12' sprayer trailer, \$8000. Call 780-221-3980, Leduc, AB.

TRUCKS

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2015 FORD F350 DIESEL, 8' box, 71,000 kms, \$53,900+GST. Call 403-638-2028, Sundre, AB.

2015 DODGE RAM 3500, crew, Longhorn, 6.7L Duramax, Aisin auto., 58,500 kms, \$59,995. Hendry's Chrysler 306-528-2171, Nokomis, SK. DL #907140.



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1975 DODGE 800, Nordic hoist, 52,000 GVW, 1200 front, 1000 rear, Lux box (18Lx4Hx8), 4x5 speed, asking \$7500. 306-423-5444, Domremy, SK.

2007 KENWORTH T800; 2005 IHC 9200; 2007 Macks. All with Eaton AutoShift, new CIM grain boxes, new Sask. safeties. Call Allan at: 306-270-6399, Saskatoon, SK. Website: 78truxsales.com DL#316542

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2007 MACK GRANITE, 380 Mack, 13 spd., heavy axles, long enough for grain box, gravel or decks, clean western truck, last year before all of the emissions \$26,000 OBO. Neil 306-231-8300, Humboldt, SK.

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GRAIN TRUCKS 1675

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2006 WESTERN STAR 4900, 500 series 60, 18 spd., 46 rears, new rear 2.4.5 rubber, fresh safety, 1.1M kms, \$49,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

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1997 CAT D6M LGP dozer, undercarriage 80%, 28" pads, 3 shank hyd. ripper, ROPS w/cage, 19,204 hrs., \$69,800. 1-800-667-4515, www.combineworld.com



2008 G940 TANDEM drive articulated, Volvo D7E eng., net 165 HP HTE 1160, shuttle auto shift trans. (11 fwd, 6 rvs), 14' mold board, 5688 hrs., \$74,800. DL#1679. Norm 204-761-7797, Brandon, MB.



2008 G940 TANDEM drive articulated, Volvo D7E eng., net 165 HP HTE 1160, shuttle auto shift trans. (11 fwd, 6 rvs), 14' mold board, 5688 hrs., \$74,800. DL#1679. Norm 204-761-7797, Brandon, MB.

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2011 JD 9770 STS, 900 sep. hrs., duals, Michel's electric topper cover, Sunnybrook concave's, Redekop chopper blades, Contour Master, shedded, Greentlight each year, 615 PU, loaded, excellent. First \$228,000. 780-208-4808, Two Hills, AB.

2013 JD S690, 757 hrs., GreenStar 3, 615P PU header, \$279,000. Humboldt, SK., 306-682-9920, www.farmworld.ca

MULTIPLE S-SERIES, 60 Series, 70 Series, & Conventional Series JD combines, field ready, very low hours, various options in exc. cond., delivery avail. 218-779-1710.

COMBINE ACCESSORIES

COMBINE HEADERS 4199

JOHN DEERE FLEX PLATFORMS: 920F-925F-930F-630F-635F. Some with air systems. Reimer Farm Equipment, #12 N, Steinbach, MB. Call Gary at 204-326-7000.



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2013 MACDON D65, 40', double knife, split PU reel, CA25 CR/CX adaptor, now \$65,000. Humboldt, SK., 306-682-9920, www.farmworld.ca



2013 MACDON FD75 35' flex draper, transport, pea auger, AHHC, tilt. For JD, CNH, AGCO and Claas available, \$69,900. 1-800-667-4515, www.combineworld.com

AGCO GLEANER-MF FLEX PLATFORMS: 500 25'-30'; 800 25'-30'; 8200 30'-35'. Some with air systems. Gary Reimer, 204-326-7000, Reimer Farm Equipment, Hwy.#12 North, Steinbach, MB.

NEW HEADER TRANSPORTS 30'-42': 30' ESB 30 Arc Fab, \$30,000; 36' SB 36 w/doly, \$4950; 36' Mankota 36', lights, brakes, \$5450; 42' Harvest International 3842, brakes, lights, \$7500. Reimer Farm Equipment, Hwy. #12 N, Steinbach, MB. Call Gary at 204-326-7000.

2003 NH/HB 94C 30' rigid draper, PU reels, hyd. F/A transport, for CR/CX/AFX; other kits available, \$19,800. 1-800-667-4515, www.combineworld.com

2008 MACDON FD70 35', JD adapter, single knife, transport, pea auger, AHHC, tilt, well maintained. 306-220-1229, Imperial, SK.

CIH FLEX PLATFORMS: 1020 20'-25'-30'; 2020 25'-30'-35'; 3020 25'-30'-35'. Some with air systems. Call Gary Reimer, 204-326-7000, Reimer Farm Equipment, Hwy.#12 North, Steinbach, MB.

NEW HOLLAND FLEX PLATFORMS: 74C 30'-35'; 973 25'-30'; 740 CF 30'-35'. Some with air systems. Call Gary Reimer, 204-326-7000, Reimer Farm Equipment, Hwy.#12 North, Steinbach, MB.

LATE MODEL CLASS/LEXION, MacDon, CIH, NH & JD flex heads and flex drapers. Call 218-779-1710. Delivery available.

JD FLEX PLATFORMS: 922 - 925 w/wo air; 630F - 635F w/wo air reel. CIH Flex Platforms: 1020 25' w/wo air reel - 30' w/wo air reel; 2020 30' w/wo air reel - 35'; 3020 30' - 35'. NH Flex: 973 25' - 30'; 74C 30' - 35'; 740CF 30' air reel. AGCO Flex Platforms: 500 25' - 30'; 800 25' w/wo air reel - 30'; 8000 25' - 30'; 8200 35'. After season specials including free delivery in spring with deposit. We also have header transports starting at \$3000 for new 30' w/flex bar kit. Reimer Farm Equipment, #12 N, Steinbach, MB. Call Gary at 204-326-7000.

2010 MD FD70, 40' flex draper, pea auger, DKD, transport, AHHC, tilt, very good condition, for CNH; JD, Lexion and Agco available, \$59,800. Call 1-800-667-4515, www.combineworld.com

2008 MACDON PW7 16', good belts, nice cond., for JD STS combines, \$16,900. 1-800-667-4515, www.combineworld.com

COMBINE HEADERS 4199

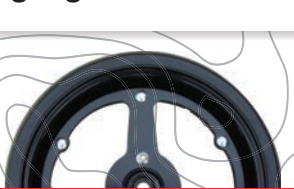
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PT SPRAYERS 4238

FLEXI-COIL 67XL, 1200 gal., w/rinse tank, triple nozzles, autorate, windscreens, disc marker, \$4800. 306-937-2890, Cando, SK.

SP SPRAYERS 4241

1998 CASE/IH SPX3185 90', 2 sets tires Stk: 017817, \$79,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2015 CASE/IH 4440 120' AIM, AutoBoom, AccuBoom, Pro 700 Stk: 023153 \$475,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

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2011 ROGATOR 1396, 132' alum. recirculating boom, 1300 SS tank, Raven Viper Pro, Raven SmartTrax steering w/slingshot, AccuBoom sec. control, AutoBoom height control, HID lighting, DeKoning air lift crop dividers, 2 sets of Michelin tires, 1 owner. 204-937-3429, 204-937-7047, Roblin, MB.

2013 CASE/IH 3330 high clearance sprayer. Has active suspension, sectional control, AutoBoom height, 100' boom, 2 sets of tires, crop dividers, Outback S3, leather interior, 580 engine hours. Mint condition, bought new, always stored inside. Rented farm out. \$255,000 OBO. 204-662-4474, or 204-851-0211, Antler, SK.

2013 NH GUARDIAN SP240FXR, 100', 1200 litre SS tank, IntelliView IV monitor, luxury cab, 6.7L Cummins, 275 HP, very low hrs (approx. 450), \$300,000 OBO. 306-524-2109, 306-746-7422, Semans, SK

2013 JD 4940 120', BoomTrac, sect. control, AutoSteer, 2630 monitor, Stk: 02415, \$240,000. 1-888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2005 SPRA-COUPÉ 7650, 90' boom, 725 gal., new tires, shedded, 3 way nozzle body, \$69,000 OBO. Eston, SK., 306-962-3934, 306-962-7888, robib@sasktel.net

2010 JD 4830, 100' booms, 1000 gal. tank, AutoSteer, Swath Pro, AutoBoom St: 021520, \$215,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

1994 PATRIOT 150XL, 3438 hrs., 750 gal., 70' JD 4.5L, decent affordable sprayer! \$24,800. Call 1-800-667-4515 or visit www.combineworld.com

FLOAT TIRES TO FIT newer model JD high clearance, 850/55R42, 2 yrs old, vg cond, \$18,000. 306-741-7743, Swift Current, SK.



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2014 CASE 4430, \$270,000, 2035 engine hours, 120' boom, AIM, Viper Pro, fan reverser, 2 sets of tires, dividers, loaded, exc. cond., 306-398-7677, Cutknife, SK.

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2006 SPRAY-AIR 3600-90TS Trident, 90' booms, 4920L tank, 12.4R46 tires, good tubes & booms, SCS 440 controller, \$9900. Call 1-800-667-4515 or visit: www.combineworld.com

FLOATER TIRES: Factory rims & tires: JD 4045, 710/60R46, \$20,500; 800/55R46, \$22,500; JD 4038, Case 4420, 650/65R38 Michelin tires and rims. Sprayer duals available. 306-697-2856, Grenfell, SK.

TILLAGE/SEEDING

AIR DRILLS 4250

2006 JD 1820, 61', 12" space, single shoot, steel packers, new hoses, all dual wheels, excellent cond., \$19,500; JD 1900 air tank, single shoot, loading auger, excellent cond., \$22,500 or \$39,500 for both. Call 306-861-4592, Fillmore, SK.

2015 SEED HAWK 84-12 84' 12" spacing, steel seed and fertilizer knives, Stk: 022334, \$352,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2007 JOHN DEERE 1820 45' air seeder w/JD 1910 350 bu. air cart, 7" spacing, 650 lb. trips, 2" carbide tips, 3" rubber packers, shedded, asking \$52,000. Call 204-733-2324, Ste. Rose Du Lac, MB.

2012 BOURGAULT 3320 QDA 66', 10" sp., c/w L6550 tank, MRB, NH3 kit, duals Stk: 02317, \$295,000. Call 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2010 JD 1830, 61' on 7.5" spacing, 3" rubber packers, 1930 tank, 430 bu., TBH, blockage sensors, \$52,000. 204-648-7129, Grandview, MB.

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.

FLEXI-COIL 6000 seeder, 10" spacing, DS, needs some repairs; Also Flexi-Coil 2340 seed tank, as new, always shedded, 2 compartments. Will sell together or separate. Offers: 780-349-2798, Westlock, AB.

AIR DRILLS 4250

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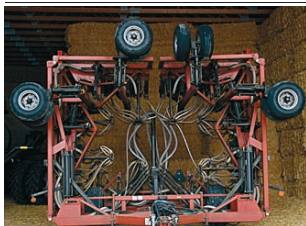
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FLEXI-COIL 5000 51', 9", w/2320, 4" rubber packers, in-row liquid phos. \$16,500 OBO. 306-690-8105, Moose Jaw, SK.



2004 CASE/IH 5000 double disk air drill, 50', 6" spacing, asking \$28,000 USD. Bill 204-746-5126, Dufrost, MB.

2010 SEEDMASTER 72-12 72', 12" space, JD 1910 air cart, 3-tank metering, Stk: 020958, \$132,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

FLEXI-COIL 1720 TBH air cart, good condition, stored inside, \$6000. 306-436-4426, Milestone, SK.

2012 BOURGAULT 3320 QDA 66', 10" sp., c/w L6550 tank, MRB, NH3 kit, duals Stk: 02317, \$295,000. Call 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2009 SEEDMASTER 60-12 60', 12" spacing, DS, new manifold, new hoses, vg cond., \$68,000 or w/JD 1910 air tank, \$115,000. 306-861-4592, Fillmore, SK.

2000 BOURGAULT 8810, 32' with 2135 air cart on row gang packers, harrows, Flexi-Coil markers, knife openers, knock-on sweeps. 306-867-8477, Outlook, SK.

2010 BOURGAULT L6550 3 tank metering, now \$95,000. Humboldt, SK., 306-682-9920, www.farmworld.ca

2010 JOHN DEERE 1830 61', 10" sp, DS dry, Poirier openers, Alpine liquid kit Stk: 023964, \$67,500. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2013 K-HART DISC DRILL & CIH 3850 Air Cart, 66', 10" spacing, \$235,000. 306-463-7740, Dodsland, SK., greschnerfarm@gmail.com

FLEXI-COIL 5000, 33', 9" spacing, DS, 3.5" steel packers, 3" paired row openers, 1720 air tank with 7" auger, 306-836-4613, Simpson, SK.

2013 SEED HAWK 60-12 60', twin wing, semi pneumatic packers, DD, SH 800 TBH, Stk 017840, \$335,000. Prince Albert, SK., 1-888-905-7010. www.redheadequipment.ca

2010 SEED HAWK, 40', 12" spacing, liquid kit, w/340 bu. JD 1910 cart, \$112,000 OBO; Pattison 2100 gal. liquid fert. cart, \$23,500. 306-698-7787, Wolesey, SK.

2009 SEED HAWK 66-12 66', 12" sp., single knife, pneum. pkrs, 30.8 rear tires, Stk: 021475, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

AIR DRILLS 4250

2009 SEED HAWK 66', 12" spacing, single knife, only 1 season on new knives, 600 bu. TBH tank, 30.8 rear tires, always shedded, field ready, \$160,000. 780-812-4471, Bonnyville, AB.

2001 JOHN DEERE 1820, 54', 10" spacing, 3/4" Bourgault knives, 1900 340 bu. cart, \$24,000 OBO. 306-291-9413 Aberdeen, SK

2009 SEED HAWK 72-12 72', 12" sp., twin wing, pneum. packers, 600 TB cart, Stk: 021477, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2015 BOURGAULT 60' 3320 QDA, Devloo mud scrapers, DS, 5.4" semi-pneumatic packers, 10" spacing, Bourgault side band boots, shedded, exc. cond., \$165,000 OBO. 204-937-7184, Roblin, MB.

CONCORD 56', 12" spacing, Bourgault 3" paired row tips, duals on wings, scraper on each packer wheels, exc. cond., \$14,500; 3400 Concord tank, \$9500, or both for \$22,000 OBO. 306-861-4592, Fillmore, SK.

2011 BOURGAULT L6450 3 tank metering, 900/60R32 tires, bolt on duals 520/85R38, now \$65,000. Humboldt, SK., 306-682-9920, www.farmworld.ca

2010 JOHN DEERE 1830 61', 10" sp, DS dry, Poirier openers, Alpine liquid kit Stk: 023964, \$67,500. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2009 SEED HAWK 66-12 66', 12" sp., single knife, pneum. pkrs, 30.8 rear tires, Stk: 021475, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2006 BOURGAULT 5710 40' 9.8" spacing, steel packers, 6200 Stk: 020500, Cart \$60,000. www.redheadequipment.ca or 1-888-905-7010, Swift Current, SK.

2000 FLEXI-COIL, 40', 9.7" spacing, double shoot, carbide tips, 3" rubber packers, set up for TBH cart, \$22,000. 204-734-8125, Swan River, MB.

2008 SEEDMASTER TXB 66-12, 66', 12" spacing, dual wheels, double shoot, all new manifold and new hoses, mint cond., \$78,000, or \$125,000 with JD 1910 air tank. 306-861-4592, Fillmore, SK.

FLEXI-COIL 5000, 39', 9" spacing, like new 3" paired row DS dry, Atom jet knives, 4" steel packers w/extra set of spare packers, good hoses and tires, field ready, \$11,000. 306-795-7066, Ituna, SK.

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

21' EDWARDS hoe drill, Bourgault air tank, eng. fan drive, liquid fert., 7.5" spacing, steel packers, \$7500 OBO, 204-476-6907.

2011 BOURGAULT 5810 & 2005 6450 tank, 62', 10" spacing, 3.5" packers. Variable rate liquid kit, low acres, exc. cond., \$145,000 OBO. Call 306-529-2871, Southey, SK.

2012 BOURGAULT 6550 seed tank, 4 tanks, 3 meters, poly augers, \$82,000. 306-472-7642, Laffèche, SK.

33' FLEXI-COIL, 550 shanks, 12" spacing, DS, 1720 tank, Poirier boots, \$2000 worth of extra new boots, shedded, low acres. 306-877-2014, 306-745-7505, Dubuc, SK.

WANTED: 2000 OR NEWER Flexi-Coil 40' to 45' air drill and TBH cart, 7" spacing. Call 780-841-9594, La Crete, AB.

2010 CASE/IH ATX700 70', rubber packers, high float tires, double shoot, Stk: 020407, \$94,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2010 CASE/IH ATX700 70', rubber packers, high float tires, double shoot, Stk: 020407, \$94,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

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.

2011 SEED HAWK 50' toolbar, 12" spacing, w/600 cart, dual wheels, auger and bag lift, \$225,000; 2010 Seed Hawk 66' toolbar, 12" spacing, w/400 + Seed Hawk seed cart, 2 fans, seed and fertilizer kit, also NH kit, \$175,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2011 SEED HAWK 50' toolbar, 12" spacing, w/600 cart, dual wheels, auger and bag lift, \$225,000; 2010 Seed Hawk 66' toolbar, 12" spacing, w/400 + Seed Hawk seed cart, 2 fans, seed and fertilizer kit, also NH kit, \$175,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 BG 3310PHD, 10" spacing 4.5", DS air kit, leading air kit 6000 Series, 1/2" hyd. couplers, now \$95,000. Humboldt, SK., 306-682-9920, www.farmworld.ca

FLEXI-COIL 2320 TBH air tank, double shoot, excellent condition, \$11,500 OBO. 306-861-4592, Fillmore, SK.

2013 SEED HAWK 60-12 60', twin wing, semi pneumatic packers, DD, SH 800 TBH, Stk 017840, \$335,000. Prince Albert, SK., 1-888-905-7010. www.redheadequipment.ca

2011 BOURGAULT 3310, 74', 12" spacings, MRS, 6550 tank, X20 monitor, duals, bag lift, 2 fans, 1 high capacity fan, cameras, Capstan NH3 kit, sectional control, \$165,000. 204-748-8156, Elkhorn, MB.

2008 SEEDMASTER 8012, 2004 NH 430 tank, 3 compartments with 5 rollers, Raven NH3, \$79,000 OBO. 306-272-7225, Foam Lake, SK.

2010 JD 1830 drill, 61' 10" spacing, w/430 bu. 1910 grain cart, duals, double shoot, \$69,000 OBO. 306-552-4905, Eyebrow, SK.

2006 BOURGAULT 5710 40' 9.8" spacing, steel packers, 6200 Stk: 020500, Cart \$60,000. www.redheadequipment.ca or 1-888-905-7010, Swift Current, SK.

AIR SEEDERS 4253

2009 SEEDMASTER, 4 product VR, 50', 12" 8370XL 440 bu. Morris TBH, 1600 liq. cart, Raven monitor, \$155,000. For more info, call Arne at 306-335-7494. Lemberg, SK.

NH3 CONVERSION KIT/PUMP Fits 66' Bourgault air seeder, \$13,000. Call Phil Stewart, 780-813-0131, Vermilion, AB.

AIR SEEDERS 4253

40' BOURGAULT 36-42 AIR SEEDER, 8" spacing, with 3225 tank, QA, on row packers, \$13,000. 306-567-8614, Davidson, SK.

2008 BOURGAULT 6350, 2 fans, 3 TM, \$46,000 OBO. Call 306-563-8482.



2009 SEEDMASTER 6912, expandable to 80', 300 bu. on frame w/tracks; Bourgault 6550 tank, many extras, CTF ready. 780-206-1234, Barrhead, AB.

BOURGAULT 40' w/harrows, packers and granular app., 3225 tank, has 3rd tank, field ready, \$20,000. 306-937-2890 Cando.

2015 JD 1910 TBH art cart. Has 650 duals, hydraulic variable rate, sectional control capability, 10" remote hydraulic auger with conveyor flip out. Only did 6000 acres, always shedded, new condition. Rented farm out. \$98,000 OBO. Call 204-662-4474, or 204-851-0211, Antler, SK.

MORRIS 7180 air tank, new meter body on fert. tank, good hoses & recent loading auger, \$5000. 306-276-7788, 306-769-8887 Arborfield, SK. brevie@live.ca

HARROWS/PACKERS 4256

NEW AND USED land rollers - all sizes. D&H Equipment, Bow Island, AB. 403-580-6889.

WANTED: SYSTEM 75 Flexi-Coil packer bar. Please call 306-488-2109, Regina, SK. jonmitch@westnet.com.au

2017 DEMO 80' Degelman landroller. Odessa Rockpicker Sales, 306-957-4403 or 306-536-5097, Odessa, SK.



2016 DEGELMAN HEAVY harrow, 84', barely used. \$47,500 OBO. 306-563-8765, Canora, SK.

SEEDING VARIOUS 4259

DEGELMAN 45' LAND ROLLER, \$33,900; Flexi-Coil 3450 seeder, variable rate, \$29,500; Hi Line 50' jumbo heavy harrow, \$28,700; Hi Line 60' harrow packer, \$4500; Bourgault packer wheels, \$100 per foot; Brandt 15x45 conveyor, gas and elec., \$24,500. Pro Ag Sales, call anytime 306-441-2030, North Battleford, SK.

JOHN DEERE 7000 8-row corn planter, \$4500. 306-768-7726, Carrot River, SK.

TILLAGE EQUIPMENT 4262

7 SERIES MORRIS, brand new HoneyBee trade rod, needs shovels, \$3500. Willing to trade for smaller 7 series Morris cultivator. 306-460-9027, Flaxcombe, SK.

BREAKING DISCS: KEWANEE, 15' and 12'; Rome 12'; Townler 16-18'; Wishek 18' and 30'. 1-866-938-8537.

50 - 1444 DUTCH 2" carbide openers to fit Bourgault drills, used approx. 3000 acres, \$50 each. 403-321-2105, Blackie, AB.

42' BOURGAULT 9800 chisel plow, HD double spring, w/4-bar heavy harrow, \$29,500 CAD OBO. 218-779-1710. Delivery avail.

TILLAGE/SEEDING VARIOUS 4265

60' EXCEL LAND ROLLER w/5 plex rollers, great for following the land contour. Like new, \$60,000. Arborfield SK 306-276-7788 or 306-769-8887. Email: brevie@live.ca

BOURGAULT 3195 TANK, w/monitor, loading auger, \$5000. Call 306-937-2890, Cando, SK.

WANTED: USED K-HART air drill, with or without cart. Call Jim at 306-882-5101, Darcy, SK.

NEW SEED BOOTS and fertilizer openers for SeedMaster drill. Plus various other parts. 306-547-7235, Sturgis, SK.



TRACTORS

WHITE 4280

M5 MM DIESEL TRACTOR, runs good and has good rubber, \$2500. 306-395-2668, or Cell: 306-681-7610, Chaplin, SK.

JOHN DEERE 4295

2017 JOHN DEERE 6120M with new 623R loader, 24/24 PowrQuad plus trans. 40 km/h, 623R loader w/grapple bucket, 520/70R38 and 480/70R24 front tires, cab suspension, 3 remotes, 30 gal. PFC pump, rear 3 PTH w/fender control, 540/540E/1000 RPM, PTO w/fender switch, comes with 12 month powertrain warranty, \$119,500. 403-638-1904, Sundre, AB.

2013 JD 9410R PS, 1480 hrs., 1000 PTO, high-flow w/5 remotes, leather trim, premium HID lights, 620/70R42's w/duals, \$199,500 USD. www.ms-diversified.com Call 320-848-2496 or 320-894-6560.

JOHN DEERE 2130 yard tractor, all new rubber all around, open station, \$8500. 306-726-8137, Cupar, SK.

2003 JD 7420, MFWD, rear inner wheel weights, 3 remotes, 741 self-leveilling loader w/grapple, IVT trans., 9550 hrs., \$75,000. 204-648-7129, Grandview, MB.

2005 JD 7220, IVT trans., 3 PTH, 741 loader/grapple, \$52,000; JD 7710, FWD, LHR, 3 PTH, JD 740 loader/grapple avail. 780-674-5516, 780-305-7152 Barrhead AB

REDUCED PRICE! 1983 JD 4450 MFWD w/Ezee-On FEL 2130 grapple, 15 spd. PS, 3 hds., 7925 hrs. showing, 14.9-26F, 20.8R38, duals available, 306-283-4747, 306-291-9395. Langham, SK.

2011 JD 9530T, 18 spd. PS, 36" tracks, 4 hds. plus return line, front weights, end idler weights, AutoTrac ready, mint cond., \$175,000. 306-861-4592, Fillmore, SK.

3 SISTERS: JD 4000; JD 4010; JD 4020 with identical cabs, restoration project partially completed. Call or text cell 306-741-1523, Pennant, SK.

2017 JD 6175R, H380 loader w/grapple, 85 hrs., IVT, Triple Link, \$159,500 USD; 2016 JD 6155R, 640R loader w/grapple, 348 hrs., IVT (50K), Triple Link, AutoTrac \$144,500 USD. Call 320-848-2496 or 320-894-6560, www.ms-diversified.com

JOHN DEERE 4650, 160 HR 5200 original hrs., 20.8x38 duals, insides near new, very clean solid tractor. Low hour value at \$25,000. 204-729-5162, Brandon, MB.

2009 JOHN DEERE 9430, 4WD, 425 HR 24 spd., 4 hds., 710/70R42 duals, 4300 hrs., original owner, nice condition, asking \$175,000. 306-725-4286, Bulyea, SK.



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JOHN DEERE 4295

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2011 JD 9530 4WD, 1580 hours, clean, one owner tractor since new, shedded, inner wheel weights, GPS ready and available, 800 Firestone metrics, big hyd. pump, \$245,000 OBO; 2009 9530 4WD tractor, inner weights, GPS ready, 800 Michelin metrics, shedded, \$195,000 OBO. Call Neil 306-231-8300, Humboldt, SK.

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2014 JOHN DEERE 4730, 110 hrs., 800 gal. tank, 100 booms, next to new condition, \$270,000. 403-704-3537, Ponoka, AB

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1993 JD 8870, 7305 hrs., 20.8x42 Firestone radials, LED lights all around, 12 speed, asking \$65,000. 306-989-4332, cell: 306-960-2160, Paddockwood, SK.

JOHN DEERE 4295



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NEW HOLLAND 4304

1997 NEW HOLLAND 9682, 5150 hrs., \$67,500. 780-352-4911 or 780-361-7910, Wetaskiwin, AB.

1998 NH 9682 4WD, 710 duals, mint condition, \$75,000 OBO. 306-277-4503, Gronlid, SK.

2013 NH TV6070, loader/bucket/grapple, 4100 hrs., very good condition, \$100,500. Please call 306-263-3232, Tyvan, SK. Email: youngslandc@gmail.com

2004 NH TJ375, 4 WD, 3980 hrs., deluxe cab, Goodyear 710/70R42 tires at 70%, 55GPM, 4 remotes, standard trans., HID lights, Outback AutoSteer w/STX monitor, always shedded, exc. cond., \$152,000 OBO. 306-644-4703, Loreburn, SK.

2005 NEW HOLLAND TG210, 5600 hrs., Powershift, rear duals, \$59,000. 204-921-0233, Roseton, MB.

FORD 4307

1989 TW35 FWA, c/w Leon HD FEL, bucket, grapple, joystick. Call 780-847-2148, 780-872-2832, Tullyby Lake, AB.

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1979 UNIMOG 406 Case MB4-94, 1400 hrs, 5600 mi, 20 spd. trans., disc brakes, front & rear 540-1000 PTO, high volume hds., c/w Schmidt VF3C snowblower w/840 hrs. on OM352A turbo, 1600 tons/hr; Schmidt angled snowplow; Schmidt loader bucket; Case Extend-a-hoe; and Case dozer blade. Will separate. Everything works great, \$55,000 OBO complete. Call 204-748-2454, Virden, MB.

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1702	MT. VANIER	1586	\$211,541	\$203,500
1730	MT. RAE	1356	\$168,054	\$161,000
1725	MT. AVERILL	1128	\$131,110	\$125,000
1721	MT. TAYLOR	1176	\$124,172	\$118,000
1741	THE KOMRIE	1232	\$155,158	\$148,800
1746	MT. EDITH CAVELL	1541	\$188,108	\$180,000
1742	MT. ASSINIBOINE	1582	\$215,142	\$207,000
1749	MT. ASSINIBOINE	1430	\$184,512	\$177,000
1752	MT. FOSTER *finished	1702	\$290,193	\$281,500
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- 1995 Flexi-Coil 5000**, 57 Ft, 9" Spacing, 3.5" Spw, 2320 TBT Cart, New Auger & Hopper, Stk: 017438 (SC) ~~WAS \$37,500~~ **NOW \$18,500**
- 2008 New Holland SD550**, 60 Ft, 10" Spacing, DS Dry, Atom Jet Openers, SC430 TBT Cart, 430 Bu, Var Rate, Duals, Stk: 023331 (SA) ~~WAS \$49,900~~ **NOW \$39,900**
- 2003 Bourgault 5710**, 64 Ft, 9.8" Spacing, 3" Rubber Packers, Single Shoot, 5350 Tank, Stk: 37529C (LL) ~~WAS \$89,800~~ **NOW \$42,900**
- 2009 Seed Hawk 80-10**, 80 Ft, 10" Spacing, DS Dry, Viper Sectional Control, Agtron Blockage, Stk: 020802 (SC) ~~WAS \$220,000~~ **NOW \$190,000**
- 2012 Bourgault 3320 QDA**, 76 Ft, 10", Fact. Blockage, 4.5" Packers, MRB III, L6550ST TBT Cart, 4 Tank Metering, Duals, Auger, 591 Monitor, Stk: 023731 (SC) ~~WAS \$372,500~~ **NOW \$295,500**
- 2006 Bourgault 5710**, 40 Ft, 9.8" Spacing, Steel Packers, 6200 Cart, Single Fan, Splitter, Stk: 020500 (SC) ~~WAS \$60,000~~ **NOW \$42,000**
- 2010 Case-IH ATX700**, 70 Ft, Rubber Packers, High Float Tires, Double Shoot, Dutch Openers, 3430 TBH Cart, 30.5/32 Duals, VR Cart, ISO Bus, Stk: 020407 (SC) ~~WAS \$94,000~~ **NOW \$73,000**
- 2009 Seed Hawk 72-12**, 72 Ft, 12" Spacing, Twin Wing, Pneum Pkrs, 600 TBT Cart, 10 Inch Auger, VR Hyd Drive, Viper Pro Monitor, SCT, Duals, Stk: 021477 (PA) ~~WAS \$205,000~~ **NOW \$179,000**
- 2010 SeedMaster 72-12**, 72 Ft, 12" Spacing, JD 1910 Air Cart, 3 Tank Metering, Stk: 020958 (SC) ~~WAS \$132,000~~ **NOW \$98,000**
- 2012 Case-IH PH800**, 70 Ft, 12" Spacing, DS Dry, 3430 TBH Cart, Stk: 020409 (SC) ~~WAS \$120,000~~ **NOW \$89,000**
- 2008 New Holland SD550**, 60 Ft, 10" Sp, 3.5" Pkrs, DS Dry, Atom Jet Triple Shoot, SC430 TBT, Var Rate, Duals, Stk: 023331 (SA) ~~WAS \$49,900~~ **NOW \$39,900**
- 2007 Flexi-Coil 5000HD**, 57 Ft, DS Dry, Blockage, Stealth Paired Row, '10 CIH 3430 TBT, VR, Auger, Dual Fans, DS, ISO Ready, Stk: 020648(ES) ~~WAS \$75,000~~ **NOW \$55,000**

SPRAYERS

- 2016 Case IH 4440**, 120 Ft, AIM Pro, Active Susp, Pro 700, AccuGuide, AccuBoom, AutoBoom, Front Fill, Wide Fenders, Trelleborg 710s, Stk: 022565 (SA) **\$495,000**
- 2013 Case IH 4430**, 120 Ft, Lux Cab, Active Susp, HID lights, AutoBoom, AccuBoom, Viper Pro Monitor, AIM, 380 Duals, Stk: 022733 (SC) ~~\$323,000~~ **\$279,000**
- 2013 Case IH 4430**, 100 Ft, Deluxe Cab, AIM, Pro 700, 372 Receiver, 2 Sets Of Tires, HID Lights, AutoBoom, AccuBoom, Stk:024786 (SC) **\$305,000**
- 2008 Case IH 4420**, 120 Ft, Dlx Cab, New 650s, HID Lights, Ag Leader Insight, AutoBoom, AccuBoom, Fan Reverser, Stk: 021025 (ME) ~~\$217,000~~ **\$185,600**
- 2009 Case IH 4420**, 100 Ft, AIM, 1200 Gallon, Norac Boom Height Control, Sectional Control, Autopilot, 380s & 520s, Ag Leader Monitor, Stk: 020576 (ES) **\$199,500**
- 2013 Case IH 3330**, 100 Ft, 380 & 650 Tires, Active Susp, Front Fill, AIM Command, Deluxe HID Lighting, AccuBoom, AutoBoom, Stk: 022510 (SA) ~~\$249,900~~ **\$219,900**
- 2000 Case IH SPX2130**, 78 Ft, Auto Steer, 2 Sets of Tires, 660 Gallons, Stk: 024745, (SA) **\$69,900**
- 2014 Case IH 4530 Floater**, 70 Ft, Lux Cab, Power Mirrors, Deluxe HID Lights, Fenders, Double 6" Auger 50 CF, Viper 4 Monitor, 1550 Hours, Stk: 024242 (SC) **\$320,000**
- 2011 Case IH 3230**, 100 Ft, Dlx Cab, Active Susp, HID Lights, Pro 600, AccuGuide, Fenders, AccuBoom, AutoBoom, Stk: 028123A (LL) **\$229,000**
- 2010 John Deere 4830**, 100 Ft, 1000 Gallon Tank, AutoSteer, Swath Pro, AutoBoom, 2 Sets Of Tires, Crop Dividers, Stk: 021520 (SA) ~~\$215,000~~ **\$169,000**
- 2014 New Holland SP240F**, 120 Ft, 1200 Gal SS Tank, Intelliview IV Monitor, AccuBoom, AutoBoom, 2 Sets of Tires, Stk: 024111 (LL) **\$299,000**
- 2009 Apache AS1010**, 100 Ft, 1000 Gal, Raven Control & GPS, 5 Way Nozzle Bodies, 1800 Hrs, Stk: 026632 (SC) **\$94,500**
- 1998 RoGator 854**, 100 Ft, 800 Gal SS Tank, Ez-Guide Auto Steer, Rate Controller, Rinse Tank, Stk: 023420 (LL) **\$49,000**

TRACTORS

- 2014 Case IH Steiger 620 Quadtrac** Luxury Cab, PTO, Twin Flow Hyd, 36" Tracks, 6 Remotes, Pro 700, AccuGuide, HID Lights. Stk: 025032 (ME) **\$489,000**
- 2015 Case IH Steiger 540** 800 Duals, AccuGuide, 6 Remotes, PTO, HID Lights, @ Hyd Pumps, Weight Pkg.. Stk: 016410A (LL) **\$429,000**
- 2016 Case IH Steiger 580 Quadtrac** Lux Cab, LED Lights, Pro 700, AccuGuide, 2 Hyd Pumps, 6 Remotes, PTO, 36" Tracks, Tow Cable. Stk: 022922 (SC) **\$565,000**
- 2016 Case IH Steiger 500** 520 Triples, Deluxe Cab, HID Lights, AccuGuide, Pro 700, 4 Remotes, Hi-Cap Hyd, 342 hours. Stk: 023022 (SC) **\$380,000**
- 2016 Case IH Steiger 420** 520 Triples, Deluxe Cab, HID Lights, Pro 700, AccuGuide, 4 Remotes, High Capacity Hyd, PTO. Stk: 023173 (SC) ~~\$379,000~~ **\$359,000**

- 2015 Case IH Magnum 220** L785 FEL, HID Lighting, Lux Cab, 4 Remotes, 3 Pt Hitch, 200 Amp Alternator. Stk: 024338 (SA) **\$255,000**
- 2016 Case IH Puma 165**, MFD, Alo Q68 FEL, Joystick, Cab Suspension, Fenders. Stk: 023306 (SC) **\$189,000**
- 2012 John Deere 9510RT** 36" Tracks, Leather Seat, 4 Remotes, SF2 GPS, GreenStar Display, High Capacity Hyd 58 GPM, 2070 hours. Stk: 024350 (SC) **\$350,000**
- 2013 New Holland T9.615** 36" High Idler, Lux Cab, HID Lights, GPS AutoGuidance, Twin Pump Hyd, Radar, PTO, 2700 hours. Stk: 025507 (SC) **\$410,000**



\$488,000
2015 Case IH Patriot 4440
 120 Ft, 320s & 710s, AIM Pro, Dlx HID Lights, Pro 700, AccuGuide, Fenders. Stk: 019638 (ME)



\$199,500
2009 Case IH Patriot 4420
 100 Ft, AIM, Norac AutoBoom, Ag Leader Monitor, AutoPilot, Sec. Control. Stk: 020576 (ES)



\$315,000
2013 Case IH Patriot 4430
 120 Ft, Lux Cab, Active Susp, Viper Pro Monitor, SmarTrax, 380s & 650s. Stk: 025178 (SC)

* Finance Terms: O.A.C. Certain conditions apply. Offer subject to change and cancellation at any time.

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195 Hrs, 120' Boom, Aim Command, 5-Way Nozzles, Luxury Cab, Guidance



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862997

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2501 Hrs, 30" Tracks, Hi-Flo Hydraulics, FULL AMS



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833 Hrs, 620HP, 800 Duals, Power Shift, High Flow Hydraulics, PTO, Active Command Steering



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FARM WORLD . CA

HN3683A (H)

NOW \$239K!

2012 NEW HOLLAND CX8090
1234SHRS, 490HP, 350BU, CAST CONV, THRESHING DRUM, 520/85R42 DUAL FRONT TIRES, 600/65R28 REAR TIRES, GRID HEATER, 24" AUGER, NH372 ANTENNA UNLOCKED HP/XP, 15' 790CP HEADER

N22725C (K)

NOW \$255K!

2013 JOHN DEERE S680
847SHRS, LIGHTING HID, POWERCAST POWERED TAILBOARD, POWER FOLD GRAIN TANK COVER, 520/85R42 DUALS, 23 1R26 REAR TIRES 615P HEADER

HN3467C (H)

NOW \$129K!

2007 NEW HOLLAND CR9070
1616SHRS, 16' SWATHMASTER 76C, YIELD & MOISTURE, DUAL TIRES, MAV STRAW CHOPPER CALMAR DOWNSPOUT

PN3488A (PA)

NOW \$279K!

2013 JOHN DEERE S690
757SHRS, GREENSTAR 3, LIGHTING HID, POWERCAST POWERED TAILBOARD, POWER FOLD GRAIN TANK COVERS, 615 P PICKUP HEADER

PN3546A (PA)

NOW \$309K!

2014 NEW HOLLAND CR9090
1056SHRS, 790CP 15' P-UP, 80MM LIFT CYLINDERS, AXLE EXT, EXT WEAR ELEVATOR, LEATHER, VARIABLE HYD, MICHELS CVR, REDEKOP WIDE CHOPPER, ASP STONE PROTECTION, SMALL GRAIN TWIN PITCH

N23029A (K)

NOW \$279K!

2014 JOHN DEERE S680
732SHRS, 520/85R42 DUALS - 750 REARS, POWER FOLD GRAIN TANK COVER, JD AUTO STEER, 615P PICK UP HEADER (15'), FINE CUT CHOPPER, 400 BUSHEL HOPPER, 473 HP

HN3692A (H)

NOW \$299K!

2014 NEW HOLLAND CR9090
1064SHRS, 57 HP, 355 BU, IN CAB ELEC COVERS, 21" AUGER, 620/70R42 DUAL TIRES, ADJ ABRASIVE VANES ROTOR COVERS, AUTOGUIDANCE NAVII / AUTOSTEER, AXLE EXTENSIONS & DIFF LOCK, GPS 262 ANTENNA

HN3688A (H)

NOW \$299K!

2014 NEW HOLLAND CR9090
1129SHRS, 571HP, 355 BU, IN CAB ELEC COVERS 21" AUGER, MECH STONE TRAP, 20/70R42 DUAL TIRES, ADJ ABRASIVE VANES ROTOR COVERS, AUTOGUIDANCE NAVII / AUTOSTEER, AXLE EXTENSIONS

PN3518B (K)

NOW \$229K!

2011 NEW HOLLAND CR9080
1050SHRS, 483HP, 350BU, ABRASIVE CROP GRAIN HANDLING & UNLDG SYSTEM, AUTOGUIDANCE NAVII W/GPS, AXLE DIFF LOCK, DUAL TIRES 620/70R42, LEATHER, SMALL GRAIN, RED CHOPPER, MICHELS CVR

PN3516A (PA)

NOW \$419K!

2015 NEW HOLLAND CR9.90
581SHRS, 410BU, 15' 790CP, ABR CONCAVE & WEAR AUGER, AXLE EXT, FOLDING CVR, EXT WEAR ELEVATOR, LEATHER, HYD FLOTATION, LONG AUGER FOLDING PIVOTING SPOUT, REDEKOP CHOPPER

PN3564A (PA)

NOW \$219K!

2012 NEW HOLLAND CR8090
945SHRS, 15' 790CP, HYD FLOAT, 22 IN ROTOR, S3 RTRS HRD FCD RASP, HD ADJ REAR STEER AX, 13.09/1 PLAN FXD HYD, 520/85R42 R1W DUALS, REDEKOP CHOPPER

PN3411 (PA)

NOW \$43K!

2016 NEW HOLLAND 790CP HEADER
NEW, IN CAB HYDRAULIC FLOTATION, CASTER GAUGE WHEELS, PTO DRIVE-15FT HEADER

PB3505A (PA)

NOW \$95K!

2010 BOURGAULT L6550
LEADING L6550 D/S, 3 TANK METERING, 591 MONITOR CRA & AUX CLUTCHES, SEED BAG LIFT, DUAL TIRES 650/75R34, 10" DELUXE AUGER, CAMERA IN T3, HYD JACK

PB3506B (PA)

NOW \$65K!

2011 BOURGAULT L6450
3 TANK METERING, NEW METERING AUGERS 2015, 900/60R32 TIRES, BOLT ON DUALS 520/85R38, SINGLE FAN, CAB RATE ADJUST

PW341A (PA)

NOW \$65K!

2013 MACDON D65
40" DOUBLE KNIFE, SPLIT PICK UP REEL W/FORE/AFT, END FINGER KIT, 6 POLY SKID SHOES, GAUGE WHEELS AND TRANSPORT, CA25 CR/CX ADAPTOR, 4 SENSOR HEADSIGHT KIT, CROSS AUGER

PB3500A (PA)

NOW \$95K!

2009 BOURGAULT 3310PHD
55" MRB'S SERIES II/CLOSER TINES, 10" SPACING 4.5" AIR ROUND PACKER TIRES, INNER & OUTER WING SINGLE REAR TIRES, DBL SHOOT AIR KIT, LEADING AIR KIT 6000 SERIES, 1/2" HYD COUPLERS

PB3585A (PA)

NOW \$37K!

2009 DEGELMAN 7000
70FT, 9/16 TINES, HYD TINES ADJUST

PW3424B (PA)

NOW \$15K!

2005 NEW HOLLAND 94C
39FT 94C CR ADAPTER, SPLIT REEL 5 BATT STEEL FINGERS, DOUBLE KNIFE DRIVE, UPPER CROSS AUGER, HYD FORE/AFT, INTEGRATED TRANSPORT, HEADSIGHT HEADER HEIGHT CONTROL

B22490B (K)

NOW \$15K!

1999 FLEXI-COIL 5000
W/2320 TANK, NARROW STEALTH OPENER, MID ROW SHANK NH3, 51' W/ 12" SPACING, 3 - 1/2" STEEL PACKER

W22845A (PA)

NOW \$97K!

2011 MACDON M150
697HRS, 35' DRAPER HEADER, HEADER TILT, 600/65R28 DRIVE TIRES, FORKED CASTOR 16.5X16.1 TAIL WHEELS, PRESSURE SENSOR KIT, 5 BATT SINGLE SPAN STABILIZER WHEEL PKG, EZZEE STEER

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LIVESTOCK

BISON/BUFFALO 5001

BUYING FINISHED BISON. Call or text Harmony Natural Bison, 306-736-3454, SE Sask.

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

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

25 - 2016 BISON HEIFERS, \$3000 each. Phone Bill at Bill's Bison Corp., 780-895-7588 (evenings), Lamont, AB.

WANTED: TWO BISON BULLS, Please call 403-586-2404, Olds, AB.

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.

APPROX. 46 CALVES for sale, a nice group. Available end of March. Contact Marvin 306-960-2759, Prince Albert, SK.

BISON HERD BULL Prospects, born 2016. Over 400 to choose from. All semen tested and sound. \$7500 firm. 780-777-2326.

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.

(11) 2015 CERTIFIED Bred Heifers. Nice group of heifers weighing 1150-1270 lbs. Bred to Irish Creek & XY bison bulls. Delivery available. 204-773-6725, Binscarth, MB.

20 REALLY NICE 2017 Bison calves, ready to go March. Call for pricing. Glengary Bison 403-836-5900, 403-948-9675, Airdrie

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.

BUYING BISON for processing. Call for options and prices, Ian 204-848-2498 or 204-867-0085.

BISON/BUFFALO 5001

Wildrose Bison Convention BISON SHOW & SALE March 16th - 17th In Ponoka, AB



Presented by:
FRIDAY: 9:30 AM - 10 PM
 SPEAKER PRESENTATIONS - LUNCH
 KEYNOTE SPEAKER - TRENT LOOS
 BANQUET - AWARDS
 THE BEST FUN AUCTION EVER
SATURDAY: 9 AM
 AGM - JUDGES' COMMENTS
 VJV Auction for the Bison Sale at NOON

Limited to 200 Attendees
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 Go to www.bisoncentre.com
info@bisoncentre.com 780-955-1995

QUILL CREEK BISON has 50 bred heifers for sale. Call Doug, 306-231-9110, Quill Lake, SK.

GREAT BISON BREEDING Prospects: Plains and Plains/Woods Cross, born 2016, have been dewormed and vaccinated. Ready for any great breeding herd. 780-777-2326.

COMPLETE BISON COW herd dispersal Productive herd, culled annually, 125 cows, 50 yearling heifers. Royal Black Bison Ranch Inc. 306-441-7128, Paynton, SK

CATTLE

AUCTION SALES 5005

COW-BOYS Angus Bull & Female Sale Friday March 23rd, 1:00 PM, Virden, MB. Selling 80 Red & Black Angus bulls, as well as 15 Red & Black heifer calves. Presented by Ramrod Cattle Co., Cor Vet Cattle Co. and Fraser Farms. Wintering & delivery available. For a catalogue or more info contact Tony Dekeyser 204-264-0270, Jeff Fraser 204-522-5964, Corey Jones 204-264-0444 or T Bar C Cattle Co. at 306-220-5006. View the catalogue online at www.buyagro.com. Watch and bid online at www.dlms.ca (PL #116061)

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Saturday, March 3rd, 2018
At the Ranch, Carievale SK, 1:00 pm

180 Bulls Sell...
 80 Red Polled Simmental
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 40 Registered Red & Black Angus
 Featuring 50 Age Advantage Coming 2 Year Olds
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Online Bidding Available Sale Day

MAR MAC FARMS would like to personally invite you to their annual Bull & Commercial Female sale, Wednesday March 7th, 2018 on the farm, Brandon, MB. Offering: Red Angus, Black Angus & Simmental bulls (yearling and long yearlings) and Commercial bred & open females. Only the top 1/3 of our bull crop sells. Customer service is a top priority and we look forward to working with you! Bulls are semen tested, free delivery and ready to go to work. Call Mar Mac Farms 204-728-3058 or view at www.marmacfarm.com

BLACK ANGUS 5010

100 BLACK ANGUS bred heifers, Feb-Mar calves, some with calves at foot already. 306-322-7905, Archerwill, SK.

DURALTA FARMS 13th Annual Angus Bull Sale, Friday March 16th, 1:30 PM at the farm, Vegreville, AB. Selling 60 Red and Black Angus bulls. Wintering and delivery available. For a catalogue or more information contact Dave Durie at 780-208-4888 or T Bar C Cattle Co. at 306-220-5006. View catalogue online at www.buyagro.com PL#116061

40 BLACK COWS: 20-2nd & 3rd calves, \$2050; 10-4th, 5th, 6th calves, \$1,800; 10 cows that are in good shape, \$1,500. Most cows were exposed June 10th to black bulls. 306-476-2020, Rockglen, SK.

HOLLINGER LAND & CATTLE 6th Annual Bull & Female Sale, Tuesday March 20th, 1:00 PM at the ranch, Neudorf, SK. Offering 40 Black Angus yearling bulls, 10 pure bred females and select pens of open commercial heifers. For more information or a catalogue, contact Chad at 306-331-0302 or T Bar C Cattle Co. at 306-220-5006. To view the catalogue online go to www.buyagro.com. Watch and bid online at www.dlms.ca (PL #116061).

BLACK ANGUS BULLS on moderate growing ration, performance info available. Valleyhills Angus, Glaslyn, SK. Adrian or Brian and Elaine Edwards, 306-441-0946, 306-342-4407, www.valleyhillsangus.com

2 YEAR OLD Purebred Black Angus Bulls for sale, call David at: 306-963-7739 or Luke at: 306-370-6301, Imperial, SK.



HBH/AIREY CATTLEMAN'S CONNECTION BULL SALE
MARCH 2, 2018, 1PM
at Heartland Livestock, Brandon, MB.

Offering 120 powerful Black Angus bulls sired by exclusive breed leading sires.

For more information or a catalogue contact **Barb Airey 204-566-2134 or T Bar C Cattle Co. 306-220-5006**
 View the catalogue online at www.buyagro.com (PL#116061)

2 YEAR OLD Angus Bulls, commercially oriented bulls built and selected for their environment. 306-577-9141, Wawota, SK. gbtangus@sasktel.net www.gbtangus.com

PUREBRED BLACK ANGUS long yearling bulls, replacement heifers, AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

RED & BLACK Purebred yearling bulls, Contact Troy at L - Dee Stock Farms, 306-867-7719, Glenside, SK.

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

BLACK ANGUS 5010

JP CATTLE CO. with guests Stewart Cattle Co. Annual Angus & Simmental Bull & Female Sale Thursday March 1st, 2018 at 1:00PM on the farm, McAuley, MB. Selling: 90 Simmental & Angus bulls, as well as 70 commercial bred heifers. For more information or a catalogue contact Glenn 204-851-5669, Eric 306-434-8567, Brent 204-773-2356 or T Bar C Cattle Co. 306-220-5006. View the catalogue online at www.buyagro.com. Watch and bid online at www.dlms.ca (PL#116061)



DOUBLE 'F' CATTLE CO. 9th Annual Bull Sale, March 29th, 2:00 PM at Northern Livestock Sales (Heartland Livestock), Prince Albert, SK. Selling 50 rugged Black Angus bulls and an elite group of replacement heifers. Kelly Feige 306-747-2376, 306-747-7498. Catalogue online after Mar 1. www.doublecattle.com

BLACK ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

10TH ANNUAL IMPACT Angus and Charolais Bull Sale, Saturday, March 24th, 1:30 PM at Saskatoon Livestock Sales. 50 Black & Red Angus yearling bulls. For catalogue or more info. contact Randy Tetzlaff at 306-944-2734, Jason George at 306-567-7939 or T Bar C Cattle Co. at 306-220-5006. View the catalogue online at www.buyagro.com (PL #116061).

PALMER CHAROLAIS/NIELSON LAND AND CATTLE CO., Charolais and Black & Red Angus Bull and Heifer Sale, Monday, March 12, 2:00 PM, at the Palmer farm, Bladworth, SK. Offering 45 Black & Red Angus yearling bulls, 9 Black & Red PB Angus yearling heifers, 5 Black Baldy bred commercial heifers, and 60 two year old & yearling Charolais bulls, most polled, some red factor. Top quality cattle with great pedigrees that will work. Sale broadcast at www.dlms.ca. Please call Larry Nielson at 306-567-7493 or Velon Herback at 306-567-7033. Catalogue and videos online at www.bylivestock.com



BURNETT ANGUS 34TH Annual Bull Sale, Saturday, April 7, 2018, 2:00 PM, The Ranch, Swift Current, SK. 60 yearling bulls, many genetically developed for breeding heifers. Sires represented: Shipweel Chinook, OCC Missing Link, Sooline Motive, Stevenson Rockmont, Bruiser, Optimum (Chisum son), Crowfoot Fred. Bryce 306-773-7065 or Wyatt 306-750-7822, wburnett@xplomet.ca

(10) 2 YEAR OLD BLACK ANGUS bulls, semen tested, guaranteed breeders. High quality. Reasonably priced. B/B Duncan, Cromer, MB. Please call 204-556-2342, 204-748-2911 or 204-851-0306.



EDWARDS ANGUS HAS 10 calving ease, high maternal and performance bulls selling in the South Sask Angus and Simmental Bull Sale, Mar. 12, 2018, 1:00 PM, Johnstone Auction Mart, Moose Jaw, SK. View catalogue online at buyagro.com. Call **306-567-7456, iredwards@sasktel.net**



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2 YEAR OLD & yearling bulls for sale, cow & heifer bulls available. Correct and growthy, semen tested, ready to go. 780-853-3384, 780-853-2275, Vermilion, AB.

CANADA'S LARGEST SOURCE of moderate frame maternal cattle. 40 Red & Black Angus 2 year olds selling by private treaty. Ole Farms, Athabasca, AB, 780-675-4664.

BRED HEIFERS due to calve in April, bred to easy calving Angus bulls, preg checked. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

SOUTH VIEW RANCH has Black and Red Angus coming 2-year-olds bulls for sale. Good selection. Call Shane 306-869-8074 or Keith 306-454-2730. Ceylon, SK.

VIDEOS: WWW.DKFANGUS.CA Select now. Get later. Great selection. Superior quality. **DKF Red And Black Angus bulls** at DKF Ranch, anytime. Gladmar, SK. Scott Fettes 306-815-7023; Dwayne 306-969-4506.

BLACK ANGUS BULLS, call 587-991-9526, Sherwood Park, AB. Pedigree, performance & ration data at www.hahnangus.com

BLACK ANGUS 5010

JOHNSON LIVESTOCK ANNUAL Angus Bull Sale, Thursday March 15th, 1:00 PM at the ranch near Peebles, SK. Presenting 150 Black Angus bulls including extra age fall born and yearling bulls. Wintering and delivery available. For a catalogue or more information contact Andrew at 306-736-7393 or T Bar C Cattle Co. at 306-220-5006. To view catalogue online, visit us at www.buyagro.com and on the sale day, watch and bid at www.dlms.ca

RED ANGUS 5015

REG. RED ANGUS bulls, calving ease, good weaning weights, no creep feed, quiet. Little de Ranch, 306-845-2406, Turtleford, SK

VIDEOS: WWW.DKFANGUS.CA Select now. Get later. Great selection. Superior quality. **DKF Red And Black Angus bulls** at DKF Ranch, anytime. Gladmar, SK. Scott Fettes 306-815-7023; Dwayne 306-969-4506.

RED ANGUS PUREBRED 2 year old bulls. Contact DBM Angus Farms, Holland, MB., Brian 204-526-0942, David 204-723-0288. Online catalogue: www.dbmangusfarms.ca

BRED HEIFERS due to calve in April, bred to easy calving Angus bulls, preg checked. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

SOUTH VIEW RANCH has Red and Black Angus coming 2-year-old bulls for sale. Good selection. Call Shane 306-869-8074 or Keith 306-454-2730. Ceylon, SK.

RED ANGUS BULLS on moderate growing ration, performance info available. Valleyhills Angus, Glaslyn, SK. Adrian or Brian and Elaine Edwards, 306-441-0946, 306-342-4407, www.valleyhillsangus.com

DOUBLE BAR D FARMS "Best of Both Worlds" Simmental & Simm/Angus Bull Sale, Tuesday February 27th, 1:00 PM at the farm in Grenfell, SK. 140 head sell including Fullbloods, Red & Black and Simm-Angus bulls selected from one of the largest herds in Canada. For more information contact Ken at 306-697-7204 or T Bar C Cattle Co. at 403-363-9973. Online catalogue at www.doublebardfarms.com or visit: www.buyagro.com. PL#116061

RED ANGUS BULLS: Pedigree, performance & ration data at: www.hahnangus.com. Call 587-991-9526. Sherwood Park, AB.

RED & BLACK Purebred yearling bulls, Contact Troy at L - Dee Stock Farms, 306-867-7719, Glenside, SK.

10TH ANNUAL IMPACT Angus and Charolais Bull Sale, Saturday, March 24th, 1:30 PM at Saskatoon Livestock Sales. 50 Red & Black Angus yearling bulls. For catalogue or more info. contact Randy Tetzlaff at 306-944-2734, Jason George at 306-567-7939 or T Bar C Cattle Co. at 306-220-5006. View the catalogue online at www.buyagro.com (PL #116061).

DURALTA FARMS 13th Annual Angus Bull Sale, Friday March 16th, 1:30 PM at the farm, Vegreville, AB. Selling 60 Red and Black Angus bulls. Wintering and delivery available. For a catalogue or more information contact Dave Durie at 780-208-4888 or T Bar C Cattle Co. at 306-220-5006. View catalogue online at www.buyagro.com PL#116061

The 10th Annual WARD'S RED ANGUS BULL SALE
SAT. MARCH 3RD, 2:00 PM
SASKATOON LIVESTOCK SALES
 Selling 50 Super Long Yearlings and Top Cut Yearling Bulls.
 Wintering and volume discounts available.
 For a catalogue or information contact **Clarke Ward 306-931-3824 or T Bar C Cattle Co 306-220-5006**
 Watch & bid online
www.dlms.ca
 View the Catalogue online at www.buyagro.com

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

DIAMOND W 16TH ANNUAL BULL SALE, Tuesday, March 20th, 1:30 PM DST, Valley Livestock, Minot, MB. Offering: 22 Red & Black Angus two year olds and yearlings; 45 Charolais yearling and two year olds. Many polled, some red factor. Sound and semen tested. Delivery available. For catalogues and info. contact Orland Walker 306-865-6539. Sale broadcast live on www.dlms.ca Catalogue available online at www.bylivestock.com

HOWE RED ANGUS & Whitecap/Rosso Charolais 28th Annual Bull Sale. April 4th, 2018, 1:00PM at Howe farm, 8 miles South of Moose Jaw on #2 Hwy, 1.5 miles East on Baildon grid. Selling 45 yearling and 2 year old Red Angus; 50 two year old Charolais and 25 yearling Charolais. Contact Darwin 306-690-8916, Kelly 306-693-2163 or Mike 306-631-8779. Catalogue online at www.howefarm.ca

MCTAVISH FARMS RED ANGUS & Charolais Bull Sale with Charla Moore Farms, Tuesday, March 13th, 1:30 PM at the farm, Moosomin, SK. 9 Red Angus yearlings and 3 two year olds; 37 Charolais yearlings and 4 two year olds. View videos and catalogue online at www.mctavishfarms.ca Call or text Jared at 306-435-9842

BLONDE D'AQUITAINE 5035

POLLED YEARLING BLONDE BULLS for sale, Estevan, SK. area. Phone 306-634-2174 or cell 306-421-6987.

CHAROLAIS 5055

COYOTE FLATS 3rd Annual Bull Sale, Monday, March 5th 1:00PM at the farm, Coaldale, AB. 45 two year olds & 35 yearling Charolais bulls plus 40 Simmental cross Angus heifers with Charcross calves at side. Catalogue and videos online at www.coyoteflats.ca internet bidding at: DLMS.ca Call Mark Lohues 403-634-2989.

9 PB CHAROLAIS Heifers, very quiet. Bred to easy calving Ledger son. Due to start calving at beginning of March. Call Qualman Charolais 306-492-4634, Dundurn, SK

CHAROLAIS 5055

STEPLER FARMS 7TH Annual Charolais Bull Sale, Sunday, March 11, 1:00 PM, Stepler Sale Barn, Miami, MB. 75 yearlings and 15 two year olds, sound, good haired and thick, most are polled. Sale broadcast at www.dlms.ca. For catalogue or info. contact Andre Stepler, cell 204-750-1951. View videos and catalogue online at www.steplerfarms.com

HTA CHAROLAIS & GUEST Rammer Charolais Bull Sale, Wednesday, March 21, 1:00 PM. Beautiful Plains Ag Complex, Neepawa, MB. 58 yearling bulls, most are polled, some red factor with good dispositions. These are the best in performance genetics. Live Broadcast at www.dlms.ca Contact Shawn Airey 204-724-8823 or Matthew Ramsey 204-365-0976 Catalogue & videos online at www.htacharolais.com

WHITECAP/ROSSO CHAROLAIS and Howe Red Angus 28th Annual Bull Sale. April 4th, 2018, 1:00PM at Howe farm, 8 miles South of Moose Jaw, on #2 Hwy, 1.5 miles East on Baildon grid. Selling 50 two year old Charolais and 25 yearling Charolais, plus 45 yearling and 2 year old Red Angus. Contact Darwin 306-690-8916, Kelly 306-693-2163 or Mike 306-631-8779. View catalogue and video at www.howefarm.ca

HORSESHOE E CHAROLAIS 20th Annual Bull Sale, Saturday March 10th at 2:00 PM, Johnstone Auction Mart, Moose Jaw, SK. Selling 70 bulls, including 16 two year olds. For catalogue contact Layne or Paula Evans at 306-252-2246 or go online to: www.horseshoecharolais.com

PLEASANT DAWN CHAROLAIS 16th Annual Bull Sale, Saturday, March 17th, 2:00 PM, Heartland Livestock, Virden, MB. All polled, some red factor. Offering 51 yearling bulls. Wintering, delivery and sight unseen purchase program available. Bred for calving ease with growth, hair and soundness. Sale broadcast live on www.DLMS.ca. Contact Trent Hatch 204-855-3078 or (cell) 204-721-3078. Catalogue & videos available online at: www.pleasantdawn.com

COMING 2 YR. old polled PB Charolais bulls, some red factor. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

NEILSON CATTLE COMPANY Charolais Bull Sale, Monday March 19th, 1:00 PM at the Ranch, Hwy #47 south of Willowbrook, SK. Offering 32 coming 2 year old Charolais bulls, all semen tested and vet inspected. For a catalogue or more info. contact Mike at 306-783-0331 or T Bar C Cattle Co. at 306-220-5006. Watch and bid online at www.dlms.ca View catalogue online at www.buyagro.com (PL#116061)



SPARROW FARMS
Annual Charolais Bull Sale
Friday, March 9th, 2018
2:00 P.M. on the Farm
55 BULLS
Subsidized Insurance, Boarding & Delivery Lunch Served.
2 Mi. E. 2 Mi. S & 1/2 Mi. E. of Vanscoy, Sask.
Cam Sparrow (306) 668-4218
View our catalogue online!
www.cksparrowfarms.com

BLUE SKY CHAROLAIS offering: 2 year old bulls, semen tested. March 5th at 1:00 PM, Balog Auction Mart, Lethbridge, AB. We also have 40 yearling for sale at the ranch. Call John 306-672-6694 or Balog's at 403-320-1980, www.balogauction.com

LEGACY CHAROLAIS with guest Bob Charolais Bull Sale, Sunday March 4th at the farm, Botha, AB. 65 yearling bulls with free delivery in Western Canada. Internet bidding available at: DLMS.ca For info call Troy & Dianna Walgenbach 403-742-4265 or Bob Burla 250-517-8521. View the catalogue and videos online at: bylivestock.com

REGISTERED PUREBRED CHAROLAIS bulls: 40+ yearling and 5 coming 2 year olds, for sale by private treaty. Belmont, MB. Brad 204-537-2367 or 204-523-0062 www.clinecattlecompany.ca

CREEK'S EDGE LAND & CATTLE CO. Bull Sale, Thursday, March 15, 1:30 PM at the farm, Yellow Creek, SK. 45 yearling and

CHAROLAIS 5055

BECK MCCOY BULL SALE, Wednesday, February 28, 2018 at 2:00 PM, Beck Farms, Milestone, SK. 92 Charolais and Hereford bulls on offer. Wade 306-436-7458 or Chad 306-436-7300. Catalogue online at: www.mccoycattle.com

ELDER CHAROLAIS 8th Annual Bull Sale. Thursday, March 22nd, 1:30 PM, at the farm, Coronach, SK. 40 Yearling bulls most are polled, some red factor. Top quality bulls that will calve and then give you the performance you want. Ron 306-267-4986 or Mike 306-267-7730. View catalogue & videos online at www.eldercharolais.com

DIAMOND W BULL SALE - 16th Annual Tuesday, March 20th, 1:30 PM DST, Valley Livestock, Minitonas, MB. Offering: 45 Charolais yearling and two year olds. Many polled, some red factor; 22 Red & Black Angus two year olds and yearlings. Sound and semen tested. Delivery available. For catalogues and info. contact Orland Walker 306-865-6539. Sale broadcast live on www.dlms.ca Catalogue available online at www.bylivestock.com

TWO YEAR OLD Char. Bulls, sired by Silver Bullet and Roundup, calving ease and growth, exc. selection. Martens Charolais and Seed, 204-534-8370, Boissevain, MB.

PALMER CHAROLAIS/NIELSON LAND AND CATTLE CO., Charolais and Black & Red Angus Bull and Heifer Sale, Monday, March 12, 2:00 PM, at the Palmer farm, Bladworth, SK. Offering 60 two year old and yearling Charolais bulls, most polled, some red factor, 45 Black and Red Angus yearling bulls, 9 Black and Red PB Angus yearling heifers, 5 Black Baldy bred commercial heifers. Top quality cattle with great pedigrees that will work. Sale broadcast at www.dlms.ca. Please call Yelon Herback, 306-567-7033 or Larry Nielson at 306-567-7493. Catalogue and videos online at www.bylivestock.com

TEN OPEN REPLACEMENT Charolais heifers. Wheatear Charolais, 306-882-6444, or cell 306-831-9369, Rosetown, SK.

COMING YEAR OLD Charolais bulls for sale, wintering available. Call LVV Ranch Forestburg, AB. 780-582-2254.

GALLOWAY 5070

GALLOWAY BULL SALE: March 5 to 8th. Russel Horvey, 403-749-2780, Delburne AB. View on-line at: bigdealgalloways.com

GELBVIEW 5075



DAVIDSON GELBVIEW/ LONESOME DOVE RANCH 29th Annual Bull Sale, Saturday, March 3, 2018, 1:00 PM at their bull yards, Ponteix, SK. Complimentary lunch at 11:00 AM. Pre-sale viewing and hospitality, Friday, March 2nd. Selling 100+ purebred Gelbvieh yearling bulls, Red or Black. Performance and semen tested. Vernon and Eileen 306-625-3755, Ross and Tara 306-625-3513, Ponteix, SK. Bidding in person or on-line: www.dlms.com View catalog and video on our websites: www.davidsongelbvieh.com and www.lonesomedoveranch.ca



TWIN VIEW LIVESTOCK 7th Annual Gelbvieh Joint Production Bull Sale, Tuesday, March 12th, 1:00 PM, Brooks, AB. 40 purebred red & black Gelbvieh bulls. View our catalogue online at: www.twinviewlivestock.com Call Aaron 403-485-5518.



18TH ANNUAL SASKATOON Gelbvieh Bull and Female Sale, Saturday, March 17, 2018, Saskatoon Livestock Sales. Pre-sale viewing and customer appreciation Friday, March 16, 2018. Gelbvieh bulls add pounds at weaning, feed efficiency, and superior maternal strength. Selling 35 stout polled red and black yearling PB and balancer Gelbvieh bulls and select females. Also new this year selling a select group of Angus bulls. Sale can be viewed online via DLMS. For more info. and catalogue: Darcy 306-865-2929 or 306-865-7859, or Darrell 780-581-0077, www.gelbviehworld.com or sales consultant Kirk Hurlburt 306-222-8210, www.stonegatefarms.ca

GELBVIEW BULLS Reg. 2 yr. old and yearling polled bulls from our 39 year breeding program. Reds and blacks. 780-672-9950, Camrose, AB. gwinder21@gmail.com

SELIN'S GELBVIEW HAS polled yearling bulls, black's and red's. Call Wayne at 306-793-4568, Stockholm, SK.

TWIN BRIDGE FARMS and Twin View Livestock 7th Gelbvieh Bull Sale, Monday, March 12th, 2018, 1:00 PM at the Silver Sage Community Corral in Brooks, AB. Selling 45 yearling Gelbvieh bulls. Red and black genetics on offer. Guest consignor Keriness Cattle Co. For information contact: Ron and Carol Birch 403-792-2123, Aaron Birch 403-485-5518, or Don Savage Auctions 403-948-3520. View catalogue online at www.donsavageauctions.com Sale will be broadcast on Live Auctions.TV

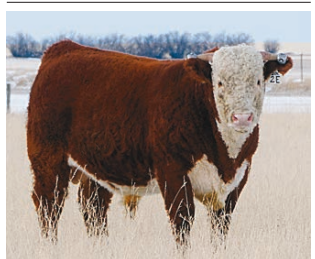
GELBVIEW 5075

3rd ANNUAL FLADELAND LIVESTOCK Bull Sale, Wednesday March 14, 2018, 1:30 PM, Johnston Auction Mart, Moose Jaw, SK. Selling 29 Red and Black yearling and long yearling Gelbvieh bulls. For more information call Del, 306-869-8123 or Clint, 306-861-5654. View catalogue online at: www.fladelandlivestock.com

JEN-TY GELBVIEW ANNUAL BULL SALE, March 6th, 2018 at 1:00 PM, at the Medicine Hat Feeding Co., Medicine Hat, AB. On offer: Red and Black Purebred yearling bulls. For more information or for a catalogue call 403-378-4898. View on-line: jentygelbviehs.com

HEREFORD 5090

REGISTERED POLLED HEREFORD yearling bulls: Thick topped, big rumped, easy calving, lots of hair with good temperaments. Priced at \$3300. 50% down, balance when the bull leaves farm in spring 2018. Pick them early! V&G Polled Herefords, Garnet and Jordan Keller, 1 Mile north of Melville, SK. On Hwy #47. Phone 306-728-3657, 306-728-9057 or 306-728-0108. Email: garnetkeller@hotmail.com



BRAUN RANCH Horned Hereford Bull Sale. March 9, 1:00PM at the ranch, Simmie, SK. 20 two year olds bulls, 30 yearling bulls, 5 purebred open heifers, 25 commercial open heifers. View catalogue and sale videos on-line at: www.braunranch.com Contact Craig Braun at 306-297-2132.

ANL POLLED Herefords Annual Bull Sale with guest Brooks Farms, Sunday March 18th, 2:00 PM at the farm in Steelman, SK. Selling a great selection of yearling and 2 year old bulls live in our new sale facility! Wintering & delivery available. For a catalogue or more information contact Karl at 306-487-2670, Jeremy at 306-485-8003 or T Bar C Cattle Co. at 306-220-5006. View the catalogue and videos online at: www.buyagro.com (PL#116061).



SQUARE D BULLS FOR SALE: 2 year olds, fall & spring yearlings. Quiet, performance and semen tested. Delivery can be arranged. Group of young females to calve in March. Please contact Jim Duke at 306-538-4556, 306-736-7921, Langbank, SK. Email: square.d@ Sasktel.net Website: square-dpolledherefords.com

BECK MCCOY BULL SALE, Wednesday, February 28, 2018 at 2:00 PM, Beck Farms, Milestone, SK. 92 Charolais and Hereford bulls on offer. Wade 306-436-7458 or Chad 306-436-7300. Catalogue online at: www.mccoycattle.com

HOLSTEIN 5100

FRESH AND SPRINGING heifers for sale. Cows and quota needed. We buy all classes of slaughter cattle-beef and dairy. R&F Livestock Inc. Bryce Fisher, Warman, SK. Phone 306-239-2298, cell 306-221-2620.

LIMOUSIN 5115

3 POLLED RED LIMOUSIN herdsires, 2, 3, & 4 year olds. Can be used on heifers and cows; 1 black 3 year old Simmental, Phone 306-755-4203, Tramping Lake, SK.



32ND ANNUAL PRAIRIE Gold Limousin Bull Sale, has 40 performance and calving ease yearling and 2 year old bulls. Selling March 23 at Saskatoon Livestock Sales, Saskatoon, SK. View catalogue online at: buyagro.com More info 306-567-7456 or Email: iredwards@sasktel.net

farmzilla CANADA'S AG-ONLY LISTINGS GIANT
1-800-667-7770 | farmzilla.com

SPRINGER LIMOUSIN has very quiet yearling and 2 year old PB Limousin bulls, Red or Black. Call Merv at 306-272-4817 or 306-272-0144, Foam Lake, SK.

GOOD SELECTION OF stout red and black Limousin bulls with good growth, dispositions, calving ease. Quality-T Limousin, Rose Valley, SK. Call 306-322-7563 or 306-322-7554.

POLLED LIMOUSIN BULLS Yearling and 2 year old bulls for sale by Private Treaty. Harvey Tedford 306-634-8536 or Darryl Tedford 306-634-4621, Estevan, SK. htedford@sasktel.net circletimousin.com

LIMOUSIN 5115

BAR 3R LIMOUSIN 23RD ANNUAL BULL SALE
Thursday, March 15, 2018
1:00 PM (MST)
at the Crossroads Center, Oyen, AB.



Selling 40 Red Black polled yearlings and 2 year olds. Sight unseen purchasing available. Boarding available. Free delivery.
View catalogue at: www.bohrson.com
For info. contact **Kevin Rea, 306-463-7950** or **Ken Rea, 306-463-7454** Marengo, SK.

RED POLL 5175

RED POLL BULLS: Thank you to all our buyers - recent and former. Due to health issues, 2018 will be our last year offering bulls. A limited number of yearling and 2-year-olds are available. Larry and Linda Fleming 780-892-3447, Wabamun, AB.

SALERS 5185

POLLED PB THICK Butt Salers age advantage bulls, excellent disposition, tested. DynaRich Salers. Richard Andersen, 403-746-2919, Eckville, AB.

2 YR. OLD SALERS BULLS, 18 Red and Black bulls, mostly polled. Excellent dispositions. Bulls for cows and heifers. See Facebook, 403-872-1549, www.skywestsalers.com Red Deer County, AB. Please email: travisdepalme@outlook.com

POLLED POLLED POLLED- Salers bulls for sale. Call Spruce Grove Salers, Yorkton, SK, 306-782-9554 or 306-621-1060.

SHORTHORN 5200

SELLING FOR THE ESTATE of Harvey Blanchette. One 3 year old white bull, very sound and quiet. PB name is BMC11C, Sire BMV1274. Dam-uphill rose 6Z. 306-342-4918, Glaslyn, SK.

11TH SUN COUNTRY SHORTHORN SALE, Tues. March 6th, 2018, Johnstone Auction Mart, Moose Jaw, SK. Selling 38 yearling and 2 year old Shorthorn bulls and 18 replacement heifers. Horseshoe Creek Farms, Weyburn, SK., 306-861-5504; Anwender Cattle Company, Radville, SK., 306-442-2009; Rocking L Cattle Company, Wawato, SK., 306-577-8840; Diamond Creek Cattle Company, Weyburn, SK., 306-861-1422.

POLLED PB SHORTHORN BULLS: Red, white, & roans. Thick, beefy, & muscular, w/moderate birthweights. 4 bulls in Douglas Development Centre, as well as on the farm. Reasonably priced. Uphill Short-horns, Hamiota, MB. 204-764-2663 (H), 204-365-7155 (C). rgray@mymnts.net

SIMMENTAL 5205

14th ANNUAL Wheatland Cattle Co. Bull Sale, Thursday, March 22nd, 2:00 PM at the farm, Bienfait, SK. Offering Black & Red Simmental, SimmAngus and Angus Bulls. Also selling customer commercial heifers. For more information or a catalogue, contact Vernon at 306-634-7765 or T Bar C Cattle Co. at 306-220-5006. View the catalogue online at: www.buyagro.com (PL #116061).

POLLED BLACK SIMMENTAL herdsire for sale. Rising 3 year old, 94 lb. BW, Phone 306-755-4203, Tramping Lake, SK.

PROUDLY WESTERN BULL SALE, Saturday March 17th, 1:00 PM at the White-wood Auction Barn, Whitewood, SK. Selling 64 yearling, Red, Black & Simm-Angus bulls. Wintering and delivery available. For a catalogue or more info contact T Bar C Cattle Co. 306-220-5006. View catalogue online at: www.buyagro.com Watch and bid online at: www.dlms.ca (PL#116061).

THE SOUTH SASK Simmental Annual Bull Sale, Monday March 12th, 1:00 PM, Johnstone Auction Mart, Moose Jaw, SK. Selling 70 Red, Black Simmental and Red & Black Angus bulls. Wintering and delivery available. For more information or a catalogue call T Bar C Cattle Co. 306-220-5006 (PL#116061). View catalogue online at www.buyagro.com



ASHWORTH FARM AND RANCH 15th Annual Bull Sale, Monday, March 5th, 1 PM at the farm, 8 miles South of Oungre, SK. Hwy. #35, 2-1/2 miles East. Offering 80 Red and Black Simmental bulls and Simm/Angus cross bulls. For catalogue or more information call Kelly Ashworth 306-456-2749, 306-861-2013 or Kyle at 306-861-9352. View catalogue on-line at: www.bouchardlivestock.com

BULL SALE: BLACK & Red Simmental bulls for the purebred/commercial breeder. March 14, 2018, 2:00 PM, Innisfail Auction Mart, 403-922-6748 or 403-669-8938, Innisfail, AB. www.ultralivestock.com

IN PURSUIT OF PERFECTION Bull Sale March 8th, 2018 at 1:00PM, Spring Creek Ranch, Moosomin, SK. Selling 100 Red and Black Simmentals, Red and Black Angus & Simmental/Angus bulls. Volume & loyalty customer discounts. For more information or a catalogue contact Brian McCarthy 306-435-7527 or T Bar C Cattle Co. 306-220-5006. View the catalogue online at: www.buyagro.com Watch and bid online at: www.dlms.ca (PL#116061).

SIMMENTAL 5205



TOP QUALITY PB Red Factor 2 year old bulls, good disposition, great hair coats, guaranteed breeders, reasonably priced. Down payment will hold until spring; Dark red yearling bulls, off Crossroads Degree. Green Spruce Simmental, 306-467-4975, 306-467-7912, Duck Lake, SK.



LABATTE SIMMENTALS & MEADOW ACRES FARMS 38th Annual Bull & Female Sale, Friday, March 2, 2018 at 1:00 PM, Johnstone Auction Mart, Moose Jaw, SK. 4 miles west of Moose Jaw on Trans-Canada Highway. Offering: 100 Simmental beef bulls (50 Red Polled PB, 40 Black Polled PB, 6 Fullblood); 16 Red & Black open heifers. For catalogues and information, call Barry LaBatte at 306-815-7900 or 306-969-4820, Dustin Fornwald at 306-487-7510, Blair Fornwald at 306-487-7662 or Scott Johnstone at 306-693-4715. View catalogue online at: www.johnstoneauction.ca PL#914447

PHEASANTDALE CATTLE COMPANY 14th Annual Bull and Female Sale, Thursday March 1st, 1:00PM at the ranch, 22 kms east of Balcarres, SK. Offering 70 Red & Black PB and FB Simmental bulls, yearlings and extra age bulls, all polled. 10 open PB Simmental heifers. For more information call Lee Stiborn 306-335-7553, or 306-335-2828. View catalogue online at: www.bohrson.com Watch and bid online at: www.dlms.ca

50 BULLS. 5 Purebred Opens. 200+ Open Replacements: Ranchmen's Simmental Bull and Female Sale, Feb. 26, 2018, 1:00 PM, NCL 780-581-8328, Vermilion, AB. leewoodranch@hotmail.com

BLACK 2 YEAR OLD'S: Also Red, Black and fullblood yearling bulls. Moderate birth weights, excellent temperaments. All bulls sold private treaty. Call Bill or Virginia Peters, 306-237-9506, Perdue, SK.

19TH ANNUAL KUNTZ-McINTOSH-SAJ Simmental Bull Sale on Tuesday March 13th, 1:00 PM CST, Lloydminster Exhibition Grounds. 65 yearling red, black full-blood, and full Gelbvieh Simmental bulls. Wintering and delivery available. For info contact Trevor Kuntz at 306-441-1308, Blair McIntosh at 306-441-7755, Stuart Jamieson at 306-397-2706, or T Bar C Cattle Co. at 306-220-5006. Watch and bid online at www.dlms.ca and view the catalogue online at www.buyagro.com

WANTED: SIMMENTAL RED ANGUS cross bull. 306-283-9276, Langham, SK.

PRAIRIE PARTNERS BULL SALE. Red, Black, FB, Sim/Angus, Charolais bulls and a select group of open heifers. March 13, 2018, 1:00 PM, Killarney Auction Mart. Sale broadcast on DLMS.ca Visit the farms of Gordon Jones Simmentals & Silver Lake Farms prior to the sale for your chance to win a \$500 bull purchase credit. Please call 204-535-2273 or 204-825-8012, Killarney, MB. Online: www.bouchardlivestock.com

6 BLACK SIMMENTAL/ANGUS bulls, out of Angus cows and a score black Simmental sire, \$3500. Call LV Ranch, Forestburg, AB. 780-582-2254.

ROBB FARMS & HOEGL SIMMENTAL Bull Sale, Thursday, Feb. 22, 2018, 1:00PM MAST, Lloydminster Exhibition Grounds. On offer: 73 Red, Black & Fullblood quality Simmental bulls. Also 6 Red Angus. Bulls same tested, fully guaranteed and delivered. For catalogue or more info call Jay 780-205-0816 or Murray 306-821-1205. Catalogue at: www.buyagro.com On-line bidding available at: www.dlms.ca



WLB LIVESTOCK ANNUAL SIMMENTAL Beef Bull Sale, 2:00 PM March 20, 2018. Free board to May 1. 5% 2nd bull discount. Selling 55 Black & Red Simmental PB and yearling beef bulls at the farm, (6 miles N, 1 mile E, 1/2 mile N) from Douglas, MB. Bill & Nancy Biglietti at: 204-763-4697 or Cell: 204-729-7925. Catalogue and videos online at: www.wblivestock.com

18TH ANNUAL R PLUS Simmentals Bull Sale, Sunday March 4, 2018 1:00PM at the farm near Estevan, SK. Offering 100 industry leading yearling and two year old bulls. For more info. or a catalogue contact Marlin 306-421-2470 or T Bar C Cattle Co. 306-220-5006. View the catalogue online at: www.buyagro.com Watch and bid online at: www.dlms.ca (PL#116061).

CANADIAN CENTRAL SIMMENTAL & Angus Bull & Female Sale, Monday March 5th, 1:00PM at Winnipeg Livestock Sales, Winnipeg, MB. Offering 45 Simmental & Black Angus yearlings & two year old bulls, plus purebred & commercial heifers. For a catalogue or more information contact T Bar C Cattle Co. 306-220-5006. View the catalogue online at: www.buyagro.com Watch and bid online at: www.dlms.ca (PL#116061).

SIMMENTAL 5205

JP CATTLE CO. with guests Stewart Cattle Co. Annual Simmental & Angus Bull & Female Sale Thursday March 1st, 2018 at 1:00PM on the farm, McAuley, MB. Selling: 90 Simmental & Angus bulls, as well as 70 commercial bred heifers. For more information or a catalogue contact Glenn 204-851-5669, Eric 306-434-8567, Brent 204-773-2356 or T Bar C Cattle Co. 306-220-5006. View the catalogue online at: www.buyagro.com. Watch and bid online at: www.dlms.ca (PL#116061)



SUNNY VALLEY SIMMENTALS 28th Annual Bull & Female Sale March 7th, 2018, 1:00 PM Saskatoon Livestock Sales. Saskatoon, SK. 45 Red/Black/Fullblood beef bulls and 10 heifers on offer. Semen tested & fully guaranteed. Free delivery, Sight unseen purchase program. View our catalogue and videos online at: www.sunnyvalleysimmentals.com 306-544-7633.

CATTLE VARIOUS 5240

85 BLACK BRED heifers, bred Black Angus, easy calving bulls, bulls out 60 days, start calving May 1st, all vaccinations & Ivomec, \$2300. 306-283-4388, Saskatoon, SK.

TOP QUALITY HOME raised, preg. checked bred heifers. Vaccinated, Ivomec, bred to calving ease Black and Red Angus Bulls. Start calving mid March. 60 Black Angus and 5 Red Angus cross. Winston Hougham, 306-344-4913, Frenchman Butte, SK.



COZY CAPS! Ear protection for newborn calves! 306-739-0020, Wawota, SK. Email czycaps@outlook.com

100 BLACK ANGUS 3rd and 4th calvers; 250 Black & Red Angus 2nd calvers. Swift Current, SK. 306-773-1049, 306-741-6513.



50 HOME BRED AND RAISED Sim/Angus bred heifers. Reds & Blacks, bred black. Bulls were put out on June 1st. Heifers have been pregnancy checked and received Ivomec as well as first shot of Scourbos, \$2400 OBO. Call or text 306-269-9059, Parkman, SK.

20 QUALITY PUREBRED Black Angus bred heifers. Spruce Acres, 306-272-4451 or 306-272-7841, Foam Lake, SK. Breeding quality for 24 years.

100 PLUS OPEN replacement heifers, Red Angus/Simm. cross. Home raised, full herd health program, no implants, no brands. Contact Brian at: 306-432-0001 or David at: 306-723-4727, Cupar, SK.

SIM/ANGUS COWS FOR SALE, bred Red & Black. Cows start calving March 10th. Received Ivomec and Scourbos. Call or text for pricing, 306-269-9059, Parkman, SK.

400 REPLACEMENT QUALITY heifers: 800 lbs. by mid-March. You pick. Can feed until grass time. Will finance feed and cattle until they go. Trucking available. No TBA implants/ balance growing rations/ complete vaccination program. Not asking a fortune for these heifers, just a premium over market. Phone Blaine 306-621-9751 or Steve 306-621-2522, Yorkton, SK.

CATTLE WANTED 5245

WANTED: CULL COWS and bulls. For bookings call Kelly at Drake Meat Processors, 306-363-2117 ext. 111, Drake, SK.

HORSES

APPALOOSA 5315

TWO PUREBRED STALLIONS w/beautiful markings. Born July 4 and Aug. 26, 2015. Info. call 306-267-5748, Coronach, SK.

PERCHERON 5400

5 YEAR OLD Black Team of Percheron Canadian cross, 1900 lbs., 17.1 & 17.2 HH, match team. 306-862-5975, Codette, SK.

HORSES VARIOUS 5460

GYPSY VANER X TEAM, broke to drive and ride, 2 matched reg. Quarter Horse dun mares, several bred mares, stallions and geldings. 306-435-3634, Moosomin, SK.

HARNESSE/VE

LIVESTOCK SERVICES/ VET SUPPLIES 5792



CATTLEVACBOX VACCINE/MED COOLER and organizer, \$375. Protect your vaccine, your livestock and your workers...

MISC. ARTICLES 5850

USED PORTABLE TOILETS, mostly poly John, some good, some not so good, \$300 each, take choice. 403-680-0752.

MISC. ARTICLES WANTED 5855

WANTED: WILLOW STANDS (2-3m tall) to harvest. Will compensate land owner...

farmzilla CANADA'S AG-ONLY LISTINGS GIANT SEARCH FROM OVER 35,000 AG LISTINGS 1-800-667-7770 | farmzilla.com

ORGANIC PRODUCTS

CERTIFICATION SERVICES 5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agriologist at Pro-Cert for information on organic farming...

ORGANIC PRODUCERS ASSOCIATION OF MANITOBA COOPERATIVE (OPAM). Non-profit members owned organic certification body...

GRAINS 5947

ORGANIC CO2 FERTILIZER: CropPlus. A 100% natural, organic, mineral based, foliar applied fertilizer...

CERTIFIED ORGANIC fall rye, buckwheat, canola and sweet clover seed for sale. Call 306-621-7310, Yorkton, SK.

COMMON CERTIFIED ORGANIC Alfalfa (tap rooted), common cert. organic Red and common cert. organic Alsike Clover...

LOOKING FOR: ORGANIC hay & grain. Phone Sam, 204-326-9270, Steinbach, MB.

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

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...

LOOKING FOR A LADY who likes fishing, camping and travelling. Must be a non-smoker, slim, physically fit and between 60-70 years of age...

SENIOR GENTLEMAN would like to meet 70ish lady for companionship, who likes to travel, camp & enjoy the outdoors.

SENIOR LADY, would like to meet 70ish male companion, to talk, laugh, socialize and travel with.

PERSONAL VARIOUS 5952

ARE YOU SINGLE and would rather be in love? Camelot Introductions has been successfully matching people for over 23 years...

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...

WORKING DOGS 5973

PUREBRED BORDER COLLIE puppies, from good working parents, ready to go. 306-267-5748, Coronach, SK.

GREAT PYRENEES PUPS born to working parents. Vet checked, 2nd shots, ready to go now, \$375/each. 403-308-4781, E-mail: heathernelsonfarm@gmail.com

REAL ESTATE

B.C. PROPERTIES 6110

RANCH FOR SALE by owner: 1374.3 acres in the south Cariboo region, Green Lake Meadows Ranch. Has adjacent 10,000+ acres, east Coulson unit for 100 Cow/Calif.

TIRED OF -25? This is your exclusive invitation to Creston BC. Our mild winters are hard to beat, daily temp's usually above freezing...

COMMERCIAL BUILDINGS/LAND 6115

CROMER, MB., in the heart of the oilfield, 11,000 plus sq. ft. manufacturing and office facility on 80 acres with older home and other buildings.

COTTAGE/LOTS 6125

LOG SIDING, LOG cabin logs, Fir timbers, Fir flooring, Cedar. Special orders. Check out more info. at: rouckbro.com

MOBILE HOMES 6127

YELLOWHEAD MODULAR HOME SALES, Canadian built by Moduline. Last chance at elite pricing: 960 sq. ft., 2 bdrm, 2 bath, \$79,900...

WWW.MEDALLION-HOMES.CA modular homes/lake houses/RTM's. Visit our sales lot, or check online for stock, homes and all other plans.

READY TO MOVE 6128

J&H HOMES: Western Canada's most trusted RTM Home Builder since 1969. View at: www.jhhomes.com 306-652-5322

RTMS AND SITE built homes. Call 1-866-933-9595, or go online for pictures and pricing at: www.warmanhomes.ca

HOME HARDWARE RTM Homes and Cottages. Phone 1-800-663-3350 or go online for floor plans and specs at: www.northbattlefordhomehardware.com

RECREATIONAL PROPERTY 6130

PARK MODEL, 2015 Cavco turn-key ready fully furnished, lots of upgrades, washer and dryer, outdoor patio, shed, awning, gazebo...

FARMS & RANCHES

BRITISH COLUMBIA 6131

5 ACRE FARM, fenced, 4 bedroom, home, cabin, barns, fruit trees, river frontage, \$329,000. 403-304-9665 msg., Slokan, BC.

ALBERTA 6132

SUCCESSFUL MARKET GARDEN: 45 ac. with equipment, buildings and 2 houses. Farmers market, wholesale and retail business. MLS® #L121179, \$147,500. Beaverlodge, AB., 780-835-1992, henryvos1@gmail.com

SALE OF FARM PROPERTY, the following farmland near Fox Valley is offered for sale by tender, subject to the restrictions in the existing certificates of title: NW 1/4 Sec 17-17-26; NE 1/4 Sec 17-17-26; SE 1/4 Sec 17-17-26; SW 1/4 Sec 20-17-26; NE 1/4 Sec 20-17-26; Four 2911 bu. Behlen grain bins will be included...

ALBERTA 6132

LARGE GRAZING LEASE and deeded quarters for sale, 6941 leased and 471.66 deeded. 1439 AUM, \$26,250/yearly revenue. All offers submitted will be reviewed on April 9th, 2018 at 12 noon, \$2,200,000. 780-614-0399, JL@cartierrealty.ca

UP FOR BIDS! QUARTER SECTION SE COALDALE, Coaldale #1100630. Great quarter section, 154.25 acres with full SMRID water rights. Located on paved road 512. Good irrigated parcel of land. Pivot is optional as it belongs to tenant. This parcel of land is offered by sealed tenders closing March 5, 2018. Land is rented out for 2018 crop year. Real Estate Centre, 1-866-345-3414. Visit: www.farmrealstate.com

Great Opportunity

ELK RANCH, TURN KEY OPERATION: Approx. 450 acres NE of Rimbey, AB. 380 acres are fenced & cross fenced with approx. 6 miles of 8' wire, 7 waterers and 11 pens. Fully fenced hay yard. Certified status on the National CWD program since 2000. Full handling facility with hydraulic squeeze. Living quarters in handling facility, plus 2 walk-in freezers, 2 wells, 2 septic systems, 2 gravel pits...

1/2 SECTION OF PASTURE/RECREATION LAND FOR SALE BY TENDER AT EDGERTON, ALBERTA. Call 306-830-2305 or email 'martin.wilkinson@hotmail.com' for complete details of the tender package.

GRAIN FARM FOR sale: 2862 +/- acres in a very nice block; mostly cultivated; only 60 kms. to Red Deer, AB. \$16,000,000. John at Maxwell Capital Realty, 403-813-8006, johnthiessen.realtor@gmail.com www.jthiessen.ca

SASKATCHEWAN 6133

LAND WANTED: TO rent or purchase in RM 218 and RM 248. Will pay premium for the right land. Call 306-726-8090, Cuppar, SK. Email: pjhart@sasktel.net

CROPLAND FOR SALE - 3 quarters in the RM of Big Stick #141: S1/2 of 29-14-27 W3; NE 1/4 of 29-14-27 W3. Approx. 460 acres of newer land, broke in 1990 & 1991. c/w 7 gas wells. Call 306-662-8650.

QUARTER SECTION #1: SW-04-18-11 W2, RM of Indian Head #156; FVA 219,000. 2017 crop - 140 acres (Green peas 65 acres & Nexera canola 75 acres). 2017 taxes \$1078.02; Quarter Section #2: NW-04-18-11 W2, RM of Indian Head #156; FVA 248,800. 2017 crop - 160 Acres Nexera Canola. 2017 Taxes \$1224.72. Briercree Farms Farm Equipment Auction, Saturday April 14th, 2018, Sinteluta, SK. For sale bill & photos visit: www.mackauctioncompany.com info at 306-421-2928 or 306-487-7815, Mack Auction Co. PL 311962. Join us on FB!

Tyler Badinski Farmland REALTOR® 306-920-8787 SELLER'S WANTED Website: www.tylerbadinski.com Email: tylerbadinski@sasktel.net

1/2 SECTION in the RM of Bratt's Lake #129 for sale: South of Gray, SK. Land location is SW and NW 36-13-19 W2. Contact Sandy Krenning 780-672-9500.

DWEIN TRASK REALTY INC. Conquest: Full Section of mostly seeded grass with power and 3 dugouts, Sec 13-30-10 W3, \$654,900; Hafford: Full quarter with approx. 140 cult. ac., SE 30-42-09 W3, priced to sell \$117,900. Call Dwein 306-221-1035

CAN-WORLD FINANCIAL. Needing a farm loan, for land, machinery, crop inputs for the season? We can finance it all! Good credit or bad credit. We also have great leasing programs, excellent competitive rates. Call 1-306-535-2512 or visit us online at: www.canworldfinance.com

NE & SE 1/2 Section of 35-48-24 W3. Premium crop land with 8 surface lease rights that pay approx. \$25,000/year. North west of Maidstone, SK. Taking bids until March 1, 2018. Reply to skdljw2018@gmail.com

SASKATCHEWAN 6133

FARM BOY REALTY Call Guy at 1-306-434-8857 www.farmboyrealty.com

IS IT TIME TO SELL THE FARM? YOUR FIRST STEP IS TO ESTABLISH IT'S ACTUAL VALUE AND START THE MARKETING PROCESS. CALL GUY AT 306-434-8857 AND GET A FARM BOY WORKING FOR YOU!

3 QUARTERS of FARMLAND for sale in RM of Fillmore, SK: NE 28-12-10 W2 (160 acres of summer fallow); NW 27-12-10 W2 (160 acres stubble); NE 27-12-10 W2 (100 acres stubble + 40 acres of seeded grass). Call 306-722-7439.

SMILEY HOBBY FARM: Quarter section on highway. Private. Partially fenced. Oil leases. Lots of water. Ravine, house, buildings, machinery and much more! 306-838-0352.

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.

FOR RENT BY TENDER: RM of Nipawin, SK. #487, NE-14-49-15W2, NW-14-49-15W2, & SW-14-49-15W2, comprising of 472 cult. ac. There are no buildings on the land other than a house and barns on the 5 acre yard site. All of the land is currently farmed. Tenders are to be submitted in envelopes marked "Nipawin Tender", to Dezaara Senft at Miller Thomson LLP, 600-2103 11th Ave., Regina, SK, S4P 3Z8, on or before noon on Fri., Feb. 23, 2018, and shall include: tender price, length of rental term, any other terms you are prepared to offer and a certified cheque/bank draft payable to "Miller Thomson LLP in trust" for 10% of the tender price (being 10% of the annual rent pmt. you are tendering). No conditional tenders will be accepted and the highest, or any tender, will not necessarily be accepted. Tenders will not be opened in public. The deposit of all unsuccessful tenderers will be returned by mail. The successful tenderer shall enter into a lease agreement on or before Mar. 16, 2018. The 10% deposit will constitute a deposit towards the first years rental payment. For further information, please contact Dezaara Senft, 306-347-8309.

RM OF TURTLE RIVER #469, 1/4 section for sale: SE 30-47-19-W3. Farmed until approx. 2007. Fenced w/horse shoe shaped creek running through. Has power. Close to Jackfish Lake, SK. 306-382-1384.

Acres of Expertise. HAMMOND REALTY Kevin Jarrett (306) 441-4152 kevin.jarrett@HammondRealty.ca HammondRealty.ca

SW 1/4 of 25-27-27-W2, RM 252. Highest or any tender not necessarily accepted. Send written tenders to: Box 459, Davidson, SK. SOG 1A0 or call 306-567-7792. Tenders close March 15th, 2018. 320 ACRES, 10 miles south of Lajord, Regina heavy clay. Call Don at 306-789-2907. Farm • Ranch • Recreation • Acreage TOM NEUFELD SASK. LAND SALES Tom@saskfarmland.com 306-260-7838 Buying • Selling • Full Service REALTOR®

LARGE RANCH PACKAGE • \$4,950,000 • 4627 acres in one contiguous block • 2 homes, corrals, shops, barns etc. TED CAWKWELL YOUR EXPERT IN THE FIELD Agriculture Specialist | 1.306.327.7661 ted@tedcawkwell.com | www.tedcawkwell.com

SASKATCHEWAN 6133

LAND FOR SALE The Public Guardian and Trustee of Saskatchewan as Administrator for the Estate of Earl Lehman, will accept bids on the following land in the RM of Canwood, NE 07-53-05 W3, ext 0. As described on Certificate of Title 150130123 - 124 cultivatable acres. Property will be sold in "As Is" condition. No minerals included in sale. Sealed bids, clearly marked "Earl Lehman Tender", should be received in our office by 5:00 PM on March 26, 2018 accompanied by a deposit of 10% of the bid in the form of a money order or certified cheque to the address below. (Deposits will be refunded except for that of the successful bidder). The highest or any bid is not necessarily accepted. For further information phone: Faye Mintzler 306-787-7920 or email: faye.mintzler@gov.sk.ca or ph: Rowena Collins-Huber 306-787-5761, or email: rowena.collins-huber@gov.sk.ca Public Guardian & Trustee of Saskatchewan, 100 - 1871 Smith Street, Regina, SK. S4P 4W4. Fax 306-787-5065.

FARMLAND WANTED Cell: 306-230-1588 Office: 306-361-8926 Fax: 306-665-1443 justin.yin.ca@gmail.com JUSTIN YIN FARMLAND MARKETING SPECIALIST

1745 ACRES RANCH LAND with wind opportunity. 1745 acres +/-, 1/2 hour South of Assiniboia close to St. Victor. (Big money valley). All deeded land except for one quarter, which is Crownland lease. 1980 house approx. 1100 sq.ft., 40'x60' steel quonset, 40'x50' shop, concrete floor, not heated, 40'x60' quonset/cattle shed. All natural spring water on the property. Mostly native grass/pasture. Another opportunity with this land is that 5 quarters are signed up with Suncor for possible future wind/solar power. ID#1100624: Assiniboia, SK. Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealstate.com

FARMLAND FOR SALE OR RENT BY TENDER South-Central Sask., RM of Shamrock #134 27 quarters of farmland, approx. 3,826 cultiv. acres, 4,211 titled acres. 2017 Asmt: \$4,225,200. Includes 208,900 bu. grain storage and 420 MT fert. Tenders must be submitted by 2:00 pm, March 12, 2018.

For further info, contact Anderson & Company Attn: Neil Gibbings or Sheila Richardson Box 610, Swift Current, SK S9H 3W4 Phone: (306) 773-2891 Fax: (306) 778-3364 File Ref. 19157-004 srichardson@andlaw.ca

WAWOTA: 12 ac. - 1046 sq ft home, livestock facilities with strong water supply. SEDLEY: 78 ac. - all pasture/hay, 807 sq ft home, livestock facilities. DEER VALLEY/LUMSDEN: 153 ac. - scenic landscape, 90 cult. ac., 64 ac. valley & nat. grass. Parcels available separately, call for details! CLAYBANK: 157 ac. - 102 cult. ac. + 50 ac. Brome/Alfalfa, 2017 assess. 137,200, on Highway #339 CLAYBANK: 159 ac. - 105 cult. ac., + 50 ac. Brome/Alfalfa, 2017 assess. 140,000, on Highway #339 KYLE: 320 ac. - 313 cult. ac., assess. 108,950/qr., just off Highway #4 ELKHORN (MB): 424 ac. - all pasture, livestock handling facilities, 1621 sq ft home, includes Surface Lease Revenue and opt. cattle handling equipment & scale. Call for details! WHITEWOOD: 632 ac. - 500 cult. ac., (all in grass), fenced, 2017 assess. 150,600/qr. HUDSON BAY: 3691 ac. - 2,592 ac. deeded + 1,099 ac. leased, 2,610 cult. ac., 175 ac. logable timber land, 35 ac. alfalfa, bal. pasture, 2017 assess. 129,705/qr., 1704 sq ft home. Many more features, call for details!

SASKATCHEWAN 6133

1 QUARTER SECTION farmland in the RM of Mount Pleasant (SW-35-01-34-W1). Macfarlane Land and Farm Equipment Auction, Wednesday April 25th, 2018. Glen Ewen, SK. For sale bill & photos visit: www.mackauctioncompany.com Join us on FB! 306-421-2928 or 306-487-7815. Mack Auction Co. PL 311962.

FARMLAND: 150 AC, RM of Moose Range, Smoky Burn, SE 01-51-09-W2, \$275,000. 306-209-7775 or hudon@sasktel.net

TENDER: CRANE VALLEY farmland for rent. 10 quarters, approx. 1320 acres cultivated and 70 acres fenced pasture in the RM of Excel. Land located roughly 5 miles west & 3 miles south of Crane Valley, SK. Rental tenders invited in writing for the above land with preference given to tenders involving all lands. Tenders close 5:00PM March 9th Successful bidder to complete rental agreement with vendor/landlord by March 21st, 2018. Rent tenders to specify \$/acre cash rent. Highest or any bidder not necessarily accepted. 3-5 year term offered. Respondents must rely on their own research and inspection. For more information contact Colleen or Rod at 306-937-7400. Submit tenders in writing to: Box 932, Battleford, SK, S0M 0E0. Land locations: NE 07-09-27, SE 07-09-27, NW 05-09-27, SE 08-09-27, SE 09-09-27, SE 16-09-27, NE 17-09-27, NE 05-09-27 and SE 05-09-27.

RM OF BLUCHER # 343: 2 quarters, 305 acres cult.: SW 29-35-01-W3 and NW 29-35-01-W3, 3 hopper bins (16,000 bu.), \$750,000. Call Bob 306-717-1987.

WANTED GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

NEAR PILOT BUTTE 68 acres with yardsite; Near Pilot Butte 80 acres with yardsite; 1/2 section pasture on Hwy near Perdue. Brian Tiefenbach, 306-536-3269, Colliers Int. Regina, SK. www.collierscanada.com

UP TO 350 ac. of grain land near Hudson Bay, SK., \$1000/ac. 50 ac. green spruce timber w/sawmill, hydro & home on riverbank, lots of snow and elk, 306-865-7469.

WANTED: GRAIN LAND for rent in North-Central Saskatchewan. Call Mike 306-469-7741, Big River, SK.

FARMLAND FOR SALE BY TENDER S 1/2 10-23-13W2 & W 1/2 34-22-13W2 RM of Lipton #217 Closes March 23, 2018

For Tender Conditions Contact: MORRIS LAW OFFICE 140 Broadway St. W P.O. Box 1729 Fort Qu'Appelle, SK SOG 1S0 306-332-4432 morrislawoffice@sasktel.net

LOOKING FOR LAND w/Aggregate Potential In Saskatchewan Call POTZUS LTD. Phone: 306-782-7423 Fax: 306-786-6909 Email: info@potzus.com

LANE REALTY JUST LISTED! Lane Realty is happy to announce the following listings recently added to our website. WAWOTA: 12 ac. - 1046 sq ft home, livestock facilities with strong water supply. SEDLEY: 78 ac. - all pasture/hay, 807 sq ft home, livestock facilities. DEER VALLEY/LUMSDEN: 153 ac. - scenic landscape, 90 cult. ac., 64 ac. valley & nat. grass. Parcels available separately, call for details! CLAYBANK: 157 ac. - 102 cult. ac. + 50 ac. Brome/Alfalfa, 2017 assess. 137,200, on Highway #339 CLAYBANK: 159 ac. - 105 cult. ac., + 50 ac. Brome/Alfalfa, 2017 assess. 140,000, on Highway #339 KYLE: 320 ac. - 313 cult. ac., assess. 108,950/qr., just off Highway #4 ELKHORN (MB): 424 ac. - all pasture, livestock handling facilities, 1621 sq ft home, includes Surface Lease Revenue and opt. cattle handling equipment & scale. Call for details! WHITEWOOD: 632 ac. - 500 cult. ac., (all in grass), fenced, 2017 assess. 150,600/qr. HUDSON BAY: 3691 ac. - 2,592 ac. deeded + 1,099 ac. leased, 2,610 cult. ac., 175 ac. logable timber land, 35 ac. alfalfa, bal. pasture, 2017 assess. 129,705/qr., 1704 sq ft home. Many more features, call for details! Visit us at the Ag Expo in Lethbridge, AB. February 28 - March 2, 2018! For the most VALUE & EXPOSURE that you deserve when selling your farm or ranch property contact Lane Realty! To include your property for Winter Showings CALL US TODAY! LANE REALTY Saskatchewan's Farm & Ranch Specialists™ WITH OVER 36 YEARS IN THE BUSINESS! 124 REGISTERED SALES IN 2017! Phone: 306-569-3380 To view full color feature sheets for all of our CURRENT LISTINGS and virtual tours of selected properties, visit our website at: www.lanerealty.com

SASKATCHEWAN 6133 SASKATCHEWAN 6133 SASKATCHEWAN 6133 SASKATCHEWAN 6133 SASKATCHEWAN 6133 SASKATCHEWAN 6133



HAMMOND REALTY

Agent	Town	RM	Acres	Price	Agent	Town	RM	Acres	Price	Agent	Town	RM	Acres	Price	Agent	Town	RM	Acres	Price
Pike	Kayville	70	641	\$725,800	Molberg	Rhein	273	160	\$79,000	Jarrett	Cactus Lake	352	642	\$1,376,000	Jarrett	Cochin	468	2,654	\$2,775,893
Pike	Assiniboia	73	1,077	\$1,650,000	Molberg	Gorlitz	274	640	\$400,000	Molberg	Spalding	368	160	\$105,000	Jarrett	Aquadeo	468	1,689	\$1,203,893
Morrow	Wawota	93	480	\$679,400	Molberg	Gorlitz	274	160	\$95,000	Hammond	Aberdeen	373	395	\$1,050,000	Jarrett	Aquadeo	468	400	\$987,000
Pike	Lang	98	640	\$1,300,000	Molberg	Hanley	283	180	\$540,000	Jarrett	Aberdeen	373	295	\$400,000	Jarrett	Cochin	468	213	\$650,000
Pike	Avonlea	100	5,117	Sold	Molberg	Outlook	284	1	\$799,900	Jarrett	Aberdeen	373	147	\$365,000	Jarrett	Aquadeo	468	566	\$585,000
Pike	Truax	100	640	\$745,200	Anderson	Rosetown	287	318	Sold	Molberg	Arelee	376	160	Sold	Jarrett	Waseca	471	Elevator	\$200,000
Molberg	Rhein	154	470	\$270,000	Anderson	Rosetown	287	2,685	\$10,400,000	Molberg	Perdue	376	305	\$650,000	Molberg	Lloydminster	472	158	Sale Pending
Morrow	Sherwood	159	287	Sale Pending	Pike	Plunkett	310	632	\$625,000	Molberg	Landis	378	2	\$110,000	Molberg	Lloydminster	472	140	Sale Pending
Jarrett	Neudorf	185	160	Sale Pending	Hammond	Bents	316	960	\$1,799,900	Molberg	Wilkie	379	39	\$189,900	Jarrett	Carrot River	486	463	\$900,000
Jarrett	Neudorf	185	160	Sale Pending	Hammond	Rosetown	317	2,075	Sold	Jarrett	Wakaw	400	174	\$1,650,000	Jarrett	Nipawin	487	Bee Farm	\$1,350,000
Morrow	Lemberg	185	10	\$829,000	Pike	Arran	331	135	\$95,000	Jarrett	Hepburn	404	80	\$869,000	Jarrett	Snowden	488	8	\$265,000
Jarrett	Lemberg	185	474	\$678,974	Berlinic	Endeavour	334	160	\$90,000	Jarrett	Laird	404	60	\$250,000	Molberg	Chociland	488	244	\$140,000
Morrow	Balcarres	186	160	Sold	Molberg	Kelvington	335	320	\$180,000	Jarrett	Borden	405	63	\$250,000	Jarrett	Holbein	493	75	\$265,000
Morrow	Abernethy	186	136	\$239,000	Molberg	Kelvington	335	318	\$180,000	Jarrett	Cloan	409	57	\$400,000	Molberg	Sturgeon Lake	493	Lot	\$100,000
Morrow	Balcarres	186	160	\$192,000	Jarrett	Quill Lake	338	1,616	\$3,647,480	Jarrett	Unity	410	800	\$1,634,000	Jarrett	Victoire	494	1,602	\$1,375,000
Anderson	Parkbeg	193	316	Sold	Jarrett	Quill Lake	338	633	\$1,572,000	Molberg	Unity	410	6 lots	\$80,000	Jarrett	Canwood	494	315	\$579,665
Berlinic	Saltcoats	213	300	Auction	Jarrett	Quill Lake	338	617	\$1,410,150	Molberg	Tisdale	427	10	\$499,000	Jarrett	Canwood	494	19	\$300,000
Molberg	Saltcoats	213	320	\$196,000	Jarrett	Quill Lake	338	365	\$645,330	Jarrett	St. Isidore-de-Bellevue	431	1,413	\$1,200,000	Jarrett	Loon Lake	561	322	\$500,000
Berlinic	Melville	214	784	Auction	Jarrett	Quill Lake	338	20	\$120,000	Jarrett	St. Louis	431	14	\$85,900	Jarrett	Loon Lake	561	15	\$300,000
Berlinic	Melville	214	158	Auction	Jarrett	Quill Lake	338	19	\$120,000	Molberg	Petrofka	434	8	\$349,000	Jarrett	Rapid View	561	217	\$150,000
Morrow	Fenwood	215	54	Call for \$	Jarrett	Guernsey	340	473	\$515,000	Jarrett	Blaine Lake	434	155	\$225,000	Jarrett	Kitscoty	AB	Elevator	\$550,000
Berlinic	Fenwood	215	158	Auction	Jarrett	Plunkett	341	1,591	Sold	Molberg	Hafford	435	16	\$399,000	Molberg	Mont Nebo	Lake Lot	\$55,000	
Arnold	Melville	215	6.5	\$299,000	Jarrett	Plunkett	341	318	\$275,000	Molberg	Hafford	435	146	\$389,000	Molberg	Rosetown	Commercial	\$139,900	
Morrow	Fenwood	215	163	\$169,000	Jarrett	Saskatoon	343	147	\$365,000	Jarrett	Hafford	435	159	\$136,000	Molberg	Biggar	Commercial	\$70,000	
Morrow	Dysart	216	640	\$699,000	Jarrett	Langham	344	301	Sold	Molberg	Speers	436	321	\$1,095,000					
Morrow	Dysart	217	472	\$650,000	Molberg	Saskatoon	344	152	\$5,000,000	Molberg	N. Battleford	436	27	\$455,000					
Morrow	Craven	219	335	Sold	Molberg	Saskatoon	Stoon	151	\$4,000,000	Jarrett	N. Battleford	436	27	\$455,000					
Arnold	Calder	241	4.6	\$159,900	Jarrett	Corman Park	344	365	\$2,500,000	Jarrett	Battleford	438	1,915	\$4,495,000					
Berlinic	Wroxton	243	160	Auction	Jarrett	Langham	344	129	\$1,300,000	Jarrett	Battleford	438	117	\$785,000					
Arnold	Rhein	243	320	\$1,800,000	Jarrett	Langham	344	301	\$1,200,000	Jarrett	Neilburg	440	10	Sale Pending					
Arnold	Willowbrook	244	320	Auction	Molberg	Eagle Ridge	344	5	\$795,000	Jarrett	Neilburg	440	294	\$679,200					
Morrow	Ituna	246	1,748	Sale Pending	Jarrett	Langham	344	80	\$450,000	Jarrett	Neilburg	440	148	\$364,000					
Morrow	Ituna	246	160	Auction	Molberg	Asquith	345	7	\$45,000	Jarrett	Neilburg	440	147	\$315,200					
Berlinic	Ituna	246	480	\$476,000	Molberg	Asquith	345	5	\$45,000	Jarrett	Neilburg	442	637	Sold					
Berlinic	Kelliher	247	636	Auction	Molberg	Asquith	345	5	\$45,000	Jarrett	Neilburg	442	158	\$903,000					
Morrow	Dysart	247	10	\$395,000	Jarrett	Perdue	346	1,031	\$3,250,000	Jarrett	Neilburg	442	38	\$675,000					
Pike	Imperial	251	636	\$1,200,000	Molberg	Delisle	346	81	\$1,275,000	Jarrett	Carlea	457	159	\$395,954					
Anderson	Elrose	256	317	\$420,000	Molberg	Perdue	346	5	\$339,900	Jarrett	MacDowall	461	403	\$745,700					
Anderson	Wiseton	257	5,768	\$22,410,000	Molberg	Perdue	346	20	\$58,900	Jarrett	MacDowall	461	309	\$519,900					
Anderson	Marengo	261	160	\$322,000	Jarrett	Kinley	346	7	\$29,900	Jarrett	MacDowall	461	97	\$175,800					
Berlinic	Mikado	273	297	Auction	Molberg	Biggar	347	296	\$450,000	Molberg	MacDowall	461	309	\$175,000					
Berlinic	Mikado	273	10	Auction	Molberg	Biggar	347	5	\$185,000	Jarrett	MacDowall	461	10	\$145,000					
Berlinic	Rhein	273	3,332	\$6,160,000	Molberg	Handel	349	161	Sold	Jarrett	Leask	464	320	\$300,000					
Molberg	Rhein	273	160	\$90,000	Molberg	Springwater	349	802	\$1,250,000	Jarrett	Round Hill	467	3,842	\$5,475,000					

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Listings Needed There is roughly half as much farmland for sale in Saskatchewan as there typically is this time of year. Supply is very tight, and demand continues to be strong.

If you are contemplating selling, contact **Hammond Realty** and put our **Acres of Expertise** to work for you.

Year	2015	2016	2017	2018
Completed Sales	203	160	173	14*

Current Number of Listings 151*
Current Total Acres 55,699*

* as of Feb 11/18



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Rosetown, SK
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Murray Arnold
Yorkton, SK
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Wade Berlinic
Yorkton, SK
(306) 641-4667



Kevin Jarrett
Saskatoon, SK
(306) 441-4152



Dave Molberg
Biggar, SK
(306) 948-4478



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Biggar, SK
(306) 948-5052



Anne Morrow
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SASKATCHEWAN 6133



NE 19-02-17-W2, RM of Lake Alma #8: 146 acres, home quarter, 3 bedroom bungalow, 1242 +/- sq. ft., partially finished basement, electric heat, central air, laminate flooring, vinyl siding, 4 appliances included, shallow well w/quality water, small barn, water bowl & cattle shed, pasture, SE 19-02-17-W2 RM of Lake Alma #8; 159 acres, FVA 75,400, 100 acres tame hay, balance pasture, NW 20-02-17-W2 RM of Lake Alma #8; 141 acres, FVA 66,900, dugout, pasture, SW 20-02-17-W2 RM of Lake Alma #8; 160 acres, FVA 58,600, dugout, 100 acres tame hay, balance pasture. Maurice Ranch Land and Equipment Auction Wednesday April 18th, 2018. Lake Alma, SK. Visit www.mackauctioncompany.com for sale bill and photos and join us on FB. Info: 306-421-2928 or 306-487-7815, Mack Auction Co. PL 311962.

6 QUARTERS LAND for sale in RM of Shellbrook, SK. Includes home quarter with house, 2 car garage, machine shed, cattle sheds, barn, corrals, steel bins. 18 miles North of Shellbrook. Submit inquiries to: Land Info, Box 338 Asquith, SK, before March 24, 2018. Or call 306-314-0212.

8500 ACRE RANCH in RM of Reno, all grass, lots of water. \$474 per acre. 306-299-4445, www.ranch-for-sale.sk.ca

Warren Vandenameele 306.743.7761 capcom@sasktel.net

15 million in sales - 2017
80,000 investor managed acres



MANITOBA 6134

142 ACRES IN & overlooking beautiful Assiniboine Valley - Binscarth, MB: 3090 sq.ft. home. 2 car garage. 50x80 insulated shop/in-floor heat, built in 2006. 400 amp, single phase power. 28x80 insulated shop. 40x60 storage. Close to mines at Esterhazy. Karen Goraluk, Salesperson, 204-773-6797, NorthStar Insurance & Real Estate, north-star.ca MLS#1726260

CANADIAN FARM REALTY
Call one of our team members for your no obligation consultation or to list your farm for spring 2018.
Royal LePage Riverbend
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
Catharina Carels 204-720-4779

Look Here

FOR SALE BY TENDER: RM of Dauphin, Parcel #1, NE, NW, SE of 23-28-20, NE & SE 14-18-20, and NW 24-28-20. Approx. 690 cult. ac., 1664 sq. ft. house, 4 bedroom, 2 1/2 bath, farm buildings, 100,000 bu. of bin storage mostly on aeration, cattle facility. Parcel #2, SW 30-28-19, E 1/2 31-28-19, approx. 385 cult. ac. RM of Ethelbert, Parcel #3, NE 10-29-21, NE 9-29-21, NE 10-28-22, approx. 400 cult. ac. Parcel #4, NW 10-29-21, house & farm buildings. Parcel #3 & #4 could be sold together. Most of the acres that were seeded into canola for 2017 yielded 60+ bushels/acre. The land being offered for sale can also include two full lines of older farm machinery which is in very good condition. Highest or any tender may not necessarily be accepted. Tenders must be received in writing by 12 noon Feb. 26, 2018, to P.O. Box 44, Sifton, MB., R0L 1X0. For more info call 204-655-3458.

RED RIVER/AUBIGNY FARM LAND FOR SALE within EPM section N30-6-2/SE 14-6-1/N-25-6-1. Acreage: Roll # 252200 & 252250 = 160 & 77; Roll # 220450 = 81; Roll # 228850 & 228950 = 133 & 44. Submit offer for consideration before noon on March 9, 2018 to the Mona Jodoin Law Corp. at 3549 Pembina Hwy, Winnipeg. Call Will at 204-371-2062 gnaeyt@mymts.net

FOR SALE OR RENT: 238 acre farm on Drifting River. 200 workable ac., 100 yr. old shelter belt, w/older useable house, and 11 out buildings. New wiring to out buildings, new 200A panel in house, new base boards, and very good well. 431-738-1888, Dauphin, MB.

3 QUARTERS w/YARDSITE: 477 acres in a block. Mixed farm, 300 arable acres. Fenced and cross fenced, 2 shallow wells., 40'x60' machine shed, 34'x44' pole shed, barn, corrals, hay fence. 24'x32' bungalow, w/double attached garage. Located beside the Riding Mtn. National Park. Contact Karen Goraluk-Salesperson, 204-773-6797, NorthStar Insurance & Real Estate. MLS #1800563. www.north-star.ca

MANITOBA 6134



PRIME SECOND GENERATION farm for sale, 1200 acres of gently rolling, clean, well drained productive soil complete with excellent buildings & grain storage. Located south of Souris MB, \$3400/ac. plus buildings. For more info, contact Henry Carels 204-573-5396, Canadian Farm Realty, Royal LePage Riverbend Realty

PASTURE, CULTIVATED LAND, 240 acres: NW 4-9-8-W, 160 ac. & NE 4-9-8-W, north 80 ac.. Approx. 75 acres cultivated land and 165 acres bush. Submit tenders to: Marty Gaudet, Box 33, Rathwell, MB, R0G 1S0. Tenders must be received prior to March 4, 2018. \$300,000 OBO. Call 204-751-0364.

PASTURES 6136

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

PASTURE FOR RENT, 6 quarters, cross fenced, all new fence, for 120 yearlings or 60 pairs. 306-427-4923, Shell Lake, SK.

DWEIN TRASK REALTY INC. Conquest: Full section of mostly seeded grass with power and 3 dugouts. Sec 13-30-10 W3, \$654,900. Call Dwein 306-221-1035.

WANTED: PASTURE FOR 60 - 90 cow/calf pairs for summer 2018. 780-753-8650, Provost, AB.

WANTED TO RENT pasture in AB or SK. For min. 40 or max. 150 pairs. Prefer supervised. 403-634-1642. gcaillia@telus.net

WANTED 6138

WANTED TO LEASE: Small ranch suitable for bison in Alberta or West Central Sask. Box 5002, c/o Western Producer Classifieds, Box 2500, Saskatoon, SK. S7K 2C4.

ACREAGES 6139

SMILEY, SASK. 13 acres in townsite, sewer and water available, nice property. 306-838-0352.

3.3 ACRES ON 2 titled lots along the beautiful Beaver River in Beauval, SK. House and numerous outbuildings, asking \$360,000. Email: ranger9@sasktel.net 306-288-7791

RECREATIONAL VEHICLES

ALL TERRAIN VEHICLES 6161

4 WHEEL BOMBARDIER Rotax, 250 hrs, like new, \$4000; Wanted: 14' bumper hitch dump trailer. 306-304-1959, Goodsoil, SK.

2008 KUBOTA 900 RTV, diesel, heated cab, 4x4, power steering, hyd. dump box, low medium high trans., 2150 hrs., excellent condition. 780-545-5353, Bonnyville, AB.

CAMPERS/TRAILERS 6164

2012 ZINGER 260BH, 1 slide, air conditioning, excellent condition, \$19,500. 306-567-8614, Davidson, SK.

2005 EVEREST 34', 2 slides w/warnings, washer/dryer hook-up, lots of storage & cupboards, very good cond., \$18,000 OBO. 403-548-2721, Redcliff, AB.



2012 APLINE 3700RE, 2 A/C's, fireplace, 3 tv's, keyless entry, double fridge, lots of storage, sleeps 4, very low use, no smoke, pets or kids. Would look at heavy truck or farm tractors on trade. Call 306-237-7667, Perdue, SK.

1996 KODIAK 5TH WHEEL TRAILER, used very little, \$10,000 OBO. 780-986-3794, Leduc, AB.

SNOWMOBILES 6168

2014 YAMAHA RS VENTURE, like new cond. Keep inside 566 kms, \$9200. 306-773-9058, Stewart Valley, SK. tdwall@sasktel.net

2008 BEARCAT, 570 fan cooled, 20x156" track, 800 miles, nice shape, \$5000. Call Rick, 306-734-7721, Craik, SK.

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SAWMILLS 6360

LH COUTTS, PTO, 48" blade, always shedded, last used 20 yrs ago, saws nice lumber. Offers: 780-349-2798, Westlock, AB.

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The Seeds Regulations prohibit the advertisement or sale of common seed of the major crop kinds by variety name. A variety name may only be applied to pedigreed seed that has been grown, processed, sampled, tested and graded as set out in the Seeds Regulations. Furthermore, seed of unregistered varieties of the crop kinds subject to variety registration may not be sold in Canada even when labelled as common seed.

For more information contact the Canadian Food Inspection Agency, Seed Section at: seedsemen@inspection.gc.ca or phone 1-800-442-2342

CEREAL SEEDS

BARLEY 6404

CERTIFIED CDC Copeland, AC Metcalfe, AAC Synergy. Fraser Farms, Pambrun, SK, 306-741-0475, foc@sasktel.net

CERTIFIED #1, high germ: AC Metcalfe, CDC Copeland. Seed Source, Archerwill, SK, 306-323-4002.

CERTIFIED #1 CDC Austenson, Ennis Seeds, 306-429-2793, Glenavon, SK.

CERT. AC METCALFE, 99% germ., 96% vigor, 0% smut, 0% fus., 49.4 kernel weight, will be cleaning late Jan. \$8.25/bu. Olynick Seeds, 306-338-8078, Quill Lake, SK.

CDC COPELAND, Fdn., Reg., Cert. top quality seed. Widely accepted malt variety. Inquiries welcome. Volume discounts. Gregoire Seed Farms Ltd., North Battleford, SK., cell 306-441-7851 or 306-445-5516. gregfarms@sasktel.net

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CERTIFIED CDC Copeland & AC Metcalf. Call Trawin Seeds, 306-752-4060, Melfort, SK. www.trawinseeds.ca

CERTIFIED & REGISTERED: AC Metcalf. B4 Seeds, 306-752-2564, 306-921-9424, 306-921-7924, Melfort, SK.

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CERT. MAVERICK, COWBOY, Austenson, Copeland. Excellent germ, fusarium free. Call Don at 780-853-0971 or Eric at 780-581-5234, Vermilion, AB.

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TOP QUALITY CERT. #1 CDC Copeland, AC Metcalf, Newdale. Frederick Seeds, 306-287-3977, Watson, SK.

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CERTIFIED AC Metcalfe, AC Newdale, CDC Copeland, Legacy, CDC Austenson, CDC Maverick, CDC McGwire. Van Burck Seeds, Star City, SK 306-863-4377. www.vanburckseeds.ca

CERTIFIED CDC Austenson & Maverick feed barley. Trawin Seeds, 306-752-4060, Melfort, SK. www.trawinseeds.ca

CERTIFIED #1 Metcalf(2R) & Legacy(6R). Fenton Seeds, 306-873-5438, Tisdale, SK.

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CERT. FDN, REG. CDC Precision; CDC Alloy; AAC Spiffire; Transcend. Exc. germ., 0% fusarium. Fraser Farms 306-741-0475, Pambrun, SK. foc@sasktel.net

MAXIMIZE ON YIELD with CDC PRECISION, CDC ALLOY, AAC SPITFIRE. Proven variety - TRANSCEND. All exc. germ, 0% fus. gram. Printz Family Seeds, Gravelbourg SK, 306-648-3511, 306-380-7769.

AAC SPITFIRE, TRANSCEND, top quality. Wiens Seed Farm 306-377-2002, Herschel, SK.

CERTIFIED AAC SPITFIRE, excellent germ and vigour, 0% fus gram. Call Myles, 306-648-8337, Gravelbourg, SK.

OATS 6410

CERTIFIED MORGAN, RUFFIAN, HAYMAKER, Kerber Seeds, 306-232-4474, Rosthern, SK.

CERTIFIED #1: C.S. Camden. Lung Seeds Ltd. 306-368-2414, Lake Lenore, SK.

CDC NORSEMAN, CERTIFIED #1, 99% germ., 306-493-7409, Delisle, SK.

CERT. CDC RUFFIAN, CDC Minstrel, AC Morgan. Van Burck Seeds, Star City, SK 306-863-4377. www.vanburckseeds.ca

CDC BOYER, CERTIFIED #1, 99% germ., 306-493-7409, Delisle, SK.

CERTIFIED #1, high germ: CS Camden, CDC Ruffian, CDC Morrison. Seed Source, Archerwill, SK., 306-323-4402.

CERTIFIED Camden, Morgan, Baler and Haymaker. Trawin Seeds, 306-752-4060, Melfort, SK. www.trawinseeds.ca

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CERTIFIED #1 CDC Ruffian, AC Leggett & CDC Orrin. Fenton Seeds, 306-873-5438, Tisdale, SK.

CERTIFIED CDC HAYMAKER. Hickseeds 306-354-7998 (Barry) or 306-229-9517 (Dale), Mossbank, SK.

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#1 CERTIFIED CS Camden oats, 99% germ. Available at Sunset Road Seeds, Richard, SK, more info call Randy at 306-481-5252.

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TRITICALE 6416

CERT. SUNRAY TRITICALE. Nutrient densified for enhanced emergence and yield. 403-633-9999, www.fabianseedfarms.com

NEW AAC DELIGHT, beardless spring. Nutrient densified for emergence & yield. 403-633-9999, www.fabianseedfarms.com

CERT. BOBAC BEARDLESS fall triticale, excellent for cover crop. Nutrient densified for enhanced emergence and yield. 403-633-9999, www.fabianseedfarms.com

WHEAT 6419

CERTIFIED #1 AAC Jatharia VB wheat, new, Middle tolerant. Shewchuk Seeds, 306-290-7816, Blaine Lake, SK.

NEW WHEAT KING! Certified #1 AAC Brandon, 98% germ. Nakonechny Seeds, 306-932-4409, Ruthilda, SK.

Cert. CDC LANDMARK VB: high yielding, midge resistance, semi-dwarf, 99% germ., 0% disease. Printz Family Seeds, Gravelbourg, SK, 306-648-3511, 306-380-7769.

CERTIFIED CARDALE, AAC Redwater, CDC Utmost VB, CDC Landmark VB, Pasteur. Van Burck Seeds, 306-863-4377, Star City, SK. www.vanburckseeds.ca

CERT. #1, high germ: CDC Landmark VB, AAC Cameron VB, AAC Jatharia VB, CDC Utmost VB, AAC Brandon. Seed Source Archerwill, SK, 306-323-4402.

CDC LANDMARK VB, AAC BRANDON, AAC PREVAL VB, top quality. Wiens Seed Farm 306-377-2002, Herschel, SK.

WHEAT 6419

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FDN, CERT & REG. CDC Landmark VB, CDC Utmost VB, CDC Plentiful, AAC Redberry, AAC Tenacious, B4 Seeds, 306-752-2564, 306-921-9424, 306-921-7924, Melfort, SK.

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CERTIFIED #1 CARBERRY, Ennis Seeds, 306-429-2793, Glenavon, SK.

CERTIFIED AAC BRANDON, AAC Jatharia. Call Grant, 306-746-7336, 306-524-4339, 306-746-8070, Semans, SK.

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EXCELLENT QUALITY CERTIFIED #1: AC Andrew, SY Rowyn, Faller, Penhold & AAC Sadash. Call Frederick Seeds, 306-287-3977, Watson, SK.

REGISTERED/CERTIFIED #1: CDC Landmark, AAC Brandon, AAC Jatharia, Cardale, CDC Utmost. Ardell Seeds, 306-668-4415, Vanscoy, SK.

AAC ELIE, CWRS, CERT. top quality seed, sister wheat to AAC Brandon. Very high yielder with high protein. Positive reviews from growers. All inquiries welcome. Volume discounts. Gregoire Seed Farms Ltd., North Battleford, SK., cell 306-441-7851, 306-445-5516. gregfarms@sasktel.net

AAC JATHARIA VB, certified #1, 99% germ., 306-493-7409, Delisle, SK.

NEW CERTIFIED CDC LANDMARK VB; AC Andrew soft white, very good quality. 306-843-2934, Wilkie, SK. www.herle.ca

CERTIFIED AAC BRANDON, AC Elie, Carberry, Stettler & AC Andrew. All high germ, low to no fus. 306-441-6699, 306-441-6799, Paynton, SK. farmerdutton@gmail.com

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REG./CERT. AAC BRANDON. Nutrient densified for enhanced emergence and yield. 403-633-9999, www.fabianseedfarms.com

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FLAX 6443

CERT. CDC Sanctuary, CDC Sorrel, CDC Bethune, AAC Bravo. Fraser Farms, Pambrun, SK, 306-741-0475, foc@sasktel.net

CERTIFIED CDC SORREL. Van Burck Seeds, 306-863-4377, Star City, SK. www.vanburckseeds.ca

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PASTURE RIDER REQUIRED for 2018 season. Monet Pastures Ltd., Elrose, SK., requires a full-time seasonal pasture rider to help care for 1950 cow/calf pairs May 1st to November 1st. Must supply own horses and tack. Experience with cattle disease is mandatory. Valid driver's license required. Must be able to rope and treat cattle in open pasture. Housing available. Wages \$23 to \$30/hour based on experience. For more information contact: Luke Ellingson 306-378-7451, Tim Calwell 306-378-7554, or email calseeds@sasktel.net

FARM MANAGER: PAGE Farms is seeking a Farm Manager for the 3000 ac. grain farm SW of Winnipeg. Candidate must have exp. in all aspects of grain farming, as well as plan and execute for all areas of the farm (inputs, supplies, marketing, relationship building, employee mgmt., maintenance of equip., building & facilities, record keeping, book keeping & more) in an efficient & cost effective manner. Must be mechanically inclined & have a class 1A license (or be willing to obtain one). The position is salaried (will depend on experience) and also includes housing, vehicle & cell phone. Great opportunity for a family, has a supportive community & schooling nearby. To apply, forward resume with references & cover letter to pagefarm@mymts.net or mail to: PAGE Farms, Box 59, Starbuck, MB R0G 2P0. Deadline: March 15, 2018.

FULL-TIME FARM LABOURER required for mixed farm. Valid drivers license required. Housing avail. Provost, AB. Fax resume: 780-753-2962 or ph 780-753-2952 or email: p_murray@live.ca

FARM & RANCH HELP Wanted in southern Saskatchewan. Must have some experience and drivers licence is an asset. 306-537-2624.

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FARM LABOUR REQUIRED: FT, 1A license & at least 2 years farm experience is necessary. Operation of all farm equipment, tractors, sprayer, combines, grain cart, semis and augers. Equipment maintenance & repairs. Need someone who is able to work independently, takes pride in their job, strong work ethic, positive attitude & willingness to learn. Call 306-272-7038.

PASTURE RIDER REQUIRED for 2018 season. Monet Pastures Ltd., Elrose, SK., requires a full-time seasonal pasture rider to help care for 1950 cow/calf pairs May 1st to November 1st. Must supply own horses and tack. Experience with cattle disease is mandatory. Valid driver's license required. Must be able to rope and treat cattle in open pasture. Housing available. Wages \$23 to \$30/hour based on experience. For more information contact: Luke Ellingson 306-378-7451, Tim Calwell 306-378-7554, or email calseeds@sasktel.net

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OYEN: The Special Areas Board requires a Grazing Reserve Supervisor for the Sounding Creek Community Pasture. This pasture is located 10 miles north of Oyen, Alberta and consists of approximately 43,000 acres of native range.

Under the supervision of the Administrator of Special Areas No. 2, the responsibilities of the position include: range management; admitting, doctoring and removing cattle; record keeping; liaison with patrons; maintenance and repair work on buildings, fences, water systems and corrals; and supervision of an assistant rider from spring to fall. Duties are completed with considerable independence.

Living accommodations are provided and the successful candidate would be required to live on site.

QUALIFICATIONS: Considerable experience in livestock management under range conditions; proficient riding and roping; or a combination of education and experience. Previous community pasture experience would be an asset. Valid Class 5 Driver's License is a requirement. The successful candidate must supply their own stock trailer, horses and tack. Additional information may be directed to Brett Richards, Administrator Special Areas No. 2 at (403) 854-5623.

COMPETITION NO: 30077 CLOSING DATE: Open until suitable candidate is found

This is a designated safety sensitive position and mandatory drug testing will be conducted on all newly hired employees.

Please send an application form and/or resume quoting competition number to:
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THE WESTERN PRODUCER

First Nations cowboy communes with his horses

Natural horsemanship is a philosophy of horse handling based on the animal's instincts

BY JAMES SNELL
FREELANCE WRITER

Jordan Camille lives at the north-western tip of the great western desert, which stretches from Durango, Mexico, to the Deadman Valley west of Kamloops, B.C.

Cactus- and sagebrush-covered hills reach up to burned-out, pine-covered mountains. Mile-high limestone and basalt cliffs preside over alfalfa crops in summer. In winter, brown grass and snow mix with cattle on the open range.

Camille, a member of the Tk'emlúpsenc First Nation, is a natural horseman, which is a philosophy of horse handling based on the horse's natural instincts.

Tk'emlúpsenc means people of the confluence, and the name has special meaning for Camille, who lives with his family near the intersection of the Thompson and Deadman rivers.

Straddling two rivers and two worlds, the Camille acreage is walking distance from Skeetchestn village, characterized by an old white church, a fenced-off graveyard and a new school.

Camille's operation, with its popular trees and covered arena, serves as horse-training centre and equine psychiatric hospital, a place where petulant geldings, ill-tempered mares and their owners come for direction and healing.

The doctor is in today. Camille, 32, clad in dusty blue coveralls and a silver belly hat, is writing prescriptions for gentleness.

"Great horses are the result of respectful relationships," he says. "Considerate and mindful teachings lead us down the path of excellence."

A chattering magpie lands on the corral fencepost as Camille removes his hat. Steam rises from his thick black hair. He stands about six feet tall and looks about 20 years old.

"This all started before I could even walk," says the father of three boys.

"The Kamloops Indian Band is really rich with horsemen and cowboys. I was just lucky enough to be

Respect, plus confidence, equals an understanding. That's the essence of good horse-human relationship.

JORDAN CAMILLE
TK'EMLÚPSENC FIRST NATION

born at the right time and into the right community. But like any reserve, there are gangs and violence.

"My mother, Marlene, was very strict ...

"There were times when she seemed like the meanest person in the world, but our relationship has grown between then and now. I give her a lot of credit for where I'm at."

Camille looks skyward. Low clouds hang in the valley. An empty logging truck rattles up the Deadman-Vidette Road. He walks toward the river.

"When I was 11, I had to irrigate the hayfield next to my house. I wasn't like some of the other kids, who just turned their horses out to range."

After high school, Camille attended Olds College in Alberta and became a bronc rider on the western Canadian rodeo circuit. After multiple concussions and a broken shoulder, he became a racehorse exercise rider in Edmonton.

"I got thrown off a lot. I was really broke too. I had time to think about my relationships on my long walks home."

Camille's painful experiences gradually formed the axis of his career in natural horsemanship.

He moved to the Deadman Valley in 2011, and married his wife, Candice, in 2012.

"Respect, plus confidence, equals an understanding," says Camille.

"That's the essence of good horse-human relationships. Is the horse going to respectfully move his feet in a manner that I ask? I don't want an impulsive horse who's going to run off or buck or hide."



Jordan Camille grew up in a community with a rich horse tradition, which he has put to good use. | CANDICE CAMILLE PHOTO

Camille is a student of world-renowned horse trainer Glenn Stewart, who operates a natural horsemanship ranch outside Fort St. John, B.C.

Camille says natural horse training methods focus on time and building a relationship with the animals.

"As Glenn Stewart says, the horse doesn't care if you have a saddle with pink hearts all over it, or an \$80,000 truck and trailer rig. Horses care about the time you spend with them."

Camille says there are bad examples of horse-human relationships. "Sometimes the equation gets out of balance. You can have a horse that's confident, but also disrespectful. So, when you ask for respect, you don't get it.

"People will say they have a good

relationship with their horse. But then you look at them and the horse is walking all over them," says Camille.

"They're shoving it away during feed time. That's not a good relationship, but some people will believe it is.

He says people who buy a horse must be realistic about what they want and what they have to offer.

Positive reinforcement, he says, is critical. The horse should be rewarded even for small attempts at a task.

As well, he says, horse trainers have to be careful not to lower their overall expectations because it's important to build from the small attempts.

"We don't want a 50 percent outcome. We want 100 percent. Find a balance. You can overcook a lesson

and it can cause the horse to become arena-sour.

"They'll hate their job."

Camille says he looks at horses the same way he looks at people.

"Do I want someone who's going to steal from me, or stab me in the back and rape me when I'm not looking?"

Camille throws a rock into the river. It skips off a boulder and lands on the other side. Light snow is falling.

The Deadman Vidette Road serves as a time machine that ushers people into the future and into the past. Where they land depends on their chosen direction. The valley's rattlesnake hills and arid cliffs carry the echoes of western history.

Here, in this landscape, Camille seems to straddle both future and past.

Timeline shows how baby milk-salmonella scandal developed

PARIS, France (Reuters) — French dairy giant Lactalis is scrambling to get on top of a growing crisis, with dozens of babies infected with salmonella after drinking tainted baby formula produced by the company.

Following are details on the family-owned group and the health scare that has led to the threat of multiple lawsuits.

- Lactalis is a privately held firm and the world's largest producer of cheese and one of the world's largest dairy groups. It was founded in Laval, southwest of Paris, in 1933.

- It now has 75,000 employees and 246 factories in 47 countries across Europe, the Americas, Asia and Africa, and says its annual sales are worth about around C\$26 billion.

- The crisis has forced the famously private company to try to be more transparent. Chief executive officer Emmanuel Besnier, a 47-year-old who rarely shows his face in public, has been forced to give his first interviews since he took office in 2000.

- The crisis began on Dec. 1, 2017, when tests by the French Health Ministry confirmed that 20 babies

had been contaminated by formula produced at the Lactalis factory in Craon, western France.

- On Dec. 2, it issued a recall of 12 suspected baby milk batches, followed by a further recall of 625 batches on Dec. 12 and a third on Dec. 21.

Lactalis halted operations at the factory on Dec. 8 and announced on Jan. 11 the temporary layoff of 250 workers.

- On Jan. 12, Lactalis said it would take back all products ever produced at Craon — about 12 million baby milk tins in France and abroad, from China to Algeria

and Spain.

- The contaminations have been linked to a salmonella outbreak in 2005 at the Craon plant, then owned by Celia, which contaminated more than 140 babies. Lactalis took over Celia in 2006.

The salmonella is believed to have been revived following work in the factory in the first half of 2017.

- Lactalis has promised to compensate affected families and said it will permanently close the facility at the Craon plant, in which the salmonella was discovered.
- France's Institut Pasteur, the

research centre that monitors salmonella, says more than 200 babies have been contaminated since 2005 with Salmonella agona, the bacteria found at Lactalis' Craon factory.

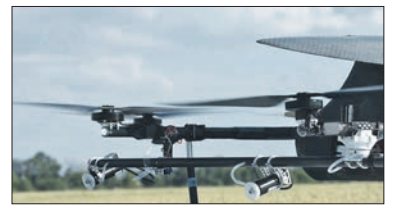
Of these, 141 were contaminated in 2005, another 25 between 2006 and 2017 and 38 in the latest outbreak.

French health authorities have said 36 of the 38 cases last year were clearly linked to Lactalis milk, as well as one in Spain and a suspected one in Greece. A group representing victims' families say at least 10 more cases are unaccounted for.

PRODUCTION

THE SPRAY DRONES ARE COMING

A mid-sized, unmanned aerial vehicle can cover 40 to 50 acres per hour. | **Page 62**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM

Big data might equal bigger profits

Precision ag can be simplified with profitability maps

BY ROBERT ARNASON
WINNIPEG BUREAU

It sounds like the opening line of a lame joke: three economists walk into an agricultural trade show and...

It isn't a joke. It's something that happened to Keith Coble, agricultural economist at Mississippi State University, when he attended the Commodity Classic, an annual event for American corn and soybean growers.

Coble and two other ag economists walked up to a booth of a "major agri-business" company and began talking to a sales rep.

The conversation turned to precision agriculture and then turned into a heated discussion.

"We ended up in a huge argument about whether yield maximization was the same as profit maximization," said Coble, who told the story at the Canadian Agri-Food Policy Conference, held in late January in Ottawa.

The economists, despite their best efforts, couldn't sway the sales rep.

He was steadfast — yield maximization and profit maximization are the same thing.

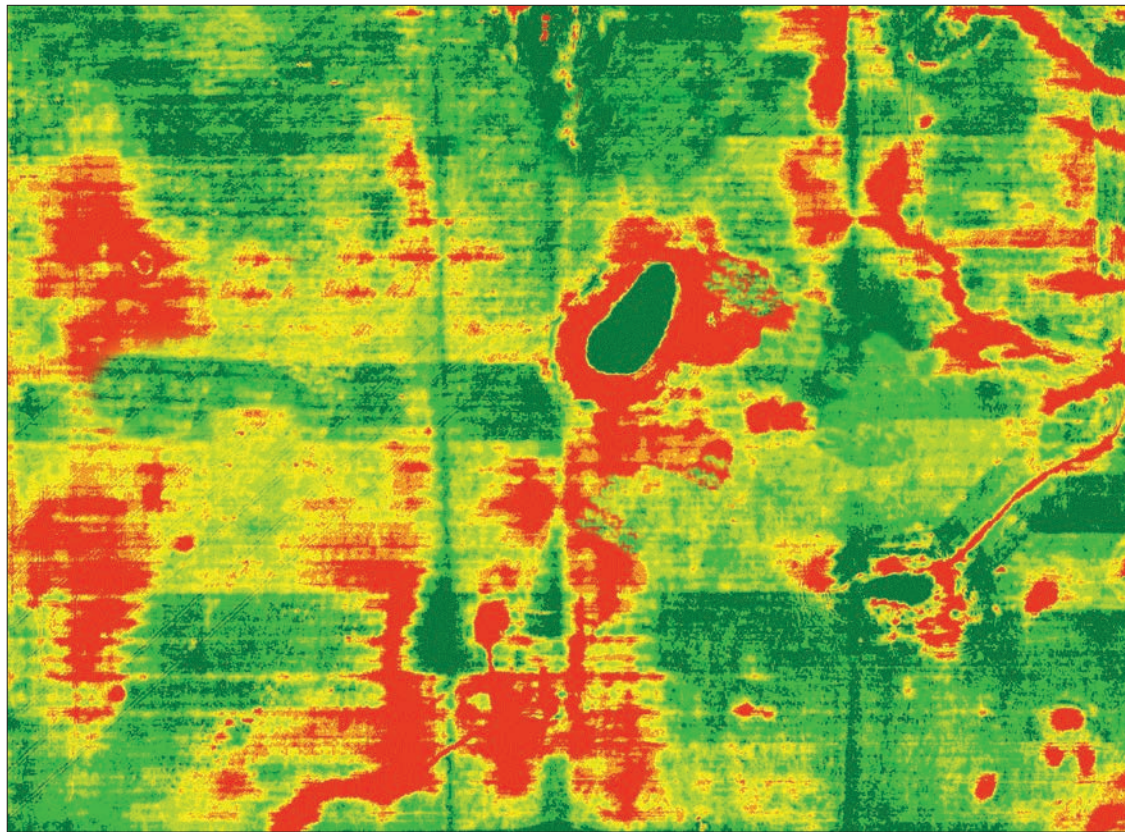
Coble said that might be true in rare circumstances, when corn is at \$7 per bushel, but most of the time they're not the same.

"The idea that you would try to maximize yield to make you more money isn't consistent with economics," said Coble, who spoke about the role of Big Data in agriculture at the Ottawa event.

The encounter with the stubborn sales rep made an impact on Coble. He realized that ag economists should speak up and denounce this sort of misinformation, particularly when it comes to precision agriculture.

"I think one of the (issues) on variable rate technology, that we as economists should be pounding on, is telling producers, 'look, your input supplier may have an incentive to convince you that yield maximization equals profit maximization,'" Coble said.

"(But) farmers, especially when



Data from all farm sources can be seen in many ways, like this map. | FILE PHOTO

things: it has to show profitability and it has to show a positive environmental impact.... Otherwise, it's marginally useful. What's wrong with precision ag at the moment, in my opinion, is (that) nobody is making money using it. And secondly, is data overload."

That's why a profitability map, showing which parts of a field generate the most profit or lose money for a grower, is an easy way to compress the benefits of data into a clean platform, he added.

"Every combine today tracks the variability in yield across a field. Every farmer knows where the good parts of their field are and where the poor parts (are)," Swanton said.

"Putting a dollar value to it brings everything to a common denominator that everyone clearly understands."

The idea of a profitability map for a farm field is not new.

Alberta Agriculture has information on its website about Money Map, which shows profit and losses within a field. The website dates from 2001 and tells readers that the Money Map software can be used on Windows 95 or Windows 98.

Money Map may have never caught on, but the time may have arrived for profitability maps. Swanton said they make sense for growers and members of the public, especially people worried about the sustainability of farming.

"Now, for the very first time, the link can be made that you can actually farm profitably and (connect) that to environmental stewardship," he said, by using less fertilizer, water and pesticides or choosing to forgo land that isn't profitable. "There are certain parts of a field that may not be profitable, no matter what you do.

"(Maybe) you put that land aside and put a cover crop (in) or some bee habitat in there or some trees in there. You make it support some ecosystem services."

robert.arnason@producer.com



KEITH COBLE
AGRICULTURAL ECONOMIST

commodity prices are not as high, they've got to make some tough choices about where are they going to cut back.... Farmers need to be figuring out, are there portions of the field that (are) just not worth farming... or put the fertilizer on the valuable part of the field and leave the marginal portion."

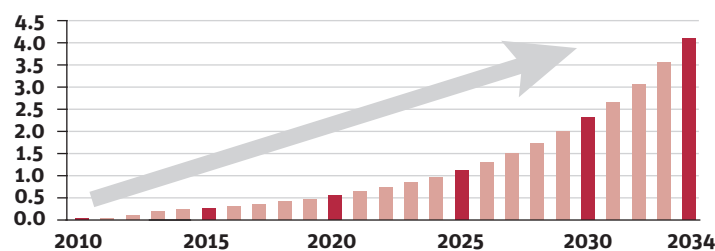
In fairness, most advocates of precision agriculture and Big Data say the technology can help growers boost yields and cut input costs, thus increasing profitability.

One of the key questions for growers is how to sort through the avalanche of data, which sensors on tractors and combines now gener-

THE AGE OF BIG DATA IS COMING

Data generated by farming practices has been jumping over the past five years, but more is to come, a lot more. Machinery sensors from seeding to find grain storage are creating bushels of information and with each new sensor that arrives on the farm comes more. Today less than 500,000 data points are being generated daily on a typical farm. By 2035 it will be more than 4 million.

Daily data generated by average farms* (in million data points):



Source: BI Intelligence | MICHELLE HOULDEN GRAPHIC

*all data are estimates

ate, to find an information tool that actually does boost profitability.

Coble said noise from all the data collected on farms is only going to get louder.

He provided estimates on the amount of data the average farm will produce in the near future:

- In 2016 the average (U.S.) farm generated about 100,000 data points, per day.

- By 2036, that could reach four million data points, per day.

Clarence Swanton, a University of Guelph professor of plant agriculture, said something already exists to distil an Olympic swimming pool of data into something useful.

"A simple, basic starting point, in my opinion, is a profitability map," he said.

"Precision ag has to do two



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The heat of a July day distorts the view of two different varieties of winter wheat on the Raine farm near Wilcox, Sask., but even the heat waves don't mask the varietal differences. | MICHAEL RAINE PHOTOS



Radiant, once a top variety of western Canadian winter wheat, is only accounting for seven percent of acres.

Emerson freezes out other western winter wheat

New varieties expected to gain ground

BY BRIAN CROSS
SASKATOON NEWSROOM

Emerson, a red winter wheat variety with improved resistance to fusarium head blight, continues to command more western Canadian acres than any other winter wheat variety.

But newer varieties such as CDC Chase, AAC Elevate and AAC Wildfire are likely to gain acres over the next few years, especially in areas where fusarium pressure is lower.

Rob Graf, a winter wheat breeder with Agriculture Canada, said new winter wheat varieties will offer growers more options and higher yield potential.

But Emerson's fusarium ratings will continue to attract growers in the eastern Prairies, he added.

Emerson, developed by Agricultural Canada and distributed by Canterra, accounted for an estimated 36 percent of all winter wheat acres grown on the Prairies in 2017, followed by AAC Gateway (19 percent), Moats (12 percent), CDC Buteo (seven percent) and Radiant (seven percent).

"Emerson (is) the most popular across Western Canada, (especially) in Saskatchewan and Manitoba" said Graf, citing statistics from the Canadian Grain Commission's Insured Acreage Report.

"Quite frankly, that was a little bit of a surprise to me.... It was thought initially that Emerson would be more of a niche variety... because it did carry with it somewhat of a yield penalty."

"But the disease resistance on this variety — particularly the fusarium resistance — has really carried the day and, in fact, in Manitoba, it's also among the top-yielding varieties so we're not seeing that expected yield decrease there."

In a recent presentation to winter wheat growers in Saskatoon, Graf highlighted promising winter wheat varieties that are likely to see good uptake by winter cereal growers.

Emerson has become a go-to variety across the West, thanks to its disease resistance package,

good winter hardiness, short straw relative to Buteo, improved straw strength and slightly improved protein levels.

In the eastern Prairies, Emerson's protein is typically half a percent higher than the winter wheat check variety, CDC Buteo.

But other varieties are generating interest as well.

AAC Gateway, for example, has gained acreage quickly since its commercial release in 2015, especially among growers in Manitoba and Alberta.

"Gateway has become quite popular in both Manitoba and Alberta, although not so much in Saskatchewan," Graf said.

"In terms of yield, it's very much like Buteo.... Winter hardiness is fair, much like CDC Falcon was."

Gateway's protein levels are typically half a percentage point higher than Buteo's.

For specifics on yield, protein, winter survival and disease resistance, growers should check their provincial seed guides.

CDC Chase is another promising variety that shows significant potential.

Registered in 2013, seed supplies of Chase only became available to commercial growers last fall but in provincial trials, it showed a sizable yield bump over check varieties.

"I see this as a potential replacement for Moats," Graf told growers.

"It has a nice yield bump over Buteo ... and winter hardiness is fair."

Over nine years of post-registration testing, Chase yielded nine percent higher than Buteo in the brown and light-brown soil zones of Saskatchewan and 10 percent higher in the black and grey soil zones.

Protein is slightly higher than check varieties and straw strength is rated as fair to good.

AAC Elevate is another new variety that combines good yield potential with good winter survival and very good lodging tolerance, according to Saskatchewan trial data.

Yield results have been particularly impressive in southern growing areas where rainfall and soil moisture are typically limiting factors.

AAC Elevate became available to commercial growers in 2017. In post-registration trials, it outyielded Buteo by 10 percent in Saskatch-

ewan's brown and light-brown soil zones.

According to the *Saskatchewan Seed Guide*, it offers moderate resistance to bunt and stem rust, intermediate resistance to leaf rust and fusarium head blight, but is moderately susceptible to stripe rust.

"One thing I will say about Elevate is that... in southern Alberta... in extreme drought, this (variety) really shines," said Graf.

"In fact, in 2017, at all of our southern Alberta locations, we had AAC Wildfire and Elevate in the same trials and you would swear looking at them that Wildfire would be the higher yielding variety but (it wasn't). In those extreme drought conditions, it was Elevate."

Despite playing second fiddle to Elevate in southern Alberta, AAC Wildfire is generating excitement

for its high yield potential.

Although seed will not be available to commercial growers until the fall of 2018, trials in Saskatchewan over the past five years show Wildfire yields 16 to 17 percent higher than Buteo across all provincial soil zones.

Winter survival is rated as very good and lodging ratings are good.

Maturity relative to CDC Buteo is very late.

"There's lots of excitement about this one," Graf said.

AAC Goldrush also showed a significant yield advantage over Buteo in post-registration tests conducted in Saskatchewan.

Over four years of trials, Goldrush out yielded Buteo by 13 percent in brown and light-brown soil zones and by 20 percent at test sites in the grey and black soil zones.

Certified seed for AAC Goldrush may be available in the fall of 2018.

Overall, total winter wheat plantings in Western Canada declined for the sixth consecutive year last fall and are expected to hit their lowest levels since the late 1990s.

Seeded acreage across the Prairies was estimated at 335,000 acres last autumn, down from a high of more than 1.5 million acres 10 years earlier.

"The question is, is it a continuing trend or will we shoot back up to five or 600,000 acres next year and then be back to a normal level?"

Your guess is as good as mine."

About 90 percent of the winter wheat grown in Saskatchewan comprises Canada Western Red Winter varieties.

brian.cross@producer.com



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The drones are coming to spray your crops

BY ROBIN BOOKER
SASKATOON NEWSROOM

Roga Drone is the first company to receive Transport Canada approval to apply crop protection products with a drone.

"We thought there might be a little niche of aerial applications of pesticides by drones," said Don Campbell of Roga Drone.

Getting the Transport Canada special flight operating certificate for aerial application by unmanned aerial vehicles (UAV) was a lengthy process. Most aviation regulations are written for manned aircraft, and some do not apply to drones.

Campbell's first step in the process was to obtain his aerial application licence.

"In the aircraft regulations, there is a stipulation you cannot drop, disperse or jettison anything from aircraft. We had to apply for an exemption, much like manned aircraft do for crop dusting," he said.

Campbell also achieved a ground school certificate through M3 Aerial Productions. He said the regulations he has to follow for aerial pesticide applications are similar to the regulations for drone photography.

"You have to have one pilot for each drone, a visual observer, line of sight, those kind of things," he said.

Kray Technologies hybrid UAV

Roga Drone will use a Kray Technologies hybrid UAV that uses both lift rotors and a fixed wing.

"It's an octocopter. It has eight rotors for lift and also has a fixed wing that carries the boom and that carries about 70 percent of the load. It also has a prop on the nose of it and that's where it gets its forward speed," Campbell said.

The drone is a little more than 10 feet wide, has a 16.5-foot boom, and a 15 kilogram payload.

When the wings are folded, the drone is six-by-six foot square, enabling operators to move it with a pick-up truck.

The drone takes off and lands vertically.

"The package that it comes in, when you take it to the field you can fold it out and lay it down and that's your launch and landing pad," Campbell said.

The drone flies about 95 km-h at one metre above the canopy. It is fully autonomous. Because of its high travel speed and low flight elevation, operators struggle to effectively fly it manually.

"You basically map in your mission beforehand, press the start button and it goes out and flies a pattern in the field. It has sensors to detect low volume or low battery. It comes back and lands, you refill, then it will go back out to where it stopped and restart from there again."

Campbell said the UAV can be refilled with product in about a minute, including changing out its batteries if needed.

"With that 16-and-a-half-foot boom, we can probably do 40 or 50 acres an hour, depending on the label rates and how much we're applying," Campbell said.

Growers do not require field maps before using the Kray Technologies UAV, but Campbell recommends pre-scouting fields for obstacles.



Don Campbell of Roga Drone has the Transport Canada special flight operating certificate for aerial application by UAV. | ROGA DRONE PHOTO

"It has its own proprietary software, so you can just go out and pre-plan your mission on the field that you're going to go to. It's not necessary to fly the field beforehand."

The Kray Technologies drone retails for US\$50,000.

If a grower wants to use the drone for spot applications on a field, the UAV can also follow pre-prepared variable application field maps.

To reduce spray drift, the drone flies low and uses the downwash air-flow caused by the eight rotors and rotary atomizer nozzles designed specifically for drones.

The limited product capacity of the drone requires it uses low volume application rates, which will limit the products it can effectively apply.

"We are using ultra low volume applications, basically cutting the water back. That's why I said originally, we think it's going to have an ideal fit for some insecticides that use ultra-low volume. Some of the herbicides and fungicides we are going to have to do some testing and research on to see if they have a fit," Campbell said.

Services offered this summer

This summer Roga Drone plans to offer commercial application services, but its focus will be on testing how effective the drone is at applying products.

The company has applied for research funding and is working with chemical companies to see how well it applies their products.

Roga Drone has been approved for mosquito control spraying and has interest from municipalities that want to try the UAV out.

Campbell doesn't believe spraying crop protection products with a drone will replace ground rigs or airplane applications anytime soon, but these UAVs will have a place.

For instance, Roga Drone's latest application to Transport Canada is for night-time spraying, which would give this technique an advantage.

"You could spray 24-7, keeping in mind you would have to watch for inversions at dusk and stuff like that," Campbell said.

robin.booker@producer.com



TOP: The Kray drone rotary atomizer nozzles are designed specifically for drones. | KRAY TECHNOLOGIES PHOTO

BOTTOM: Roga Drone will use Kray Technology's eight-rotor, hybrid UAV to spray from a 16.5 foot wide boom. The company is planning to cover 40 to 50 acres per hour, depending on label rates of the pesticide being applied. | DON CAMPBELL PHOTO



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Fall rye cover crop reduces erosion, salinity

North Dakota research finds that crop's fibrous root system helps to build soil aggregates, which improves water infiltration



A U.S. Department of Agriculture researcher has found that a fall rye cover crop creates an excellent soil environment for soybeans. | FILE PHOTO

BY ROBIN BOOKER
SASKATOON NEWSROOM

EDMONTON — Multiple resource issues can be addressed by adding a fall rye cover crop into prairie rotations, says Jay Fuhrer, soil health specialist with the U.S. Department of Agriculture.

"The big ones are salinity, wind erosion, water erosion, and building soil aggregates," he said after his presentation at Farm Tech in Edmonton.

"It also helps from a water quality viewpoint because any residual loose pools of N would be locked into the plant to be released when the plant dies."

Fuhrer, who studies planting soybeans into a fall rye cover crop for the USDA near Bismarck, North Dakota, said a fall rye cover creates an excellent soil environment for soybeans.

"Agronomically, coming in with a broadleaf into that grass makes for a nice environment for us, and it gives us an easy cover to no-till into," he said.

"In our region it's going to be primarily no till options. Very little hair pinning happens going into a standing green crop."

A grower asked Fuhrer during his presentation if the fall rye cover slows down soil warming in the spring, but he said it has the opposite effect.

"If we have somewhat collapsed soils that are compact, then we are not warming up from below because we don't have warm air coming up from below through the pore spaces," Fuhrer said.

"If we have good soil aggregation and good (water) infiltration built into our soils, then we are probably going to warm up from both directions. So a lot of it kind of depends on how healthy are our soils."

He said the fields on which they grow fall rye covers on didn't warm up well in the spring when they started their research. However, the soil warmed up faster as the soil aggregates improved.

It's the fibrous root system of fall rye that helps to build soil aggregates, which improves water infiltration, he said.

Growers have more control over

Agronomically, coming in with a broadleaf into that grass makes for a nice environment for us, and it gives us an easy cover to no-till into.

JAY FUHRER
U.S. DEPARTMENT OF AGRICULTURE

the amount of moisture on their fields when using a fall rye cover crop.

"If it's a dry year, it's going to be terminated in advance of seeding," Fuhrer said.

"So you might be a week or 10 days in advance of seeding that you would be looking at termination. If it's really wet, it's probably going to be much closer to your seeding window."

In wet springs the fall rye will reduce the amount of water evaporated from fields, which can cause salinity issues, because the crop uses up the water.

He said fall rye cover crops are also effective at suppressing weeds in the spring.

"We're all really concerned with weed tolerance to a lot of our herbicide package," he said.

"Here we get a lot of help with weed suppression, as well."

He said using fall rye cover crops also increases soil organic carbon over time.

Seeding rates for fall rye cover crops will depend on whether cattle will graze on the crop.

"If we're not going to bring livestock in, I might have a fairly light seeding rate. Maybe I'm going to use 40 pounds (per acre) in the fall," he said.

"If I'm going to bring in livestock, maybe I'm going to bring in 50 to 60 lb., depending on how early or late I seed in the fall."

Fuhrer has planted only soybeans into fall rye cover crops, but he thinks it's likely that other broadleaf crops could also be planted into the cover crop.

However, he thinks growers should always start with a small field when incorporating this technique into their operation.

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LIVESTOCK

THE DUKE WASN'T A DAIRY GUY

John Wayne once owned the Arizona property where he fed 87,000 beef cattle. Now it's a dairy operation with 12,500 cows. | Page 71



LIVESTOCK EDITOR: BARB GLEN | Ph: 403-942-2214 F: 403-942-2405 | E-MAIL: BARB.GLEN@PRODUCER.COM | TWITTER: @BARBGLEN

Light shone on poly cropping

Researcher not buying hype over feeding mixture of forage species in fall or early winter



There's been a lot of talk about poly cropping, but a leading prairie cattle researcher says there's no information about the economics of the practice. | FILE PHOTO

BY ROBERT ARNASON
WINNIPEG BUREAU

BRANDON — Bale grazing, swath grazing and feeding on standing corn have become standard practices on western Canadian cattle ranches.

The practices are collectively known as extended grazing, or stretching the use of pasture into the late fall and winter.

Research shows that bale grazing, swath grazing and corn grazing can dramatically reduce feeding costs.

They also improve soil fertility, when manure from the cattle is deposited on the pasture.

Another method to extend the grazing season is cover cropping or poly cropping, where cattle feed on a mixture of species in the fall or early winter.

Bart Lardner, senior research scientist with the Western Beef Development Centre in Lanigan, Sask., said there is great deal of buzz around poly cropping.

What's missing is data to back up that buzz, he said.

"Nobody is talking about the economics of these cover crops compared to swath-grazed barley, compared to bale-grazing systems, compared to corn grazing," said Lardner, who spoke at the Manitoba Beef Producers annual meeting, held Feb. 9 in Brandon.

Seeding a diverse mix of forage crops, in some cases 10 to 15 species, has been a recent hot topic in



BART LARDNER
WESTERN BEEF DEVELOPMENT CENTRE

North Dakota and other American states.

Hundreds of North Dakota farmers, many of them livestock producers, are using a cover crop cocktail designed to improve soil health and the sustainability of their farms.

The terms poly cropping and cover cropping are often used interchangeably, especially when it comes to grazing. Poly cropping can be described as multiple species planted together to complement each other and benefit the soil.

Another popular term is "cover crop cocktail": a mixture of species like vetches, ryegrass, fababeans, millet, clover, radish and turnips.

Poly cropping, or cover crops, aren't as popular in Western Canada but they are attracting notice.

Many proponents call it a transformative practice that drastically improves soil health, pasture performance and possibly cattle performance.

Lardner isn't buying it.

He wants to see hard data before he jumps on the bandwagon.

That's why the Western Beef Development Centre and University of Saskatchewan student Jacqueline Toews are looking more closely at cover crop mixtures.

Toews of Glaslyn, Sask., is pursuing a master's in animal science and her thesis is an evaluation of cover crops for soil health, animal grazing capacity and economics.

A Saskatchewan Forage Council report from 2017 said the study is expected to evaluate different cover crop mixtures, including brassicas like turnips and radishes, legumes and grasses.

The project is ongoing and it's too early to draw conclusions. Nonetheless, Lardner isn't sure about grazing a cover crop cocktail in the late fall or winter.

"Cover crops, I feel (there's) a really good window of maybe late summer, maybe early fall grazing. Maybe not through those cold winter months. They may not fit," he said. "Cover crops tend to be high moisture, so, they do freeze."

Another question mark is cost.

The seed for a poly crop mixture with 10 or 15 different species can be expensive.

"We need to do some of the work to look at the economics of that system, compared to our (other) extensive grazing systems," Lardner said. "Input costs

are pretty high."

He also worries about all the different species in a cover crop cocktail and how that relates to forage quality and animal health.

He's particularly interested in nitrate because high nitrate levels in forage can kill livestock.

"There's some anti-quality things we're not hearing about (with) poly crops," Lardner said. "Nitrate levels, pretty darn high.... We're seeing high sulfur and we're seeing high potassium."

The Western Beef Development Centre isn't the only group studying the value of poly cropping.

Scientists working in co-operation with Manitoba Beef and Forage Initiatives, a research farm near Brookdale, Man., are grazing cow-calf pairs on a nine-species poly crop in the fall. They want to understand how the forage mixes affect forage productivity, animal performance and the economics of grazing poly crops.

The project continues, but preliminary results suggest that seed costs are an economic issue. The seed cost for the nine-species mix was \$41.60 per acre. The average cost for 25 cow-calf pairs was \$2.92 per day. That's only slightly lower than their estimated feedlot cost of \$3 per day.

For more information on the MBFI research, go to bit.ly/2BZorcf.

robert.arnason@producer.com

Industry told to talk consumers' language when promoting pork

BY ED WHITE
WINNIPEG BUREAU

Pork promoters still aren't talking in the consumers' language, says a grocery expert.

That leaves them pushing the meat in a way that doesn't speak to consumers' hearts and ends up leaving more on the shelves than in shopping carts.

"We have to focus more on the benefits of buying the product," Peter Chapman, a former Loblaws senior manager, said during the Manitoba Swine Seminar.

"A lot of times when I see people talking about pork, it's more about the features, not the benefits of the product."

The pork industry often pushes the idea that pork is lean, rather than saying that it is healthy for your family, he said.

Chapman said the grocery system is boiling over with new approaches, new players and new ways of purchasing food.

Amazon got a lot of attention when it bought Whole Foods and moved into the physical retail world, as well as expanding its digital platform.

But a plethora of small, niche food players have also sprung up and are moving into the retail world.

Chapman offered Flat Tummy Tea as an example.

It promotes itself mostly online, sells meal replacements and "cleansing" tea powders, and has 1.4 million Instagram followers. It's a big deal, but few people outside of 18- to 28-year-old women have heard of it.

At the same time, the mainstream grocers are fighting with the big discounters and everybody is trying to find new ways attract consumers.

Another channel to the consumer is the "meal kits" of already portioned food elements that are sent directly to consumers' homes.

"If you want to get more pork on the fork, you need to start having your items included in those meal kits," said Chapman.

"They do the work for you."

Chapman said the pork industry does a lot right. It produces a quality product, supplies it reliably and can offer it at affordable prices.

But too much of its presentation to the consumer is still in the form of a bulk commodity, with only price and "value" elements promoted.

"We need to do more to tell people what's going on with these products. It's our job to sell them," said Chapman.

ed.white@producer.com

Pilot project aims to build rural vet service

Program is designed to attract and retain students by providing opportunities to experience life in rural practices

BY WILLIAM DEKAY
SASKATOON NEWSROOM

A new pilot project could help curb the declining number of veterinary services in rural Saskatchewan.

The Preceptorship Program has been launched by the Saskatchewan Veterinary Medical Association and the Western College of Veterinary Medicine at the University of Saskatchewan in Saskatoon.

Starting in May, it will run for 14 weeks and employ five third-year veterinary students in the province.

The program's goal is to attract and retain students in veterinary practice in outlying parts of the province by providing opportunities to experience mixed- and large-animal practices in rural settings.

"The aging demographic of our rural veterinarians is increasing," said Lorraine Serhienko of the SVMA.

"We're not at a crisis point. We're trying to be very proactive and starting early," she said.

However, at least two large areas of the province are currently experiencing a lack of veterinary services with about a two-hour drive to the nearest veterinarian.

Since 2008, 16 veterinarian practices have closed and not reopened. Of those, 13 serviced rural areas. New practices have opened, but most are urban.

Serhienko said mixed-animal practices have increased since 2008, but those are mainly ambula-

tory practices that lack full service facilities.

"We are seeing more trends of job sharing, part-time employment and rural veterinarians aging," she said.

Of the 312 veterinarians practising in Saskatchewan in 2017, 55 were over the age of 60. In the 40 to 59 age range there were 124 veterinarians and 133 were 25 to 39.

There are currently 137 veterinary practices in the province with 88 of these mixed animals.

Last year, 202 veterinarians were female and 110 were male.

"With the needs of livestock and pet owners changing, more veterinary services are needed in rural Saskatchewan," she said.

The Preceptorship Program, the first of its kind in Canada, is expected to address the challenges of hiring and retaining qualified veterinarians.

"We've tried to pick (students) for areas that have a high need or have a large service area. We picked based on what we thought would be the best to keep students in Saskatchewan and in those areas," she said.

Wages of \$10,000 in total over 14 weeks will be provided, with \$3,500 from the SVMA, \$3,500 from the practice and \$3,000 from the Preceptorship Program Fund.

Farms or organizations can also contribute to the fund, which is tax deductible.

Deana Schenher is looking forward to participating in the program this summer and has been looking for a full-time clinician to join her mixed animal practice for a



Five third-year veterinary students will be hired by rural practices starting in May. | GETTY IMAGES

couple years.

"I think this is definitely going to be a good step in the right direction," she said.

A WCVM 2007 grad, Schenher has owned and operated the Animal Health Centre in Melville, Sask., since 2009.

"We've come to realize that there seemed to be less and less opportunities to hire people and more and more vacancies across Canada (and the United States) for people in mixed practice, especially in rural areas," she said.

"And I don't consider Melville rural because we're a city, but it's

still a very, very hard thing for us to get people into a rural practice."

Schenher said she is not surprised that all five participating clinics have hired female students. A shift to more females has been evident for years, as has been seen in pharmacy, human medicine and law.

Most graduates choose to practice in larger urban centres over rural for a variety of reasons.

"Part of the problem is that many of the rural or mixed-animal practices tend to be either single or two practitioner practices and they feel that there is less interest in going

into a practice where there may only be one other veterinarian," she said.

Rural veterinary practices could do a better job of marketing, she added.

"The stigma of larger, mixed-animal practice has been that you work excessively long hours. It's really hard work and it's really unrewarding," she said.

But, she said, those days have changed.

"So the changes in the cattle industry, equine industry, and anything that you're doing large animal has become more evolved and clients are dealing with better education, better genetics, better practice management, which makes our jobs better."

Laci Schmidt is one of the third-year students accepted and is expected to join Schenher's Melville practice in May.

"I'm really excited and I think it will be a really good program because I always wanted to go into a mixed animal practice," she said.

Schmidt grew up on a farm and enjoys working with large animals, but wants the variety of small animals as well.

"I wouldn't want to just do large animal, but it would depend on the options when I graduate and see what's available to work for. But for sure I wouldn't just go into small animal. It would have to be mixed or possibly large animal," she said.

"I'm so happy to get in because I really want to work in Saskatchewan when I'm done."

william.dekay@producer.com

Pigs respond better in the barn if they get to know their handlers

BY ED WHITE
WINNIPEG BUREAU

How well do your pigs know your barn workers?

"Pigs see a head," noted British swine veterinary specialist John Carr at the Manitoba Swine Seminar, summing up most of the animals' interaction with humans working in the barn.

That's a problem, Carr argued, because if workers never get into the pens, they never become true animal handlers.

"If you actually get in with the pigs, what it does is actually make the pigs know who the hell you are. And I think it does teach stockmanship," Carr said Feb. 8.

Workers who stick to passageways rather than getting in among the pigs are one of many issues that Carr sees as plaguing most modern hog barn systems.

Many producers consider their systems to be high efficiency, but they really aren't because their management tends to be piecemeal rather than output-based.

He said production records often show oddly unco-ordinated activities in the barns, such as substantially different breeding numbers from week to week. When differing numbers of sows are bred, the piglets being farrowed a few months later on, the number of weanlings moved into pens and the number of feeder pigs moved into feeding barns will also be dis-

If you actually get in with the pigs, what it does is actually make the pigs know who the hell you are. And I think it does teach stockmanship.

JOHN CARR
VETERINARY SPECIALIST

jointed and inefficient.

Some weeks there will be too many and some too few, which is a problem for a fixed physical structure than can't expand and contract, and for which the farmer is making debt payments.

Carr said some problems come from the way barn workers and managers are paid, with incentives that push people to forget about the final result of trying to get the most pork possible to flow out of a barn.

If people are given bonuses for the amount of pig that leaves a barn, they can begin caring about the overall results of the barn, not just their own independent activities.

Carr thinks all aspects of hog barns could probably be improved. For example, much room in a barn, about 15 percent, is taken up by passageways. That's a lot of space devoted to activity that does not produce pigs.

If passageways are minimized by

creating bigger pens, that room can be better used.

That would require workers getting into pens more, but that's not a

bad thing.

"I employ stock people. Stock people need to be with stock. They're not passageway people."

Most of us employ passageway people."

ed.white@producer.com

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U.S. beef sustainability initiative faces hurdles

Questions remain about what sustainable beef production means, while distrust continues between groups

BY BARBARA DUCKWORTH
CALGARY BUREAU

PHOENIX, Ariz. — An American initiative established to advance beef sustainability has released a set of indicators designed to guide the sector toward becoming more economically, environmentally and socially sustainable.

But convincing those in the trade to get on board could be a challenge.

There is probably no extra money in it, there are lingering questions about what sustainable beef production means and a level of distrust continues as groups with divergent opinions meet at the

roundtable.

The United States Roundtable for Sustainable Beef consists of members from throughout the beef value chain. Its goal is the improvement in sustainability of the U.S. beef value chain.

McDonald's Corp., a charter member of the U.S. and global roundtables, plans a pilot with suppliers across the value chain to test the indicators, said company representative, Rickette Collins.

McDonald's customers want to know that it is a responsible player, she said.

"It is something we value in many of our supply chains," she said during a session at the National Cattle-

men's Beef Association convention held in Phoenix from Jan. 30 to Feb. 2.

The company promised by the end of 2020 to source a portion of its beef from sustainable suppliers in its top 10 markets that make up more than 85 percent of its beef volume.

Those who have to do the actual work on the ground said a checklist offers a path to continuous improvement for any operation that may already be doing a good job.

"That doesn't mean we can't get better. Continuous improvement is inherent in ranching," said California rancher Mike Williams.

"There are ways to educate and do research and do practices to show producers better ways to run their ranches. If you run your ranch better, you will see economic benefit," he said.

Representatives from the ranching community, feedlots and processors, as well as corporate partners like McDonald's and Cargill Meat Solutions, acknowledged lingering skepticism surrounds the program.

More companies are adopting the concept of sustainability as part of their corporate policies, said Glen Dolezal of Cargill.

But the program must offer practical, science-based and scalable solutions to manage environmen-

tal footprint, water resources, antibiotics, animal welfare, waste, worker safety and sustainable feed, he said.

"I believe the beef industry is sustainable today," said Tom McDonald, vice-president of JBS Five Rivers Cattle Feeding Co. and a member of the roundtable.

"I believe the fact that feed yards exist is a testament to the efficiency of our industry, not only doing more with less, but taking care of our people, our cattle and the environment and still making enough money to keep everything running is sustainability," he said.

Sitting down at the table with members from the environmental community was an uneasy experience, said McDonald.

"I didn't trust those guys," he said. However, part of the deal is working with groups that hold opposing opinions about food production.

"It is important to listen to all sides," said Dolezal. "We work with them because we don't want to be surprised. We want to know what is coming next."

Some members seated around the table may never see eye-to-eye, but there is a willingness to listen, said Williams.

"I may not agree with the World Wildlife Fund about wolves but maybe they are learning my economic viability is important to

wildlife sustainability," he said.

Canada's experience with non-governmental organizations has been mostly positive, said Dennis Laycraft, past-chair of the Global Round Table and executive vice-president of the Canadian Cattlemen's Association.

"The benefit of that co-operation is really quite remarkable," he said.

"They are changing more than we are changing as a result of the interaction of beef ranchers, feedlot operators."

Membership at the table is voted on so those groups seeking to destroy the beef industry are unlikely to get a seat.

Laycraft said connections are critical among opposing groups to prevent bad government policy. Proving beef production is a sustainable process could head off proposals like a tax on meat.

"If we don't connect with them, we are starting to see all these ill-conceived ideas," he said.

Canada has already launched its list of sustainability indicators and McDonald's tested the program to see if it was possible two years ago.

The next Canadian pilot project involves companies like Cargill and Cara Foods offering a financial bonus to those who provide certified sustainable beef.

barbara.duckworth@producer.com

Saskatchewan Seed Growers Association Seed For Thought

Interpreting Seed Test Results

By Jason Danielson,
Discovery Seed Labs

What a difference a year can make! The 2016 harvest was challenging for most farming regions in Western Canada. Fortunately, in 2017 the weather has not been as big of a factor in terms of adverse harvest conditions and poor crop quality. However, it is still important to have your seed tested to determine its quality.

Seed testing can give an indication of how fit your seed is for planting. Tests should be done for germination, vigour and disease. This package of tests can help you better understand how suitable seed will be for next spring.

The germination test will give you an indication of the percentage of seeds that will grow in an ideal growth environment. The vigour test indicates the percentage of seed that will grow in adverse conditions. Even though the vigour assay is not standardized between seed labs, the results should be indicative of the seed's fitness when grown in harsher conditions. Combining the information from the germination and vigour tests will give you a good snapshot of the fitness of your seed.

Ideally, the germination rate from your sample should be higher than 85%. The vigour should be close to the germination value; but if there is variation, it should be no greater than 10 percentage points. A large difference could be an indication of issues in the seed, especially if storage conditions over the winter months are not ideal.

If forced to use seed with a lower germination rate, you will have to increase the seeding rate to reach your target plants per square foot. Keep in mind that you cannot just increase the seeding amount by the percentage you are off from 100% as not all of the seeds you are adding to the increased seeding rate will germinate. A seeding rate calculator can be a helpful tool to determine the correct seeding rate.

Significant time between when your test was completed and when seeding will occur can result in your germination and vigour values dropping. You can retest your seed in the spring to determine if germination has changed from the initial test in the fall.

When performing your own germination tests, it can be challenging to determine if a seed has germinated and is healthy, versus a seed that develops weak roots that won't grow into a plant. Other issues such as fresh and hard seeds, in addition to seed dormancy, can lead to inaccurate results. A certified seed analyst is trained to conduct seed tests.

Disease is present in a surprising number of 2017 samples. The disease could be caused by higher populations of carry-over disease in the soil, untimely rain showers in the fall or a humid crop canopy. Some of these samples have disease levels high enough to result in concern when choosing seed for 2018.

There are different diseases of interest depending on the crop that you are seeding. For cereals, the main diseases to test for are *Cochliobolus sativus* (root rot), *Ustilago nuda* (smut) and *Fusarium* (root rot) – both *Fusarium graminearum* and total. Any areas that have not had fusarium head blight caused by *F. graminearum* should avoid introducing it. The *Fusarium* total reported on the seed test includes *F. graminearum*.

For pulses, the diseases of interest are *Ascochyta* (leaf blight), *Anthracoze*, *Botrytis* (grey mould) and *Sclerotinia* (white mould). The amount of disease pressure during the last growing season will determine what you will likely have available for quality of seed.

A good practice is to always use the best seed you can source. In good years you should look for seed with little to no presence of disease. In challenging years when the disease is higher, it is important to still source the best seed available and be sure to use seed with good germination.

When using seed with high disease and low germination, more seed is needed to achieve the target plants per square foot. Increasing the seeding rate increases the amount of disease inoculum that you are adding to your soil. A seed treatment can be a good investment in a variety of scenarios, including when using seed with higher disease levels.

It is important to communicate if the crop intended for seed has been treated with pre-harvest glyphosate. Otherwise, the seed will be tested in a normal germination test and the glyphosate may adversely affect germination. This adds an additional cost because the sample will have to be retested for germination. If there is a possibility of glyphosate on the seed, a soil germination test should be requested to "tie up" any glyphosate that might be on the outside of the seed so it does not have adverse effects when the seed is germinating.

Some crop desiccants are registered for use on crops intended for seed production. Glyphosate is not a desiccant. Glyphosate is not recommended for any crop that is to be used for seed. Glyphosate at pre-harvest can cause germination and possibly vigour problems if the herbicide was applied before the seed was fully mature. Crops sprayed with pre-harvest glyphosate may germinate, but the seedling could be stunted and deformed. Crops treated prematurely are off-label and have the potential to threaten export markets.

The quantity of seed tested is minuscule compared to the size of the seed lot that it represents. Improper sampling is the greatest source of error in seed testing. Make certain the sample is representative of the entire seed lot. To collect a representative sample, gather more seed than needed for a given test. Hand sample or use a probe so that all areas of the seed lot are represented. If the seed is in a bin, sample it from the top, centre, sides and bottom. Do not take your seed sample from beside the bin door. It might be more appropriate to collect subsamples as the seed is being transferred from a truck or bin. After collecting the seed, thoroughly mix it.

Regardless of how accurately the technical work is the results can only show the quality of the sample submitted for analysis. Consequently, every effort must be made to ensure the samples sent to the analyst accurately represent the composition of the lot in question.

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Painful lumpy jaw disease requires intervention

ANIMAL HEALTH



JAMIE ROTHENBURGER, DVM

As the name implies, cattle infected with the condition known as lumpy jaw develop hard lumps along the jaw, or rarely, other facial bones.

The disease is a severe, deep bone infection that typically starts when there is damage to the gums. Infection establishes in the tooth socket and spreads from there to invade deep into the soft tissues below the gums and eventually into the jaw bone. Inflammation, pus and dead tissues fill pockets within the bone and if left untreated, the infection eventually destroys the jaw bone.

There is also reaction to the infection from the bone itself. In response to the injury, the bone proliferates, creating the characteristic hard lumps. But the new bone is also weak, disorganized and fragile. So while there is bone destruction, there is also proliferation.

The affected area takes on a honey-comb appearance and this weakened jaw bone is prone to fracturing.

At the same time, the body puts



Hole-riddled bone shows the animal suffered from lumpy jaw. | FILE PHOTO

down lots of scar tissue in an attempt to wall off the infection. This fibrous scar tissue is much weaker than healthy bone and also makes it challenging for antibiotics and cells of the immune system to penetrate the infected area.

Animals develop lumpy jaw after a break in the inner surface of the mouth. This allows the causative bacteria, *Actinomyces bovis*, to enter and begin the infection. These bacteria are particularly aggressive and invasive. In some ways, they behave more like a fungal infection than a bacterium.

Other species besides cattle can develop lumpy jaw or infections with the bacteria in other areas of the body. These include sheep, goats, horses and even dogs. Among wild animals, bighorn sheep in North America also devel-

op this disease. While the bones of the jaw are most often affected, this infection can also occur less frequently in the bones of the upper jaw and skull.

Signs of the disease include an obvious but slow-growing swelling of the jaw, typically restricted to one side. The swelling is hard and immovable due to the new bone formation.

The infection can also loosen teeth in their sockets and some teeth may become misaligned or even fall out. If this occurs, the animal may have difficulty eating.

There are often sores or ulcers that drain pus from the infected area. These sores can be on the inside of the cheeks or drain outside through the skin. Cattle with this disease lose condition, both from the difficulty eating and the

body's response to infection. The disease is painful.

Although lumpy jaw has obvious signs, additional testing such as bacterial culture, X-rays and biopsy of the affected area for pathology assessment can aid diagnosis.

Treatment options are limited and usually attempted so that a valuable animal can live long enough to calve, or breed in the case of bulls. There is no curative treatment. Multiple intravenous injections of sodium iodine, sometimes in combination with antibiotics, are used to stop the progression of the infection. The bony mass will remain but may spread slower. In animals with advanced disease, humane culling is the best option.

Prevention is a challenge since the bacteria are normally present in the mouth of cattle without causing disease. There is no protective vaccine available.

Coarse feed, sticks, wire and other sharp objects are thought to be a leading cause of the mouth damage that leads to infection so eliminating foreign material from feed bunks is important. Feed that is particularly coarse, or that contains sticks or plant awns, should be avoided to reduce the likelihood of cattle developing lumpy jaw.

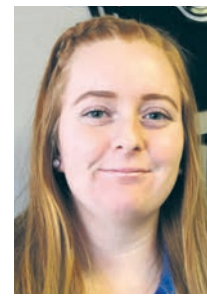
Dr. Jamie Rothenburger is a veterinarian who practices pathology and is an assistant professor at the University of Calgary's Faculty of Veterinary Medicine. Twitter: @JRothenburger

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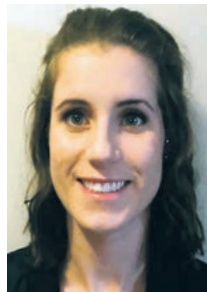


Chelsey Dixon, AAG
Customer Service, Crop Inputs
Parrish & Heimbecker
Weyburn, SK

Chelsey works as part of an agronomy team that provides year-round services to producers. She recommends the appropriate crop protection products and seeds and does crop scouting to determine crop staging and identify any diseases or abnormalities.

"Being registered as an agrologist (AAG) provides credibility to the producers I work with and that they can trust they are receiving science-based recommendations and information."

Chelsey was raised on a cow/calf operation at Chamberlain, SK. She received a diploma in agribusiness from Lakeland College and a degree in agribusiness from the University of Saskatchewan. Chelsey was a summer student with Parrish & Heimbecker before joining full-time in September 2017.



Katelyn Gaetz, AAG
Precision Agronomist
Farmers Edge
Outlook, SK

Katelyn provides agronomy advice and services to producers to increase yields, even out maturity, and improve profit for their business. She creates zone maps for variable rate customers, interprets soil results and other variables for fertility and provides recommendations.

"Being registered as an agrologist (AAG) provides a large professional network of individuals to connect with for knowledge, guidance, and expertise."

Katelyn grew up in Naicam, SK. She received a Diploma in Environmental Conservation and Reclamation from Lakeland College and a BSc in Agriculture with a major in environmental science from the University of Saskatchewan. Katelyn has previous work experience with Monsanto as a summer student and joined Farmers Edge as a sales specialist in 2017 prior switching over to the role of a Precision Agronomist.

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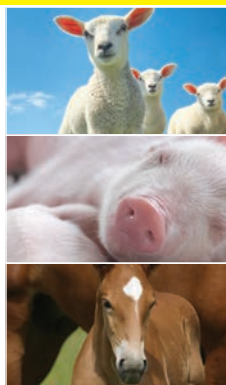
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A SPECIAL FEATURE OF THE WESTERN PRODUCER | E-MAIL: NEWSROOM@PRODUCER.COM | 306-665-3544 | EDITOR: BRIAN MACLEOD

Bovine leukosis incidence rises on Prairies

The cattle disease was once considered a greater problem in dairy herds, but now it is affecting beef herds, too

BY BARBARA DUCKWORTH
CALGARY BUREAU

PHOENIX, Ariz. — The presence of lymphomas is a leading reason for condemnation of beef and dairy cows at slaughter.

They may have been infected with bovine leukosis virus.

Bovine leukosis was not considered an important disease 25 years ago, but prevalence studies in

Canada and the United States show it is circulating in many herds at very low levels. Once considered a greater problem among dairy cattle, it has appeared in beef herds and could be a reason for poor productivity.

The scientists involved in the Western Canadian Beef Cattle Surveillance Network tested 2,000 samples and found that 2.3 percent of the cows were positive for bovine

leukosis antibodies.

“That means they have been exposed to the virus at some point. A very small proportion of those will go on to have clinical disease,” said John Campbell of the University of Saskatchewan’s Western College of Veterinary Medicine.

“It was significantly higher in Manitoba than it was in Alberta and Saskatchewan.”

Incidence was quite low in Alber-

ta, but nine percent of cows were positive in Manitoba.

“Across the three provinces there were 14.6 percent of the herds (that had) at least one positive cow,” he said.

These are approximate figures and do not mean the cows will sicken.

“Just because a cow tests positive for leukosis doesn’t mean it is going to get sick with any of the diseases that are associated with that virus,” Campbell said.

“Lots of animals live with it for their entire life, and a relatively small percentage get leukemia and cancers associated with bovine leukosis virus.”

An ongoing study at Michigan State University’s College of Veterinary Medicine has found low levels of the disease in five midwestern states.

“Bovine leukosis disease was not considered important 25 years ago. The tide is starting to turn on that,” Michigan State researcher Dan Grooms said during an animal health session at the recent National Cattlemen’s Beef Association convention in Phoenix.

The disease is a part of the retrovirus family and targets lymphatic cells and blood.

It suppresses the immune system and can lead to tumours, leukemia and other forms of cancer. Vaccine efficacy may be lessened.

“This is a chronic disease, so once infected always infected,” he said.

It has been detected more often in dairy cattle. Infected cows milkless and could be culled earlier.

“We now know cattle that are affected with BLD have production losses,” Grooms said.

“In an industry where cow longevity is already not that great, bovine leukosis disease reduces the survivability of that cow on a dairy operation.”

Researchers do not know the level of production losses in beef cattle, but surveys should indicate the prevalence and potential costs.

Grooms’ research followed 3,325 cattle from five midwestern states to estimate prevalence among cow-calf operations.

Information is just coming in, but the virus was found from zero to

CONTINUED ON NEXT PAGE >>





AgriStability Payouts Rising?

Get the Facts Before You Opt Out

The livestock industry continues to see an increase of producers dropping out of the AgriStability program. But given continued profitability in many areas of this sector and the new 2018 rules coming into effect that could lead to increased payouts, it’s important you get the facts before you opt out.

Deadline to enroll for the 2018 AgriStability program is April 30, 2018.

To determine whether AgriStability is right for you and your operation, contact Scott Dickson, MNP’s Director of Livestock Services, at 403.356.1250 or scott.dickson@mnp.ca



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» CONTINUED FROM PREVIOUS PAGE

three-quarters of the cows in the herds studied.

The stages of infection start at the subclinical level.

The cows don't have tumours or a lot of white cells, but they do have lymphocytes that are not working properly. This could affect immunity and increase the risk of other diseases.

The next stage sees a proliferation of white blood cells, which could proceed to leukemia.

About five percent of infected cattle can progress to developing tumours anywhere in the body.

Grooms is also checking the prevalence among bulls and whether they could introduce the disease through semen or smegma, which is the mucus material in the prepuce of bulls.

His sampling has found that two-year-old bulls had a 20 percent prevalence, but this increased to about 50 percent as bulls matured.

A serological response could be found six weeks after infection once an animal becomes infected.

Dairy farms using live bulls for breeding have a significant risk factor for the disease.

Frozen semen from positive bulls did not transmit the disease.

"We know this virus is destroyed by freezing," Grooms said.

"One of the management practices in the dairy industry to reduce the risk of transmitting it is freezing the colostrum."

The virus lives in white blood cells and spreads mostly through blood.

It can also be transmitted in colostrum, snot, saliva, semen and smegma.

"Any way that blood or lympho-

BOVINE LEUKOSIS VIRUS

Bovine leukosis can be spread via:

- common needles
- tattoo pliers
- fly control
- ear tagging
- rectal sleeves
- colostrum management (pasteurization of colostrum or milk will kill the virus)
- sharing bulls

cytes can be transmitted from one animal to another has the potential of transmitting this virus," he said.

Diagnosis uses blood tests and milk tests for dairy.

There is no treatment, so control starts with stopping transmission.

barbara.duckworth@producer.com



A small proportion of cattle exposed to the bovine leukosis virus will go on to have clinical disease. | MIKE STURK PHOTO

North America said ill-equipped to handle FMD outbreak

BY BARBARA DUCKWORTH
CALGARY BUREAU

PHOENIX, Ariz. — Foot-and-mouth is the big bad disease nobody wants in North America.

The size and structure of the modern livestock industry would present an unprecedented challenge if an outbreak should occur, said animal health experts speaking at the National Cattlemen's Beef Association convention in Phoenix from Jan. 30 to Feb. 2.

"Foot-and-mouth is a disease we never want to see," said Jim Roth of Iowa State University.

"We have been lucky but a lot of people are concerned our luck might not hold."

Vaccinating animals is part of the eradication strategy but there is not enough vaccine available.

Canada, the United States and Mexico share the North American vaccine bank held at Plum Island Animal Disease Center in New York where 2.5 million doses of concentrated killed vaccine are stored in liquid nitrogen.

The NCBA and other groups want added federal government funding in the 2018 farm bill to expand the vaccination supply.

Roth estimated the program needs US\$150 million every year for five years to establish adequate amounts.

Foot-and-mouth disease is fast moving, highly contagious and is manifested in seven different serotypes, 23 strains and dozens of subtypes.

Vaccines must match the strain to be effective. It is recommended the stockpile include 23 different vaccines in the bank.

In the event of an outbreak, it could take 14 weeks to reproduce enough new vaccine, which is not made in North America.

"There are no vaccines made in the U.S. It is too dangerous to manufacture it in the U.S. because the virus can escape from the facility," Roth said.

The theory is if they could get the vaccine to animals quickly, they could avoid the disaster of having animals getting very sick and then having to recover.

Ninety-six countries have foot-and-mouth disease and they deal with it differently. Some vaccinate to keep it out; others do not and let the disease run its course.

North America, Australia, New Zealand and the European Union are disease free without vaccination.

The experience of porcine epidemic diarrhea and highly pathogenic avian influenza showed the U.S. is not well prepared for a major disease outbreak.

"What we learned from these diseases is that biosecurity for endemic diseases isn't adequate for highly contagious brand-new diseases," he said.

The standard practice to eradicate foot-and-mouth disease is to stop all movement and kill all the animals in the infected area within 24 to 48 hours.

That policy would not work

because of the structure of the modern livestock industry.

"It may not be feasible to depend on stamping out anymore," Roth said.

Stopping all movement could be nearly impossible.

In the U.S., one million pigs are on the road every day going to slaughter or moving to new farms. There are 50,000 to 83,000 feedlot placements travelling every day and 100,000 to 200,000 commercial cattle are moved to slaughter plants.

"With our modern agriculture, vaccination is our best chance to get it under control in a reasonable space of time."

The government has a planning document to set up command centres to handle any outbreaks.

A small local outbreak would focus on stamping out the disease, while response to regional out-

breaks would include killing animals and vaccinating herds.

A catastrophic outbreak is a national situation that would move toward long-term eradication. A catastrophic North American outbreak means a disease found in Mexico, United States and Canada all at once.

A study out of Kansas State University investigated how the disease might spread in a feedlot and how controls could be set up.

It is known animals are infected up to three days before they show symptoms and by then the disease could be galloping through a confined space, such as a feedlot, said Mike Sanderson of Kansas State College of Veterinary Medicine.

"I don't believe we can kill a 50,000 head feedlot. It takes too much time," he said.

Animals would start to recover

before they were all destroyed. Disposing of the carcasses could be a logistical nightmare.

When the United Kingdom faced the disease in 2001, it destroyed thousands of animals and burned them in huge pyres. If the U.S. took the same approach, it would destroy the industry in the public's eye, said Sanderson.

Besides dealing with sick and dead livestock, all exports would stop.

On the first day of the outbreak, the chief veterinary officer of the U.S. would notify the World Organization of Animal Health and exports would stop. Trade would not recover until each member country decided the infection was gone. This could take two years and all commodities would be affected, said Sanderson.

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Testing required to ensure quality forages

High quality forages supply significant amounts of energy, which results in high feed intake and milk production

BY BARBARA DUCKWORTH
CALGARY BUREAU

GUELPH, Ont. — Forages are the foundation of a good ration for cows, providing roughage, essential minerals and other nutrients.

Forage feeds the rumen microbes, and the cow receives most of the protein and nutrients from rumen microbial fermentation.

“The rumen can exist primarily on forages,” said ruminant nutritionist Mark Bowman of Grand Valley Fortifiers in Cambridge, Ont.

The importance of quality forage and feed testing were explained at the Canadian Grasslands and For-

age Association annual meeting held in Guelph last year.

High quality forages supply significant amounts of energy in the form of starch, sugar, digestible fibre, protein and minerals such as calcium, phosphorus, magnesium and potassium, which results in high forage intake, high milk production, healthy cows and lower cost feed.

“Your nutritionist is only as good as your forage quality,” he said.

The rule of thumb for forage intake for ruminants is generally calculated at two percent of body weight.

A 750 kilogram Holstein cow needs 12 to 15 kg of dry matter

intake per day, a 600 kg first calver needs 12 kg and a 300 kg heifer or steer needs six kg.

Feed analysis has become more complicated. Testing looks at the levels of neutral detergent fibre and indigestible fibre.

Protein is important, but that can be added with a supplement such as soybean meal.

Acid detergent fibre levels are used less in ration formulation.

ADF is the least digestible portion of fibre in forage. It is highly indigestible and includes lignin, cellulose, silica and insoluble forms of nitrogen.

However, ADF levels are similar in grass and legumes.

Neutral detergent fibre (NDF) is used more in ration formulation. It is the most common measure of fibre, but does not represent chemical compounds. It measures most of the structural components in plant cells such as lignin, hemicellulose and cellulose. NDF levels in a ration influence intake of dry matter and the time of rumination. The concentration of NDF in feeds is negatively correlated with energy concentration.

It provides physically effective fibre to stimulate rumination and cud chewing. Adequate fibre buffers the rumen and helps avoid rumen acidosis.

Your nutritionist is only as good as your forage quality.

MARK BOWMAN
GRAND VALLEY FORTIFIERS

“NDF is the best measure of insoluble fibre for ruminants,” he said.

“It is related to dry matter intake, digestibility, rate of passage, rumen function and health.”

Measuring NDF digestibility is just as important as total fibre content.

“We want to be able to get some idea before we feed it to the cows and how digestible it will be,” he said.

Higher digestible fibre means the cow will eat more.

There is also fibre that will never be digested.

Alfalfa has more indigestible fibre than grass, but the fibre digestion rate is higher than grasses.

Feed testing laboratories have standard tests, but the industry has done a poor job of explaining what the analysis means, said Dave Tayson of Dairyland Laboratories Inc. with locations throughout North America, including in Calgary, Stratford, Ont., Guelph, Ont., and London, Ont., and internationally.

Today’s programs use a variety of measurements for determining important forage characteristics, including identifying the fibre content of submissions.

“It is important for the end user to understand what the lab can do and more importantly what a lab analysis cannot do,” he said.

The lab can take a sample and add it to rumen fluid in a beaker to see how much fibre was digested and how fast it is broken down. These tests can run up to 240 hours.

The lab looks at Kd, the rate of digestibility in the laboratory, and Kp, the rate of passage out of the rumen.

“Digestibility is the combination of how fast the rumen bugs work and how fast it passes out of the animal,” he said.

Modern ration programs look at digestibility and passage from inputs such as body weight, milk production and dry matter intake and do not necessarily match the individual animal.

“The laboratory can only give you part of the picture,” he said.

The lab measures digestible and indigestible fibre and provides results. Test results showing lower indigestible NDF are best. However, no matter how the diet is formulated or the milk production of the cow, there is a portion of fibre that will not be digested.

Maturity of the forage affects digestibility. For example, lignin levels are higher in mature grass and digestibility is less.

Feed tests also include wet chemistry and infrared reflectance spectroscopy (NIR). Wet chemistry uses laboratory tests to measure protein, fibre, fat and minerals.

The weakest point of NIR is trying to read minerals. Feed testing labs recommend using wet chemistry to determine which nutrients are present, such as calcium and sulfur.

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FMC

Arizona dairy manages 12,500 cows and 52,000 steers

A former beef feedlot is now among the large dairies that function through a milk co-operative

BY BARBARA DUCKWORTH
CALGARY BUREAU

STANFIELD, Ariz. — Actor John Wayne was master of all he surveyed when he looked out at thousands of beef cattle from his office window at Red River Feedyards.

Today, the Duke would stare out over the same property in disbelief to see the Herefords have been replaced with Holsteins.

Wayne and his business partners, Ken Reafsnider and Louis Johnson, fed about 87,000 beef cattle at Stanfield.

Sixteen years ago, the feedlot became part of T & K Red River Dairy owned by Tom and Kathy Dugan and their family.

The family-run operation about half an hour from Phoenix, feeds 52,000 Holstein steers at a time, milks about 12,500 cows and farms 12,000 acres.

The Dugan family, consisting of five brothers, left Wisconsin in 1962 and started dairy farming in Arizona. Most of the brothers have retired and Tom Dugan bought some of them out and brought them under the umbrella of T & K.

“Everybody is getting bigger. The trend is to go to multi-dairies, where there are mega dairies held by one owner,” said Dennis Dugan, Tom’s brother, who guided visitors during a special tour sponsored by the National Cattlemen’s Beef Association.

There are fewer than 100 dairy producers in the state and most belong to a producer-owned co-operative in Tempe where a million gallons of milk are processed every day.

Tom Dugan’s sons have taken over the day-to-day management of the farm, which runs with precision and planning.

Cows are milked three times a day and 50 to 100 calves are born here every day.

At one day old, each calf is moved to one of 4,600 hutches where they live until they are 70 days old. They are then moved to larger group pens until they are moved to the feedlot at 180 days.

Each calf receives three quarts of pasteurized colostrum within its first hour of life and within 24 hours calves should receive 1.5 gallons.

The farm has its own pasteurization unit for the calves’ daily milk supply. It can process 2,000 gallons an hour.

At one day of age, each calf receives an electronic identification ear tag. When employees scan a calf’s tag, information such as weight, health status and treatment is entered on hand-held tablets.

The animals also wear management tags. Males get white tags and females wear yellow. If they must be treated with antibiotics, they get a green tag, which means they received a dose of Baytril, and a yellow tag, which indicates Draxxin was used. Animals that require more treatments are moved to a separate pen for veterinary care.

“Mycoplasma seems to be our biggest problem here. We are working with the vets on that,” Tim Dugan said.

When calves are moved out of the hutches, each little house is flipped



T & K Dairy milks 800 cows per hour. The farm’s biggest challenge is finding enough people to work in the milking parlours. | BARBARA DUCKWORTH PHOTOS

over for disinfection and exposure to ultraviolet rays from the sun.

The hutches are turned southward in the winter to capture sunlight but once the outdoor temperature starts to climb beyond 32 C, they face north for shade.

An extensive tree-planting project is ongoing to provide more shade.

The calves are sorted throughout their lifetimes, moving into larger groups throughout.

The bull calves are raised for beef in a natural program and are slaughtered at a local JBS plant. The farm raises all of its own replacement females.

Fifteen to 20 percent of the feedlot calves do not qualify for the natural beef program, which stipulates they must live 300 days free of anti-

biotics.

Once the calves are on feed, the goal is to have them gain 2.1 pounds per day to finish at around 1,300 lb.

A pound of gain costs US\$1.36 per head per day.

“I used to try and do it cheaper for \$1.25. I am spending more, but I am putting more meat on their backs and growth. On the heifer side, that is hopefully going to give us more milk in the first lactation and a healthier animal,” Tim said.

The cows average about three lactations and yield about 80 lb. of milk per day. About 800 cows are milked per hour in parallel milking parlours in three different barns.

Special accommodations have

been set up to help animals live comfortably in Arizona’s hot and dry climate.

The cows live in open-sided pens with roofs overhead equipped with fans and sprinkling systems.

A cooling system was recently installed in the pens to keep the area at a constant 24 C.

Curtains can also come down when the temperature goes up.

“It is all about cow comfort. The more you keep them comfortable, the more they will give milk,” said Dennis Dugan.

The farm power bill from June to August is \$300,000 a month but drops to about \$150,000 a month in winter, said Dennis Dugan.

The farm works with Purina on nutrition.

The ration is about 20 percent

protein for the cows and contains alfalfa, corn silage, flaked corn and other byproducts depending on cost. The farm uses about 100 tons of corn and 30 tons of barley every day.

The corn comes mostly from the U.S. Midwest but T & K grows alfalfa locally year-round.

Local corn is often chopped for silage to avoid problems with the fungus aflatoxin.

The farm has wells but water is also delivered in irrigation canals from the Colorado River to supply Phoenix and Tucson. When the system was installed the cities did not use their full water allocations and so the municipalities shared it with farmers. Competition for water is growing.

“As the cities grow, they are taking that water back,” Dennis said.

Finding workers presents another ongoing issue.

“We always have labour challenges. With minimum wage going up and the economy booming in construction, it is probably the biggest challenge we have is finding people and keeping them on,” said Tim.

Arizona minimum wage is \$10.50 an hour and the average person on the farm makes about \$30,000 a year. Managers on this farm earn six figure incomes.

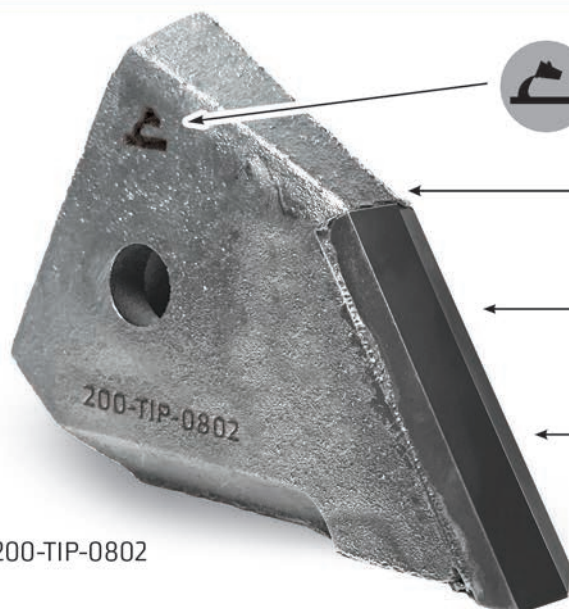
“Eventually all the dairies are going to go to robots. Within 20 years I bet 60 percent of the cows in this country will be milked by robot because we can’t get the workers,” Dennis said.

Dairies and feedlots also produce a lot of manure. Much of it is hauled out and spread on the farmland.

Recently British Petroleum set up a digester system to buy liquid dairy manure and convert it to methane, which will be shipped out via a pipeline.

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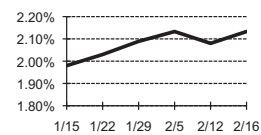
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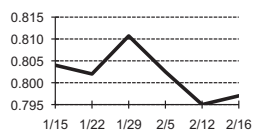
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AG STOCKS FEB. 12 - 16

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	43.13	41.49
AGT Food	TSX	19.85	20.28
Bunge Ltd.	NY	79.10	80.75

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.55	0.58
Cervus Equip.	TSX	14.02	14.00
Input Capital	TSXV	1.55	1.55
Rocky Mtn D'ship	TSX	13.20	12.67

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	36.25	35.56
Hormel Foods	NY	34.35	32.81
Lamb Weston	NY	55.58	54.46
Maple Leaf	TSX	35.17	33.88
Premium Brands	TSX	106.37	104.43
Tyson Foods	NY	76.01	74.87

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AG Growth Int'l	TSX	55.38	55.30
AGCO Corp.	NY	67.08	67.990
Buhler Ind.	TSX	4.29	4.15
Caterpillar Inc.	NY	156.29	149.21
CNH Industrial	NY	14.28	13.55
Deere and Co.	NY	169.44	154.93

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
BASF	OTC	27.00	26.19
Bayer Ag	OTC	30.73	29.90
DowDuPont Inc	NY	71.95	69.48
BioSynt Inc.	TSXV	8.70	8.65
Monsanto	NY	120.79	118.64
Mosaic	NY	25.43	24.35
Nutrien Ltd	TSE	55.84	56.05

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	95.64	94.57
CPR	TSX	232.91	215.98

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.

IN BRIEF

HIGHER DEMAND, TAX CUT BOOST ADM PROFIT

(Reuters)— Archer Daniels Midland has posted a rise in fourth-quarter earnings, helped by higher profit from its agricultural and corn processing businesses and a US\$249 million income tax cut.

Net earnings attributable to ADM rose to \$788 million, or \$1.39 per share, in the three months ended Dec. 31, from \$424 million, or 73 cents per share, a year earlier.

Revenue fell to \$16.07 billion from \$16.50 billion.

ADM's results come amid media reports that the grain trader is in talks to buy smaller rival Bunge Ltd.

ADM made no mention of such talks in its earnings statement.

Don't fret, but watch your debt

FCC believes economy will stay strong but warns about interest rates and dollar

BY BRIAN CROSS
SASKATOON NEWSROOM

The top economist at Farm Credit Canada painted a positive picture of Canadian agricultural prospects for 2018, pointing to strong global demand for food, rising Canadian productivity and positive gross domestic product projections in key markets.

But he also said Canadian producers should keep a close eye on interest rates, the value of the Canadian dollar and the outcome of trade deals that could affect market access for Canadian products.

"I'm absolutely positive about the outlook for agriculture," FCC's J.P. Gervais said in a Feb. 7 webcast.

"I really do think that 2018 is going to be another good year. But at the same time, we have to have realistic expectations."

"There's a bit more uncertainty in the marketplace right now, which to me suggests that we have to be on top of risk management."

In a 45-minute presentation, Gervais said several factors point to a strong economy moving forward.

Global GDP growth for 2018 is now forecast at 3.9 percent, compared to 2.3 percent in Canada and 2.7 percent in the United States.

The 3.9 percent projection includes anticipated growth rates of 6.6 percent in China and 7.4 percent in India, a scenario that bodes well for Canadian agricultural exports.

"GDP is the one statistic that we use to ... talk about the health of the economy worldwide," he said.

"That (3.9 percent) ... forecast has been going up for the past 12 months basically. We were at 3.7 percent not too long ago, 3.5 percent before that and 3.3 percent (before that) so the bottom line is that the world economy is definitely improving ... and I think that's a huge positive when you look at agricultural markets."

Domestically, the Canadian unemployment rate hit its lowest level in at least five years in December 2017 with the economy gaining more than 150,000 jobs in the last two months of the calendar year.

Rising consumer debt levels are one of the few headwinds facing the Canadian economy, along with the prospect of rising interest rates, he said.

Borrowing rates in Canada are still at historically low levels but the Bank of Canada has increased its prime lending rate three times in the past seven months and could potentially boost rates again in the next few months, Gervais said.

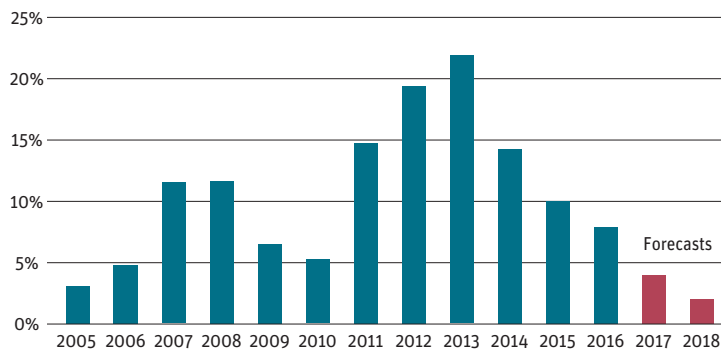
"I'd have to say that we're likely to get another rate increase, per-



GETTY IMAGE

GROWTH IN FARMLAND VALUES SLOWING

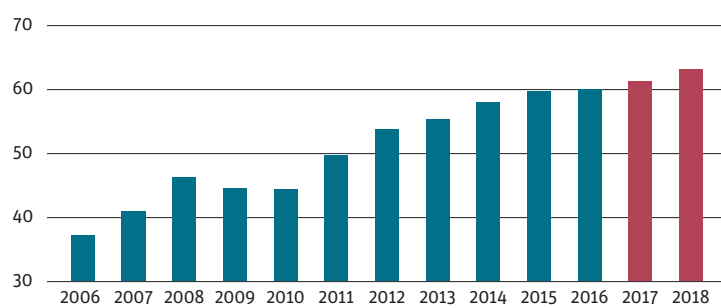
Year-to-year change



Source: FCC

CASH RECEIPTS TO INCREASE AT A SLOWER PACE

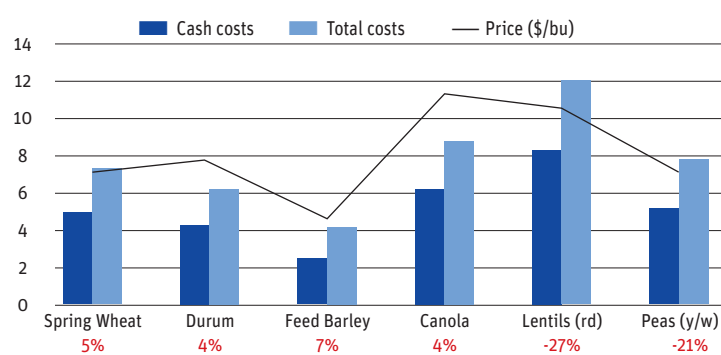
Canadian farm cash receipts (\$billions)



Source: Statistics Canada, FCC computations

CANOLA AND WHEAT ACRES TO INCREASE

Price per bushel



Source: AAFC, FCC computations | RAELENE HOLTZ GRAPHICS

haps as early as between now and March-April," he said.

"It (rate uncertainty) does create a situation in which I believe it is important for businesses to look at their financial situations, look at where they stand. Run some scenarios in terms of income, in terms of interest rates, to see how your ability to meet your financial obligations evolves as rates move up..."

Gervais did not rule out two additional Bank of Canada interest rate increases in 2018, but he said U.S. rate hikes have lagged Canadian increases, a situation that might cause the Bank of Canada to stand pat in the latter half of the year.

The Canada-U.S. exchange rate also warrants close attention.

As a rule, a one cent appreciation in the value of the Canadian loonie relative to the U.S. dollar is assumed to cut the profitability of Canadian grain and oilseed farmers by about \$5 per acre.

Based on that assumption, a five-cent increase in the value of the loonie to 85 cents from 80 cents could reduce profitability by an average of \$25 per acre.

FCC is projecting the Canadian dollar to stay in the range of 80 cents per U.S. dollar, possibly dipping below 80 cents toward the end of the year.

"I think most sectors (of the Canadian economy) have a vested interest in seeing the dollar below 80 cents," Gervais said.

On the trade front, uncertainty surrounding key trade agreements such as the renegotiated Trans-Pacific-Partnership and the North American Free Trade Agreement could have far-reaching consequences for Canadian agricultural exports.

Some Canadian producers stand to make significant gains if the TPP agreement is implement-

CONTINUED ON NEXT PAGE >>

Bitcoin begins to move into the mainstream market

MONEY IN YOUR POCKET



GRANT DIAMOND

In a previous article, we explained the basic nature of Bitcoin, other cryptocurrencies and how they work. In the interim, the cryptocurrencies have continued to exhibit substantial volatility, which should indicate this is not an investment path for the faint of heart.

There have been some new developments, however, that indicate it might be moving at least a little into the mainstream market.

Both the Chicago Board Options Exchange and the Chicago Mercantile Exchange have started Bitcoin futures markets, which some experts think might reduce the volatility of the instrument. Merrill Lynch, a large United States brokerage house, however, announced it will not deal with these instruments because it thinks they are too speculative.

One of the hyped benefits of cryptocurrency is its relative security. Although Bitcoin hasn't reported

any breach, Coincheck.Inc of Tokyo has announced it was hacked and a competitive currency has lost almost half a billion U.S. dollars from its customers' accounts. Once again, this reinforces the need to update your passwords regularly.

Governments with pressure from banks and major investment firms/bankers, particularly in the U.S., have already started to rein in the Bitcoin system and some banks are starting to use the same "block chain" technology to compete with Bitcoin (for a fee of course).

But back to the taxation of Bitcoin. As mentioned before, CRA sees cryptocurrency as a commodity (not a government-issued currency) and if it is used to pay for goods and services, it is treated as a

barter transaction.

Simply put, currency doesn't exist in the transfer of goods and services but a barter transaction can result in the following:

- income or expense treatment
- the acquisition or transfer of capital, inventory or personal use property

All these will have an impact on taxes.

Essentially, it means the vendor must include in income the fair market value in Canadian dollars of the goods or services sold for cryptocurrency. Similarly, the purchaser using cryptocurrency in a business transaction must also reflect the value of the cryptocurrency used in the deal in their tax filings.

Any gain or loss arising on the

disposition of the cryptocurrency can be considered business income or a capital gain or loss and depends on the particular circumstances of the transaction.

Although cryptocurrencies are not considered Canadian securities, there are capital and income taxation implications to their acquisition and active trading.

With the mighty swings in Bitcoin values, admittedly some people have invested hoping for some long-term appreciation in value. Better to have bought in at \$10 to \$1,000 than peak prices near \$20,000.

If one is not in the business of trading Bitcoin but hoping for his or her ship to come in, any success will be treated as a capital gain. If the taxpayer is in the business of

trading cryptocurrency (and CRA will make the determination) then gains will be treated as income.

There are other tax implications and uses of Bitcoins. You can donate them and they do fall under the charitable donation tax credit of the Income Tax Act as long as the recipient is a qualified charitable institution. The value of the donation is the fair market value of the cryptocurrency at the time of donation.

GST/HST according to CRA also applies to cryptocurrency transactions. The vendor must collect and remit HST/GST on the transaction if it is commercial in nature.

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.

» CONTINUED FROM PREVIOUS PAGE

ed, particularly on exports of red meat, grains and oilseeds to Japan.

At the same time, trade concessions that affect Canadian poultry and dairy could have a negative impact on those sectors, but he added he expects they will adjust.

Gervais said he was not optimistic that issues affecting Canadian pulse exports to India would be resolved in 2018.

Based on that, FCC is projecting a 27 percent reduction in Canadian red lentil acres in 2018, a 21 percent reduction in yellow pea acres, a five percent increase in spring wheat, a four percent increase in durum, a seven percent increase in barley and a four percent increase in canola acres.

Despite narrow margins on many agricultural crops, Gervais suggested that farm cash receipts for grain and oilseed producers will continue to grow, based on higher production volumes rather than higher commodity prices.

Similarly, Canadian farmland values should increase in 2018, although at a slower pace than they have during the past decade.

"I think it would be unrealistic to have expectations that our farm cash receipts are going to grow over the next 10 years like they have over the past 10 years," he said.

"We've had tremendous, never-seen-before growth when it comes to gross receipts at the farm level...."

"I do believe we're going to be able to grow it further, but maybe not at the same pace as we have...."

FCC projections show average Canadian farmland values increasing by four to five percent in 2017, and another two to three percent in 2018.

FCC's annual Canadian farmland values report for 2017 is scheduled for release in late April.

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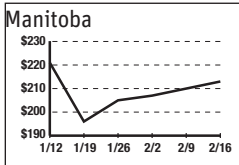
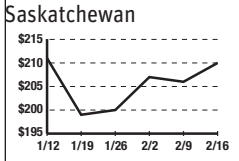
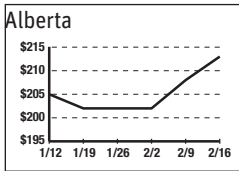
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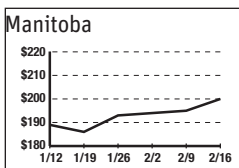
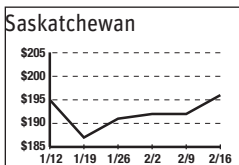
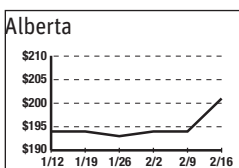
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CATTLE & SHEEP

Steers 600-700 lb. (average \$/cwt)



Heifers 500-600 lb. (average \$/cwt)



Canadian Beef Production

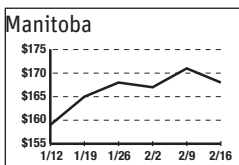
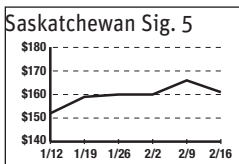
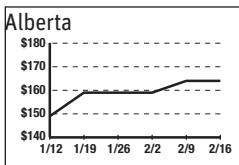
million lb. YTD	% change
Fed	208.7 +9
Non-fed	49.7 +4
Total beef	258.4 +8

EXCHANGE RATE FEB. 16
 \$1 Cdn. = \$0.79711 U.S.
 \$1 U.S. = \$1.2545 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)



ELEVATOR SHIPMENTS

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous Feb 2-Feb 8	Year ago	Rail		Previous Feb 2-Feb 8
	Feb 9-Feb 15	Feb 9-Feb 15			Feb 9-Feb 15		
Steers							
Alta.	165.00	162.00	158.34	273.00-273.75	273.00-273.50	273.00-273.50	
Ont.	140.26-154.43	135.24-152.29	147.15	247.00-250.00	247.00-250.00		
Heifers							
Alta.	165.00	n/a	156.48	273.00	n/a	n/a	
Ont.	135.14-152.25	135.21-153.89	144.23	246.00-249.00	246.00-249.00		

*Live f.o.b. feedlot, rail f.o.b. plant.

Feeder Cattle (\$/cwt)

	Sask.				Man.	Alta.	B.C.
Steers							
900-1000	166-175	169-178	172-182	no sales			
800-900	174-186	170-186	177-188	no sales			
700-800	184-200	184-202	186-203	175-200			
600-700	202-220	200-226	203-223	192-214			
500-600	220-240	220-242	215-234	180-206			
400-500	241-264	238-269	240-264	223-236			
Heifers							
800-900	160-167	155-168	161-171	no sales			
700-800	167-178	163-178	168-182	no sales			
600-700	177-191	175-193	177-196	no sales			
500-600	188-208	190-210	194-209	178-206			
400-500	203-222	202-225	203-224	180-206			
300-400	209-231	195-220	215-235	no sales			

Canfax

Average Carcass Weight

Canfax	Feb 10/18				Feb 11/17				YTD 18				YTD 17			
Steers	913	913	910	917	913	913	910	917	913	913	910	917	913	913	910	
Heifers	839	827	833	824	839	827	833	824	839	827	833	824	839	827	833	
Cows	746	738	740	728	746	738	740	728	746	738	740	728	746	738	740	
Bulls	976	1,037	960	1,029	976	1,037	960	1,029	976	1,037	960	1,029	976	1,037	960	

U.S. Cash cattle (\$/cwt)

Slaughter cattle (35-65% choice)	Steers		Heifers	
National	n/a	n/a	n/a	n/a
Kansas	n/a	n/a	n/a	n/a
Nebraska	n/a	n/a	n/a	n/a
Nebraska (dressed)	n/a	n/a	n/a	n/a

Feeders No. 1 (800-900 lb)

Feeders No. 1 (800-900 lb)	Steers		Trend
South Dakota	n/a	n/a	n/a
Billings	140.50-146.75	n/a	n/a
Dodge City	143.50-145.50	n/a	n/a

USDA

Cattle / Beef Trade

Str. cattle to U.S. (head)	Exports % from 17/18		Str. cattle from U.S. (head)	Imports % from 17/18	
33,159 (1)	-24.5		n/a (2)	n/a	
9,225 (1)	+56.3		138,339 (2)	+346.0	
280,305 (3)	+3.9		14,833 (4)	+0.5	
379,949 (3)	+5.7		21,847 (4)	-7.3	

(1) to Feb 3/18 (2) to Dec 31/17 (3) to Dec 31/17 (4) to Feb 10/18
 Agriculture Canada

Fixed contract \$/ckg

(Hams Marketing)	Maple Leaf Sig 5		Thunder Creek Pork	
	Feb 16	Feb 16	Feb 16	Feb 16
Mar 17-Mar 24	146.18-149.09	143.13-145.19	146.18-149.09	143.13-145.19
Mar 31-Apr 07	147.14-147.25	144.94-146.26	147.14-147.25	144.94-146.26
Apr 14-Apr 21	147.03-147.03	148.85-149.21	147.03-147.03	148.85-149.21
Apr 28-May 05	147.03-153.95	152.42-157.63	147.03-153.95	152.42-157.63
May 12-May 19	160.84-166.37	165.06-167.88	160.84-166.37	165.06-167.88
May 26-Jun 02	166.03-168.13	167.52-169.41	166.03-168.13	167.52-169.41
Jun 09-Jun 16	168.74-172.80	169.37-172.68	168.74-172.80	169.37-172.68
Jun 23-Jun 30	177.49-177.60	172.82-175.58	177.49-177.60	172.82-175.58
Jul 07-Jul 14	174.99-176.39	174.38-175.96	174.99-176.39	174.38-175.96
Jul 21-Jul 28	171.61-172.51	171.32-175.31	171.61-172.51	171.32-175.31

Agriculture Canada

Hogs / Pork Trade

Str. hogs to/fm U.S. (head)	Export % from 17/18		Total pork to/fm U.S. (tonnes)	Import % from 17/18	
74,661 (1)	-13.3		n/a	n/a	
379,806 (2)	-6.8		19,349 (3)	+5.8	
1,285,336 (2)	+3.1		22,186 (3)	+6.1	

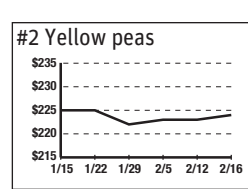
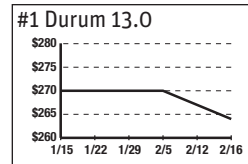
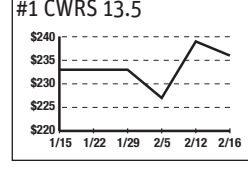
(1) to Feb 3/18 (2) to Dec 31/17 (3) to Feb 10/18
 Agriculture Canada

Chicago Hogs Lean (\$/cwt)

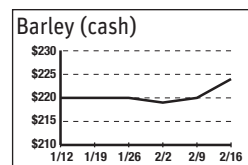
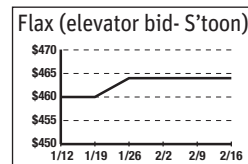
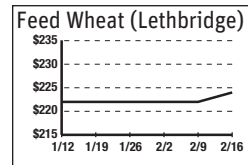
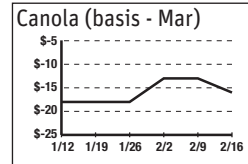
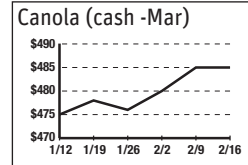
Close	Close		Trend	Year ago	Close	Close		Trend	Year ago
	Feb 16	Feb 9				Feb 16	Feb 9		
Apr	68.15	68.85	-0.70	70.78	Apr	80.83	79.98	+0.85	79.28
May	74.93	74.78	+0.15	75.70	May	68.85	68.73	+0.12	68.83
Jun	79.73	79.00	+0.73	79.28	Jun	62.80	62.88	-0.08	63.90
Jul	80.73	80.00	+0.73	79.40	Jul	66.23	65.75	+0.48	66.58

GRAINS

Cash Price for SE Sask PDQinfo.ca

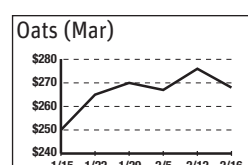
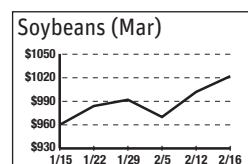
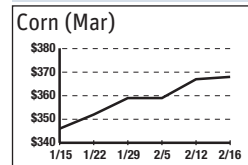


Cash Prices

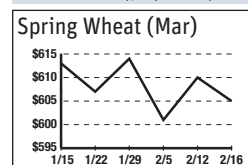


Canola is basis par region. Basis is best bid. Feed wheat and barley are priced at Lethbridge.

Chicago Nearby Futures (\$/100 bu.)



Minneapolis Nearby Futures (\$/100bu.)



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.

	Feb 16	Feb 9	Jan 12
Laird lentils, No. 1 (c/lb)	32.57	32.57	34.17
Laird lentils, No. 2 (c/lb)	28.88	28.88	29.64
Laird lentils, Xtra 3 (c/lb)	20.50	20.50	21.60
Richlea lentils, No. 1 (c/lb)	27.33	27.33	27.20
Eston lentils, No. 1 (c/lb)	26.29	26.29	28.00
Eston lentils, No. 2 (c/lb)	23.83	23.83	24.80
Eston lentils, Xtra 3 (c/lb)	20.75	20.75	20.25
Sm. Red lentils, No. 2 (c/lb)	17.44	17.44	17.22
Sm. Red lentils, Xtra 3 (c/lb)	15.33	15.33	14.75
Peas, green No. 1 (\$/bu)	8.05	8.05	7.70
Peas, medium, yellow No. 1 (\$/bu)	6.75	6.75	7.13
Peas, sm. yellow No. 2 (\$/bu)	5.98	5.98	6.41
Feed peas (\$/bu)	6.52	6.52	6.22
Maple peas (\$/bu)	17.30	17.30	16.75
Mustard, yellow, No. 1 (c/lb)	36.33	36.33	41.95
Mustard, Oriental, No. 1 (c/lb)	30.75	30.75	32.60
Mustard, Brown, No. 1 (c/lb)	44.00	44.00	44.25
Canaryseed (c/lb)	20.04	20.04	19.96
Desi chickpeas (c/lb)	26.67	26.67	26.67
Kabuli, 8mm, No. 1 (c/lb)	29.79	29.79	41.58
Kabuli, 7mm, No. 1 (c/lb)	19.58	19.58	31.58
B-90 ckpeas, No. 1 (c/lb)	23.50	23.50	35.50

Cash Prices

	Feb 14	Feb 7	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	n/a	167.71	n/a
Snflwr NuSun Enderlin ND (c/lb)	17.15	17.15	15.25

U.S. Grain Cash Prices (\$/bu.)

USDA	Feb 16
No. 1 DNS (14%) Montana elevator	5.88
No. 1 DNS (13%) Montana elevator	5.38
No. 1 Durum (13%) Montana elevator	6.00
No. 1 Malt barley Montana elevator	3.78
No. 2 Feed barley Montana elevator	2.52

Grain Futures

	Feb 16	Feb 9	Trend	Year ago
Wpg ICE Canola (\$/tonne)				
Mar	503.10	503.30	-0.20	517.70
May	508.20	509.00	-0.80	525.00
Jul	513.70	513.60	+0.10	527.20
Nov	506.90	507.20	-0.30	501.50

Chicago Wheat (\$/bu.)				
Mar	4.5775	4.6400	-0.0625	4.4100
May	4.7150	4.7600	-0.0450	4.5550
Jul	4.8650	4.8950	-0.0300	4.6850
Sep	5.0250	5.0425	-0.0175	4.8400

Chicago Oats (\$/bu.)				
Mar	2.6775	2.7500	-0.0725	2.5675
May	2.7175	2.7400	-0.0225	2.5125
Jul	2.7075	2.7250	-0.0175	2.4575

Chicago Soybeans (\$/bu.)				
Mar	10.2150	10.0175	+0.1975	10.3250
May	10.3250			

INCOMING | Talons extended, a golden eagle flies at another golden eagle on a hillside west of Nanton, Alta. | MIKE STURK PHOTO



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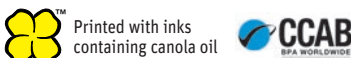
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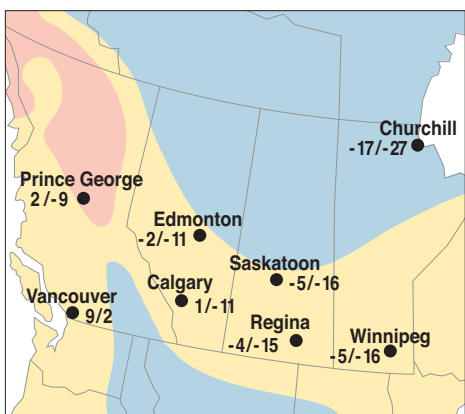
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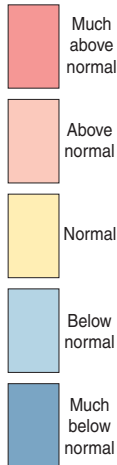
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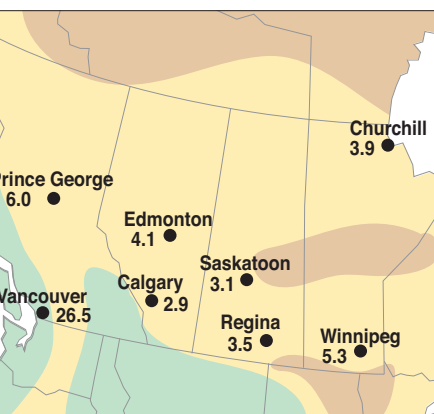
TEMPERATURE FORECAST
 Feb. 22 - Feb. 28 (in °C)



TEMP. MAP



PRECIPITATION FORECAST
 Feb. 22 - Feb. 28 (in mm)



PRECIP. MAP



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 FEB. 15

SASKATCHEWAN

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Assiniboia	1.4	-33.6	0.9	30.9	64
Broadview	0.3	-33.3	2.9	40.9	60
Eastend	-0.8	-34.5	5.2	34.7	53
Estevan	2.8	-35.0	1.7	29.1	45
Kindersley	1.2	-36.4	2.1	34.6	81
Maple Creek	7.3	-39.5	3.9	44.9	78
Meadow Lake	1.9	-33.9	0.4	47.4	77
Melfort	0.7	-31.4	1.1	39.0	67
Nipawin	-3.0	-32.7	2.2	41.7	66
North Battleford	2.6	-32.0	1.1	33.1	61
Prince Albert	0.8	-33.9	0.6	64.7	106
Regina	0.7	-33.6	1.4	24.7	46
Rockglen	1.7	-33.8	0.9	39.9	77
Saskatoon	2.3	-32.4	1.6	36.1	70
Swift Current	2.2	-32.5	1.1	26.4	53
Val Marie	2.0	-43.6	1.4	35.9	75
Wynyard	0.8	-29.2	1.4	43.5	72
Yorkton	-0.1	-30.9	3.4	36.9	54

ALBERTA

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Brooks	3.6	-37.7	1.7	54.8	134
Calgary	9.0	-28.9	0.8	64.3	152
Cold Lake	2.2	-30.8	3.5	74.8	123
Coronation	3.9	-31.4	2.3	33.9	74
Edmonton	5.7	-29.5	1.5	43.6	69
Grande Prairie	3.7	-34.5	2.6	142.5	164
High Level	2.8	-32.6	2.5	55.7	69
Lethbridge	3.8	-33.9	0.5	46.8	90
Lloydminster	2.5	-30.0	1.5	21.5	38
Medicine Hat	5.0	-36.7	2.5	66.0	139
Milk River	6.0	-34.4	1.3	65.1	104
Peace River	2.4	-31.1	1.6	73.3	93
Pincher Creek	0.5	-30.6	5.0	112.0	123
Red Deer	5.4	-30.2	2.6	39.0	70
Stavelly	6.9	-22.8	4.5	63.3	107
Vegreville	4.8	-34.4	1.6	41.3	76

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

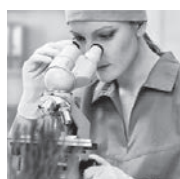
	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Brandon	-0.8	-30.8	3.2	46.2	66
Dauphin	-0.8	-31.3	7.3	42.0	60
Gimli	-4.4	-30.4	1.3	27.3	38
Melita	2.1	-32.1	2.3	22.2	32
Morden	4.4	-26.3	0.6	32.5	41
Portage la Prairie	0.7	-27.6	1.6	46.7	58
Swan River	-3.4	-32.3	1.6	38.5	49
Winnipeg	0.3	-29.7	0.4	22.1	29

BRITISH COLUMBIA

Cranbrook	-0.2	-22.7	0.6	161.3	112
Fort St. John	1.6	-24.0	4.5	176.9	193
Kamloops	3.7	-16.5	0.7	94.5	101
Kelowna	3.2	-14.6	0.0	99.1	78
Prince George	-1.2	-30.1	1.5	147.2	84



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2017 Outstanding Dealership Award Winner Trochu Motors Ltd.

By Sarah Hoffmann

2017 was a banner year for Trochu Motors. The central Alberta equipment dealer celebrated its 70th anniversary in business and was named the Outstanding Dealership of the Year, as nominated by Western Producer readers.

The award recognizes dealerships for the highest standards in customer service and business ethics. Trochu Motors also received this award in 2014. They are the only dealer to win twice, a testament to the loyalty they cultivate amongst their customers through service that exceeds expectations. Jack Stankieveh, partner and dealer principal at Trochu Motors, credited his entire staff with helping earn this award.

"It boils down to a total company commitment to customer care. From our fantastic caretaker keeping our store looking great right through the whole team, the basic goal is to make sure the customers' needs are taken care of."

In an era of increasing dealership consolidation, Stankieveh also believes that farmers appreciate dealing with owners. "We feel it's an advantage to have people at the dealership with significant skin in the game," he said.

Stankieveh took over management of Trochu Motors in 1977 from his father and uncle, John and Aaron Stankieveh, who started Trochu Motors. Today Jack's children, Landis and Camille, work at the dealership, helping to maintain the family tradition of great customer service.

As anyone in business for 70 years can attest, there would have been many ups and downs in a business's history. Trochu Motors is no different. Cycles of drought and high interest rates have caused farmers to tighten their purse strings at times, but like the customers they support, Trochu Motors weathered those difficult times. Today the company has a strong equipment line up, including AGCO brands such as Massey Ferguson, RoGator, Challenger, and Gleaner, as well as Versatile and Kubota. Several shortline equipment franchises round-out their offerings.

In 2014 they built a new building in Trochu, close to the highway, improving visibility, access and the company's ability to service equipment. Stankieveh's business partner, Rich Meding, was instrumental in initiating and designing the facility. With several years of strong equipment sales, Meding knew that someday the service requirements of these new machines would outstrip the capacity they had in an older shop. Trochu Motors took the plunge and built a shop and showroom that would meet their needs and the needs of their customers in the future.

"Our philosophy is 'make hay while the sun shines,' which is the same one as the farmer uses," said Meding. Practices like staying open late and stocking more parts than the average dealership make Trochu Motors a reliable place to do business, and for that reason the business draws customers from a large territory.

"People a long way from Trochu are wearing our ball caps, and we are proud of that," said Meding.

Trochu Motors values their customers and it's clear the feeling is mutual. John Kowalchuk farms east of Trochu, near Rumsey. He runs Massey Ferguson combines and said he can always rely on Trochu Motors staff to make sure his equipment stays running through harvest.

"Their service and parts departments are amazing. They want everybody to get harvest off," said Kowalchuk. "I've gone in there at 9 pm when I'm



Above: Trochu Motors management and staff proudly display the Outstanding Dealer of the Year Award. Missing are: D Bieri, L. Clark, B. Gray, C. Healey, S. Kolta, M. Korschuh, E. Kowarschuk, G. McRae, L. Meding, S. Meding, B. Nagy, C. Nagy, C. Stankieveh, L. Stankieveh, D. Toews, B. Walker, L. Wildeman



Top Right: Trochu Motors built a new facility in 2014 to better serve their customers. **Bottom:** Over 1200 guests celebrate Trochu Motors 70th Anniversary in April 2017 **Above Left:** Jack Stankieveh (left) and Rich Meding, owners of Trochu Motors, speak to guests at the Trochu Motors 70th anniversary party.



harvesting and they might not have the part I need, but if they have a used combine sitting there, they'll let me have the part off it until the new one comes in. It's really selfless."

Ultimately, Kowalchuk said the quality of the people at Trochu Motors are what keep him coming back.

"It's the people that make the dealership. They're very knowledgeable. They really seem to care about the farmers," said Kowalchuk. People like Jim Adams, shop foreman at Trochu Motors for over 30 years, embody the core values of service of the business.

"We've got good techs out there that serve the customer well," said Adams who has seen many changes in his tenure as a mechanic. "There were no lap tops when I started 34 years ago. Nowadays it's all electrical and error codes. The staff needs a lot more knowledge."

There is no slowing the pace of change in the agriculture industry and Trochu Motors certainly seems poised to keep up with the trend while maintaining a tradition of service to their customers.

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